



# 1999 Kentucky Hybrid Corn Performance Test

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

## Presentation of Data

Complete 1999 data are 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 4E, 4M, 4L, 5E, 5M, 5L, 6E, 6M, and 6L), 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 characteristics 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 in one maturity group test with another grown at a different location and the same or a different maturity group test. Hybrids are grouped into early-, mid-, and late-maturity groups based on days-to-maturity classification provided by the parent company. Also, those hybrids that yield equally as high as the highest yielding hybrid based on statistical evaluation are indicated by an asterisk. See sections on *Maturity Comparisons* and *Experimental Design and Means Comparisons* for more detail.

## Testing Procedure

### Selection of Hybrids

The hybrids chosen for testing are those most likely to be available for sale in 2000. Seed of each commercial hybrid (Table 2) was obtained from the sponsoring company. Each company was given the opportunity to enter hybrids into the early (112 days to maturity or earlier), medium (113-117 days to maturity), and/or late (118 days to maturity or later) tests. The days-to-maturity classification was made by the parent companies.

### Location of Tests

The map on page 1 shows the test locations. The test sites were selected to represent different agroclimatic areas of the state where corn is a major commodity.

### Cultural Practices

The Princeton, Franklin, and Glendale test locations were planted no-till in soybean residues. The Mayfield test was planted no-till following wheat residue. The Robards test was planted minimum-till following soybeans. The Lexington and Quicksand tests were planted in conventionally tilled seedbeds following corn. Fertilizer was applied as indicated by soil tests.

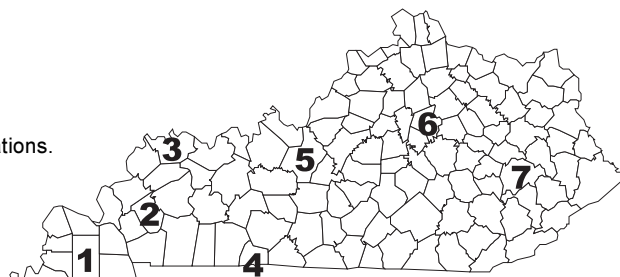
All test areas were treated with herbicide(s) and supplemented by post-emergence cultivation and/or herbicide when necessary. Force was applied in the row at planting to control corn rootworms. Table 3 shows the specific cultural treatment for each location.

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E=Early, L=Late, M=Medium

Locations of the 1999 Hybrid Corn Performance Test



### Experimental Design and Mean Comparisons

Each hybrid was grown in three replications 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, respectively. A randomized complete block (RCB) design was used for each maturity group test at each 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 variety B have the same yield in this test. However the difference between variety A and variety 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 difference 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. A low C.V. indicates little unexplained variation and more precise 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 that 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. When seedlings were 12-18 inches tall, the plots were thinned to 33 plants/row, which equals 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 were 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. Test weight was also provided by the electronic weighing device. The test weight reported in each annual table for any hybrid is not corrected for harvest moisture and is reported at the moisture content for that hybrid listed in that table. Dropped ears were not gleaned from the plots.

The total number of lodged plants was recorded immediately prior to harvest. Also at harvest, selected plots were observed to indicate apparent European Corn Borer damage by counting the number of broken tops per plot. (personal communication, Dr. Rick Bessin, Department of Entomology, University of Kentucky). The most severe indications of European Corn Borer damage (>50% broken tops) were observed at the Lexington and Mayfield locations. The least damage was observed at Robards and Princeton (10-15% broken tops). In general, Bt hybrids had less apparent corn borer damage than non-Bt hybrids.

### Chemical Analysis

Chemical composition was measured from one replication of each early-, mid-, and late-maturity test at each location. These samples were analyzed by the Kentucky Grain Quality Laboratory at Lexington<sup>1</sup> using Near Infrared Reflectance Spectroscopy (NIRS). The NIRS analysis provided evaluation of protein, starch, and oil and is presented in Table 7 for grain at 0% moisture.

Since grain used in feed rations contains some moisture, the composition variables provided in Tables 7 and 15 possibly should be used at a moisture content that is different than the 0% shown in Tables 7 and 15. To convert to a suitable moisture content—for example, 15% moisture—multiply the values in Table 7 or Table 15 by 0.85. For any other moisture content, multiply the values by (100 - % moisture)/100.

### High Oil Tests

High oil hybrid blends (TC High Oil Blend®) were tested at three locations. The yield and composition information will be useful to farmers feeding high oil (high energy) grain to livestock and to those participating in the high oil, value-added grain market. The tests had 13 entries at three locations with three replications per location. The three-location average yield data are available in Table 15D. The two-year table (Table 15E) includes only the data from the Lexington and Robards locations. A 20 to 25 plant hand-pollinated sample from each replication of the Lexington test was analyzed for chemical composition. The grain was analyzed by the Kentucky Grain Quality Laboratory at Lexington<sup>1</sup> using NIRS. The chemical composition values presented in Table 15F are given for grain at 0% moisture.

### *Maturity Comparisons*

The Kentucky Hybrid Corn Performance Test was divided into three tests—early, medium, and late maturities—to provide evaluations of the three maturity group hybrids without competition biases. The three tests were grown at every location for a total of 21 tests.

The early maturity hybrid group in Table 4E and all subsequent “E” tables are those hybrids rated by the parent seed company to mature in 112 days or earlier.

The medium maturity hybrid group in Table 4M and all subsequent “M” tables includes those hybrids rated by the parent seed company to mature in 113-117 days.

The late maturity hybrid group in Table 4L and all subsequent “L” tables includes those hybrids rated by the parent seed company to mature in 118 days or later.

The open-pedigree hybrids, FR1064 X FR450, FR27 X Mo17, and B73 X Pa91, were included in each early, mid, and late test, respectively, to provide an internal evaluation of hybrid maturity. The seed of these hybrids was obtained from Illinois Foundation Seeds Inc. at Champaign, Ill.

### **Notes about the 1999 Growing Season**

#### *Mayfield (Graves County)*

The Mayfield test was planted on April 13 and thinned on May 26. Plant populations and early weed control were good even though the test had compaction problems. The previous crop was no-till wheat. A high oil test was also grown at this location.

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

The Princeton test was planted on May 3 in soybean residue and was thinned on June 10. Weed control was good. There were no disease problems.

#### *Franklin (Simpson County)*

The Franklin test was planted on April 20 and was thinned on June 2. Weed control was excellent during the entire season. Stands were excellent.

#### *Robards (Henderson County)*

The Robards test was planted on May 4 in soybean residue and thinned on June 10. There were no weed or insect problems. A high oil test was also grown at this location.

#### *Glendale (Hardin County)*

The Glendale test was planted no-till in soybean crop residue on April 22 and was thinned on June 2. Weed control was good during the entire growing season. There were no disease problems. This test was damaged by drought during the growing season.

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

The Lexington test was planted on April 30. The test was thinned on June 1 and 2. Late-season grasses in alleyways were sprayed with Roundup. There were no disease problems, but there was some damage from European Corn Borer. A high oil test was also grown at this location. This test was damaged by drought during the growing season.

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

The Quicksand test was planted on May 10 and thinned on June 17. Early-season weed control and seedling emergence were excellent for most plots. The alleyways were sprayed with Roundup to control johnsongrass and other late emerging weeds and grasses.

*Where trade names are used, no endorsement is intended, nor criticism implied of similar products not named.*

<sup>1</sup> The Grain Quality Laboratory is a service provided by the University of Kentucky Department of Agronomy with funding from the Kentucky Corn Growers Association.

## 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. Several locations suffered reduced yields due to the extreme drought conditions during the growing season.

## Acknowledgments

The authors sincerely appreciate efforts of the Kentucky Corn Growers Association in helping us upgrade plot equipment. A MF 8-XP combine was leased to the corn project at minimal cost by the Kentucky Corn Promotion Council of the Kentucky Corn Growers Association. This combine contributed to improved accuracy of the data, which is reflected in lower C.V.'s. The combine uses a data collection system that provides 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, which processed more than 900 grain samples, and to the farmer-cooperators, who not only provided land for testing but helped with the tests throughout the growing season: *Jerry and John Griffith* of Mayfield, *Tim and Lori Hughes* of Morgantown,

*Claude Watkins Sr. and Claude Watkins Jr.* of Robards, and *Scott Langley* of Glendale.

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*Bill Green*, Extension Agent, Mayfield

*Jeff Watt*, Extension Agent, Franklin

*Mike Smith*, Extension Agent, Robards

*Rod Grusy*, Extension Agent, Elizabethtown

**Table 1. Precipitation At Test Locations, 1999.**

Month	Days	Location						
		Mayfield	Princeton	Franklin	Robards	Glendale	Lexington	Quicksand
April	1-8	1.92	3.00	0.65	1.92	1.34	0.48	0.43
	9-16	1.90*	1.10	0.63	0.72	1.40	0.34	0.59
	17-24	0.12	0.01	0.10*	0.01	0.27	0.13	0.35
	25-30	0.82	1.74	0.40	2.71	1.97	0.92*	1.69
	Total	4.76	5.85	1.78	5.36	4.98	1.87	3.06
May	1-8	1.98	2.25*	1.98	1.24*	1.44*	0.60	1.21
	9-16	0.20	0.18	0.34	0.29	1.17	0.42	0.12*
	17-24	0.93	0.63	0.87	0.98	0.86	0.33	1.62
	25-31	0.11	0.28	0.16	0.41	0.00	0.00	0.00
	Total	3.22	3.34	3.35	2.92	3.47	1.35	2.95
June	1-8	1.46	1.40	1.31	2.84	0.74	0.55	0.42
	9-16	0.75	1.11	0.41	0.52	0.46	0.60	0.96
	17-24	3.41	1.07	0.92	1.08	0.82	0.56	0.48
	25-30	1.21	0.94	1.34	1.33	1.87	2.18	1.21
	Total	6.83	4.52	3.98	5.77	3.89	3.89	3.07
July	1-8	1.23	4.12	0.74	0.86	0.06	0.27	0.27
	9-16	0.35	0.21	0.11	0.59	0.46	0.04	0.72
	17-24	0.73	0.28	0.21	0.31	0.07	0.46	2.70
	25-31	0.00	0.00	0.12	0.00	0.00	0.23	0.87
	Total	2.31	4.61	1.18	1.76	0.59	1.00	4.56
August	1-8	0.00	0.28	0.97	1.36	0.00	0.71	0.27
	9-16	0.12	0.62	0.02	0.00	0.00	0.00	0.85
	17-24	0.00	0.10	0.00	0.00	0.00	0.57	0.33
	25-31	0.00**	0.00	0.00	0.00	0.00	0.03**	3.75
	Total	0.12	1.00	0.99	1.36	0.00	1.31	5.20
Sept.	1-8	0.00	0.00	0.00**	0.00	0.00**	0.00	0.00
	9-16	0.04	0.17**	0.19	0.09	0.04	0.12	0.05
	17-24	0.16	0.36	1.39	0.18**	0.83	0.15	0.22
	25-30	0.05	0.19	0.71	0.16	0.94	0.75	0.60
	Total	0.25	0.72	2.29	0.43	1.81	1.02	0.87
Grand Total		17.49	20.04	13.57	17.60	14.74	10.44	19.71

\* Planted. \*\* Harvested in August & September. All others harvested in October.

**Table 2. Hybrids Tested In 1999.**

	Hybrid	Test+ Color	Days to Maturity++	Source
Adler Seeds	5250	M Yellow	113	Adler Seed 6085 W 550 N Sharpsville, IN 46068
Agrigold	A6460TC A6490TC	HO Yellow HO Yellow		Agrigold Hybrids RR#1 Box 203 St. Francisville, IL 62460
Akin	A-6432 A-6530W A-6569Bt A-6590 A-6609Bt A-6725 A-6723RR A-3809	E Yellow M White M Yellow M Yellow M Yellow L Yellow M Yellow M Yellow	108 115 113 113 115 117 113 113	Akin Seed Co. P.O. Box 203 Route 1 St. Francisville, IL 62460
Asgrow	748TC RX740 RX730YG RX739 RX770YG RX799Bt RX901W	HO Yellow E Yellow E Yellow E Yellow E Yellow E Yellow L White	108 108 108 108 109 111 118	Monsanto Company 15 Executive Drive Suite 1 Lafayette, IN 47905
Beck's	5727 8280 5912W 6205 6205TC	E Yellow M Yellow E White E Yellow HO Yellow	111 116 112 112 112	Beck's Superior Hybrids 6767 E. 276th Street Atlanta, IN 46031
Callahan	C7557 C7625RR C7860 C7640Bt C7655 C7762 C7975Bt	E Yellow E Yellow E Yellow M Yellow M Yellow M Yellow L Yellow	112 111 112 114 115 113 117	Callahan Seeds 1122 East 169th St. Westfield, IN 46074
Campbell	7099 7250 7650 8000	E Yellow E Yellow M Yellow L Yellow	111 112 116 118	Campbell Seed Inc. 1375 N 800 W Tipton, IN. 46072
Caverndale Farms	CF828Bt CF832-IMI CF835 CF885 CF890 CF940	M Yellow M Yellow M Yellow M Yellow M Yellow M Yellow	114 115 116 116 117 116	Caverndale Farms Inc. 1921 Bluegrass Road Danville, KY 40422
Colbert	254 258 240	M Yellow M Yellow E Yellow	115 115 112	Colbert Farms R.R. #2 Box 311 Washington, IN 47501
Crow's	687Bt 496 691	M Yellow E Yellow L Yellow	116 112 118	Crow's Hybrid Corn Co. P.O. Box 306 Milford, IL 60953
DeKalb	DK595Bty DK611 DK626Bty DK650 DK679Bty DK697	E Yellow E Yellow E Yellow M Yellow M Yellow L Yellow	109 111 112 115 117 119	Monsanto Company 3100 Sycamore Road DeKalb, IL 60115
Dyna-gro	5505RR	E Yellow	112	UAP Mid-South 57 Germantown Court Suite 200 Cordova, TN 38018
Exsegen	ES519 ES617	M Yellow M Yellow	115 116	Miles Farm Supply P.O. Box 22879 Owensboro, KY 42304
Garst	8464 8220 8222IT	E Yellow L Yellow L Yellow	111 120 118	Garst Seed Co. 7728 State Road 1241 Hickory, KY 42051
Gateway	2118 1157	E Yellow M Yellow	111 115	Gateway Seed Co. 5517 VanBuren Road Nashville, IL 62263

**Table 2. Hybrids Tested In 1999 (continued).**

	Hybrid	Test+ Color	Days to Maturity++	Source
Golden Harvest	H-2552	E Yellow	111	Thorp Seed Co. R.R. 3, Box 257 Clinton, IL 61727
	H-9285Bt	E Yellow	112	
	H-2636	M Yellow	116	
	H-9229	M Yellow	113	
	H-9345	M Yellow	114	
	H-9405	M Yellow	115	
	H-9481Bt	M Yellow	115	
	H-2547HOC	HO Yellow		
	H-9257HOC	HO Yellow		
Great Lakes	6968	L Yellow	119	Great Lakes Hybrids 9915 W21 P.O. Box 637 Ovid, MI 48866
Hytect	HT7712	E Yellow	111	Agribiotech 120 Corporate Park Drive Henderson, NV 89014
	HT7736	E Yellow	112	
	HT7820	M Yellow	116	
	HT7844	M Yellow	115	
LG Seeds	LG2726	M Yellow	117	LG Seeds Inc. Windfall Service Center 3200 N. State Road 213 P.O. Box 457 Windfall, IN 46076
	LG2604IT	E Yellow	112	
	LG2587	E Yellow	111	
	LG2648Bt	M Yellow	116	
Mycogen	2725	E Yellow	112	Mycogen Seeds 105 Allison Lincoln, IL 62656
	2717Bt	E Yellow	110	
	2799Bt	M Yellow	114	
	2888IMI	L Yellow	118	
Novartis	NK Brand N63-G7	E Yellow	110	Novartis Seed Co. P.O. Box 959 Minneapolis, MN 55440
	NK Brand N58-D1	E Yellow	109	
	NK Brand N71-T7	M Yellow	113	
	NK Brand N79-L3	M Yellow	117	
	NK Brand 83-N5	L Yellow	118	
Pfister Hybrids	3321	M Yellow	113	Pfister Hybrid Corn Co. P.O. Box 187 El Paso, IL 61738
	3977	M Yellow	115	
	3049-19	HO Yellow		
	2652-19	HO Yellow		
	3977-19	HO Yellow		
Pioneer Brand	33J24	E Yellow	112	Pioneer Hi-Bred International 6767 Old Madison Pike Suite 110 Huntsville, AL 35806
	34B23	E Yellow	108	
	33J56	M Yellow	113	
	33G26	E Yellow	112	
	33K62(Bt)	M Yellow	116	
	3335	M Yellow	113	
	32K61	M Yellow	114	
	33A14(Bt)	M Yellow	113	
	33Y18	E Yellow	112	
	33G27(Bt)	M Yellow	113	
	32Y52	M White	115	
	31A12	L Yellow	118	
	31B13(Bt)	L Yellow	118	
	34W67	E Yellow	112	
	Southern States	SS767TC	HO Yellow	
SS710		E Yellow	111	
SS729CL		M Yellow	114	
SS747CL		M Yellow	116	
SS769Bt		M Yellow	117	
SS828		M Yellow	117	
SS849CL		M Yellow	117	
SS859CL		L Yellow	119	
SS943		L Yellow	120	
SS727TC		HO Yellow		
Terra Seed	TR 1157	M Yellow	115	Terra Distribution P.O. Box 171376 Memphis, TN 38187
	TR 1167	M Yellow	116	
	TR 1185	L Yellow	118	
	TR 1106	E Yellow	110	
	TR 1097	E Yellow	109	
	TR 1147RR	M Yellow	114	
	TR 1128	E Yellow	112	
	TR 1129RR	E Yellow	112	
	TR 1089IT	E Yellow	108	

**Table 2. Hybrids Tested In 1999 (continued).**

	Hybrid	Test+ Color	Days to Maturity++	Source
Zimmerman	N71-T7	E Yellow	111	Wilson Genetics, LLC (Zimmerman Brand) P.O. Box 391 Harlan, IA 51537
	NX7208	E Yellow	112	
	Z42	E Yellow	110	
	1790W	M White	113	
	1780W	M White	114	
	Z37	M Yellow	115	
	1851W	M White	116	
	Z39	M Yellow	115	
	Z62W	M White	111	
	Z64W	M White	115	
	Z75W	M White	111	
Wyffels	W7029TC	H0 Yellow		Wyffels Hybrids Inc. P.O. 246 Atkinson, IL 61235
	W7354TC	H0 Yellow		
K.A.E.S.	FR1064xFR450	E Yellow	112	Illinois Foundation Seeds Inc. P.O. Box 722 Champaign, IL 61820
	FR27xMo17	M Yellow	115	
	B73XPa91	L Yellow	119	

+ E=Early Test, M=Medium Test, L=Late Test and H0=High Oil Test.  
 ++Data provided by seed companies.

**Table 3. Agronomic Information Pertaining To 1999 Test Locations.**

Location and Cooperator	Soil Type	Fertilizer lb/ac	Herbicide	Insecticide	Planting Dates	Harvest Dates
1) Mayfield, Ky Jerry & John Griffith Bros.Farm	Memphis Silt Loam	N -250 P <sub>2</sub> O <sub>5</sub> - 92 K <sub>2</sub> O -120	Bicep II Aatrex	Force 1.5G Warrior	April 13	Aug. 26 & 27
2) Princeton, Ky Western Kentucky Res. & Ed. Center	Huntington & Lindsie Silt Loam	N -185 P <sub>2</sub> O <sub>5</sub> - 0 K <sub>2</sub> O -105	Beacon Bullet Gramoxone	Force 1.5G	May 3	Sept. 14
3) Robards, Ky Claude Watkins Farm	Falaya	N -185 P <sub>2</sub> O <sub>5</sub> - 80 K <sub>2</sub> O -105	Frontier Atrazine	Force 1.5G	May 4	Sept. 23
4) Franklin, Ky Tim Hughes Farm	Pembroke	N -200 P <sub>2</sub> O <sub>5</sub> - 60 K <sub>2</sub> O - 60	Distinct Atrazine Assure	Force 1.5G Warrior	April 20	Sept. 1
5) Glendale, Ky Scott Langley Farm	Grider	N -165 P <sub>2</sub> O <sub>5</sub> - 70 K <sub>2</sub> O - 90	Princep Atrazine	Force 1.5G	April 22	Sept. 8
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	Bullet	Force 1.5G	April 30	Aug. 30 & 31
7) Quicksand, Ky Robinson Forest Station	Philo Silt Loam	N -150 P <sub>2</sub> O <sub>5</sub> -120 K <sub>2</sub> O -120	Bullet Beacon	Force 1.5G	May 10	Oct. 1

**Table 4E. Annual Summary, 1999, Early Hybrids (112 Days To Maturity Or Earlier), All Locations.**

BRAND/HYBRID	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
PIONEER BRAND 33Y18	144.0*	12.9	99.1	2.2	61.0
MYCOGEN 2717Bt	143.5*	12.3	99.1	1.5	57.7
PIONEER BRAND 33G26	142.6*	13.9	100.0	1.8	59.9
NK BRAND N63-G7	141.8*	12.2	100.0	1.3	57.9
NK BRAND N58-D1	140.9*	12.1	99.3	0.7	58.9
PIONEER BRAND 33J24	139.6*	16.8	98.2	1.7	61.5
ASGROW RX799Bt	138.4*	16.6	100.0	5.2	59.8
TERRA SEED TR1097	138.0*	13.2	100.0	1.4	57.4
SO. STATES SS710	137.2*	12.3	98.3	0.5	58.5
ASGROW RX739	137.0*	13.0	100.0	1.6	57.6
PIONEER BRAND 34B23	137.0*	13.5	100.0	2.4	60.1
PIONEER BRAND 34W67	136.6*	13.7	100.0	1.4	60.6
DEKALB DK626Bty	135.7*	12.4	100.0	1.1	58.5
ZIMMERMAN Z42	135.1	14.6	99.6	0.8	58.3
CALLAHAN C7557	133.7	13.6	99.1	6.1	58.0
BECK'S 6205	133.2	14.6	100.0	1.8	57.1
GARST 8464	133.1	13.4	100.0	1.4	56.4
DEKALB DK611	133.0	13.3	100.0	3.0	59.3
ASGROW RX730YG	133.0	13.1	100.0	2.7	58.2
DEKALB DK595Bty	131.5	11.7	99.6	1.2	58.2
ZIMMERMAN N71-T7	130.5	15.5	99.6	1.7	58.4
GOLDEN HARVEST H-9285Bt	130.2	11.7	99.9	0.6	56.3
BECK'S 5912W	130.1	15.4	98.8	4.4	59.8
GOLDEN HARVEST H-2552	130.0	11.8	99.1	1.5	56.5
CROW'S 496	128.0	13.5	99.9	3.9	57.3
AKIN A6432	126.6	12.4	99.1	2.1	56.4
MYCOGEN 2725	126.4	13.2	100.0	2.5	57.5
HYTEST HT7712	125.9	15.1	100.0	2.6	60.2
BECK'S 5727	125.6	13.0	99.8	3.8	60.8
LG SEEDS LG2604IT	125.5	13.2	98.8	4.7	57.1
TERRA SEED TR1106	125.2	13.6	97.5	2.4	56.8
FR1064 X FR450	125.1	11.8	97.0	1.7	57.3
GATEWAY 2118	124.7	13.6	98.1	3.5	60.6
TERRA SEED TR1089IT	124.5	12.5	99.6	1.3	57.4
CAMPBELL 7099	124.4	14.7	99.7	3.6	58.5
ASGROW RX770YG	124.1	12.5	98.4	2.0	57.7
HYTEST HT7736	123.0	15.9	99.6	1.8	58.0
CALLAHAN C7625RR	122.6	12.8	100.0	4.3	58.8
ASGROW RX740	122.3	13.4	100.0	3.3	60.8
CAMPBELL 7250	122.0	14.0	99.6	1.9	57.0
CALLAHAN C7860	121.8	13.2	99.9	3.0	60.7
COLBERT FARMS 240	120.7	12.7	99.6	3.1	56.6
DYNA-GRO 5505RR	119.1	12.5	99.2	3.3	57.6
TERRA SEED TR1128	118.2	13.0	98.8	2.7	60.2
ZIMMERMAN NX7208	116.8	15.8	99.7	2.3	58.8
LG SEEDS LG2587	115.2	13.5	97.8	2.7	60.3
TERRA SEED TR1129RR	114.1	12.6	99.4	3.7	58.3
EARLY AVERAGE	129.8	13.4	99.4	2.4	58.5
LSD (0.10)	8.6	0.6	1.2	1.6	1.1

\* 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 4E. Two-year Summary, 1998-1999, Early Hybrids (112 Days To Maturity Or Earlier), All Locations.**

BRAND/HYBRID	YIELD BU/AC 98-99	% MOIST 98-99	% STAND 98-99	TOT % LODGED 98-99	TEST WT LBS/BU 98-99
PIIONEER BRAND 33G26	166.4*	14.2	98.1	1.8	61.0
PIIONEER BRAND 33Y18	161.0*	13.7	99.2	2.3	62.1
NK BRAND N63-G7	157.0	12.9	99.7	1.5	59.3
BECK'S 6205	155.0	14.5	99.9	2.1	58.4
CALLAHAN C7557	154.2	13.9	99.2	4.2	58.5
BECK'S 5912W	153.6	15.3	99.4	3.0	61.1
GARST 8464	153.4	14.0	99.7	1.7	58.4
CAMPBELL 7250	152.5	14.1	99.4	2.2	58.0
ZIMMERMAN Z42	152.4	14.7	99.2	0.9	59.6
CROW'S 496	151.2	13.9	99.7	3.2	58.4
MYCOGEN 2725	149.7	13.7	100.0	2.2	58.9
GOLDEN HARVEST H-2552	149.6	12.4	99.4	1.8	57.5
HYTEST HT7712	149.3	15.0	99.6	2.6	61.2
TERRA SEED TR1106	148.6	13.9	97.5	2.1	57.5
COLBERT FARMS 240	146.0	13.0	99.8	2.5	57.6
ASGROW RX740	143.7	13.9	100.0	2.6	61.5
LG SEEDS LG2587	143.0	14.0	98.7	2.3	61.2
FR1064 X FR450	132.2	12.9	98.1	1.9	57.3
EARLY AVERAGE	151.1	13.9	99.3	2.2	59.3
LSD (0.10)	6.4	0.3	1.2	1.0	0.7

**Table 4E. Three-year Summary, 1997-1999, Early Hybrids (112 Days To Maturity Or Earlier), All Locations.**

BRAND/HYBRID	YIELD BU/AC 97-99	% MOIST 97-99	% STAND 97-99	TOT % LODGED 97-99
PIIONEER BRAND 33Y18	162.2*	15.4	99.2	1.9
BECK'S 6205	155.6	15.8	99.9	1.7
BECK'S 5912W	152.6	17.3	99.0	2.4
CALLAHAN C7557	151.1	15.7	99.3	3.2
CROW'S 496	149.4	15.4	99.8	2.5
FR1064 X FR450	130.1	14.8	96.5	1.8
EARLY AVERAGE	150.2	15.7	98.9	2.2
LSD (0.10)	5.4	0.3	1.2	0.7

\* 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 5M. Annual Summary, 1999, Medium Hybrids (113-117 Days To Maturity), All Locations.**

BRAND/HYBRID	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TESTWT LBS/BU 1999
LG SEEDS LG2648Bt	138.3*	16.3	99.6	4.5	58.7
SO. STATES SS828	134.3*	15.8	98.6	1.9	55.4
SO. STATES SS769Bt	134.2*	15.3	100.0	5.3	58.6
PFISTER 3977	132.5*	15.7	99.5	3.2	57.9
TERRA SEED TR1157	131.7*	16.7	99.1	1.9	56.7
PIONEER BRAND 32K61	131.4*	17.1	100.0	0.9	61.9
PIONEER BRAND 33K62(Bt)	130.4*	17.7	99.1	0.8	61.3
PIONEER BRAND 33J56	130.3*	15.9	98.3	2.4	60.3
PIONEER BRAND 33G27(Bt)	130.1*	15.1	99.4	0.1	60.8
CROW'S 687Bt	129.9*	16.3	99.8	5.8	59.1
FR27 X M017	128.9	15.9	99.7	0.7	56.1
PIONEER BRAND 33A14(Bt)	128.5	13.6	98.9	1.0	59.4
AKIN A6609Bt	128.4	15.9	100.0	9.7	59.3
TERRA SEED TR1167	128.2	17.8	99.6	1.4	58.1
LG SEEDS LG2726	127.6	16.0	98.3	6.4	59.0
MYCOGEN 2799Bt	126.6	13.7	99.2	1.5	58.3
GOLDEN HARVEST H-9405	126.0	14.3	99.1	4.1	58.1
HYTEST HT7844	125.8	15.1	99.6	3.2	58.0
EXSEGEN ES519	125.7	17.1	97.6	1.9	57.1
GOLDEN HARVEST H-9481Bt	125.5	14.4	99.8	4.5	58.4
ZIMMERMAN Z39	125.4	16.4	99.2	2.7	56.0
PIONEER BRAND 3335	125.1	14.0	100.0	4.1	60.5
CAMPBELL 7650	124.8	17.5	100.0	3.4	56.6
CAVERNDALE CF828Bt	124.3	13.6	98.6	1.4	57.8
NK BRAND N71-T7	124.1	16.2	99.8	0.4	58.5
CAVERNDALE CF940	124.0	14.8	98.3	3.4	57.1
CAVERNDALE CF832-IMI	123.9	15.0	99.6	2.0	58.3
TERRA SEED TR1147RR	123.6	12.4	99.9	1.0	57.1
EXSEGEN ES617	123.5	17.4	99.3	1.5	58.6
CALLAHAN C7762	123.5	14.2	99.4	3.2	56.9
SO. STATES SS729CL	123.3	13.9	100.0	4.7	58.3
GOLDEN HARVEST H-2636	122.6	15.3	99.4	3.9	58.0
NK BRAND N79-L3	122.4	15.8	100.0	4.3	61.9
BECK'S 8280	122.4	16.4	100.0	5.0	59.8
ZIMMERMAN Z37	122.0	18.7	99.3	3.0	59.8
SO. STATES SS747CL	121.8	16.1	99.1	4.8	58.3
PIONEER BRAND 32Y52	121.8	13.9	99.4	2.7	61.0
CALLAHAN C7640Bt	121.7	13.0	100.0	3.3	57.5
ZIMMERMAN 1851W	121.6	19.2	99.4	2.5	57.7
SO. STATES SS849CL	121.6	15.9	97.2	1.7	55.3
CAVERNDALE CF885	121.5	14.8	98.7	0.6	59.3
GATEWAY 1157	120.4	17.5	98.1	6.0	58.8
ADLER SEED 5250	119.5	15.0	99.1	2.0	57.5
AKIN A6569Bt	119.4	13.5	100.0	4.7	57.8
COLBERT 258	118.9	14.4	99.6	1.0	59.4
ZIMMERMAN 1780W	118.6	17.0	98.1	3.0	56.5
ZIMMERMAN 1790W	118.3	15.8	100.0	3.0	57.7
DEKALB DK679Bty	117.9	15.5	100.0	5.5	59.4
AKIN A6723RR	117.8	15.4	98.9	1.1	57.1
CALLAHAN C7655	117.7	14.8	100.0	2.2	58.0
HYTEST HT7820	117.3	15.9	99.4	2.7	57.4
CAVERNDALE CF835	117.0	14.0	99.6	3.8	56.5
CAVERNDALE CF890	116.8	12.6	99.7	2.3	58.0
AKIN A3809	116.5	14.8	100.0	5.7	54.8
ZIMMERMAN Z64W	115.1	18.0	98.1	4.1	58.1
COLBERT 254	114.9	14.0	98.8	4.5	61.0
GOLDEN HARVEST H-9345	114.4	13.8	99.6	3.6	61.4
AKIN A6590	113.0	14.3	98.8	4.6	56.8
GOLDEN HARVEST H-9229	112.6	13.2	99.6	4.6	60.3
ZIMMERMAN Z62W	112.4	14.5	99.3	1.8	58.9
ZIMMERMAN Z75W	112.1	14.4	99.7	1.7	58.5
DEKALB DK650	112.1	13.6	100.0	1.1	58.9
PFISTER 3321	111.7	16.1	99.4	1.2	57.6
AKIN A6530W	108.0	15.0	99.9	1.8	58.4
MEDIUM AVERAGE	122.5	15.4	99.3	3.0	58.4
LSD (0.10)	9.1	1.0	1.4	2.8	0.8

\* 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 5M. Two-year Summary, 1998-1999, Medium Hybrids (113-117 Days To Maturity), All Locations.**

BRAND/HYBRID	YIELD BU/AC 98-99	% MOIST 98-99	% STAND 98-99	TOT % LODGED 98-99	TESTWT LBS/BU 98-99
PIONEER BRAND 32K61	153.9*	16.1	99.9	1.9	62.6
SO. STATES SS828	153.2*	14.9	98.8	1.5	56.4
TERRA SEED TR1157	151.5*	15.8	99.6	1.9	56.5
PFISTER 3977	150.0*	15.5	99.7	2.4	58.2
SO. STATES SS769Bt	150.0*	15.5	98.9	4.0	59.7
PIONEER BRAND 33A14(Bt)	148.9*	13.9	99.5	1.2	60.0
LG SEEDS LG2726	148.9*	15.9	99.0	4.2	60.2
CALLAHAN C7762	148.8*	14.2	99.1	2.7	57.7
PIONEER BRAND 3335	148.8*	14.1	99.9	3.8	60.4
GATEWAY 1157	148.5*	16.4	98.9	4.2	60.3
FR27 X M017	148.0*	15.1	99.9	1.0	57.4
BECK'S 8280	147.9*	15.9	100.0	3.4	60.4
ZIMMERMAN 1851W	147.5*	17.7	99.4	2.8	58.7
CAMPBELL 7650	146.6	16.1	99.4	2.6	57.5
GOLDEN HARVEST H-2636	146.0	15.0	99.1	3.4	58.9
ZIMMERMAN Z37	145.3	17.3	99.3	3.4	60.6
TERRA SEED TR1167	145.2	16.5	99.5	1.8	59.0
EXSEGEN ES617	144.9	16.8	99.6	1.4	59.9
CAVERNDALE CF940	144.3	14.7	99.2	3.0	58.5
ZIMMERMAN Z39	144.0	15.6	99.4	2.5	57.6
CAVERNDALE CF835	143.4	13.9	99.6	3.1	57.9
NK BRAND N79-L3	143.1	15.7	100.0	2.8	62.7
AKIN A6590	142.9	14.2	99.1	3.9	58.1
CAVERNDALE CF885	139.3	14.6	99.4	1.4	59.8
ZIMMERMAN 1780W	138.2	16.5	99.1	2.5	58.3
ZIMMERMAN Z64W	137.0	17.2	98.8	3.0	58.4
ZIMMERMAN 1790W	135.1	15.6	99.9	2.9	58.8
AKIN A6530W	132.3	15.2	99.7	1.7	60.1
ZIMMERMAN Z62W	130.6	15.0	99.4	1.8	59.5
ZIMMERMAN Z75W	130.1	14.5	99.8	1.4	58.8
MEDIUM AVERAGE	144.5	15.5	99.4	2.6	59.1
LSD (0.10)	6.5	0.6	1.0	1.6	0.8

**Table 5M. Three-year Summary, 1997-1999, Medium Hybrids (113-117 Days To Maturity), All Locations.**

BRAND/HYBRID	YIELD BU/AC 97-99	% MOIST 97-99	% STAND 97-99	TOT % LODGED 97-99
SO. STATES SS828	158.6*	17.0	98.9	1.4
PIONEER BRAND 3335	154.7*	15.6	99.9	2.9
PIONEER BRAND 32K61	154.6*	17.4	99.9	1.7
PIONEER BRAND 33A14(Bt)	153.8*	15.4	99.7	1.3
PFISTER 3977	153.2*	17.4	99.9	2.1
LG SEEDS LG2726	150.6	18.0	99.2	3.4
TERRA SEED TR1157	149.6	17.7	99.4	1.6
EXSEGEN ES617	149.3	18.4	99.7	1.2
CAVERNDALE CF940	148.7	16.6	99.5	2.5
ZIMMERMAN Z37	147.7	19.2	99.5	2.7
FR27 X M017	147.5	17.1	97.5	0.9
CALLAHAN C7762	147.1	15.9	98.7	2.0
BECK'S 8280	146.8	17.9	100.0	2.5
GOLDEN HARVEST H-2636	146.4	17.1	99.3	2.9
ZIMMERMAN Z39	145.7	17.2	99.6	2.2
CAVERNDALE CF835	145.1	15.6	99.4	2.4
AKIN A6590	145.0	15.7	99.4	2.9
TERRA SEED TR1167	142.6	18.5	99.6	1.6
ZIMMERMAN 1780W	142.1	18.5	99.2	2.2
ZIMMERMAN Z64W	138.9	19.2	98.7	2.4
ZIMMERMAN 1790W	138.8	17.5	99.4	2.1
ZIMMERMAN Z62W	135.0	17.1	98.6	1.5
MEDIUM AVERAGE	147.4	17.3	99.3	2.1
LSD (0.10)	5.5	0.5	1.1	1.1

\* 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 6L. Annual Summary, 1999, Late Hybrids (118 Days To Maturity Or Later), All Locations.**

BRAND/HYBRID	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
PIONEER BRAND 31B13(Bt)	144.6*	15.3	99.8	1.0	60.3
GARST 8222IT	136.3*	17.1	100.0	1.9	60.2
SO. STATES SS859CL	130.6	15.3	99.4	2.2	56.2
MYCOGEN 2888IMI	127.4	15.2	99.5	1.9	59.3
CALLAHAN C7975Bt	127.0	15.2	99.3	3.9	58.8
DEKALB DK697	126.9	15.4	99.1	2.1	59.4
PIONEER BRAND 31A12	125.2	15.1	99.4	1.5	59.6
NK BRAND N83-N5	124.2	15.7	100.0	3.0	59.2
SO. STATES SS943	124.0	15.8	99.6	0.9	56.2
CROW'S 691	123.6	16.2	99.6	2.3	59.7
GARST 8220	123.5	16.1	98.6	0.6	56.9
AKIN A6725	122.7	15.2	100.0	4.5	59.3
ASGROW RX901W	121.2	17.4	99.6	1.7	60.7
TERRA SEED TR1185	118.3	16.6	97.7	3.4	57.3
GREAT LAKES 6968	117.8	17.1	99.7	1.7	59.2
CAMPBELL 8000	113.2	15.5	98.7	3.5	57.4
B73 X PA91	112.7	17.7	99.4	4.3	57.4
LATE AVERAGE	124.6	16.0	99.4	2.4	58.6
LSD (0.10)	8.6	0.7	1.3	2.2	0.8

**Table 6L. Two-year Summary, 1998-1999, Late Hybrids (118 Days To Maturity Or Later), All Locations.**

BRAND/HYBRID	YIELD BU/AC 98-99	% MOIST 98-99	% STAND 98-99	TOT % LODGED 98-99	TEST WT LBS/BU 98-99
PIONEER BRAND 31B13(Bt)	165.0*	15.3	99.7	3.5	60.7
GARST 8222IT	150.3	16.8	99.0	1.7	61.4
AKIN A6725	148.5	15.3	100.0	3.6	60.3
MYCOGEN 2888IMI	147.3	15.3	99.4	2.3	60.3
PIONEER BRAND 31A12	146.6	15.1	99.0	2.6	60.1
NK BRAND N83-N5	145.2	15.5	98.9	3.3	59.8
GARST 8220	142.6	16.2	97.8	1.2	56.9
GREAT LAKES 6968	142.3	16.5	99.9	2.8	60.2
CROW'S 691	142.1	15.9	98.2	2.5	60.4
SO. STATES SS943	141.5	16.0	99.6	1.6	57.1
CAMPBELL 8000	135.8	15.2	99.2	3.1	58.9
TERRA SEED TR1185	133.3	16.3	98.4	3.8	58.2
B73 X PA91	130.1	16.8	98.8	4.2	58.3
LATE AVERAGE	143.9	15.9	99.1	2.8	59.4
LSD (0.10)	6.1	0.4	1.7	1.2	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 6L. Three-year Summary, 1997-1999, Late Hybrids (118 Days To Maturity Or Later), All Locations.**

BRAND/HYBRID	YIELD BU/AC 97-99	% MOIST 97-99	% STAND 97-99	TOT % LODGED 97-99
AKIN A6725	148.8*	17.7	99.8	2.9
SO. STATES SS943	148.0*	18.5	99.7	1.4
GARST 8220	148.0*	18.6	98.3	1.2
MYCOGEN 2888IMI	147.5*	17.9	99.6	1.7
B73 X PA91	129.2	18.9	97.4	3.2
LATE AVERAGE	144.3	18.3	98.9	2.1
LSD (0.10)	5.3	0.4	1.4	0.8

\* 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 7E. Annual Summary, 1999, Early Hybrids, Chemical Composition, All Locations.**

BRAND/HYBRID	PROTEIN	OIL	STARCH	BRAND/HYBRID	PROTEIN	OIL	STARCH
	.....% dry wt.....				.....% dry wt.....		
AKIN A6432	10.0	4.3	70.6	MYCOGEN 2717Bt	10.0	4.1	70.9
ASGROW RX730YG	9.7	4.3	71.2	MYCOGEN 2725	9.6	4.4	71.2
ASGROW RX739	9.6	4.4	71.1	NK BRAND N58-D1	9.6	4.1	71.4
ASGROW RX740	9.7	4.8	70.7	NK BRAND N63-G7	10.1	4.2	70.7
ASGROW RX770YG	10.0	3.9	71.2	PIONEER BRAND 33G26	9.9	4.3	70.6
ASGROW RX799Bt	9.8	4.2	71.4	PIONEER BRAND 33J24	9.4	3.7	72.1
BECK'S 5727	9.6	4.8	70.9	PIONEER BRAND 33Y18	9.5	4.0	72.2
BECK'S 5912W	10.3	4.1	70.8	PIONEER BRAND 34B23	10.2	4.2	71.0
BECK'S 6205	9.5	4.2	71.5	PIONEER BRAND 34W67	9.5	4.0	71.7
CALLAHAN C7557	9.9	4.2	70.9	SO. STATES SS710	10.4	4.1	70.6
CALLAHAN C7625RR	9.7	4.3	71.2	TERRA SEED TR1089IT	9.7	4.4	71.0
CALLAHAN C7860	9.6	4.6	71.1	TERRA SEED TR1097	9.5	4.3	71.6
CAMPBELL 7099	9.6	4.2	71.5	TERRA SEED TR1106	9.4	4.2	71.5
CAMPBELL 7250	9.4	4.3	71.4	TERRA SEED TR1128	9.8	4.6	70.7
COLBERT FARMS 240	9.9	4.2	70.6	TERRA SEED TR1129RR	9.8	4.3	70.9
CROW'S 496	9.7	4.1	71.1	ZIMMERMAN N71-T7	10.4	4.2	70.6
DEKALB DK595Bty	9.7	4.1	71.2	ZIMMERMAN NX7208	10.5	4.3	70.4
DEKALB DK611	9.6	4.5	71.2	ZIMMERMAN Z42	9.9	4.2	71.3
DEKALB DK626Bty	10.0	4.1	71.5				
DYNA-GRO 5505RR	9.3	4.3	71.5	EARLY AVERAGE	9.8	4.3	71.1
FR1064 X FR450	9.8	4.7	70.6				
GARST 8464	9.5	4.3	71.4				
GATEWAY 2118	9.8	4.2	71.1	EARLY AVERAGE BY LOCATION			
GOLDEN HARVEST H-2552	9.8	4.1	70.7	PRINCETON	9.2	4.4	71.8
GOLDEN HARVEST H-9285Bt	9.7	4.6	70.9	ROBARDS	8.7	4.5	72.5
HYTEST HT7712	10.3	4.3	70.5	FRANKLIN	9.9	4.2	70.8
HYTEST HT7736	10.0	4.0	71.0	MAYFIELD	10.2	4.0	70.5
LG SEEDS LG2587	9.4	4.2	71.5	LEXINGTON	11.1	4.3	69.5
LG SEEDS LG2604IT	10.2	4.6	70.3	QUICKSAND	9.2	4.4	72.0
				GLENDALE	10.2	4.1	70.6

**Table 7L. Annual Summary, 1999, Late Hybrids Chemical Composition, All Locations.**

BRAND/HYBRID	PROTEIN	OIL	STARCH	BRAND/HYBRID	PROTEIN	OIL	STARCH
	.....% dry wt.....				.....% dry wt.....		
AKIN A6725	9.6	4.8	70.6	SO. STATES SS859CL	9.2	4.7	71.1
ASGROW RX901W	9.9	4.6	70.8	SO. STATES SS943	9.9	3.9	71.3
B73 X PA91	9.9	4.5	70.6	TERRA SEED TR1185	9.3	4.4	71.4
CALLAHAN C7975Bt	9.7	4.4	70.9				
CAMPBELL 8000	9.3	4.7	71.2	LATE AVERAGE	9.7	4.5	71.0
CROW'S 691	9.7	4.9	70.6				
DEKALB DK697	10.1	4.3	70.6				
GARST 8220	10.1	4.0	70.8	LATE AVERAGE BY LOCATION			
GARST 8222IT	10.0	4.1	71.3	PRINCETON	9.2	4.7	71.3
GREAT LAKES 6968	9.8	4.8	70.4	ROBARDS	8.3	4.7	71.8
MYCOGEN 2888IMI	9.6	4.8	70.7	FRANKLIN	9.9	4.4	70.5
NK BRAND N83-N5	9.7	4.9	70.6	MAYFIELD	10.7	4.1	69.9
PIONEER BRAND 31A12	9.6	3.9	71.7	LEXINGTON	10.2	4.5	70.4
PIONEER BRAND 31B13(Bt)	9.1	4.4	72.1	QUICKSAND	9.1	4.7	72.1
				GLENDALE	9.9	4.4	70.1

**Table 7M. Annual Summary, 1999, Medium Hybrids Chemical Composition, All Locations.**

BRAND/HYBRID	PROTEIN	OIL	STARCH
	.....% dry wt.....		
ADLER SEED 5250	9.7	4.6	70.9
AKIN A3809	9.8	4.4	70.9
AKIN A6530W	10.4	4.5	69.9
AKIN A6569Bt	9.8	4.4	70.8
AKIN A6590	9.4	4.2	71.5
AKIN A6609Bt	9.8	4.5	71.0
AKIN A6723RR	10.0	4.2	70.6
BECK'S 8280	9.7	4.5	70.8
CALLAHAN C7640Bt	9.9	4.6	70.6
CALLAHAN C7655	9.7	4.8	70.6
CALLAHAN C7762	9.4	4.3	71.5
CAMPBELL 7650	9.4	4.3	71.8
CAVERNDALE CF828Bt	9.8	4.1	70.9
CAVERNDALE CF832-IMI	9.9	4.4	70.7
CAVERNDALE CF835	9.6	4.3	71.3
CAVERNDALE CF885	9.8	4.5	70.8
CAVERNDALE CF890	9.7	4.5	70.9
CAVERNDALE CF940	9.8	4.2	71.4
COLBERT 254	9.9	4.8	70.5
COLBERT 258	10.0	4.6	70.2
CROW'S 687Bt	9.9	4.4	71.0
DEKALB DK650	10.1	4.3	70.6
DEKALB DK679Bty	9.6	4.7	70.7
EXSEGEN ES519	9.4	4.6	71.2
EXSEGEN ES617	10.1	4.1	71.1
FR27 X M017	9.8	4.3	71.0
GATEWAY 1157	9.9	4.7	70.5
GOLDEN HARVEST H-2636	10.1	4.4	70.8
GOLDEN HARVEST H-9229	10.0	5.0	70.1
GOLDEN HARVEST H-9345	9.7	4.8	70.8
GOLDEN HARVEST H-9405	9.8	4.6	70.7
GOLDEN HARVEST H-9481Bt	9.9	4.3	71.0
HYTEST HT7820	9.6	4.6	70.7
HYTEST HT7844	9.4	4.4	71.4
LG SEEDS LG2648Bt	9.6	4.3	71.4
LG SEEDS LG2726	9.7	4.8	70.7
MYCOGEN 2799Bt	9.9	4.4	71.2
NK BRAND N71-T7	9.9	4.4	70.7
NK BRAND N79-L3	9.6	4.3	71.4
PFISTER 3321	10.1	4.5	70.6
PFISTER 3977	9.6	4.6	71.1
PIONEER BRAND 32K61	9.9	4.1	71.2
PIONEER BRAND 32Y52	10.0	4.0	71.1
PIONEER BRAND 3335	10.2	3.7	71.4
PIONEER BRAND 33A14(Bt)	9.3	3.7	72.6
PIONEER BRAND 33G27(Bt)	9.8	4.6	70.7
PIONEER BRAND 33J56	9.6	3.8	72.1
PIONEER BRAND 33K62(Bt)	10.0	4.2	71.1
SO. STATES SS729CL	9.6	4.4	71.1
SO. STATES SS747CL	9.9	4.1	71.3
SO. STATES SS769Bt	9.8	4.3	71.0
SO. STATES SS828	9.7	4.5	70.8
SO. STATES SS849CL	10.1	4.0	71.1
TERRA SEED TR1147RR	10.0	4.3	70.6
TERRA SEED TR1157	9.3	4.3	72.0
TERRA SEED TR1167	9.5	4.3	71.8
ZIMMERMAN 1780W	10.0	4.4	70.7
ZIMMERMAN 1790W	10.2	4.5	70.6
ZIMMERMAN 1851W	10.5	4.3	70.4
ZIMMERMAN Z37	9.8	4.8	70.7
ZIMMERMAN Z39	9.4	4.1	72.1
ZIMMERMAN Z62W	10.1	4.5	70.9
ZIMMERMAN Z64W	10.0	4.4	71.0
ZIMMERMAN Z75W	9.8	4.5	70.8
MEDIUM AVERAGE	9.8	4.4	70.8
MEDIUM AVERAGE BY LOCATION			
PRINCETON	9.2	4.5	71.7
ROBARDS	8.8	4.6	71.8
FRANKLIN	9.8	4.3	71.0
MAYFIELD	10.6	4.0	70.0
LEXINGTON	11.0	4.3	69.9
QUICKSAND	8.8	4.6	72.1
GLENDALE	10.3	4.3	70.3

**Table 8E. Annual Summary, 1999, Early Hybrids (112 Days To Maturity Or Earlier), Mayfield, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
MYCOGEN 2717Bt			138.5*	10.1	96.0	0.0	55.3
PIONEER BRAND 33Y18	156.1*	159.7*	137.2*	11.1	98.0	0.5	54.9
ASGROW RX739			129.2*	9.2	100.0	0.0	56.4
TERRA SEED TR1097			127.0*	10.9	100.0	0.0	52.3
TERRA SEED TR1089IT			124.3*	10.0	100.0	1.0	52.0
DEKALB DK626Bty			122.6*	9.2	100.0	0.0	55.7
BECK'S 6205	139.0	148.3*	122.5*	10.4	100.0	0.0	53.8
PIONEER BRAND 34B23			122.1*	11.2	100.0	1.0	53.9
GARST 8464		151.6*	120.9*	11.0	100.0	0.0	51.3
ASGROW RX799Bt			119.2*	12.9	100.0	0.0	58.2
PIONEER BRAND 33G26		164.1*	118.9*	11.1	100.0	0.0	55.8
NK BRAND N58-D1			115.2	10.2	94.9	0.6	54.5
FR1064 X FR450	121.5	138.0	115.2	8.5	90.9	0.6	57.2
PIONEER BRAND 33J24			114.7	13.4	87.9	0.0	54.4
CALLAHAN C7860			113.2	11.2	99.0	0.0	55.1
BECK'S 5727			112.7	10.2	98.5	0.0	56.6
NK BRAND N63-G7		138.0	111.6	9.9	100.0	0.0	54.0
MYCOGEN 2725		143.6	110.6	9.2	100.0	0.0	53.5
GOLDEN HARVEST H-9285Bt			109.2	9.0	99.5	0.0	54.3
PIONEER BRAND 34W67			107.1	9.4	100.0	0.0	55.3
AKIN A6432			107.0	8.8	100.0	0.5	54.9
ASGROW RX770YG			106.4	10.4	100.0	0.0	53.4
ZIMMERMAN Z42		134.2	105.6	10.4	97.0	0.0	56.0
COLBERT FARMS 240		132.9	104.6	9.5	99.5	0.0	52.8
ASGROW RX730YG			104.2	10.1	100.0	0.0	58.4
GATEWAY 2118			102.7	12.3	95.5	0.0	52.6
DEKALB DK611			102.5	10.4	100.0	0.5	52.6
ZIMMERMAN N71-T7			101.7	11.1	100.0	0.0	51.7
GOLDEN HARVEST H-2552		133.6	101.5	8.2	100.0	0.0	54.0
BECK'S 5912W	144.2*	147.1	100.9	10.9	100.0	0.0	54.1
ASGROW RX740		137.2	98.8	10.8	100.0	0.0	55.2
SO. STATES SS710			97.8	10.0	96.0	0.0	53.1
CALLAHAN C7557	142.7*	143.3	93.0	9.2	95.5	0.0	55.1
LG SEEDS LG2604IT			92.4	9.7	96.5	0.0	53.1
CAMPBELL 7099			91.2	11.9	100.0	0.0	54.3
DEKALB DK595Bty			88.9	9.5	99.5	0.0	56.1
TERRA SEED TR1128			88.9	10.6	97.0	0.0	51.0
CROW'S 496	140.2	141.6	87.6	9.2	100.0	0.0	53.8
HYTEST HT7736			87.1	10.5	97.5	0.0	53.9
HYTEST HT7712		138.4	85.0	10.2	100.0	0.5	56.1
CALLAHAN C7625RR			84.7	9.8	100.0	0.0	55.8
ZIMMERMAN NX7208			83.2	11.6	98.0	0.5	54.3
CAMPBELL 7250		130.6	82.5	9.2	97.5	0.0	53.8
LG SEEDS LG2587		125.6	78.9	12.3	91.9	0.0	53.5
TERRA SEED TR1106		116.1	69.5	9.4	97.0	0.0	55.3
TERRA SEED TR1129RR			68.0	9.3	100.0	0.0	56.2
DYNA-GRO 5505RR			65.8	9.6	94.9	3.7	51.5
EARLY AVERAGE	140.6	140.2	103.6	10.3	98.2	0.2	54.4
LSD (0.10)	14.1	16.5	21.1	1.2	5.3	0.7	4.2
C.V.			15.0	9.0	3.9	263.2	5.7

**Table 8L. Annual Summary, 1999, Late Hybrids (118 Days To Maturity Or Later), Mayfield, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
PIONEER BRAND 31B13(Bt)		165.5*	106.3*	11.8	100.0	0.0	58.2
SO. STATES SS859CL			101.7*	12.0	100.0	0.0	53.5
ASGROW RX901W			100.0*	13.7	100.0	0.0	58.5
MYCOGEN 2888IMI	134.2*	136.9	93.7*	12.1	97.5	0.5	54.2
B73 X PA91	120.3	128.0	92.2*	15.5	97.0	0.0	53.5
AKIN A6725	130.6*	131.4	86.4	11.8	100.0	0.0	56.4
GARST 8222IT		133.3	84.7	14.7	100.0	0.5	57.5
PIONEER BRAND 31A12		140.4	84.3	12.1	97.5	0.0	57.8
CALLAHAN C7975Bt			80.1	12.2	100.0	0.0	55.6
TERRA SEED TR1185		120.7	80.1	14.2	98.0	1.0	55.5
CROW'S 691		126.2	80.0	11.9	100.0	0.0	57.8
NK BRAND N83-N5		127.6	76.8	12.2	100.0	0.5	56.0
CAMPBELL 8000		125.2	75.3	11.5	100.0	0.5	55.2
GARST 8220	129.9*	130.8	74.0	13.8	98.5	0.0	53.4
SO. STATES SS943	140.8*	127.6	70.5	12.7	100.0	0.5	52.9
DEKALB DK697			65.3	12.6	98.0	0.5	57.1
GREAT LAKES 6968		119.5	47.9	14.1	100.0	1.0	53.9
LATE AVERAGE	131.2	131.8	82.3	12.9	99.2	0.3	55.7
LSD (0.10)	12.1	12.5	17.8	1.7	3.3	0.8	2.6
C.V.			15.6	9.4	2.4	201.5	3.3



**Table 8M. Annual Summary, 1999, Medium Hybrids (113-117 Days To Maturity), Mayfield, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
AKIN A6609Bt			130.3*	11.9	100.0	1.0	56.0
SO. STATES SS769Bt		155.2*	126.7*	13.9	100.0	0.5	56.4
MYCOGEN 2799Bt			124.1*	11.5	97.0	0.5	57.6
CAVERNDALE CF832-IMI			113.7*	11.3	98.0	0.5	54.9
CAVERNDALE CF828Bt			112.4*	11.8	94.4	0.6	56.3
ZIMMERMAN 1851W		145.2*	108.7	14.2	100.0	0.0	54.8
TERRA SEED TR1147RR			106.9	10.0	100.0	2.0	54.1
FR27 X M017	131.5	130.2	106.8	12.6	98.0	0.5	52.7
LG SEEDS LG2648Bt			103.4	13.0	100.0	0.0	54.5
LG SEEDS LG2726	131.8	138.5	103.4	13.6	91.4	1.4	57.8
PFISTER 3977	133.5	134.3	102.4	12.4	100.0	0.0	56.4
NK BRAND N71-T7			101.3	12.1	100.0	0.0	56.5
PIONEER BRAND 33G27(Bt)			101.0	13.8	96.5	0.0	61.7
CALLAHAN C7640Bt			99.8	10.4	100.0	1.0	55.9
CALLAHAN C7762	131.4	133.1	99.7	10.0	100.0	0.0	54.6
SO. STATES SS828	132.8	137.2	99.3	12.2	100.0	0.0	52.6
AKIN A6569Bt			98.5	11.3	100.0	0.0	56.7
SO. STATES SS747CL			97.6	12.8	98.5	2.6	58.3
PIONEER BRAND 3335	148.9*	149.0*	96.3	12.5	100.0	1.5	58.0
PIONEER BRAND 32Y52			96.2	10.4	100.0	1.5	58.5
PIONEER BRAND 33J56			96.0	12.7	98.0	0.5	59.0
PIONEER BRAND 32K61	148.1*	145.2*	95.9	15.4	100.0	0.0	62.6
PIONEER BRAND 33A14(Bt)	143.0*	138.1	95.9	12.1	92.4	1.7	57.8
EXSEGEN E5617	123.9	127.1	95.1	11.9	100.0	1.0	55.8
COLBERT 254			94.5	11.6	91.9	2.3	58.6
TERRA SEED TR1167	131.2	131.3	92.3	15.1	100.0	0.0	56.0
ZIMMERMAN Z64W	113.8	120.4	92.3	13.9	90.9	3.4	55.8
SO. STATES SS849CL			86.0	14.2	96.0	0.5	54.3
ZIMMERMAN Z37	141.1*	140.1	84.0	14.2	97.0	0.0	60.5
AKIN A6530W		124.5	84.0	11.9	100.0	0.0	56.1
GOLDEN HARVEST H-9229			83.7	11.7	100.0	2.0	59.0
ZIMMERMAN Z75W		131.5	83.6	11.6	98.0	0.0	57.1
ZIMMERMAN Z39	129.5	128.5	83.0	14.1	100.0	1.0	52.2
CROW'S 687Bt			83.0	12.2	100.0	1.0	57.9
CAVERNDALE CF890			82.8	10.4	100.0	2.5	54.7
TERRA SEED TR1157	125.3	131.4	80.8	12.9	93.9	0.0	55.1
PIONEER BRAND 33K62(Bt)			80.7	17.9	97.5	0.5	60.2
GOLDEN HARVEST H-2636	129.4	135.2	80.5	13.3	100.0	1.5	54.7
NK BRAND N79-L3		130.7	80.2	13.6	100.0	1.0	62.5
SO. STATES SS729CL			80.1	10.4	100.0	0.0	55.4
GOLDEN HARVEST H-9405			79.5	11.8	96.0	1.1	56.3
PFISTER 3321			79.3	11.7	100.0	0.5	56.0
ZIMMERMAN 1790W	116.9	117.0	77.6	12.8	100.0	0.5	56.2
AKIN A6590	119.9	128.9	76.9	10.7	93.4	1.5	53.3
ZIMMERMAN 1780W	126.6	115.6	76.6	12.0	100.0	0.5	53.4
ZIMMERMAN Z62W	112.6	114.9	76.2	11.3	98.0	0.5	58.0
EXSEGEN E5519			74.0	14.5	86.9	1.3	53.7
BECK'S 8280	122.7	122.8	73.8	12.1	100.0	0.0	58.6
HYTEST HT7844			73.5	12.2	100.0	2.0	55.0
HYTEST HT7820			73.3	12.4	96.0	0.0	55.2
GOLDEN HARVEST H-9345			73.1	11.2	100.0	3.0	60.8
CAMPBELL 7650		115.2	72.9	14.7	100.0	0.5	55.8
AKIN A6723RR			72.6	10.6	98.0	1.5	52.2
CAVERNDALE CF885		115.6	71.5	11.0	99.0	0.0	58.0
COLBERT 258			71.2	10.8	100.0	0.0	58.2
DEKALB DK679Bty			71.1	13.2	100.0	1.0	57.3
GATEWAY 1157		124.5	70.3	13.4	88.4	1.9	57.4
GOLDEN HARVEST H-9481Bt			69.9	10.8	100.0	1.5	56.1
ADLER SEED 5250			68.0	12.8	100.0	0.0	54.3
DEKALB DK650			66.9	11.5	100.0	2.0	56.8
CALLAHAN C7655			65.1	11.9	100.0	0.5	56.1
CAVERNDALE CF835	126.2	124.3	61.0	10.1	100.0	1.0	53.8
CAVERNDALE CF940	131.1	122.3	60.1	12.4	91.9	0.6	57.0
AKIN A3809			54.2	12.4	100.0	2.5	52.0
MEDIUM AVERAGE	129.6	130.3	87.1	12.4	98.1	0.9	56.4
LSD (0.10)	13.3	14.9	18.0	1.9	6.7	1.8	2.7
C.V.			15.2	11.4	5.1	153.0	3.6

\* 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 9E. Annual Summary, 1999, Early Hybrids (112 Days To Maturity Or Earlier), Princeton, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
DEKALB DK626Bty			177.4*	11.5	100.0	2.0	60.8
MYCOGEN 2717Bt			176.2*	11.8	100.0	0.5	59.9
SO. STATES SS710			175.1*	11.5	100.0	1.5	62.8
ASGROW RX799Bt			169.3*	15.0	100.0	0.0	61.3
BECK'S 6205	162.1*	164.5*	167.4*	12.9	100.0	3.5	59.0
DEKALB DK611			166.7*	12.3	100.0	1.5	61.6
GOLDEN HARVEST H-9285Bt			166.6*	10.5	100.0	1.0	57.7
GOLDEN HARVEST H-2552		157.9*	165.6*	10.6	100.0	1.0	58.5
CAMPBELL 7099			165.1*	12.3	100.0	2.0	61.0
DEKALB DK595Bty			164.9*	11.8	99.0	2.5	60.1
PIONEER BRAND 33Y18	169.0*	168.2*	163.4*	11.6	100.0	2.5	63.7
ASGROW RX730YG			161.3*	11.6	100.0	2.0	60.6
NK BRAND N58-D1			161.3*	11.8	100.0	1.5	62.3
BECK'S 5912W	164.4*	162.3*	160.7*	14.3	100.0	1.5	63.4
ASGROW RX740		155.2*	160.6*	12.5	100.0	2.5	64.1
DYNA-GRO 5505RR			157.6*	11.3	100.0	2.5	60.8
CALLAHAN C7625RR			156.0*	12.2	100.0	4.0	61.1
GARST 8464		152.5	155.8*	12.6	100.0	0.5	60.5
ASGROW RX739			155.6*	13.0	100.0	1.5	59.8
ZIMMERMAN Z42		155.9*	155.5*	13.8	100.0	2.0	62.3
ZIMMERMAN N71-T7			154.0*	14.9	98.0	0.5	62.0
MYCOGEN 2725		160.0*	153.7*	12.4	100.0	4.0	60.5
ASGROW RX770YG			153.7*	11.7	100.0	3.0	60.2
NK BRAND N63-G7		149.3	153.7*	11.7	100.0	1.5	61.1
PIONEER BRAND 34W67			153.0	12.4	100.0	3.5	63.2
PIONEER BRAND 33G26		162.6*	151.8	13.1	100.0	3.0	61.8
PIONEER BRAND 33J24			151.0	14.4	100.0	4.5	64.2
HYTEST HT7712		154.7*	150.7	13.4	100.0	3.5	63.0
BECK'S 5727			150.4	12.3	100.0	2.0	63.7
TERRA SEED TR1097			150.3	11.5	100.0	1.0	60.3
CAMPBELL 7250		153.8*	149.7	13.3	100.0	2.0	59.5
CALLAHAN C7860			147.8	12.1	100.0	4.0	63.2
TERRA SEED TR1129RR			147.4	11.6	100.0	5.1	60.0
FR1064 X FR450	135.4	138.8	147.3	12.0	100.0	1.0	61.2
LG SEEDS LG2604IT			146.9	12.5	97.5	3.5	60.9
TERRA SEED TR1089IT			145.2	10.7	100.0	1.5	59.6
PIONEER BRAND 34B23			144.8	13.0	100.0	1.5	63.0
TERRA SEED TR1128			143.0	12.4	97.5	8.5	64.2
AKIN A6432			142.4	11.3	100.0	3.5	60.3
CROW'S 496	156.5*	153.1	141.9	12.9	100.0	7.1	59.7
CALLAHAN C7557	150.3	156.7*	141.5	13.4	100.0	7.6	60.7
TERRA SEED TR1106		154.7*	141.1	11.5	93.9	2.8	58.5
COLBERT FARMS 240		145.0	138.7	11.5	100.0	4.5	58.4
GATEWAY 2118			138.7	12.0	100.0	3.0	63.5
HYTEST HT7736			138.5	13.2	100.0	4.5	61.5
LG SEEDS LG2587		147.7	135.1	12.5	96.5	3.7	63.8
ZIMMERMAN NX7208			117.9	15.0	100.0	3.5	62.7
EARLY AVERAGE	156.3	155.2	153.8	12.4	99.6	2.7	61.2
LSD (0.10)	12.7	14.5	23.7	1.0	2.3	3.4	1.6
C.V.			11.4	6.2	1.7	91.5	1.9

**Table 9L. Annual Summary, 1999, Late Hybrids (118 Days To Maturity Or Later), Princeton, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
PIONEER BRAND 31B13(Bt)		183.5*	172.8*	14.4	100.0	0.5	60.8
SO. STATES SS859CL			163.8*	14.4	100.0	1.5	58.6
MYCOGEN 2888IMI	151.2*	158.7	158.4*	13.8	100.0	0.5	61.5
PIONEER BRAND 31A12		158.7	157.8*	14.0	100.0	2.5	61.7
AKIN A6725	161.1*	167.8	157.6*	15.2	100.0	1.5	61.2
CAMPBELL 8000		153.3	155.7*	15.6	100.0	0.5	58.9
GARST 8222IT		146.3	155.1*	16.0	100.0	2.0	61.5
NK BRAND N83-N5		152.7	153.1*	15.2	100.0	2.0	60.9
CALLAHAN C7975Bt			150.2	15.1	100.0	1.0	60.0
CROW'S 691		153.2	149.5	14.0	100.0	2.0	61.4
GARST 8220	153.8*	151.8	149.5	14.6	100.0	0.5	60.2
GREAT LAKES 6968		153.2	147.2	14.8	100.0	1.0	61.6
SO. STATES SS943	145.6	140.8	143.7	14.5	100.0	0.5	57.8
TERRA SEED TR1185		139.5	143.1	14.9	95.5	1.0	60.3
DEKALB DK697			131.6	13.6	99.0	1.0	61.6
ASGROW RX901W			126.6	16.4	97.5	2.5	63.0
B73 X PA91	132.3	132.2	120.5	15.5	100.0	2.5	59.5
LATE AVERAGE	148.8	153.2	149.2	14.8	99.5	1.4	60.6
LSD (0.10)	12.3	13.7	21.1	1.3	3.1	2.1	2.2
C.V.			10.2	6.5	2.2	111.6	2.6

**Table 9M. Annual Summary, 1999, Medium Hybrids (113-117 Days To Maturity), Princeton, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
SO. STATES SS828	170.5*	164.0	171.3*	14.1	100.0	2.0	57.4
AKIN A3809			170.8*	11.2	100.0	3.5	55.1
CAVERNDALE CF828Bt			169.0*	12.8	100.0	0.5	58.9
PIONEER BRAND 33K62(Bt)			167.9*	14.3	100.0	0.0	60.3
PIONEER BRAND 33A14(Bt)	170.3*	181.7*	167.7*	12.5	100.0	1.5	58.1
PFISTER 3977	163.7*	166.5	166.5*	13.7	96.5	1.5	57.4
PIONEER BRAND 32K61	163.0*	159.7	165.3*	13.6	100.0	0.0	60.0
TERRA SEED TR1157	165.4*	167.3*	163.3*	14.8	100.0	2.0	58.0
NK BRAND N79-L3		166.0	162.7*	14.5	100.0	0.0	61.4
FR27 X M017	151.3	157.3	162.7*	14.3	100.0	1.0	60.1
HYTEST HT7844			160.3*	13.7	100.0	1.0	58.0
GOLDEN HARVEST H-9481Bt			160.2*	13.0	98.5	0.5	58.8
LG SEEDS LG2648Bt			159.8*	15.3	100.0	0.0	58.7
EXSEGEN ES519			159.7*	13.3	100.0	0.0	58.2
LG SEEDS LG2726	161.0*	166.6	159.6*	14.5	100.0	0.5	58.8
ZIMMERMAN Z37	161.0*	167.2*	158.6*	14.5	100.0	0.0	59.5
DEKALB DK6798Bty			158.3*	14.1	100.0	0.5	60.3
SO. STATES SS747CL			158.0*	13.5	100.0	0.5	59.1
AKIN A6723RR			157.6*	14.5	100.0	1.5	61.0
CAMPBELL 7650		160.5	156.8*	12.8	100.0	0.0	56.8
ZIMMERMAN Z39	158.0*	161.5	156.2*	14.9	100.0	1.0	58.3
CROW'S 687Bt			155.8*	14.5	100.0	0.5	59.3
CALLAHAN C7655			155.5*	12.5	100.0	0.5	58.1
GOLDEN HARVEST H-9405			154.8*	12.1	97.5	0.0	57.8
ADLER SEED 5250			154.6*	13.8	100.0	0.0	59.8
SO. STATES SS729CL			154.1*	13.6	100.0	1.5	60.6
SO. STATES SS849CL			153.1*	14.0	100.0	2.5	57.7
HYTEST HT7820			153.0*	13.3	100.0	0.0	58.5
GOLDEN HARVEST H-2636	162.7*	149.7	152.5*	13.3	100.0	0.5	58.5
GATEWAY 1157		161.2	152.1*	15.3	100.0	0.5	59.6
PIONEER BRAND 3335	158.6*	154.7	151.6*	14.0	100.0	1.0	60.4
GOLDEN HARVEST H-9345			151.4*	13.2	100.0	2.0	61.4
ZIMMERMAN Z75W		141.3	150.1*	13.2	100.0	1.5	59.2
CAVERNDALE CF940	156.8	151.1	149.1*	13.5	100.0	2.5	57.2
TERRA SEED TR1167	148.8	154.6	149.1*	14.1	100.0	1.0	60.1
SO. STATES SS769Bt		155.0	148.7*	13.9	100.0	0.0	59.1
CALLAHAN C7640Bt			148.3*	12.0	100.0	2.0	57.4
MYCOGEN 2799Bt			148.2*	13.9	97.5	0.5	58.0
ZIMMERMAN Z64W	145.4	150.8	147.7*	14.8	100.0	2.5	58.5
CALLAHAN C7762	142.7	145.8	147.7*	13.5	100.0	2.5	58.2
COLBERT 258			147.2*	12.8	100.0	0.5	61.0
PIONEER BRAND 33J56			147.1*	13.7	100.0	2.0	61.0
BECK'S 8280	153.8	163.0	147.0*	13.8	100.0	0.0	58.0
NK BRAND N71-T7			146.5	14.7	100.0	0.5	60.5
PIONEER BRAND 32Y52			144.8	13.4	98.5	1.6	59.4
ZIMMERMAN 1851W		159.6	144.7	16.0	100.0	1.5	57.7
ZIMMERMAN 1790W	139.3	138.3	141.9	13.4	100.0	4.0	58.4
ZIMMERMAN 1780W	157.7*	148.8	141.3	15.3	100.0	2.0	57.1
CAVERNDALE CF835	146.8	144.7	141.3	12.3	100.0	2.5	57.2
CAVERNDALE CF890			141.0	12.9	100.0	1.5	58.7
EXSEGEN ES617	151.1	141.9	140.0	14.1	100.0	3.0	59.1
AKIN A6590	144.6	141.2	139.7	14.7	98.0	1.6	58.0
GOLDEN HARVEST H-9229			137.5	12.8	100.0	1.5	59.7
AKIN A6569Bt			137.5	12.7	100.0	0.0	58.4
PIONEER BRAND 33G27(Bt)			136.2	13.8	100.0	0.0	59.4
COLBERT 254			135.4	13.0	100.0	3.0	62.5
CAVERNDALE CF832-IMI			135.1	14.3	100.0	0.0	60.1
AKIN A6609Bt			134.1	13.0	100.0	0.0	59.3
CAVERNDALE CF885		135.5	131.3	14.1	100.0	1.5	59.5
TERRA SEED TR1147RR			131.0	12.1	100.0	1.0	58.1
ZIMMERMAN Z62W	142.5	143.5	130.7	12.6	100.0	2.5	59.7
AKIN A6530W		139.1	128.4	13.6	100.0	0.0	59.8
PFISTER 3321			126.6	14.3	100.0	0.0	58.5
DEKALB DK650			124.4	11.7	100.0	1.0	58.5
MEDIUM AVERAGE	155.2	154.6	150.0	13.6	99.8	1.1	58.9
LSD (0.10)	12.8	14.8	24.3	1.5	1.7	2.5	2.1
C.V.			11.9	8.3	1.2	170.7	2.7

\* 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 10E. Annual Summary, 1999, Early Hybrids (112 Days To Maturity Or Earlier), Robards, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
NK BRAND N63-G7		196.3*	210.3*	12.6	100.0	1.5	60.5
ZIMMERMAN N71-T7			199.0*	16.1	100.0	0.0	60.8
ZIMMERMAN Z42		185.4*	198.8*	14.7	100.0	1.5	59.8
GOLDEN HARVEST H-9285Bt			196.3*	13.9	100.0	0.5	59.1
PIONEER BRAND 33J24			195.7*	15.3	100.0	6.1	64.7
ASGROW RX799Bt			195.4*	16.8	100.0	0.0	61.2
BECK'S 6205	173.5*	195.0*	193.9*	15.3	100.0	3.5	58.6
DEKALB DK595Bty			191.5*	11.2	99.5	0.5	59.3
PIONEER BRAND 34W67			190.7*	14.9	100.0	4.5	63.4
SO. STATES SS710			190.2*	11.8	99.0	1.0	61.1
PIONEER BRAND 33G26		183.9*	188.2*	14.2	100.0	7.6	62.2
NK BRAND N58-D1			187.3*	12.5	100.0	1.0	61.3
GOLDEN HARVEST H-2552		187.7*	185.6	12.9	98.5	5.1	58.9
DEKALB DK626Bty			185.5	12.9	100.0	2.0	60.8
DEKALB DK611			179.0	12.9	100.0	1.0	61.9
AKIN A6432			177.2	13.7	96.5	9.2	58.2
TERRA SEED TR1097			175.1	15.0	100.0	6.1	59.3
BECK'S 5912W	154.7	166.3	174.2	16.1	100.0	3.5	62.6
ASGROW RX739			173.5	14.3	100.0	7.1	58.8
CALLAHAN C7557	156.5	175.7	171.0	14.5	98.5	11.3	58.7
PIONEER BRAND 33Y18	160.3*	173.4	169.8	13.6	100.0	10.1	61.7
CAMPBELL 7250		180.9*	168.5	15.2	100.0	5.6	58.1
CROW'S 496	152.7	167.9	167.1	15.0	99.5	6.6	58.9
HYTEST HT7736			167.0	12.9	100.0	4.0	61.3
HYTEST HT7712		173.9	166.4	15.7	100.0	7.6	62.4
GARST 8464		163.1	166.2	14.4	100.0	6.6	59.1
MYCOGEN 2717Bt			164.9	12.2	99.0	7.2	58.8
LG SEEDS LG2604IT			164.4	14.6	99.0	5.1	57.6
TERRA SEED TR1106		172.1	161.1	15.2	93.9	8.6	57.1
COLBERT FARMS 240		169.3	160.3	13.2	100.0	6.6	58.4
PIONEER BRAND 34B23			158.4	13.3	100.0	7.6	61.6
DYNA-GRO 5505RR			157.4	12.7	99.5	4.6	60.2
CAMPBELL 7099			155.8	14.8	98.0	9.3	60.0
FR1064 X FR450	137.6	150.4	153.7	14.3	99.0	9.2	60.7
ZIMMERMAN NX7208			153.4	16.3	100.0	5.6	60.7
MYCOGEN 2725		169.1	152.6	15.1	100.0	9.6	58.9
ASGROW RX770YG			151.9	13.6	88.9	3.7	59.8
LG SEEDS LG2587		158.6	151.7	13.3	99.0	9.7	61.4
CALLAHAN C7625RR			151.5	13.0	100.0	9.6	59.4
TERRA SEED TR1129RR			148.5	13.9	100.0	7.6	60.8
ASGROW RX730YG			143.8	15.5	100.0	9.6	57.8
GATEWAY 2118			143.0	13.1	94.4	10.1	63.0
TERRA SEED TR1089IT			138.3	14.3	100.0	4.0	59.0
CALLAHAN C7860			135.5	13.1	100.0	9.1	63.5
BECK'S 5727			134.0	12.9	100.0	10.1	61.8
ASGROW RX740		142.0	132.6	13.3	100.0	7.1	62.3
TERRA SEED TR1128			130.8	13.3	97.0	5.8	62.8
EARLY AVERAGE	155.9	172.8	169.1	14.0	99.1	5.8	60.4
LSD (0.10)	13.7	17.1	23.8	0.8	4.1	4.3	1.7
C.V.			10.4	4.3	3.0	55.5	2.0

**Table 10L. Annual Summary, 1999, Late Hybrids (118 Days To Maturity Or Later), Robards, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
PIONEER BRAND 31B13(Bt)		168.6*	191.2*	16.5	100.0	2.5	62.1
DEKALB DK697			189.4*	17.9	100.0	2.0	61.8
GARST 8222IT		177.6*	189.1*	16.7	100.0	3.5	62.3
SO. STATES SS943	153.1*	160.3*	179.2*	16.4	99.0	1.5	59.6
GARST 8220	157.5*	170.5*	178.8*	16.1	100.0	1.0	57.6
SO. STATES SS859CL			178.5*	15.4	100.0	6.6	58.1
CALLAHAN C7975Bt			174.5*	15.8	94.9	0.5	61.3
CROW'S 691		155.4	152.9	15.6	100.0	5.1	60.7
GREAT LAKES 6968		152.3	152.4	16.4	98.0	2.6	61.4
B73 X PA91	127.6	135.7	151.8	18.4	100.0	2.5	59.3
MYCOGEN 2888IMI	141.3*	149.0	151.1	15.2	100.0	2.5	60.5
PIONEER BRAND 31A12		155.0	150.8	15.9	99.0	3.6	61.4
ASGROW RX901W			146.6	16.7	100.0	1.5	62.1
NK BRAND N83-N5		152.0	145.9	15.5	100.0	2.5	60.8
TERRA SEED TR1185		136.1	144.3	17.1	92.9	6.6	59.0
AKIN A6725	145.6*	156.3*	140.3	15.5	100.0	2.5	61.6
CAMPBELL 8000		142.4	129.1	16.4	100.0	6.6	58.4
LATE AVERAGE	145.0	154.7	161.5	16.3	99.0	3.2	60.5
LSD (0.10)	16.5	22.0	29.9	1.1	5.2	4.4	1.6
C.V.			13.4	4.7	3.8	100.4	1.9

**Table 10M. Annual Summary, 1999, Medium Hybrids (113-117 Days To Maturity), Robards, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999	
GOLDEN HARVEST H-9405			202.3*	13.7	100.0	2.0	61.3	
LG SEEDS LG2648Bt			201.2*	15.9	97.5	0.5	60.9	
SO. STATES SS769Bt		165.5*	198.5*	15.8	100.0	0.5	62.2	
SO. STATES SS828	170.5*	176.1*	193.3*	15.5	97.5	3.1	58.5	
GOLDEN HARVEST H-9481Bt			190.3*	14.2	100.0	1.0	60.7	
AKIN A6609Bt			189.4*	16.3	100.0	0.0	60.4	
AKIN A6569Bt			185.3*	14.1	100.0	0.5	58.4	
CROW'S 687Bt			185.2*	16.0	100.0	0.0	60.7	
FR27 X M017	163.0*	170.2*	184.9*	15.4	100.0	2.0	59.3	
BECK'S 8280	144.5	165.0*	184.1*	14.9	100.0	1.0	62.1	
EXSEGEN ES617	159.5*	172.0*	183.9*	16.0	100.0	4.0	61.6	
DEKALB DK650			181.7*	14.9	100.0	1.5	62.2	
TERRA SEED TR1157	153.6*	172.5*	180.7*	16.3	100.0	3.0	59.6	
NK BRAND N79-L3		163.6*	179.4*	15.1	100.0	0.5	62.5	
HYTEST HT7820			179.0*	14.8	100.0	1.0	60.2	
SO. STATES SS849CL			178.8*	13.3	97.0	5.7	58.0	
NK BRAND N71-T7			178.7*	16.5	100.0	0.0	60.5	
ZIMMERMAN Z39	139.6	151.9	177.7*	15.8	94.4	2.1	59.4	
PIONEER BRAND 3335	137.0	140.9	177.6*	14.3	100.0	9.1	64.2	
ADLER SEED 5250			177.5*	13.1	96.5	3.6	60.0	
PIONEER BRAND 33J56			175.1*	14.6	100.0	7.1	62.5	
CAVERNDALE CF832-IMI			174.9*	14.5	100.0	3.5	60.5	
PIONEER BRAND 32K61	152.6	165.3*	174.3*	15.0	100.0	1.5	62.2	
CAVERNDALE CF940	140.5	154.1*	174.2*	14.7	96.5	4.2	59.5	
PIONEER BRAND 33A14(Bt)	141.0	146.8	170.1*	14.4	100.0	1.5	61.5	
ZIMMERMAN 1851W			151.7	170.1*	18.0	96.0	7.8	60.3
CALLAHAN C7762	163.5*	170.2*	170.0*	14.8	95.5	6.5	59.3	
CALLAHAN C7640Bt			169.6*	14.3	100.0	0.0	58.8	
PIONEER BRAND 33G27(Bt)			169.4*	14.7	99.0	0.5	62.1	
LG SEEDS LG2726	149.1	162.5*	168.2	15.0	96.5	1.5	61.1	
TERRA SEED TR1167	141.6	151.8	167.9	16.1	100.0	3.5	60.1	
GATEWAY 1157		170.0*	167.4	15.2	98.0	6.3	59.8	
EXSEGEN ES519			167.0	15.5	96.5	1.7	60.1	
CAMPBELL 7650		162.4*	165.6	16.7	100.0	1.5	58.7	
AKIN A3809			165.2	13.3	100.0	2.5	58.3	
PIONEER BRAND 33K62(Bt)			164.4	15.4	96.0	4.0	62.9	
MYCOGEN 2799Bt			162.9	14.4	100.0	0.5	60.3	
COLBERT 258			162.6	14.1	100.0	2.5	61.1	
ZIMMERMAN Z64W	135.3	144.2	162.2	19.1	100.0	1.0	59.1	
CAVERNDALE CF885		141.2	161.6	13.7	95.5	1.0	60.9	
TERRA SEED TR1147RR			161.0	12.7	100.0	0.5	60.4	
HYTEST HT7844			160.4	15.1	100.0	3.0	60.3	
GOLDEN HARVEST H-2636	138.5	147.8	157.8	14.1	98.0	3.7	60.7	
SO. STATES SS747CL			156.3	14.6	95.5	5.9	59.7	
PFISTER 3977	151.2	155.8*	154.5	17.7	100.0	9.1	58.5	
AKIN A6723RR			153.4	15.7	99.0	0.5	61.0	
CALLAHAN C7655			152.1	14.1	100.0	8.1	60.5	
CAVERNDALE CF835	137.0	142.9	151.2	14.2	97.5	6.7	58.5	
ZIMMERMAN Z75W		145.7	150.0	14.6	100.0	3.0	60.5	
PFISTER 3321			149.2	16.9	98.0	6.2	59.2	
ZIMMERMAN 1780W	137.2	150.8	148.9	17.2	86.9	4.0	58.7	
ZIMMERMAN 1790W	136.4	147.2	148.4	16.0	100.0	4.5	60.8	
ZIMMERMAN Z62W	142.4	146.6	147.6	15.3	97.0	4.2	60.5	
PIONEER BRAND 32Y52			147.5	15.0	100.0	3.5	63.4	
SO. STATES SS729CL			146.4	11.8	100.0	1.5	59.8	
ZIMMERMAN Z37	129.9	136.6	143.9	16.2	98.0	3.1	61.9	
DEKALB DK679Bty			142.3	15.1	100.0	2.0	61.3	
AKIN A6530W		141.0	132.2	16.0	99.5	4.6	60.9	
CAVERNDALE CF828Bt			132.1	12.1	96.0	5.3	58.9	
COLBERT 254			131.2	13.6	100.0	7.1	63.2	
CAVERNDALE CF890			129.3	12.5	99.0	4.6	60.9	
AKIN A6590	135.6	141.5	125.9	14.6	100.0	9.1	58.4	
GOLDEN HARVEST H-9345			123.2	13.4	97.5	7.0	63.2	
GOLDEN HARVEST H-9229			118.3	13.5	97.0	7.2	62.9	
MEDIUM AVERAGE	145.4	155.1	164.6	14.9	98.6	3.3	60.6	
LSD (0.10)	17.2	23.1	33.0	1.2	4.7	3.5	1.7	
C.V.			14.8	5.8	3.5	77.1	2.0	

\* 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 11E. Annual Summary, 1999, Early Hybrids (112 Days To Maturity Or Earlier), Franklin, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
PIONEER BRAND 34B23			160.6*	11.9	100.0	1.0	58.3
PIONEER BRAND 34W67			158.3*	13.4	100.0	0.0	60.1
PIONEER BRAND 33J24			155.4*	14.9	100.0	0.0	60.3
GOLDEN HARVEST H-2552		144.2*	150.3*	11.7	100.0	0.0	54.5
PIONEER BRAND 33Y18	160.9*	144.6*	149.5*	11.9	100.0	0.0	60.6
MYCOGEN 2725		126.9	148.8*	12.7	100.0	0.0	56.6
PIONEER BRAND 33G26		162.6*	147.1*	13.1	100.0	0.0	60.1
DEKALB DK611			146.7*	11.9	100.0	0.0	58.9
NK BRAND N58-D1			146.3*	10.8	100.0	0.0	58.3
CALLAHAN C7557	151.7*	135.7	143.5*	12.1	100.0	0.0	55.5
MYCOGEN 2717Bt			142.8*	11.4	100.0	0.5	55.9
DEKALB DK595Bty			142.3*	11.3	99.0	0.0	57.7
GARST 8464		142.6	141.9*	12.3	100.0	0.0	57.0
DEKALB DK626Bty			141.7*	11.0	100.0	0.0	57.6
TERRA SEED TR1097			141.2*	11.7	100.0	0.5	56.5
ASGROW RX730YG			140.3*	11.8	100.0	1.0	56.4
ASGROW RX739			139.8*	12.6	100.0	0.0	56.1
HYTEST HT7736			139.3*	13.6	100.0	0.0	58.7
CALLAHAN C7860			138.8	11.7	100.0	0.0	59.7
ZIMMERMAN Z42		148.0*	138.0	14.1	100.0	0.0	56.3
BECK'S 6205	157.6*	142.1	137.9	12.2	100.0	0.0	55.1
BECK'S 5912W	162.1*	141.3	137.3	14.4	100.0	0.5	59.0
ASGROW RX799Bt			133.9	13.2	100.0	1.5	58.9
ASGROW RX770YG			132.2	11.6	100.0	0.0	56.2
GATEWAY 2118			131.5	12.4	100.0	0.5	59.5
BECK'S 5727			131.3	10.5	100.0	0.0	59.0
GOLDEN HARVEST H-9285Bt			130.7	9.8	100.0	0.5	54.4
SO. STATES SS710			130.5	10.7	100.0	0.0	57.4
AKIN A6432			128.7	9.8	100.0	0.5	53.9
CROW'S 496	148.6*	130.1	128.4	11.6	100.0	2.0	55.5
FR1064 X FR450	130.7	115.1	126.9	10.9	98.0	0.0	56.2
ZIMMERMAN N71-T7			126.5	13.5	100.0	0.5	57.9
TERRA SEED TR1106		135.3	124.2	10.4	97.5	0.5	55.7
LG SEEDS LG2587		143.2	124.1	11.2	100.0	0.5	59.9
HYTEST HT7712		136.9	123.5	12.8	100.0	1.0	58.9
CALLAHAN C7625RR			123.4	11.2	100.0	0.5	57.1
NK BRAND N63-G7		125.3	123.4	10.3	100.0	0.0	57.0
DYNA-GRO 5505RR			122.8	10.6	100.0	0.0	55.8
LG SEEDS LG2604IT			121.9	10.4	99.0	0.5	56.1
TERRA SEED TR1128			120.8	11.6	100.0	0.5	60.0
ASGROW RX740		138.8	120.5	11.4	100.0	0.5	58.4
COLBERT FARMS 240		125.6	120.5	10.9	100.0	0.5	55.1
TERRA SEED TR1089IT			119.4	10.4	100.0	0.0	55.2
CAMPBELL 7250		141.4	114.1	11.1	100.0	0.0	55.3
CAMPBELL 7099			109.6	11.7	100.0	0.5	58.4
ZIMMERMAN NX7208			107.8	14.0	100.0	0.0	57.7
TERRA SEED TR1129RR			102.6	10.9	97.0	0.5	57.2
EARLY AVERAGE	151.9	137.8	133.4	11.8	99.8	0.3	57.3
LSD (0.10)	14.7	18.4	21.3	1.8	1.6	1.1	1.4
C.V.			11.7	11.1	1.1	262.3	1.8

**Table 11L. Annual Summary, 1999, Late Hybrids, (118 Days To Maturity Or Later), Franklin, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
PIONEER BRAND 31A12		132.6	133.7*	14.3	100.0	0.5	58.3
ASGROW RX901W			132.1*	15.6	100.0	1.0	57.9
TERRA SEED TR1185		132.3	127.2*	15.5	98.0	0.0	55.7
SO. STATES SS859CL			126.7*	12.9	95.5	1.0	55.0
PIONEER BRAND 31B13(Bt)		155.2*	126.6*	12.6	98.5	0.5	59.5
CALLAHAN C7975Bt			119.4*	12.0	100.0	4.5	56.0
AKIN A6725	157.8*	138.9*	117.8*	12.1	100.0	0.5	58.6
MYCOGEN 2888IMI	156.8*	134.9	117.0*	14.0	99.0	0.5	58.9
GARST 8222IT		121.0	113.3*	16.0	100.0	0.5	58.2
CAMPBELL 8000		131.6	111.7	12.4	91.9	0.6	57.7
GARST 8220	161.0*	130.2	110.3	14.4	96.0	0.5	54.9
B73 X PA91	130.9	119.9	106.4	14.9	99.0	1.0	56.7
SO. STATES SS943	158.4*	130.4	105.4	14.3	98.5	0.0	54.3
DEKALB DK697			105.1	12.0	100.0	0.5	58.1
GREAT LAKES 6968		130.2	104.7	13.8	100.0	0.5	59.6
NK BRAND N83-N5		129.8	101.2	12.4	100.0	0.0	58.8
CROW'S 691		122.6	101.1	13.2	100.0	1.0	59.3
LATE AVERAGE	152.9	131.5	115.8	13.7	98.6	0.8	57.5
LSD (0.10)	14.5	18.2	21.9	2.1	5.5	2.5	2.0
C.V.			13.7	11.1	4.1	228.1	2.5

**Table 11M. Annual Summary, 1999, Medium Hybrids (113-117 Days To Maturity), Franklin, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
PIONEER BRAND 32K61	179.8*	163.7*	150.1*	15.0	100.0	0.0	62.1
SO. STATES SS828	189.4*	170.6*	150.0*	13.5	100.0	1.5	54.5
PIONEER BRAND 33A14(Bt)	171.4	154.8*	149.0*	12.1	100.0	0.0	58.5
PIONEER BRAND 33G27(Bt)			148.0*	13.9	100.0	0.0	60.8
CROW'S 687Bt			146.9*	14.5	100.0	1.0	58.7
CAMPBELL 7650		153.0	146.1*	14.1	100.0	0.5	56.7
SO. STATES SS747CL			145.0*	13.6	100.0	0.5	58.3
CAVERNDALE CF828Bt			144.9*	13.6	100.0	0.0	55.8
AKIN A6590	169.0	167.6*	144.2*	11.7	100.0	0.0	56.3
PIONEER BRAND 33K62(Bt)			144.0*	14.3	100.0	0.0	61.6
ZIMMERMAN 1790W	155.6	139.7	143.2*	14.9	100.0	4.5	57.5
CAVERNDALE CF885		152.3	140.8*	11.3	100.0	0.0	59.1
PIONEER BRAND 33J56			140.4*	12.3	100.0	0.0	61.2
CAVERNDALE CF832-IMI			138.7*	12.6	99.0	0.0	56.6
MYCOGEN 2799Bt			137.9*	12.2	100.0	0.0	57.6
FR27 X M017	172.0	162.5*	137.6*	14.2	100.0	0.5	54.4
CALLAHAN C7640Bt			137.6*	11.3	100.0	3.5	56.2
LG SEEDS LG2648Bt			136.3*	13.3	100.0	0.0	58.6
TERRA SEED TR1167	152.5	145.4	136.3*	15.7	100.0	0.5	57.5
GOLDEN HARVEST H-9481Bt			135.8*	13.9	100.0	0.0	58.3
SO. STATES SS769Bt		150.2	135.8*	14.0	100.0	1.5	58.1
PFISTER 3977	166.6	150.8	135.6*	14.0	100.0	0.5	57.4
TERRA SEED TR1147RR			134.3*	10.7	100.0	0.0	57.1
CALLAHAN C7762	164.4	150.6	134.0*	11.6	100.0	1.0	55.3
EXSEGEN ES617	169.5	154.8*	132.2*	14.1	100.0	0.0	59.2
GOLDEN HARVEST H-9405			132.2*	12.4	100.0	0.0	58.3
ZIMMERMAN 1780W	147.5	134.7	132.2*	15.2	100.0	0.0	57.9
HYTEST HT7844			132.1*	13.3	97.5	0.0	58.3
GOLDEN HARVEST H-9229			130.8*	11.5	100.0	0.5	59.7
LG SEEDS LG2726	161.2	145.7	129.0	15.0	100.0	1.0	60.2
CAVERNDALE CF940	156.5	148.8	128.7	12.3	100.0	0.5	56.6
GOLDEN HARVEST H-9345			128.0	12.3	100.0	0.0	60.7
ZIMMERMAN Z37	156.9	146.1	127.9	16.6	100.0	0.0	59.2
AKIN A6609Bt			127.2	14.9	100.0	0.0	59.1
SO. STATES SS729CL			126.7	13.2	100.0	0.5	57.3
COLBERT 254			125.6	11.4	100.0	0.0	61.0
COLBERT 258			125.4	12.4	100.0	0.0	59.7
ZIMMERMAN Z39	157.3	136.5	125.0	11.2	100.0	1.0	54.7
PIONEER BRAND 3335	173.1	155.1*	124.5	11.4	100.0	0.0	60.4
AKIN A6569Bt			124.5	12.7	100.0	0.5	57.2
CAVERNDALE CF890			124.4	10.4	99.0	0.5	56.9
PIONEER BRAND 32Y52			124.4	12.0	97.5	0.5	61.5
ADLER SEED 5250			124.3	10.7	99.0	0.5	57.7
BECK'S 8280	157.3	139.1	124.2	13.7	100.0	0.5	60.9
NK BRAND N79-L3		141.2	123.7	14.6	100.0	0.0	61.4
GOLDEN HARVEST H-2636	157.4	150.8	122.9	12.9	100.0	0.0	58.0
AKIN A6530W		140.6	121.6	13.5	100.0	0.0	58.4
CALLAHAN C7655			121.2	12.8	100.0	0.0	58.3
CAVERNDALE CF835	161.3	146.6	121.0	11.6	100.0	0.0	55.4
ZIMMERMAN 1851W		149.5	120.1	16.9	100.0	0.0	57.0
EXSEGEN ES519			119.6	11.9	100.0	0.0	56.8
SO. STATES SS849CL			119.4	13.1	98.0	0.0	53.7
PFISTER 3321			118.1	12.3	100.0	0.5	55.9
ZIMMERMAN Z62W	150.1	128.5	118.0	14.0	100.0	0.0	59.2
NK BRAND N71-T7			116.4	14.0	98.5	0.0	58.8
TERRA SEED TR1157	150.1	125.9	115.6	13.7	100.0	0.0	54.9
GATEWAY 1157		132.1	114.7	14.3	100.0	0.0	59.0
DEKALB DK650			114.3	11.3	100.0	0.0	58.9
DEKALB DK679Bty			112.0	13.7	100.0	0.0	58.7
AKIN A6723RR			111.7	13.0	95.5	0.0	56.0
AKIN A3809			110.5	10.9	100.0	1.0	53.2
ZIMMERMAN Z64W	153.1	131.8	102.0	14.4	98.0	1.1	58.8
HYTEST HT7820			100.3	13.0	100.0	0.5	56.2
ZIMMERMAN Z75W		121.6	91.5	12.5	100.0	0.0	58.2
MEDIUM AVERAGE	162.4	146.3	128.7	13.1	99.7	0.4	58.0
LSD (0.10)	14.0	17.1	20.8	1.9	1.7	1.5	1.6
C.V.			11.9	10.7	2.0	280.1	2.0

\* 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 12E. Annual Summary, 1999, Early Hybrids (112 Days To Maturity Or Earlier), Glendale, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
HYTEST HT7712		151.1*	116.9*	12.6	100.0	1.0	60.4
PIONEER BRAND 34W67			115.0*	10.2	100.0	0.0	60.5
TERRA SEED TR1097			111.7*	9.4	100.0	1.0	56.8
PIONEER BRAND 33Y18	139.8*	148.3*	111.2*	10.2	96.0	0.0	62.2
CROW'S 496	133.0*	150.5*	110.0*	9.6	100.0	0.5	56.7
PIONEER BRAND 33J24			109.9*	13.7	100.0	0.0	63.3
NK BRAND N58-D1			106.7*	9.5	100.0	0.5	57.6
CALLAHAN C7625RR			106.2*	10.0	100.0	1.5	58.8
CALLAHAN C7557	134.1*	153.6*	106.0*	10.3	100.0	0.5	58.4
PIONEER BRAND 33G26		148.1*	105.0*	10.8	100.0	0.0	60.0
PIONEER BRAND 34B23			104.9*	10.5	100.0	1.0	61.1
TERRA SEED TR1129RR			102.5*	9.7	100.0	1.5	54.9
TERRA SEED TR1128			102.5*	10.8	100.0	1.5	62.5
TERRA SEED TR1106		143.9*	102.5*	10.0	100.0	1.0	56.0
ASGROW RX730YG			102.4*	9.9	100.0	0.5	57.6
DEKALB DK595Bty			101.9*	9.5	100.0	2.0	57.2
GATEWAY 2118			100.9*	11.2	100.0	3.0	63.8
SO. STATES SS710			100.0*	10.3	93.4	1.1	58.9
GARST 8464		150.6*	99.8*	10.2	100.0	0.5	58.3
GOLDEN HARVEST H-9285Bt			99.6*	8.6	100.0	0.5	54.2
DEKALB DK626Bty			99.1*	9.9	100.0	1.0	59.7
CAMPBELL 7099			98.6*	11.8	100.0	0.0	59.4
DEKALB DK611			98.5*	10.8	100.0	0.0	59.2
HYTEST HT7736			98.3	14.2	100.0	0.0	57.0
ASGROW RX799Bt			98.1	14.0	100.0	1.0	60.6
FR1064 X FR450	120.0	127.0	97.4	9.1	94.9	0.0	56.4
BECK'S 5727			97.2	11.1	100.0	6.1	62.4
DYNA-GRO 5505RR			96.9	10.5	100.0	2.0	58.1
CAMPBELL 7250		149.9*	96.7	11.5	100.0	0.5	58.3
ASGROW RX740		125.3	96.6	10.9	100.0	4.0	62.7
MYCOGEN 2717Bt			93.8	9.6	100.0	0.0	58.7
BECK'S 5912W	125.9	140.2*	92.7	12.1	100.0	1.5	60.9
GOLDEN HARVEST H-2552		136.3	92.7	8.7	95.0	1.0	55.0
TERRA SEED TR1089IT			92.3	10.0	97.5	0.5	57.7
NK BRAND N63-G7		145.8*	92.0	9.6	100.0	0.5	56.9
LG SEEDS LG2604IT			91.6	10.0	99.5	0.0	56.7
ASGROW RX739			91.0	9.7	100.0	0.5	57.9
ZIMMERMAN Z42		133.4	88.7	10.9	100.0	0.0	57.3
ZIMMERMAN NX7208			87.2	13.4	100.0	0.5	61.5
ZIMMERMAN N71-T7			86.7	13.6	100.0	0.5	60.0
COLBERT FARMS 240		137.2	85.8	10.0	100.0	0.5	58.3
LG SEEDS LG2587		128.5	85.8	10.8	99.5	1.0	60.6
MYCOGEN 2725		144.3*	85.0	9.6	100.0	0.5	57.5
AKIN A6432			84.7	9.9	100.0	0.5	53.5
ASGROW RX770YG			84.7	9.4	100.0	0.0	57.2
CALLAHAN C7860			82.2	10.7	100.0	0.0	60.9
BECK'S 6205	120.4	126.9	76.9	10.8	100.0	2.0	58.7
EARLY AVERAGE	128.9	141.2	97.9	10.6	99.5	0.9	58.7
LSD (0.10)	12.9	15.8	18.5	1.0	3.6	2.0	2.6
C.V.			13.9	7.3	2.7	165.0	3.2

**Table 12L. Annual Summary, 1999, Late Hybrids (118 Days To Maturity Or Later), Glendale, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
CROW'S 691		133.8	112.9*	14.4	97.0	0.6	60.7
PIONEER BRAND 31A12		136.3*	106.5*	13.4	99.0	0.0	60.1
NK BRAND N83-N5		146.7*	105.6*	14.9	100.0	1.0	60.3
GARST 8222IT		124.5	104.7*	16.4	100.0	1.0	60.4
SO. STATES SS943	116.2*	133.5	104.2*	15.1	100.0	1.0	55.2
CALLAHAN C7975Bt			104.0*	12.9	100.0	0.5	59.3
SO. STATES SS859CL			103.6*	14.6	100.0	2.0	56.8
PIONEER BRAND 31B13(Bt)		133.4	102.7*	13.6	100.0	0.0	60.9
TERRA SEED TR1185		121.1	98.5*	14.9	100.0	0.5	58.0
ASGROW RX901W			97.5	16.3	100.0	0.0	62.1
MYCOGEN 2888IMI	121.6*	139.4*	96.3	13.6	100.0	0.0	60.5
CAMPBELL 8000		124.1	95.5	14.9	100.0	0.5	57.6
AKIN A6725	117.1*	132.9	94.2	12.4	100.0	0.0	58.7
GREAT LAKES 6968		134.1	94.0	15.8	100.0	1.0	58.7
GARST 8220	120.7*	128.8	93.2	14.4	100.0	0.5	56.7
DEKALB DK697			82.5	11.8	96.5	0.6	58.4
B73 X PA91	93.9	103.3	75.2	16.8	100.0	1.5	58.0
LATE AVERAGE	113.9	130.1	98.3	14.5	99.5	0.6	58.9
LSD (0.10)	11.1	12.4	14.7	1.9	2.8	1.4	2.1
C.V.			10.8	9.5	2.0	159.9	2.5



**Table 12M. Annual Summary, 1999, Medium Hybrids (113-117 Days To Maturity), Glendale, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
PIONEER BRAND 33J56			122.8*	12.5	100.0	1.0	59.5
LG SEEDS LG2648Bt			116.4*	14.3	100.0	2.5	59.9
TERRA SEED TR1157	128.5*	148.3*	113.6*	14.8	100.0	1.5	55.8
CROW'S 687Bt			112.0*	14.2	98.5	1.0	59.7
TERRA SEED TR1147RR			109.9*	10.9	99.0	0.0	55.6
PIONEER BRAND 33G27(Bt)			109.8*	11.7	100.0	0.0	61.0
GOLDEN HARVEST H-2636	129.0*	143.8*	107.4*	13.4	100.0	3.5	58.5
PIONEER BRAND 33K62(Bt)			107.3*	15.0	100.0	0.0	61.5
SO. STATES SS828	134.4*	143.3*	106.7*	11.4	100.0	0.0	54.0
CAMPBELL 7650			106.5*	12.9	100.0	0.0	56.1
TERRA SEED TR1167	117.6	135.3	105.6*	13.6	100.0	0.0	58.5
PIONEER BRAND 32K61	125.7	143.0*	105.3*	13.5	100.0	1.0	63.5
CAVERNDALE CF940	126.7	132.7	104.8*	12.4	100.0	0.0	57.1
DEKALB DK679Bty			104.6*	11.0	100.0	0.0	59.6
CAVERNDALE CF890			102.0*	9.7	100.0	1.0	57.9
LG SEEDS LG2726	123.7	132.0	102.0*	12.9	100.0	0.0	58.8
NK BRAND N79-L3		127.1	101.8*	12.6	100.0	0.0	62.0
COLBERT 258			101.4	10.3	100.0	0.0	58.7
AKIN A6609Bt			101.1	12.9	100.0	1.5	60.5
ZIMMERMAN Z37	127.2	133.1	100.8	15.3	100.0	0.0	60.5
SO. STATES SS729CL			100.8	9.9	100.0	0.5	57.8
CAVERNDALE CF835	130.2*	146.2*	99.9	11.0	100.0	2.0	55.8
EXSEGEN ES519			99.6	16.2	100.0	0.0	56.2
NK BRAND N71-T7			99.5	13.2	100.0	0.5	58.8
AKIN A3809			98.7	12.0	100.0	0.0	55.0
PFISTER 3977	121.0	129.0	98.4	13.0	100.0	0.0	58.5
CALLAHAN C7762	115.8	137.2*	98.1	11.0	100.0	1.5	56.9
PIONEER BRAND 32Y52			97.6	11.3	100.0	0.0	60.6
PIONEER BRAND 33A14(Bt)	136.3*	138.6*	97.5	10.4	100.0	0.0	59.9
CAVERNDALE CF885		131.1	96.6	13.1	96.5	0.0	58.9
CALLAHAN C7640Bt			95.7	10.4	100.0	0.5	57.0
ADLER SEED 5250			95.6	10.9	100.0	0.5	57.0
AKIN A6569Bt			95.4	10.7	100.0	0.0	57.8
CAVERNDALE CF832-IMI			95.4	13.3	100.0	0.0	59.0
GOLDEN HARVEST H-9405			95.2	11.1	100.0	1.0	57.1
GOLDEN HARVEST H-9345			94.4	10.9	100.0	1.0	62.2
FR27 X M017	119.2	136.0*	94.1	12.5	100.0	0.5	54.9
CAVERNDALE CF828Bt			93.5	10.6	100.0	0.0	58.5
BECK'S 8280	141.2*	151.9*	93.3	13.8	100.0	0.0	59.5
CALLAHAN C7655			92.8	12.5	100.0	1.5	56.9
AKIN A6590	122.3	130.8	92.7	12.5	100.0	0.5	57.3
COLBERT 254			92.3	9.5	100.0	1.0	60.7
HYTEST HT7844			92.2	11.8	100.0	5.1	58.7
SO. STATES SS769Bt		110.2	91.6	10.9	100.0	2.0	57.9
ZIMMERMAN Z62W	117.9	126.3	91.0	10.6	100.0	1.0	58.9
SO. STATES SS849CL			90.8	13.3	100.0	0.5	54.5
ZIMMERMAN 1851W		125.7	90.5	17.0	100.0	1.0	57.2
SO. STATES SS747CL			90.2	11.6	100.0	2.0	58.6
AKIN A6723RR			90.0	10.6	100.0	0.0	55.2
GOLDEN HARVEST H-9229			88.9	10.1	100.0	0.5	60.9
ZIMMERMAN Z64W	113.4	125.4	87.9	13.5	97.5	0.5	58.6
ZIMMERMAN 1780W	111.1	118.3	87.8	11.7	100.0	4.0	56.2
ZIMMERMAN Z39	119.8	136.6*	87.6	13.7	100.0	0.0	55.1
ZIMMERMAN Z75W		112.6	86.3	12.0	100.0	0.0	58.6
MYCOGEN 2799Bt			86.1	10.8	100.0	0.0	59.0
GATEWAY 1157		131.7	85.4	14.8	100.0	1.0	58.8
PIONEER BRAND 3335	127.1	128.0	84.9	11.2	100.0	0.5	59.7
PFISTER 3321			84.8	12.9	98.0	0.0	57.5
ZIMMERMAN 1790W	115.6	120.3	82.0	11.8	100.0	0.0	58.4
AKIN A6530W		120.2	81.2	12.4	100.0	1.0	58.4
GOLDEN HARVEST H-9481Bt			80.8	11.5	100.0	1.0	58.4
HYTEST HT7820			80.0	13.3	100.0	0.0	57.0
DEKALB DK650			79.9	10.6	100.0	0.0	59.1
EXSEGEN ES617	129.0*	127.0	79.6	12.2	100.0	0.5	58.2
MEDIUM AVERAGE	124.2	132.3	96.2	12.2	99.8	0.7	58.3
LSD (0.10)	13.1	16.2	21.2	2.0	1.2	2.2	1.8
C.V.			16.2	11.9	0.9	227.6	2.3

\* 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 13E. Annual Summary, 1999, Early Hybrids (112 Days To Maturity Or Earlier), Lexington, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
MYCOGEN 2717Bt			130.0*	15.5	100.0	2.5	57.1
NK BRAND N58-D1			128.8*	14.4	100.0	1.5	58.0
PIONEER BRAND 33G26		171.5*	127.0*	18.6	100.0	0.5	58.3
PIONEER BRAND 34B23			119.4*	17.5	100.0	2.0	60.6
PIONEER BRAND 33Y18	165.8*	160.6*	117.1*	16.1	100.0	2.0	61.5
ASGROW RX739			116.7*	15.2	100.0	1.0	56.4
TERRA SEED TR1097			112.4*	17.5	100.0	0.5	58.6
GARST 8464		158.0	112.3*	16.3	100.0	2.0	57.6
LG SEEDS LG2604IT			111.8*	18.2	100.0	23.7	57.5
ZIMMERMAN Z42		154.7	106.8	21.6	100.0	2.0	57.4
TERRA SEED TR1089IT			104.5	15.3	100.0	1.5	58.7
DEKALB DK626Bty			103.9	16.4	100.0	1.5	57.9
ASGROW RX730YG			103.8	16.3	100.0	5.1	57.8
CALLAHAN C7860			102.7	17.1	100.0	7.1	61.3
DYNA-GRO 5505RR			101.4	16.6	100.0	3.5	58.4
PIONEER BRAND 34W67			101.2	18.3	100.0	1.0	60.8
AKIN A6432			100.9	17.0	100.0	0.5	57.8
CAMPBELL 7250		150.5	100.8	21.0	100.0	4.0	56.7
NK BRAND N63-G7		158.8*	100.6	15.7	100.0	5.6	57.7
HYTEST HT7712		150.0	100.6	22.8	100.0	4.5	59.0
CALLAHAN C7625RR			100.5	16.7	100.0	6.6	58.5
FR1064 X FR450	126.8	128.7	100.4	13.3	100.0	0.0	57.3
BECK'S 5727			99.0	16.5	100.0	8.1	61.4
BECK'S 6205	164.4*	157.1	98.7	23.4	100.0	3.5	57.4
ASGROW RX740		151.5	98.0	18.0	100.0	8.1	61.4
SO. STATES SS710			97.6	16.2	100.0	0.0	57.6
CALLAHAN C7557	149.7	141.3	96.3	18.5	100.0	23.2	59.4
ZIMMERMAN N71-T7			96.1	20.3	100.0	10.1	58.0
CAMPBELL 7099			95.9	22.2	100.0	13.6	58.5
MYCOGEN 2725		150.8	95.5	17.1	100.0	2.5	58.2
DEKALB DK611			95.1	18.4	100.0	17.7	60.3
CROW'S 496	143.4	147.9	94.5	19.0	100.0	11.1	57.1
PIONEER BRAND 33J24			94.5	28.5	99.5	1.5	61.2
TERRA SEED TR1128			94.4	16.4	100.0	1.0	60.8
TERRA SEED TR1129RR			94.3	16.6	100.0	6.1	59.5
GATEWAY 2118			93.0	16.9	100.0	8.1	61.9
ZIMMERMAN NX7208			92.1	20.5	100.0	5.6	55.1
DEKALB DK595Bty			91.9	13.4	100.0	0.0	56.8
TERRA SEED TR1106		153.3	91.8	20.8	100.0	3.5	56.8
ASGROW RX770YG			91.1	14.3	100.0	6.6	58.9
ASGROW RX799Bt			90.4	25.2	100.0	32.8	58.5
LG SEEDS LG2587		146.4	90.1	17.0	100.0	2.0	61.6
GOLDEN HARVEST H-9285Bt			88.1	14.7	100.0	0.5	57.6
HYTEST HT7736			86.6	28.7	100.0	4.0	58.9
COLBERT FARMS 240		145.0	85.7	17.2	100.0	4.5	57.7
GOLDEN HARVEST H-2552		146.8	83.6	14.4	100.0	2.0	57.9
BECK'S 5912W	142.7	136.5	74.3	20.0	100.0	23.7	58.7
EARLY AVERAGE	148.8	150.5	100.2	18.0	99.9	5.9	58.6
LSD (0.10)	12.5	13.4	18.4	2.6	0.2	9.1	1.8
C.V.			13.5	10.8	0.1	112.9	2.3

**Table 13L. Annual Summary, 1999, Late Hybrids (118 Days To Maturity Or Later), Lexington, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
GARST 8222IT		167.1*	150.3*	20.1	100.0	3.5	59.3
PIONEER BRAND 31B13(Bt)		160.7*	142.9*	19.5	100.0	3.5	60.3
GREAT LAKES 6968		154.6*	133.7*	18.1	100.0	5.1	59.8
NK BRAND N83-N5		150.7	131.5*	18.1	100.0	14.1	58.3
MYCOGEN 2888IMI	157.4*	154.6*	130.1*	17.4	100.0	7.6	59.2
PIONEER BRAND 31A12		152.0	130.1*	17.0	100.0	2.5	59.4
DEKALB DK697			125.8	21.1	100.0	10.1	59.3
AKIN A6725	161.5*	156.2*	125.7	18.6	100.0	24.2	59.9
GARST 8220	142.0	138.1	121.7	18.9	100.0	1.0	56.9
CALLAHAN C7975Bt			120.9	19.3	100.0	20.7	59.3
SO. STATES SS859CL			120.7	17.5	100.0	4.5	55.9
SO. STATES SS943	141.7	142.0	120.2	18.2	100.0	3.0	55.8
ASGROW RX901W			119.7	22.5	100.0	6.6	61.2
TERRA SEED TR1185		147.3	118.6	18.9	99.5	13.8	58.6
CROW'S 691		150.1	114.2	17.0	100.0	5.6	60.5
B73 X PA91	134.8	130.5	106.2	20.3	100.0	22.7	58.3
CAMPBELL 8000		131.1	103.1	18.1	100.0	13.1	56.8
LATE AVERAGE	147.4	148.8	124.4	18.5	99.9	9.5	58.7
LSD (0.10)	12.8	14.3	24.2	1.8	0.3	14.0	2.2
C.V.			14.1	6.8	1.2	106.3	2.7

**Table 13M. Annual Summary, 1999, Medium Hybrids (113-117 Days To Maturity), Lexington, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
GOLDEN HARVEST H-9345			109.3*	18.6	100.0	3.0	60.3
PFISTER 3977	153.8*	152.7*	107.3*	20.4	100.0	8.6	57.6
PIONEER BRAND 32K61	153.4*	148.5*	105.7*	28.9	100.0	4.0	60.2
LG SEEDS LG2648Bt			104.4*	22.8	100.0	28.3	59.4
CAVERNDAL CF890			103.7*	15.3	100.0	0.0	57.4
CAVERNDAL CF885		143.7*	103.7*	22.2	100.0	1.5	57.9
GOLDEN HARVEST H-9229			103.1*	16.2	100.0	15.2	59.4
PIONEER BRAND 3335	156.0*	152.0*	102.8*	17.7	100.0	16.2	60.1
TERRA SEED TR1167	148.2*	140.6	102.7*	30.1	100.0	4.5	56.5
DEKALB DK679Bty			102.0*	19.9	100.0	34.3	57.6
PIONEER BRAND 33K62(Bt)			101.7*	28.4	100.0	0.5	59.9
ZIMMERMAN 1790W	139.0	136.1	101.6*	21.0	100.0	5.6	55.1
SO. STATES SS729CL			100.4*	19.4	100.0	27.3	56.9
PIONEER BRAND 32Y52			100.1*	16.5	100.0	10.6	61.3
SO. STATES SS769Bt		156.6*	99.1*	19.4	100.0	32.8	57.8
HYTEST HT7844			96.7*	19.5	100.0	11.1	56.6
EXSEGEN ES519			96.6*	27.6	100.0	7.1	56.0
AKIN A6590	159.0*	146.4*	96.0*	18.9	100.0	19.7	57.2
CAVERNDAL CF940	145.9	136.3	95.7*	20.6	100.0	14.6	53.5
GOLDEN HARVEST H-2636	141.5	137.1	94.1*	20.8	100.0	17.7	58.7
BECK'S 8280	144.2	140.9	93.5*	26.7	100.0	33.3	59.4
ZIMMERMAN Z39	142.6	141.0	92.2*	25.0	100.0	13.6	55.4
NK BRAND N71-T7			91.7*	24.6	100.0	1.5	56.1
GATEWAY 1157		146.3*	90.9*	27.7	100.0	31.8	57.8
PIONEER BRAND 33A14(Bt)	153.6*	146.7*	90.4	16.7	100.0	1.5	59.0
AKIN A6723RR			88.7	18.3	100.0	4.0	56.3
GOLDEN HARVEST H-9481Bt			88.5	19.3	100.0	25.8	57.5
PIONEER BRAND 33J56			88.2	28.3	89.9	3.0	56.9
PIONEER BRAND 33G27(Bt)			88.0	18.9	100.0	0.0	59.2
COLBERT 258			88.0	17.0	97.5	3.1	57.7
AKIN A6569Bt			87.3	16.8	100.0	30.8	58.4
MYCOGEN 2799Bt			87.0	16.2	100.0	9.1	57.2
CALLAHAN C7762	151.2*	153.9*	86.6	21.2	100.0	10.6	56.3
PFISTER 3321			86.6	24.9	100.0	1.5	58.1
TERRA SEED TR1147RR			86.3	13.5	100.0	2.5	55.0
HYTEST HT7820			86.3	24.0	100.0	16.7	55.8
TERRA SEED TR1157	143.0	133.6	85.6	25.3	100.0	7.1	55.2
CALLAHAN C7655			85.5	20.0	100.0	5.1	55.7
CAVERNDAL CF828Bt			84.7	17.1	100.0	3.0	56.9
SO. STATES SS747CL			83.6	28.6	100.0	20.7	55.9
COLBERT 254			83.2	16.6	100.0	15.7	59.7
CROW'S 687Bt			82.4	20.5	100.0	36.4	57.7
AKIN A6530W		128.3	81.7	18.6	100.0	6.1	55.7
DEKALB DK650			81.5	17.5	100.0	2.0	57.0
ZIMMERMAN Z62W	128.6	114.7	79.2	17.7	100.0	4.5	57.9
CALLAHAN C7640Bt			78.9	16.3	100.0	15.7	58.6
CAVERNDAL CF835	142.8	133.0	77.5	19.5	100.0	14.1	57.4
EXSEGEN ES617	148.4*	132.8	77.3	28.2	94.9	1.6	56.2
FR27 X MO17	145.0	132.6	76.7	23.3	100.0	0.5	53.2
SO. STATES SS828	148.5*	132.4	76.1	24.7	100.0	6.6	53.8
LG SEEDS LG2726	146.9*	135.3	75.4	20.2	100.0	39.9	56.9
ADLER SEED 5250			74.9	19.0	100.0	8.6	55.2
GOLDEN HARVEST H-9405			74.7	18.9	100.0	23.2	57.4
CAMPBELL 7650		137.1	73.5	31.1	100.0	21.2	54.8
CAVERNDAL CF832-IMI			72.8	21.0	100.0	9.1	59.7
ZIMMERMAN 1780W	130.1	121.7	72.4	26.9	100.0	8.6	54.1
AKIN A6609Bt			72.0	23.1	100.0	64.6	58.5
NK BRAND N79-L3		128.9	71.4	21.1	100.0	27.8	61.4
ZIMMERMAN Z37	144.9	129.7	69.6	32.4	100.0	17.7	56.9
SO. STATES SS849CL			69.3	20.2	89.4	2.5	52.3
ZIMMERMAN 1851W		129.9	68.6	31.0	100.0	5.6	57.4
AKIN A3809			67.1	25.8	100.0	30.3	53.1
ZIMMERMAN Z75W		109.5	65.8	18.9	100.0	6.1	57.1
ZIMMERMAN Z64W	130.5	119.5	54.5	25.7	100.0	15.7	56.6
MEDIUM AVERAGE	145.3	136.6	86.9	21.7	99.5	13.6	57.1
LSD (0.10)	12.4	13.2	18.7	4.8	3.9	19.0	2.6
C.V.			15.8	16.5	2.9	103.1	3.4

\* 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 14E. Annual Summary, 1999, Early Hybrids (112 Days To Maturity Or Earlier), Quicksand, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
NK BRAND N63-G7		185.6*	200.7*	15.5	100.0	0.0	58.3
TERRA SEED TR1106		165.3*	186.3*	17.6	100.0	0.0	58.3
CALLAHAN C7557	172.5*	173.4*	184.3*	16.9	100.0	0.0	58.2
ZIMMERMAN NX7208			175.9*	19.9	100.0	0.5	59.5
ASGROW RX730YG			175.3*	16.4	100.0	1.0	59.0
BECK'S 5912W	174.3*	181.5*	170.8*	19.8	91.9	0.0	59.7
SO. STATES SS710			169.0	15.2	100.0	0.0	59.0
CROW'S 496	171.6*	167.5*	166.2	17.4	100.0	0.0	59.5
GATEWAY 2118			163.4	17.4	97.0	0.0	59.8
ASGROW RX799Bt			162.6	18.8	100.0	1.0	59.9
PIONEER BRAND 33Y18	183.7*	172.5*	160.2	15.9	100.0	0.5	62.0
PIONEER BRAND 33G26		172.2*	159.9	16.7	100.0	1.5	61.4
MYCOGEN 2717Bt			158.5	15.8	98.5	0.0	58.5
PIONEER BRAND 33J24			156.1	17.3	100.0	0.0	62.2
BECK'S 5727			154.8	17.4	100.0	0.0	61.0
CAMPBELL 7099			154.4	18.1	100.0	0.0	57.4
ASGROW RX739			153.1	16.8	100.0	1.0	58.0
ZIMMERMAN Z42		155.1	152.4	16.9	100.0	0.0	59.1
LG SEEDS LG2604IT			149.9	16.9	100.0	0.0	57.7
COLBERT FARMS 240		167.2*	149.5	16.8	98.0	5.1	55.6
ZIMMERMAN N71-T7			149.3	18.9	99.5	0.5	58.7
ASGROW RX740		156.1	149.1	16.8	100.0	1.0	61.4
ASGROW RX770YG			148.7	16.4	100.0	0.5	58.1
PIONEER BRAND 34B23			148.5	17.1	100.0	2.5	61.9
TERRA SEED TR1097			148.3	16.4	100.0	0.5	57.9
TERRA SEED TR1089IT			147.4	16.5	100.0	0.5	59.6
TERRA SEED TR1128			147.0	16.1	100.0	1.5	60.3
AKIN A6432			145.1	16.2	97.0	0.0	56.2
HYTEST HT7736			143.8	18.2	100.0	0.0	54.5
DEKALB DK611			142.9	16.3	100.0	0.5	60.7
CAMPBELL 7250		160.3	141.7	16.7	100.0	1.0	57.1
NK BRAND N58-D1			140.7	15.4	100.0	0.0	60.3
LG SEEDS LG2587		151.3	140.5	17.7	98.0	2.0	61.3
DEKALB DK595Bty			139.3	15.1	100.0	3.5	60.0
MYCOGEN 2725		153.0	138.9	16.2	100.0	1.0	57.3
HYTEST HT7712		140.4	138.4	17.9	100.0	0.0	61.5
CALLAHAN C7625RR			136.1	17.0	100.0	7.6	60.7
TERRA SEED TR1129RR			135.5	16.0	99.0	5.1	59.0
GARST 8464		155.4	135.1	17.2	100.0	0.0	51.2
BECK'S 6205	172.4*	151.2	135.0	17.3	100.0	0.0	57.0
FR1064 X FR450	138.8	127.3	134.8	14.6	96.5	1.1	52.3
CALLAHAN C7860			132.7	16.4	100.0	1.0	61.2
DYNA-GRO 5505RR			131.9	16.3	100.0	7.1	58.7
GOLDEN HARVEST H-2552		140.8	131.0	16.0	100.0	1.0	57.1
PIONEER BRAND 34W67			130.9	17.3	100.0	0.5	60.8
GOLDEN HARVEST H-9285Bt			120.7	15.4	100.0	1.0	56.8
DEKALB DK626Bty			119.9	15.8	100.0	1.0	57.1
EARLY AVERAGE	168.9	159.8	150.4	16.8	99.5	1.1	58.7
LSD (0.10)	19.5	22.1	31.6	1.4	3.5	3.2	4.9
C.V.			15.5	6.2	2.6	223.7	6.2

**Table 14L. Annual Summary, 1999, Late Hybrids (118 Days To Maturity Or Later), Quicksand, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
DEKALB DK697			188.9*	18.8	100.0	0.0	59.9
PIONEER BRAND 31B13(Bt)		188.4*	169.3*	18.6	100.0	0.0	60.5
GARST 8222IT		182.0*	157.0	19.8	100.0	2.5	62.4
NK BRAND N83-N5		157.1	155.1	21.7	100.0	1.0	59.4
CROW'S 691		153.8	154.6	27.5	100.0	2.0	57.8
MYCOGEN 2888IMI	170.3*	157.8	145.0	20.5	100.0	1.5	60.1
GREAT LAKES 6968		152.1	144.7	26.5	100.0	0.5	59.5
SO. STATES SS943	180.4*	155.9	144.6	19.4	100.0	0.0	58.1
CALLAHAN C7975Bt			139.6	19.1	100.0	0.0	59.7
GARST 8220	170.9*	147.7	137.0	20.1	95.5	1.0	58.2
AKIN A6725	167.5*	156.0	136.9	20.9	100.0	3.0	59.0
B73 X PA91	164.3*	161.3	136.4	22.8	100.0	0.0	56.7
ASGROW RX901W			125.9	20.5	100.0	0.0	59.8
CAMPBELL 8000		142.8	121.7	19.5	99.0	2.6	57.2
SO. STATES SS859CL			119.3	20.2	100.0	0.0	55.7
TERRA SEED TR1185		136.2	116.5	20.4	100.0	1.0	54.3
PIONEER BRAND 31A12		150.9	112.9	19.1	100.0	1.5	58.3
LATE AVERAGE	170.7	157.1	141.5	20.9	99.7	1.0	58.6
LSD (0.10)	17.7	18.5	29.6	3.0	2.7	2.5	2.0
C.V.			15.1	10.4	2.0	188.4	2.5

**Table 14M. Annual Summary, 1999, Medium Hybrids (113-117 Days To Maturity), Quicksand, Ky.**

BRAND/HYBRID	YIELD BU/AC 97-99	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
TERRA SEED TR1157	181.7*	181.6*	182.5*	19.3	100.0	0.0	58.5
ZIMMERMAN 1780W	184.3*	177.6*	170.8*	20.8	100.0	1.5	58.1
ZIMMERMAN Z37	172.7*	164.5*	169.6*	21.5	100.0	0.0	59.7
CAVERNDALE CF835	171.5*	166.5*	167.3*	18.9	100.0	0.5	57.2
HYTEST HT7844			165.2*	20.1	100.0	0.0	58.9
EXSEGEN ES519			163.7*	20.9	100.0	3.5	58.7
PFISTER 3977	182.5*	161.1	163.1*	18.9	100.0	2.5	59.3
GATEWAY 1157		173.6*	161.8*	21.6	100.0	0.5	59.5
ZIMMERMAN Z64W	181.2*	167.0*	159.4*	24.4	100.0	4.5	59.5
PIONEER BRAND 33G27(Bt)			158.4*	18.8	100.0	0.5	61.6
ZIMMERMAN Z75W		148.7	157.4*	18.3	100.0	1.0	58.8
EXSEGEN ES617	163.5	158.6	156.7*	24.9	100.0	0.0	60.3
ZIMMERMAN Z39	173.2*	151.8	156.2*	20.2	100.0	0.0	57.0
LG SEEDS LG2726	180.4*	161.4	155.9*	20.5	100.0	0.5	59.3
CAVERNDALE CF940	183.3*	164.6*	155.6*	17.8	100.0	1.0	58.9
SO. STATES SS729CL			154.3*	18.8	100.0	1.5	60.2
SO. STATES SS849CL			153.8*	18.3	100.0	0.0	56.7
GOLDEN HARVEST H-9481Bt			152.6	18.4	100.0	1.5	58.9
CAMPBELL 7650		150.5	152.0	20.1	100.0	0.0	57.5
CALLAHAN C7655			151.7	19.5	100.0	0.0	60.5
AKIN A6723RR			150.3	20.7	100.0	0.0	58.2
HYTEST HT7820			149.3	20.8	100.0	1.0	59.0
AKIN A3809			149.2	17.7	100.0	0.0	57.2
ZIMMERMAN 1851W		170.7*	148.5	21.4	100.0	1.5	59.4
PIONEER BRAND 33K62(Bt)			147.1	18.9	100.0	0.5	62.3
LG SEEDS LG2648Bt			146.8	19.4	100.0	0.0	59.1
CAVERNDALE CF885		155.5	145.0	17.9	100.0	0.0	61.0
AKIN A6609Bt			144.4	19.0	100.0	0.5	61.5
CROW'S 687Bt			143.9	18.2	100.0	1.0	59.9
ZIMMERMAN Z62W	151.1	139.7	143.9	20.0	100.0	0.0	58.1
SO. STATES SS828	164.1	148.6	143.7	19.1	92.4	0.0	56.7
GOLDEN HARVEST H-9405			143.5	19.9	100.0	1.5	58.3
GOLDEN HARVEST H-2636	166.5*	157.9	143.2	18.9	98.0	0.5	57.0
TERRA SEED TR1167	158.1	157.4	143.2	20.1	97.0	0.0	58.3
PIONEER BRAND 33J56			142.3	17.1	100.0	3.0	61.8
COLBERT 254			142.1	17.4	100.0	2.5	61.1
PIONEER BRAND 32Y52			141.9	18.9	100.0	1.0	62.4
ADLER SEED 5250			141.5	19.9	98.0	1.0	58.5
BECK'S 8280	164.2	152.5	141.1	20.2	100.0	0.0	60.3
MYCOGEN 2799Bt			140.2	17.2	100.0	0.0	58.8
FR27 X M017	150.3	147.0	139.6	19.1	100.0	0.0	58.1
SO. STATES SS769Bt		157.2	138.6	19.0	100.0	0.0	58.5
PIONEER BRAND 3335	182.3*	161.9	138.3	17.2	100.0	0.5	60.4
NK BRAND N79-L3		144.1	137.7	19.1	100.0	0.5	62.1
PFISTER 3321			137.1	19.3	100.0	0.0	58.3
COLBERT 258			136.7	18.4	100.0	1.0	59.5
CAVERNDALE CF832-IMI			136.4	17.8	100.0	0.5	57.4
DEKALB DK650			135.8	17.9	100.0	1.0	60.0
TERRA SEED TR1147RR			135.6	16.8	100.0	1.0	59.2
DEKALB DK679Bty			135.4	21.3	100.0	0.5	61.1
NK BRAND N71-T7			134.4	18.6	100.0	0.5	58.1
CAVERNDALE CF890			134.3	16.8	100.0	6.1	59.1
CAVERNDALE CF828Bt			133.9	17.3	100.0	0.5	59.2
ZIMMERMAN 1790W	169.1*	147.0	133.4	20.8	100.0	2.0	57.2
PIONEER BRAND 33A14(Bt)	161.2	135.6	129.0	17.0	100.0	0.5	60.8
CALLAHAN C7762	160.9	150.9	128.5	17.4	100.0	0.0	57.6
AKIN A6530W		131.9	126.9	19.1	100.0	1.0	59.5
GOLDEN HARVEST H-9229			126.1	16.9	100.0	5.6	60.2
PIONEER BRAND 32K61	159.6	152.1	123.2	18.1	100.0	0.0	62.6
SO. STATES SS747CL			122.1	17.9	100.0	1.5	58.5
CALLAHAN C7640Bt			121.7	16.5	100.0	0.5	58.9
GOLDEN HARVEST H-9345			121.2	17.0	100.0	9.1	61.4
AKIN A6590	164.4	143.9	116.0	17.0	100.0	0.0	57.2
AKIN A6569Bt			107.3	16.6	100.0	1.0	57.8
MEDIUM AVERAGE	169.4	156.0	144.2	19.0	99.8	1.0	59.2
LSD (0.10)	18.2	19.6	29.8	1.6	2.5	2.9	2.6
C.V.			15.3	6.3	1.9	206.1	3.2

\* 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 15A. Annual Summary, 1999, High Oil Hybrids, Robards, Ky.**

BRAND/HYBRID	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
AGRIGOLD A6490TC		172.9*	11.8	81.8	7.3	60.0
PFISTER 2652-19	165.1*	162.7*	11.8	86.4	18.0	56.8
PFISTER 3049-19		151.8*	13.9	85.9	8.4	57.4
WYFFELS W7029TC		148.6*	12.4	81.8	12.6	57.0
ASGROW RX748TC		144.1*	11.8	80.8	10.5	56.8
GOLDEN HARVEST H-2547 HOC	150.2*	143.4*	12.6	76.3	9.6	56.9
SO. STATES SS727TC	139.9	140.6	11.4	80.3	12.5	58.0
PFISTER 3977-19		140.0	16.1	79.3	12.8	56.5
WYFFELS W7354TC		137.3	12.0	77.8	6.2	60.6
BECK'S 6205TC	155.1*	132.6	14.0	69.2	20.1	57.2
GOLDEN HARVEST H-9257 HOC		120.7	11.5	82.3	9.4	59.8
SO. STATES SS767TC	129.8	112.0	13.8	67.2	16.7	58.2
AGRIGOLD A6460TC	122.8	108.3	11.4	77.3	12.0	57.5
HIGH OIL AVERAGE	143.8	139.6	12.6	78.9	12.0	57.9
LSD (0.10)	15.6	31.1	1.3	11.7	9.9	1.9
C.V.		15.9	7.2	10.6	58.9	2.4

**Table 15B. Annual Summary, 1999, High Oil Hybrids, Mayfield, Ky.**

BRAND/HYBRID	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
ASGROW RX748TC	101.5*	9.5	86.4	0.5	53.3
GOLDEN HARVEST H-2547 HOC	97.2*	9.6	97.0	0.5	52.4
AGRIGOLD A6490TC	95.4*	11.0	92.4	1.1	55.1
BECK'S 6205TC	93.1*	9.5	88.9	0.0	52.3
GOLDEN HARVEST H-9257 HOC	90.5*	10.9	84.3	1.4	57.1
PFISTER 3977-19	86.7*	11.5	91.9	0.0	54.4
SO. STATES SS727TC	83.8	9.8	88.9	2.3	52.1
PFISTER 2652-19	79.1	9.5	86.9	0.0	52.5
AGRIGOLD A6460TC	78.8	9.8	83.3	0.0	52.7
WYFFELS W7029TC	78.5	9.5	87.9	1.2	51.8
PFISTER 3049-19	76.4	9.7	82.3	0.7	52.5
SO. STATES SS767TC	72.1	9.8	65.7	0.0	52.6
WYFFELS W7354TC	57.2	9.9	81.3	0.0	57.4
HIGH OIL AVERAGE	83.9	9.9	85.9	0.6	53.5
LSD (0.10)	15.6	1.6	11.2	1.2	1.3
C.V.	13.3	11.3	9.4	151.3	1.7

**Table 15C. Annual Summary, 1999, High Oil Hybrids, Lexington, Ky.**

BRAND/HYBRID	YIELD BU/AC 98-99	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
PFISTER 3977-19		97.2*	17.2	88.4	6.2	57.3
BECK'S 6205TC	143.3*	96.5*	15.0	93.4	5.9	55.8
SO. STATES SS767TC	140.8*	94.3*	15.8	92.4	5.0	56.6
AGRIGOLD A6460TC	146.2*	92.3*	12.0	93.4	21.6	56.1
WYFFELS W7354TC		90.7*	12.8	96.5	6.3	58.1
PFISTER 3049-19		86.5*	15.8	96.0	5.4	54.5
ASGROW RX748TC		85.9*	14.0	90.9	13.9	56.4
GOLDEN HARVEST H-2547 HOC	136.0	83.6*	11.9	94.9	5.3	55.5
AGRIGOLD A6490TC		80.3*	11.2	96.5	1.6	57.2
GOLDEN HARVEST H-9257 HOC		80.3*	12.8	98.0	6.2	58.2
WYFFELS W7029TC		76.4	14.1	92.4	20.4	56.5
PFISTER 2652-19	128.9	72.7	14.0	97.5	35.8	54.3
SO. STATES SS727TC	128.0	70.1	13.1	90.4	18.3	56.9
HIGH OIL AVERAGE	137.2	85.1	13.8	93.9	11.7	56.4
LSD (0.10)	8.6	17.2	2.2	5.4	14.4	1.7
C.V.		14.5	11.6	4.1	88.2	2.1

\* 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 15D. Annual Summary, 1999, High Oil Hybrids, All Locations.**

BRAND/HYBRID	YIELD BU/AC 1999	% MOIST 1999	% STAND 1999	TOT % LODGED 1999	TEST WT LBS/BU 1999
AGRIGOLD A6490TC	116.2*	11.3	90.2	3.3	57.4
ASGROW RX748TC	110.5*	11.7	86.0	8.3	55.5
GOLDEN HARVEST H-2547 HOC	108.0*	11.4	89.4	5.1	54.9
PFISTER 3977-19	107.9*	15.0	86.5	6.3	56.1
BECK'S 6205TC	107.4*	12.8	83.8	8.7	55.1
PFISTER 3049-19	104.9*	13.1	88.0	4.8	54.8
PFISTER 2652-19	104.8*	11.8	90.2	18.0	54.5
WYFFELS W7029TC	101.2	12.0	87.4	11.4	55.1
SO. STATES SS727TC	98.2	11.4	86.5	11.0	55.7
GOLDEN HARVEST H-9257 HOC	97.2	11.7	88.2	5.7	58.4
WYFFELS W7354TC	95.1	11.5	85.2	4.2	58.7
AGRIGOLD A6460TC	93.1	11.1	84.7	11.2	55.5
SO. STATES SS767TC	92.8	13.1	75.1	7.2	55.8
HIGH OIL AVERAGE	102.9	12.1	86.3	8.1	56.0
LSD (0.10)	12.9	1.1	4.6	7.3	1.0

**Table 15E. Two-year Summary, 1998-1999, High Oil Hybrids, Lexington And Robards, Ky.**

BRAND/HYBRID	YIELD BU/AC 98-99	% MOIST 98-99	TOT % LODGED 98-99	TEST WT LBS/BU 98-99
BECK'S 6205TC	149.2*	14.5	8.8	58.3
PFISTER 2652-19	147.0*	13.6	14.4	56.4
GOLDEN HARVEST H-2547 HOC	143.1*	12.7	4.1	57.4
SO. STATES SS767TC	135.3	14.8	6.8	58.6
AGRIGOLD A6460TC	134.5	13.0	8.8	57.8
SO. STATES SS727TC	133.9	12.9	8.3	57.6
HIGH OIL AVERAGE	140.5	13.6	8.5	57.7
LSD (0.10)	9.0	0.7	3.6	0.7

\* 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 15F. Annual Summary, 1999, High Oil Hybrids, Chemical Composition, Lexington, Ky.**

BRAND/HYBRID	PROTEIN	OIL	STARCH
	.....% dry wt.....		
AGRIGOLD A6460TC	11.6	7.0	65.1
AGRIGOLD A6490TC	11.5	7.4	65.1
ASGROW RX748TC	11.8	7.3	64.6
BECK'S 6205TC	11.4	6.9	65.5
GOLDEN HARVEST H-2547 HOC	11.4	7.1	65.4
GOLDEN HARVEST H-9257 HOC	11.3	7.5	65.2
PFISTER 2652-19	11.9	7.2	64.5
PFISTER 3049-19	11.5	7.3	64.8
PFISTER 3977-19	11.2	7.3	65.4
SO. STATES SS727TC	12.1	7.2	64.4
SO. STATES SS767TC	11.7	7.2	65.0
WYFFELS W7029TC	12.0	7.3	64.4
WYFFELS W7354TC	11.5	7.6	64.6
HIGH OIL AVERAGE	11.6	7.2	64.9

Note: To convert to 15% moisture, multiply values by .85.



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