

1998 Kentucky Hybrid Corn Performance Test

William L. Pearce and C.G. Poneleit

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

Presentation of Data

Complete 1998 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 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 the 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 1999. 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 to 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 and Franklin test locations were planted no-till in soybean residues. The Hartford and Mayfield tests were planted minimum-till following corn (Hartford) and soybeans (Mayfield). The Lexington, Bardstown, and Quicksand tests were planted in conventionally tilled seedbeds following corn (Lexington and Quicksand) and soybean (Bardstown). 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.

Experimental Design and Mean Comparisons

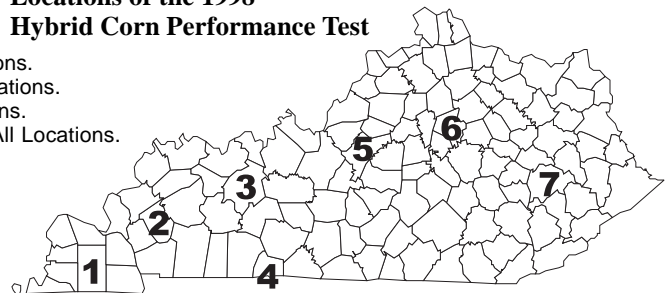
Each hybrid was grown in three replications at each location to sample uncontrollable variability of soil types, fertility, and other factors. Annual mean yields presented in the tables are averages of three replications at the test site, while 2-year and 3-year means are averages of six and nine replications, respectively. A randomized complete block (RCB) design was used for each maturity group test at each location.

List of Tables

- Table 1. Precipitation at Test Locations 1998.
- Table 2. Hybrids Tested in 1998.
- Table 3. Agronomic Information for 1998 Test Locations.
- Table 4. Early Hybrids, One-Year, Two-Year, Three-Year, All Locations.
- Table 5. Medium Hybrids, One-Year, Two-Year, Three-Year, All Locations.
- Table 6. Late Hybrids, One-Year, Two-Year, Three-Year, All Locations.
- Table 7. Annual Summary, E, L, M, Chemical Composition, 1998, All Locations.
- Table 8. Annual Summary, E, L, M, Mayfield (map position 1).
- Table 9. Annual Summary, E, L, M, Princeton (map position 2).
- Table 10. Annual Summary, E, L, M, Hartford (map position 3).
- Table 11. Annual Summary, E, L, M, Franklin (map position 4).
- Table 12. Annual Summary, E, L, M, Bardstown (map position 5).
- Table 13. Annual Summary, E, L, M, Lexington (map position 6).
- Table 14. Annual Summary, E, L, M, Quicksand (map position 7).
- Table 15A. Annual Summary, High Oil Test, Hartford (map position 3).
- Table 15B. Annual Summary, High Oil Test, Lexington (map position 6).
- Table 15C. Annual Summary, High Oil Test, All Locations.

*E=Early, L=Late, M=Medium

Locations of the 1998 Hybrid Corn Performance Test



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 which allowed planting of a specified number of kernels per plot. Each plot consisted of two rows 30 inches apart and 22 feet long. Each plot was planted with 40 seeds/row. When seedlings were 12 to 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 were 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 for European Corn Borer damage by counting the number of broken tops per plot. Dr. Ric Bessin, Department of Entomology, University of Kentucky (personal communication), has shown a direct correlation between broken tops in the corn plant and European Corn Borer damage. On the plots checked at Lexington, more than 20% of the tops were broken. Two Bt hybrids were within one LSD of the top yielding hybrid at this location. The plots checked at Princeton had 25% of the tops broken. A Bt hybrid was at the top of the early and medium test at this location. The Ohio County location had 50% of the tops broken. Three Bt hybrids were within one LSD of the top yielding hybrid at this location. Other locations had little top breakage.

High Oil

High oil hybrid blends (TC High Oil Blend®) were tested at two 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 16 entries at two locations with two replications per location. The two-location average yield data are available in Table 15 along with protein, oil, and starch composition.

The grain was analyzed by the Kentucky Grain Quality Laboratory at Lexington¹ using Near Infrared Reflections Spectroscopy (NIRS). The chemical composition values are given for grain at 0% moisture.

Chemical Analysis

Chemical composition was measured from one replication of each early-, mid-, and late-maturity test at each location. These samples were also analyzed by the Kentucky Grain Quality Laboratory at Lexington¹ using NIRS. The NIRS analysis provided evaluation of protein, starch, and oil; it 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 should possibly 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 Table 7 or Table 15 values by 0.85. For any other moisture content, multiply the values by (100 - % moisture)/100.

Gray Leaf Spot

Data on the severity of gray leaf spot were not collected during the 1998 growing season as none was found at any of the locations. Prior results may be of use if gray leaf spot is a problem in your area. Gray leaf spot evaluations were presented in the 1996 Hybrid Corn Performance Test for the Elkton location. The 1995 Stanford location results and the 1994 Hopkinsville location results can also be used.

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

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) includes 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 to 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-maturity 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 1998 Growing Season

Mayfield (Graves County)

The Graves County test was planted on April 9 and thinned on May 27. Plant populations and early weed control were only fair due to cool conditions. The previous crop was no-till soybeans.

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

The Princeton test was planted on May 12 in soybean residue and was thinned on June 15. Weed control was good. There were no disease problems.

Franklin (Simpson County)

The Franklin test was planted on April 23 and was thinned on June 2. Weed control was good early, but by mid-season weed control was poor. Stands were excellent.

Hartford (Ohio County)

The Ohio County test was planted on May 11 in corn residue and thinned on June 15. There were no weed or insect problems. Water damaged two ranges of plots in the medium and late tests resulting in lower yields with somewhat more variability. A high oil test was also grown at this location.

Bardstown (Nelson County)

The Bardstown test was planted no-till in soybean crop residue on May 5 and was thinned on June 11 and 12. Weed control was good during the entire growing season. There were no disease problems.

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

The Lexington test was planted on May 6. The test was thinned on June 10 and 11. 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.

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

The Quicksand test was planted on May 14 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 weeds and grasses.

Note

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

Acknowledgments

The authors sincerely appreciate 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 a 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 provided test weight data along with yield and moisture.

The authors are also grateful to Garry Swango and the Kentucky Corn Growers Association for the Grain Quality Laboratory which processed more than 900 grain samples. The protein, oil, and starch data are provided in Tables 7E, 7L, 7M, and 15C. The authors also appreciate the effort of Wei Chen for his work with Mr. Swango in the Grain Quality Lab.

The authors also acknowledge the statistical and programming support of Dr. Paul L. Cornelius and Danny Walls of the Agronomy Department.

Additional acknowledgments are made to the following people who helped conduct this year’s performance test.

James E. Roberts, *Research Technician, Department of Agronomy, Lexington*

Richard C. Green, *Research Technician, Department of Agronomy, Lexington*

Dr. Morris Bitzer, *Extension Specialist in Grain Crops, Lexington*

Dr. James Herbek, *Extension Specialist in Grain Crops, Research and Extension Center, Princeton*

Donnie Davis, *Superintendent, Research and Education Center, Princeton*

Mason Morrison, *Superintendent*, and Harold Pelfrey, *Farm Manager, Robinson Substation, Quicksand*

Bill Green, *Extension Agent, Mayfield*

Jeff Watt, *Extension Agent, Franklin*

Greg Comer, *Extension Agent, Hartford*

Ron Bowman, *Extension Agent, Bardstown*

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

Table 1. PRECIPITATION AT TEST LOCATIONS, 1998

Month	Days	Location						
		Mayfield	Princeton	Franklin	Hartford	Bardstown	Lexington	Quicksand
April	1-8	0.73	0.90	2.06	1.28	1.60	1.27	1.97
	9-16	1.47*	2.22	6.21	3.77	2.78	2.17	2.30
	17-24	1.02	0.40	0.99*	0.85	0.89	1.07	3.52
	25-30	<u>2.39</u>	<u>2.58</u>	<u>2.10</u>	<u>2.74</u>	<u>1.72</u>	<u>2.18</u>	<u>0.49</u>
	Total	5.61	6.10	11.36	8.64	6.99	6.69	8.28
May	1-8	1.70	1.41	1.29	2.06	1.10*	1.96*	1.90
	9-16	0.25	0.06*	0.23	0.06*	0.00	0.08	0.70*
	17-24	1.72	0.93	0.75	2.33	4.16	2.79	3.91
	25-31	<u>0.84</u>	<u>1.41</u>	<u>1.68</u>	<u>1.37</u>	<u>0.26</u>	<u>2.09</u>	<u>0.40</u>
	Total	4.51	3.81	3.95	5.82	5.52	6.92	6.91
June	1-8	3.52	3.32	2.66	2.31	3.30	0.77	1.42
	9-16	5.33	7.03	7.30	3.81	3.78	2.07	2.85
	17-24	1.12	0.34	1.90	3.70	1.94	2.37	1.27
	25-30	<u>1.71</u>	<u>1.93</u>	<u>0.87</u>	<u>0.78</u>	<u>1.21</u>	<u>5.28</u>	<u>2.51</u>
	Total	11.68	12.62	12.73	10.60	10.23	10.49	8.05
July	1-8	0.96	0.69	0.96	1.27	1.37	0.48	1.94
	9-16	1.77	4.74	2.20	1.53	1.36	2.13	0.14
	17-24	0.47	0.05	0.17	0.08	0.63	4.57	0.77
	25-31	<u>1.67</u>	<u>1.01</u>	<u>0.21</u>	<u>0.47</u>	<u>1.52</u>	<u>0.80</u>	<u>0.92</u>
	Total	4.87	6.49	3.54	3.35	4.88	7.98	3.77
August	1-8	0.80	1.31	0.63	1.23	1.08	0.00	0.00
	9-16	1.50	0.09	0.10	0.66	0.04	0.19	1.38
	17-24	0.05	0.00	0.00	0.00	0.00	0.00	0.66
	25-31	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.06</u>	<u>0.33</u>	<u>0.07</u>	<u>0.11</u>
	Total	2.35	1.40	0.73	1.95	1.45	0.26	2.15
Sept.	1-8	0.03	0.16	0.26	0.00	0.00	0.00	0.39
	9-16	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	17-24	0.34**	0.10	0.51**	0.43**	2.99	0.60	2.18
	25-30	<u>0.10</u>	<u>0.00**</u>	<u>0.00</u>	<u>0.08</u>	<u>0.00**</u>	<u>0.01**</u>	<u>0.00</u>
	Total	0.48	0.26	0.77	0.51	2.99	0.61	2.57
Grand Total		29.50	30.68	33.08	30.87	32.06	32.95	31.73

* Planted. ** Harvested in September; all others harvested in October.

TABLE 2. HYBRIDS TESTED IN 1998

	Hybrid	Test+ Color	Days to Maturity++	Source
AgraTech	757	M Yellow	115	AgraTech Seed Research P.O. Box 644 Atlanta, GA 31714
	725	M Yellow	113	
	770	M Yellow	114	
Agventure	977	M Yellow	117	Agventure P.O. Box 112 Geneseo, IL 61254
	845	E Yellow	112	
Akin	A-6460	E Yellow	109	Akin Seed Company Route 1 St. Francesville, IL
	A-6725	L Yellow	117	
	A-6590	M Yellow	115	
	A-6490	L Yellow	118	
	A-6530W	M White	116	
	A6460TC8	HO Yellow		
	A4616TC2	HO Yellow		
Asgrow	RX740	E Yellow	118	Asgrow Seed Company P.O. Box 7570 Des Moines, IA 50322
	RX730	E Yellow	108	
	RX770	E Yellow	109	
	RX810	M Yellow	114	
	RX776W	E White	109	
	RX921W	L White	119	
	RX748TC	HO Yellow		
	RX730TC	HO Yellow		
	RX770TC	HO Yellow		
	Baldridge	BH567	M Yellow	

TABLE 2. HYBRIDS TESTED IN 1998 (continued)

	Hybrid	Test+ Color	Days to Maturity++	Source
Beck's	6205	E Yellow	112	Beck's Superior Hybrids 6767 E. 276th Street Atlanta, IN 46031
	8280	M Yellow	116	
	5912W	E White	112	
	6205TC	HO Yellow		
Callahan	C7557	E Yellow	112	Callahan Seeds 1122 East 169th St. P.O. Box 367 Westfield, IN 46074
	C7772	M Yellow	117	
	C7762	M Yellow	113	
	TC 7557D	HO Yellow		
Campbell	6475	E Yellow	110	Campbell Seed, Inc. 1375,N 800 W Tipton, IN 46072
	7250	E Yellow	112	
	7650	M Yellow	116	
	8000	M Yellow	118	
Caverndale Farms	CF790A	E Yellow	110	Caverndale Farms Route 2 Danville, KY 40422
	CF820W	M White	113	
	CF835	M Yellow	116	
	CF885	M Yellow	116	
	CF940	M Yellow	117	
Colbert	220	E Yellow	112	Colbert Farms R.R. #2 Washington, IN 47501
	330	M Yellow	117	
	240	E Yellow	112	
Crow's	691	L Yellow	118	Crow's Hybrid Corn Company Box 306 Milford, IL 60953
	496	E Yellow	112	
	664	L Yellow	118	
	668	M Yellow	117	
	702	L Yellow	120	
DeKalb	DK635	E Yellow	113	DEKALB Genetics Corp. 3100 Sycamore Road Dekalb, IL 60115
	DK679	M Yellow	117	
	DK658	M Yellow	115	
	DK618BTX	E Yellow	111	
	DK626BTX	E Yellow	112	
	DK687	L Yellow	118	
	DK595TC	HO Yellow		
Exsegen	ES617	M Yellow	116	Miles Seed 2760 Keller Rd. Owensboro, KY 42301
	ES241W	M White	117	
Garst	N5254	L Yellow	118	ICI Seeds, Inc. 6495 Vista Dr. West Des Moines, IA 50266
	8220	L Yellow	120	
	8464	E Yellow	112	
	8221T	L Yellow	118	
Gateway	1117	E Yellow	112	Gateway Seeds P.O.Box 337 Ridgeway, IL 62979
	1157	M Yellow	115	
Glick Seed	GH79A	M Yellow	117	Glick Seed Service 16801 E-100N Hartsville, IN 47224
	GH828	L Yellow	120	
Golden Harvest	H-2552	E Yellow	112	Thorp Seed Company R.R. 3, Box 257 Clinton, IL 61727
	H-2622	M Yellow	116	
	H-2581	M Yellow	114	
	H-2547	E Yellow	111	
	H-2636	M Yellow	117	
	H-2547 HOC	HO Yellow		
	H-2581 HOC	HO Yellow		
Great Lakes	6631	M Yellow	116	Great Lakes Hybrids 9915 W21 P.O. Box 637 Ovid, MI 48866
	6968	L Yellow	119	
Hytest	HT7712	E Yellow	112	HytestSeeds/Agribiotech 2700 Sunset Rd Suite 25 Las Vegas, NV 89120
	BH4612	E Yellow	110	
	BH4748	M Yellow	115	
	BH4924	L Yellow	122	
L G Seeds	LG2726	M Yellow	117	LG Seeds Windfall Service Center PO Box 457 RT 213 S. Windfall, IN 46076
	LG2705	M Yellow	114	
	LG2587	E Yellow	111	
Mycogen	2725	E Yellow	112	Mycogen Plant Sciences 624 27th Street Lubbock, TX 79404
	2832IMI	M Yellow	116	
	2888	L Yellow	118	

TABLE 2. HYBRIDS TESTED IN 1998 (continued)

	Hybrid	Test+	Color	Days to Maturity++	Source
Novartis	NK Brand 73-Q3	M	Yellow	113	Novartis Seed Company P.O. Box 959 Minneapolis, MN 55440
	NK Brand 63-G7	E	Yellow	109	
	NK Brand 79-L3	M	Yellow	117	
	NK Brand 7639Bt	M	Yellow	114	
	NK Brand 83-N5	L	Yellow	118	
Pfister Hybrids	3810	M	Yellow	114	Pfister Hybrid Corn Co. P.O. Box 187 El Paso, IL 61738
	3977	M	Yellow	116	
	2025-18	H0	Yellow		
	2652-19	H0	Yellow		
	2680-19	H0	Yellow		
Pioneer Brand	3140	L	Yellow	119	Pioneer Hi-Bred Int'l 6767 Old Madison Pike Suite 110 Huntsville, AL
	31A12	L	Yellow	118	
	31B13	L	Yellow	119	
	33G26	E	Yellow	112	
	3335	M	Yellow	113	
	33V08Bt	E	Yellow	111	
	32K61	M	Yellow	114	
	33A14Bt	M	Yellow	113	
	33Y18Bt	E	Yellow	112	
	33Y09	M	Yellow	113	
	32H39W	M	White	114	
		32R90	H0	Yellow	
Southern States	SS943	L	Yellow	122	Southern States Coop. P.O. Box 26234 Richmond, VA 23260
	SS897	L	Yellow	119	
	SS598IT	E	Yellow	108	
	SS769BT	M	Yellow	115	
	SS828	M	Yellow	117	
	SS797IT	M	Yellow	117	
	SS767TC	H0	Yellow		
	SS727TC	H0	Yellow		
Terra Seed	TR 1157	M	Yellow	115	Terra International, Inc. 600 Fourth Street Sioux City, IA 51101
	TR 1167	M	Yellow	117	
	TR 1088	E	Yellow	108	
	TR 1154	M	Yellow	115	
	TR 1106	E	Yellow	110	
	TR 1185	L	Yellow	118	
	TR 1186	L	Yellow	118	
	TR 1188	L	Yellow	118	
Wilson	1792	M	Yellow	115	Wilson Seeds P.O. Box 391 East Hwy. 44 Harlan, IA 51537
	5307	L	Yellow	118	
	1851W	M	White	116	
	1790W	M	White	113	
	1780W	M	White	114	
Zimmerman	Z37	M	Yellow	114	Zimmerman Hybrids, Inc. 5147 W. Franklin Rd. Evansville, IN 47712
	Z42	E	Yellow	110	
	Z39	M	Yellow	114	
	Z39	M	Yellow	114	
	Z62W	M	White	112	
	Z74W	M	White	114	
	Z64W	M	White	114	
	Z75W	M	White	113	
K.A.E.S.	FR1064xFR450	E	Yellow	112	Illinois Found. 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 1998 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 -185 P205- 90 K20 - 0	Bicep II Spirit	Force 1.5G Warrior	April 9	Sept. 15 & 16
2) Princeton, KY Western Kentucky Res. & Ed. Center	Huntington & Lindsie Silt Loam	N -175 P205- 0 K20 - 0	Beacon Bullet Gramoxone	Force 1.5G	May 12	Sept. 29 & 30
3) Hartford, KY Dane Milligan Farm	Melvin Silt Loam	N -185 P205- 60 K20 - 75	Magnum Warrior	Force 1.5G	May 11	Sept. 22 & 23
4) Franklin, KY Tim Hughes Farm	Pembroke	N -163 P205- 0 K20 - 0	Fulltime Atrazine	Force 1.5G Warrior	April 23	Sept. 17
5) Bardstown, KY Rick Lawson Farm	Pembroke Loam	N -165 P205- 70 K20 - 90	Princep Atrazine	Force 1.5G	May 5	Sept. 28
6) Lexington, KY K.A.E.S. Spindletop Farm	Lanton Silt Loam	N -225 P205- 0 K20 -100	Bullet	Force 1.5G	May 6	Sept. 24 & 25
7) Quicksand, KY Robinson Substation	Philo Silt Loam	N -250 P205-144 K20 -144	Bullet Beacon	Force 1.5G	May 14	Oct. 5

**Table 4E-1YR. ANNUAL SUMMARY, 1998, EARLY HYBRIDS
(112 Days to Maturity or Earlier), ALL LOCATIONS**

BRAND/HYBRID	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 33G26	190.3*	14.4	96.2	1.7	62.1
PIONEER BRAND 33V08(Bt)	186.3*	13.8	100.0	1.6	61.5
CAMPBELL 7250	182.9*	14.2	99.1	2.5	59.1
AGVENTURE A.V.845	178.5	14.4	97.5	1.3	59.2
PIONEER BRAND 33Y18	178.0	14.5	99.3	2.3	63.3
DEKALB DK626BTX	177.3	13.4	99.6	1.3	60.2
BECK'S 5912W	177.0	15.3	100.0	1.5	62.4
BECK'S 6205	176.8	14.3	99.9	2.4	59.7
DEKALB DK635	175.7	13.6	99.0	1.3	60.0
CALLAHAN C7557	174.8	14.2	99.3	2.2	59.0
CROW'S 496	174.5	14.3	99.6	2.6	59.4
GARST 8464	173.7	14.5	99.5	2.0	60.3
DEKALB DK618BTX	173.5	14.1	98.5	1.2	61.2
MYCOGEN 2725	172.9	14.1	100.0	1.9	60.2
HYTEST SEEDS HT7712	172.8	15.0	99.3	2.7	62.2
NK BRAND N63-G7	173.3	13.7	99.4	1.7	60.7
TERRA SEED TR1106	172.1	14.2	97.6	1.8	58.1
AKIN A6460	171.6	14.3	98.6	2.1	59.1
COLBERT FARMS 240	171.4	13.2	100.0	1.8	58.6
L.G. SEEDS LG2587	170.9	14.6	99.6	1.8	62.0
ZIMMERMAN Z42	169.6	14.8	98.9	1.1	60.9
GOLDEN HARVEST H-2552	169.2	13.0	99.6	2.1	58.5
ASGROW RX730	168.3	14.1	98.9	1.5	60.5
TERRA SEED TR1088	167.7	13.4	100.0	1.1	58.1
GATEWAY 1117	167.4	13.9	100.0	1.0	60.3
GOLDEN HARVEST H-2547	166.6	13.9	99.9	1.3	60.1
CAVERNDALE CF790A	165.9	13.8	97.8	2.6	58.2
COLBERT FARMS 220	165.8	13.6	99.9	2.2	58.5
ASGROW RX740	165.1	14.3	100.0	1.9	62.1
HYTEST SEEDS BH4612	163.7	14.2	97.5	2.1	60.6
ASGROW RX770	163.0	14.3	100.0	0.9	60.5
CAMPBELL 6475	161.7	14.4	97.1	2.1	62.5
SO. STATES SS598IT	149.3	14.2	99.9	1.6	62.1
ASGROW RX776W	143.2	15.6	98.0	0.7	61.8
FR1064 X FR450	139.3	14.1	99.2	2.2	57.3
EARLY AVERAGE	170.0	14.2	99.1	1.8	60.3
LSD (0.10)	9.3	0.3	2.2	1.1	1.4

**Table 4E-2YR. TWO-YEAR SUMMARY 1997-1998, EARLY HYBRIDS
(112 Days to Maturity or Earlier), ALL LOCATIONS**

BRAND/HYBRID	YIELD BU/AC 97-98	% MOIST 97-98	% STAND 97-98	TOT % LODGED 97-98
PIONEER BRAND 33Y18	171.3*	16.6	99.3	1.7
PIONEER BRAND 33V08(Bt)	169.4*	16.5	100.0	1.4
BECK'S 6205	166.8*	16.5	99.8	1.6
BECK'S 5912W	163.9*	18.3	99.1	1.3
AGVENTURE A.V.845	163.4	17.0	95.2	0.8
CROW'S 496	160.1	16.3	99.8	1.9
CALLAHAN C7557	159.7	16.7	99.4	1.7
AKIN A6460	157.2	16.3	99.3	1.9
GOLDEN HARVEST H-2547	156.9	16.4	100.0	1.5
COLBERT FARMS 220	153.9	15.7	99.5	1.8
FR1064 X FR450	132.6	16.4	96.2	1.8
EARLY AVERAGE	159.5	16.6	98.9	1.6
LSD (0.10)	6.9	0.4	1.7	0.6

**Table 4E-3YR. THREE-YEAR SUMMARY 1996-1998, EARLY HYBRIDS
(112 Days to Maturity or Earlier), ALL LOCATIONS**

BRAND/HYBRID	YIELD	%	%	TOT %
	BU/AC 96-98	MOIST 96-98	STAND 96-98	LODGED 96-98
BECK'S 6205	177.8*	17.2	97.5	1.8
CROW'S 496	169.6	17.0	98.6	1.8
CALLAHAN C7557	165.1	17.2	97.6	1.7
COLBERT FARMS 220	158.8	16.5	96.9	1.9
FR1064 X FR450	138.7	17.1	94.7	1.9
EARLY AVERAGE	162.0	17.0	97.1	1.8
LSD (0.10)	6.7	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 5M-1YR. ANNUAL SUMMARY, 1998, MEDIUM HYBRIDS
(113-117 Days to Maturity), ALL LOCATIONS**

BRAND/HYBRID	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TESTWT LBS/BU 1998
GATEWAY 1157	176.6*	15.3	99.8	2.4	61.7
PIONEER BRAND 32K61	176.5*	15.1	99.8	2.9	63.2
CALLAHAN C7762	174.1*	14.2	98.8	2.2	58.5
PFISTER 3810	173.7*	14.3	99.6	2.0	59.9
BECK'S 8280	173.3*	15.4	100.0	1.9	61.1
WILSON 1851W	173.3*	16.3	99.3	3.0	59.7
DEKALB DK658	172.9*	13.8	99.4	1.2	60.6
AKIN A6590	172.8*	14.2	99.4	3.2	59.4
PIONEER BRAND 3335	172.4*	14.2	99.9	3.5	60.4
SO. STATES SS828	172.0*	14.1	99.1	1.1	57.4
TERRA SEED TR1157	171.3*	14.8	100.0	1.9	56.4
L.G. SEEDS LG2726	170.1*	15.8	99.6	2.1	61.4
CAVERNDALE CF835	169.8*	13.9	99.6	2.3	59.3
DEKALB DK679	169.5*	15.5	100.0	2.3	61.2
GOLDEN HARVEST H-2636	169.4*	14.7	98.7	3.0	59.8
PIONEER BRAND 33A14(Bt)	169.2*	14.1	100.0	1.5	60.6
COLBERT FARMS 330	169.2*	15.3	98.7	1.9	60.5
PIONEER BRAND 32H39W	169.2*	15.4	100.0	1.4	62.6
ZIMMERMAN Z37	168.6*	15.9	99.4	3.8	61.4
CAMPBELL 7650	168.5*	14.8	98.7	1.7	58.4
PFISTER 3977	167.5*	15.3	100.0	1.6	58.6
FR27 X M017	167.0	14.3	100.0	1.2	58.7
EXSEGEN ES617	166.2	16.2	99.9	1.4	61.2
NK BRAND 7639Bt	165.9	15.0	100.0	0.7	62.0
SO. STATES SS769Bt	165.8	15.7	97.8	2.7	60.9
AGRATECH ATX770	165.5	15.0	99.9	2.2	58.9
HYTEST SEEDS BH4748	165.0	14.7	100.0	2.0	59.4
PIONEER BRAND 33Y09(Bt)	164.9	14.3	98.2	1.7	60.6
TERRA SEED TR1154	164.6	13.5	100.0	1.2	59.0
CAVERNDALE CF940	164.5	14.5	100.0	2.6	60.0
BECK'S 6580	164.5	14.3	98.3	3.3	59.8
NK BRAND N79-L3	163.7	15.6	100.0	1.4	63.6
WILSON 1792	163.0	15.6	99.8	1.7	59.5
CALLAHAN C7772	162.7	15.7	100.0	3.0	61.2
ZIMMERMAN Z39	162.6	14.7	99.6	2.3	59.1
TERRA SEED TR1167	162.3	15.3	99.5	2.3	59.9
AGVENTURE A.V.977	162.2	15.8	100.0	3.0	61.7
GOLDEN HARVEST H-2622	162.0	15.5	99.3	1.4	61.4
MYCOGEN 2832IMI	161.9	14.5	99.0	1.2	59.9
NK BRAND N73-Q3	161.2	14.0	100.0	2.1	60.4
GREAT LAKES 6631	160.0	14.7	99.6	1.7	59.7
AGRATECH ATX757	160.0	15.2	99.5	2.0	61.9
GLICK GH79A	158.8	15.1	99.6	2.0	58.7
ZIMMERMAN Z64W	158.8	16.4	99.6	1.9	58.6
WILSON SEEDS 1780W	157.8	16.1	100.0	2.0	60.0
SO. STATES SS797IT	157.2	15.0	99.6	1.8	60.8
CAVERNDALE CF885	157.1	14.5	100.0	2.2	60.4
AKIN A6530W	156.5	15.4	99.6	1.7	61.7
CROW'S 668	156.3	15.2	98.8	1.7	60.1
EXSEGEN ES241W	156.2	16.1	98.8	4.3	59.8
ASGROW RX810	155.6	14.1	98.6	2.2	58.9
WILSON SEEDS 1790W	151.9	15.4	99.8	2.8	60.0
CAVERNDALE CF820W	151.3	14.8	99.0	1.9	60.4
GOLDEN HARVEST H-2581	150.6	14.4	98.8	2.4	59.4
L.G. SEEDS LG2705	149.5	15.4	98.2	1.6	60.6
ZIMMERMAN Z62W	148.8	15.4	99.4	1.8	60.2
ZIMMERMAN Z75W	148.2	14.5	99.9	1.1	59.1
ZIMMERMAN Z74W	147.8	15.7	100.0	1.8	62.2
AKIN A6490	147.6	14.3	100.0	2.0	62.3
AGRATECH ATX725	138.4	14.5	99.8	2.2	60.5
BALDRIDGE BH-567	103.8	13.9	94.2	4.2	59.4
MEDIUM AVERAGE	162.4	14.9	99.3	2.1	60.2
LSD (0.10)	9.3	0.4	1.5	1.4	1.3

**Table 5M-2YR. TWO-YEAR SUMMARY 1997-1998, MEDIUM HYBRIDS
(113-117 Days to Maturity), ALL LOCATIONS**

BRAND/HYBRID	YIELD BU/AC 97-98	% MOIST 97-98	% STAND 97-98	TOT % LODGED 97-98
SO. STATES SS828	170.7*	17.5	99.1	1.1
PIONEER BRAND 3335	169.5*	16.4	99.8	2.3
PIONEER BRAND 33A14(Bt)	166.5*	16.3	100.0	1.4
PIONEER BRAND 32K61	166.2*	17.6	99.9	2.1
PFISTER 3977	163.5	18.3	100.0	1.6
DEKALB DK679	163.4	18.7	100.0	1.5
DEKALB DK658	163.3	16.8	99.3	1.0
EXSEGEN ES617	162.2	18.9	99.9	1.1
L.G. SEEDS LG2726	162.1	19.1	99.7	1.9
CAVERNDALE CF940	161.0	17.5	100.0	2.1
AKIN A6590	160.9	16.4	99.7	2.1
ZIMMERMAN Z37	160.5	19.5	99.6	2.6
NK BRAND 7639Bt	160.1	17.4	99.9	1.2
TERRA SEED TR1154	159.4	17.3	99.3	1.3
CAVERNDALE CF835	159.2	16.4	99.3	1.6
COLBERT FARMS 330	159.2	18.9	99.0	1.6
BECK'S 8280	159.0	18.6	100.0	1.2
CALLAHAN C7762	159.0	16.7	98.3	1.5
TERRA SEED TR1157	158.6	18.1	99.5	1.4
PIONEER BRAND 33Y09(Bt)	158.4	16.6	99.2	1.4
GOLDEN HARVEST H-2636	158.3	18.1	99.3	2.4
FR27 X M017	156.7	17.7	96.4	1.0
GREAT LAKES 6631	156.2	18.2	99.7	1.1
ZIMMERMAN Z39	155.8	17.6	99.8	2.0
AGRATECH ATX770	155.6	18.2	99.9	1.8
AGVENTURE A.V.977	154.8	18.9	100.0	2.2
WILSON SEEDS 1780W	153.8	19.3	99.7	1.8
NK BRAND N73-Q3	153.3	17.0	100.0	1.5
PIONEER BRAND 32H39W	153.0	18.3	99.9	1.1
CROW'S 668	151.7	18.5	99.1	1.5
ZIMMERMAN Z64W	150.8	19.9	99.0	1.5
SO. STATES SS797IT	150.5	17.7	98.5	1.2
GOLDEN HARVEST H-2622	150.3	18.8	98.8	1.7
TERRA SEED TR1167	149.8	18.8	99.6	1.7
WILSON SEEDS 1790W	149.1	18.4	99.2	1.7
L.G. SEEDS LG2705	147.3	19.0	99.0	1.1
ZIMMERMAN Z62W	146.3	18.4	98.2	1.3
GOLDEN HARVEST H-2581	142.4	17.4	99.5	1.9
MEDIUM AVERAGE	157.2	18.0	99.4	1.6
LSD (0.10)	6.9	0.5	1.5	0.7

**Table 5M-3YR. THREE-YEAR SUMMARY 1996-1998, MEDIUM HYBRIDS
(113-117 Days to Maturity), ALL LOCATIONS**

BRAND/HYBRID	YIELD BU/AC 96-98	% MOIST 96-98	% STAND 96-98	TOT % LODGED 96-98
PIONEER BRAND 3335	172.6*	17.3	97.3	2.5
L.G. SEEDS LG2726	171.1*	19.6	97.6	1.5
DEKALB DK658	168.9*	17.6	97.6	1.9
NK BRAND 7639Bt	168.7*	18.5	97.7	1.5
BECK'S 8280	168.5*	19.2	97.8	2.5
TERRA SEED TR1154	167.3*	18.0	97.8	1.7
ZIMMERMAN Z37	166.0*	20.0	97.7	3.3
TERRA SEED TR1157	165.9*	18.7	97.4	1.7
CAVERNDALE CF835	164.7	17.4	96.6	1.9
CALLAHAN C7762	164.4	17.2	97.0	1.4
GOLDEN HARVEST H-2622	161.6	19.3	97.4	1.7
TERRA SEED TR1167	161.5	19.1	97.8	1.6
ZIMMERMAN Z64W	161.4	20.4	97.3	1.8
GOLDEN HARVEST H-2636	161.3	18.7	97.1	2.6
L.G. SEEDS LG2705	160.7	19.4	97.1	1.4
AGRATECH ATX770	160.7	18.9	97.7	2.1
CROW'S 668	160.6	18.9	97.7	1.5
FR27 X M017	160.2	18.3	95.6	1.3
ZIMMERMAN Z62W	157.7	19.1	97.0	1.8
MEDIUM AVERAGE	164.3	18.7	97.3	1.9
LSD (0.10)	6.7	0.4	1.3	0.9

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

**Table 6L-1YR. ANNUAL SUMMARY, 1998, LATE HYBRIDS
(118 Days to Maturity or Later), ALL LOCATIONS**

BRAND/HYBRID	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 31B13	185.5*	15.3	99.6	6.1	61.0
AKIN A6725	174.3	15.3	100.0	2.6	61.2
CROW'S 664	170.9	14.6	100.0	2.6	58.5
PIONEER BRAND 31A12	167.9	15.2	98.6	3.8	60.6
MYCOGEN 2888	167.3	15.3	99.4	2.7	61.3
DEKALB DK687	167.1	15.3	99.2	1.7	59.3
GREAT LAKES 6968	166.8	16.0	100.0	3.9	61.3
NK BRAND N83-N5	166.3	15.4	97.8	3.6	60.3
GARST 822IT	164.2	16.4	98.0	1.5	62.5
GARST 8220	161.6	16.3	97.0	1.7	57.0
HYTEST SEEDS BH4924	160.7	16.2	99.8	2.2	57.5
GARST N5254	160.7	15.3	98.1	3.6	60.6
CROW'S 691	160.7	15.5	96.8	2.8	61.1
GLICK GH828	160.2	16.0	96.4	3.3	61.3
TERRA SEED TR1186	159.9	16.0	99.6	1.4	60.4
SO. STATES SS943	159.0	16.2	99.6	2.3	58.0
CROW'S 702	158.9	17.2	99.1	2.0	57.4
CAMPBELL 8000	158.4	15.0	99.6	2.8	60.4
TERRA SEED TR1188	158.0	16.1	97.7	2.3	60.6
PIONEER BRAND 3140	153.8	15.3	96.7	2.1	58.8
ASGROW 921W	152.9	16.8	99.6	1.2	62.4
TERRA SEED TR1185	148.3	16.1	99.1	4.1	59.1
B73 X PA91	147.6	15.8	98.2	4.1	59.2
SO. STATES SS897	146.4	15.8	97.4	1.9	58.7
WILSON SEEDS 5307	142.8	17.3	99.3	3.4	59.8
LATE AVERAGE	160.8	15.8	98.7	2.8	59.9
LSD (0.10)	8.7	0.4	3.1	1.3	0.7

**Table 6L-2YR. TWO-YEAR SUMMARY, 1997-1998, LATE HYBRIDS
(118 Days to Maturity or Later), ALL LOCATIONS**

BRAND/HYBRID	YIELD BU/AC 97-98	% MOIST 97-98	% STAND 97-98	TOT % LODGED 97-98
AKIN A6725	161.8*	18.9	99.7	2.1
DEKALB DK687	160.6*	18.6	98.3	1.3
GARST 8220	160.2*	19.8	98.2	1.4
SO. STATES SS943	160.1*	19.8	99.8	1.7
MYCOGEN 2888	157.6*	19.3	99.6	1.6
GARST N5254	156.6*	18.8	98.5	2.6
CROW'S 702	155.5*	20.7	98.8	1.6
PIONEER BRAND 3140	155.1*	19.0	95.6	1.7
ASGROW 921W	151.2	20.6	99.5	1.2
B73 X PA91	137.4	19.5	96.3	2.6
LATE AVERAGE	155.6	19.5	98.4	1.8
LSD (0.10)	6.7	0.5	2.0	0.7

**Table 6L-3YR. THREE-YEAR SUMMARY, 1996-1998, LATE HYBRIDS
(118 Days to Maturity or Later), ALL LOCATIONS**

BRAND/HYBRID	YIELD BU/AC 96-98	% MOIST 96-98	% STAND 96-98	TOT % LODGED 96-98
MYCOGEN 2888	174.1*	19.5	97.7	2.2
AKIN A6725	172.1*	19.3	97.6	2.4
GARST 8220	168.2*	20.5	96.4	1.8
SO. STATES SS943	168.0*	20.5	97.3	1.9
PIONEER BRAND 3140	167.9*	19.7	94.8	1.9
DEKALB DK687	167.4	19.4	96.6	1.7
CROW'S 702	165.1	21.0	96.6	2.0
B73 X PA91	146.7	20.2	95.7	3.2
LATE AVERAGE	166.2	20.0	96.6	2.1
LSD (0.10)	6.6	0.4	1.6	0.9

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

**TABLE 7M. ANNUAL SUMMARY, 1998, MEDIUM HYBRIDS
CHEMICAL COMPOSITION, ALL LOCATIONS**

BRAND/HYBRID	PROTEIN	OIL	STARCH
% dry wt.....		
AGRATECH ATX725	9.7	4.3	71.0
AGRATECH ATX757	9.2	4.5	71.6
AGRATECH ATX770	9.1	4.2	72.1
AGVENTURE A.V.977	7.5*	4.2*	61.3*
AKIN A6490	8.9	4.6	71.7
AKIN A6530W	9.4	4.5	71.1
AKIN A6590	9.3	4.3	71.4
ASGROW RX810	8.5	4.2	72.5
BALDRIDGE BH-567	9.8	4.2	70.8
BECK'S 8280	9.3	4.6	71.2
BECK'S 6580	9.1	4.6	71.4
CALLAHAN C7762	8.8	4.3	72.0
CALLAHAN C7772	9.2	4.8	71.0
CAMPBELL 7650	8.8	4.2	72.3
CAVERNDALE CF835	9.0	4.2	72.0
CAVERNDALE CF940	9.3	4.2	71.6
CAVERNDALE CF820W	9.5	4.2	71.4
CAVERNDALE CF885	8.7	4.4	72.1
COLBERT FARMS 330	8.9	4.8	71.3
CROW'S 668	9.3	4.4	71.4
DEKALB DK658	9.8	4.1	71.1
DEKALB DK679	9.3	5.0	70.8
EXSEGEN ES241W	9.2	4.6	71.2
EXSEGEN ES617	9.3	4.2	71.3
FR27 X M017	9.3	4.3	71.4
GATEWAY 1157	9.2	4.9	70.9
GLICK GH79A	8.8	4.3	72.1
GOLDEN HARVEST H-2636	9.1	4.4	71.7
GOLDEN HARVEST H-2581	8.9	4.4	71.8
GOLDEN HARVEST H-2622	9.4	4.4	71.3
GREAT LAKES 6631	8.7	4.2	72.3
HYTEST SEEDS BH4748	8.7	4.3	72.3
L.G. SEEDS LG2705	9.1	4.3	71.8
L.G. SEEDS LG2726	8.8	4.8	71.5
MYCOGEN 2832IMI	9.5	4.5	71.1
NK BRAND 7639Bt	9.3	3.9	71.8
NK BRAND N73-Q3	9.3	4.3	71.6
NK BRAND N79-L3	9.0	4.4	71.6
PFISTER 3810	8.9	4.6	71.5
PFISTER 3977	8.7	4.3	72.2
PIONEER BRAND 3335	9.3	3.7	72.4
PIONEER BRAND 32H39W	9.5	4.1	71.4
PIONEER BRAND 32K61	9.2	4.2	71.6
PIONEER BRAND 33A14(Bt)	8.8	3.7	72.7
PIONEER BRAND 33Y09(Bt)	8.4	3.9	73.0
SO. STATES SS769Bt	8.8	4.5	71.9
SO. STATES SS797IT	9.2	4.2	71.8
SO. STATES SS828	9.2	4.6	71.3
TERRA SEED TR1154	9.4	4.1	71.6
TERRA SEED TR1157	7.5*	3.7*	61.8*
TERRA SEED TR1167	9.1	4.2	71.8
WILSON 1792	9.4	3.9	71.8
WILSON 1851W	9.8	4.4	70.7
WILSON SEEDS 1780W	9.3	4.4	71.4
WILSON SEEDS 1790W	9.4	4.4	71.4
ZIMMERMAN Z37	8.8	4.8	71.6
ZIMMERMAN Z39	8.6	4.2	72.4
ZIMMERMAN Z62W	9.5	4.6	71.1
ZIMMERMAN Z64W	9.0	4.6	71.6
ZIMMERMAN Z74W	9.2	4.7	71.3
ZIMMERMAN Z75W	8.0**	4.1**	60.9**
MEDIUM AVERAGE	9.1	4.3	71.1
MEDIUM AVERAGE BY LOCATION			
PRINCETON	9.3	4.3	71.5
HARTFORD	8.6	4.4	72.2
FRANKLIN	9.4	4.4	71.3
MAYFIELD	9.6	4.4	71.2
LEXINGTON	9.9	4.3	70.8
QUICKSAND	8.4	4.4	72.1
BARDSTOWN	8.8	4.4	72.1

* Simpson County data missing. ** Lexington data missing
Note: To convert to 15% moisture multiply values by .85

**Table 8E. ANNUAL SUMMARY, 1998, EARLY HYBRIDS
(112 Days to Maturity or Earlier), MAYFIELD, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 33G26			209.3*	12.8	100.0	1.0	63.1
DEKALB DK626BTX			204.5*	11.9	98.5	0.0	61.2
PIONEER BRAND 33V08(Bt)		168.3*	195.9*	12.8	100.0	0.0	63.3
CROW'S 496	181.8*	166.5*	195.5*	12.4	97.0	5.8	61.2
CALLAHAN C7557	188.5*	167.5*	193.6*	12.1	100.0	2.0	58.7
BECK'S 5912W		165.8*	193.3*	13.8	100.0	2.5	63.5
HYTEST SEEDS HT7712			191.8*	13.3	100.0	5.1	62.7
CAVERNDALE CF790A			187.3	12.9	99.0	3.1	58.6
AGVENTURE A.V.845		158.3*	183.9	13.3	100.0	1.5	59.9
GARST 8464			182.4	12.8	98.0	1.6	59.6
PIONEER BRAND 33Y18		165.6*	182.2	12.9	95.5	5.7	62.8
ASGROW RX730			179.7	12.6	100.0	4.0	61.0
TERRA SEED TR1088			179.6	11.7	100.0	1.0	59.3
CAMPBELL 7250			178.7	13.5	100.0	2.0	59.1
MYCOGEN 2725			176.5	12.6	100.0	1.0	60.9
ASGROW RX740			175.5	12.3	100.0	1.5	60.4
COLBERT FARMS 220	169.6	150.8	175.3	12.7	100.0	3.0	59.9
BECK'S 6205	181.2*	147.3	174.1	13.2	99.0	1.5	60.3
L.G. SEEDS LG2587			172.2	12.9	100.0	4.0	63.1
AKIN A6460		153.2*	172.1	13.4	92.4	1.2	59.5
HYTEST SEEDS BH4612			168.6	12.5	94.4	1.5	61.0
DEKALB DK635			167.6	12.9	96.0	0.0	60.6
ASGROW RX770			167.5	13.0	100.0	2.0	60.3
DEKALB DK618BTX			165.9	12.6	100.0	2.5	61.8
GOLDEN HARVEST H-2552			165.7	11.3	100.0	1.5	58.8
NK BRAND N63-G7			164.4	11.8	100.0	2.0	60.8
GOLDEN HARVEST H-2547		144.4	164.1	12.9	100.0	2.0	60.5
ZIMMERMAN 242			162.7	13.4	100.0	0.5	61.7
TERRA SEED TR1106			162.6	13.1	97.0	2.1	60.5
COLBERT FARMS 240			161.2	12.2	100.0	0.0	60.6
FR1064 X FR450	140.9	124.6	160.7	13.1	99.0	0.0	40.1
SO. STATES SS5981T			157.6	12.9	100.0	1.5	62.9
GATEWAY 1117			156.2	12.3	100.0	1.5	61.3
CAMPBELL 6475			155.1	13.4	86.4	0.5	64.0
ASGROW RX776W			127.8	14.6	85.9	0.0	62.9
EARLY AVERAGE	172.4	155.6	174.6	12.8	98.2	1.9	60.4
LSD (0.10)	16.1	17.2	21.8	0.9	8.7	2.8	8.1
C.V.			9.1	5.1	6.5	110.4	9.8

**Table 8L. ANNUAL SUMMARY, 1998, LATE HYBRIDS
(118 Days to Maturity or Later), MAYFIELD, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 31B13			224.7*	15.4	100.0	1.0	59.8
PIONEER BRAND 31A12			196.6	14.2	100.0	1.5	59.8
TERRA SEED TR1186			194.4	16.1	100.0	0.0	58.9
GREAT LAKES 6968			191.0	15.8	100.0	1.5	60.0
GARST 8220	185.0*	157.8	187.5	16.4	100.0	2.0	57.2
CROW'S 664			186.4	14.1	100.0	0.5	57.8
HYTEST SEEDS BH4924			186.3	16.7	100.0	0.0	57.3
SO. STATES SS943	196.9*	176.0*	184.8	16.4	100.0	0.0	58.3
GARST 8221T			181.8	16.0	100.0	0.0	60.0
MYCOGEN 2888	178.6	154.4	180.2	15.2	100.0	1.0	61.0
CROW'S 702	168.1	137.0	179.4	16.0	100.0	1.0	56.1
NK BRAND N83-N5			178.5	14.8	100.0	1.5	59.8
AKIN A6725	179.5	152.8	176.5	14.7	100.0	1.0	58.9
PIONEER BRAND 3140	166.1	134.3	175.3	14.6	100.0	0.5	57.0
CAMPBELL 8000			175.1	15.0	100.0	1.5	58.4
GARST N5254		156.1	174.4	15.2	99.0	0.0	60.2
TERRA SEED TR1188			174.3	15.5	100.0	0.5	59.6
CROW'S 691			172.4	15.4	89.9	0.5	59.7
DEKALB DK687	181.7*	163.0*	170.3	15.0	98.5	0.0	58.2
GLICK GH828			165.1	16.2	91.4	2.0	59.4
B73 X PA91	153.6	134.3	163.8	15.5	93.4	2.1	59.3
ASGROW 921W		148.9	163.0	15.8	100.0	0.0	61.3
TERRA SEED TR1185			161.2	14.9	100.0	0.5	58.4
WILSON SEEDS 5307			157.5	16.3	100.0	0.0	58.4
SO. STATES SS897			148.1	15.5	92.4	0.0	58.2
LATE AVERAGE	176.2	151.5	177.9	15.5	98.6	0.7	58.9
LSD (0.10)	15.5	16.0	17.9	0.8	6.2	1.7	1.4
C.V.			7.3	3.9	4.6	166.1	1.8

**Table 8M. ANNUAL SUMMARY, 1998, MEDIUM HYBRIDS
(113-117 Days to Maturity), MAYFIELD, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 3335	208.5*	175.2*	201.7*	14.1	100.0	2.5	62.5
ZIMMERMAN Z37	182.6	169.6*	196.2*	14.7	99.0	2.1	61.7
DEKALB DK658	193.3*	168.8*	194.8*	13.0	100.0	0.5	61.9
PIONEER BRAND 32K61		174.2*	194.5*	14.4	99.0	1.0	64.5
CALLAHAN C7772			190.7*	14.2	100.0	1.5	62.4
GOLDEN HARVEST H-2636	163.7	153.8	189.8*	13.7	94.4	0.6	60.4
PFISTER 3810			189.0*	13.3	100.0	2.5	60.7
CAVERNDALE CF835	184.1	158.7*	187.6*	13.7	100.0	0.5	64.4
DEKALB DK679		173.8*	186.2*	15.1	100.0	0.0	62.5
CAVERNDALE CF940		166.6*	184.6*	13.7	100.0	1.0	61.4
SO. STATES SS769Bt			183.7*	14.7	100.0	0.0	62.1
PIONEER BRAND 32H39W		155.6	183.2*	14.5	100.0	0.0	63.0
NK BRAND 7639Bt	169.1	161.9*	182.1*	14.6	100.0	0.0	62.8
TERRA SEED TR1157	172.4	147.5	182.0*	13.8	100.0	0.0	60.1
WILSON 1851W			181.7*	15.5	100.0	1.5	60.3
NK BRAND N79-L3			181.2*	14.7	100.0	1.0	63.9
AKIN A6590		141.5	181.0*	13.7	97.5	0.5	60.9
PIONEER BRAND 33A14(Bt)		166.5*	180.3*	13.0	100.0	0.0	61.0
BECK'S 6580			179.5*	13.1	99.0	2.5	62.0
ZIMMERMAN Z75W			179.4*	13.9	100.0	0.5	60.9
GATEWAY 1157			178.8*	14.9	98.5	0.5	61.4
AGVENTURE A.V.977		151.1	178.8*	14.9	100.0	1.5	63.0
SO. STATES SS7971T		149.9	177.7*	14.0	100.0	1.5	63.1
HYTEST SEEDS BH4748			177.3	13.5	100.0	1.5	60.4
COLBERT FARMS 330		164.5*	176.8	14.8	90.9	1.4	63.1
SO. STATES SS828		149.5	175.2	12.8	100.0	2.0	58.7
TERRA SEED TR1154	184.4	171.3*	174.4	12.5	100.0	0.5	60.5
ZIMMERMAN Z39		152.8	174.1	13.9	99.0	1.0	61.8
L.G. SEEDS LG2726	167.4	146.0	173.6	14.9	100.0	1.0	61.6
MYCOGEN 28321MI			172.6	13.6	92.9	2.0	60.7
BECK'S 8280	168.9	147.1	171.7	14.4	100.0	0.5	61.8
AGRATECH ATX770	175.0	148.2	170.5	14.1	100.0	0.5	60.3
TERRA SEED TR1167	173.3	150.6	170.4	13.3	96.5	1.6	61.5
PIONEER BRAND 33Y09(Bt)		160.3*	167.5	13.8	87.4	0.0	62.6
NK BRAND N73-Q3		156.6	167.2	12.6	100.0	2.0	61.4
CALLAHAN C7762	172.8	147.3	166.5	13.5	97.0	0.6	61.5
GOLDEN HARVEST H-2622	177.4	156.5	166.3	14.2	94.9	0.5	62.5
PFISTER 3977		149.1	166.1	14.5	100.0	3.0	61.2
CROW'S 668	170.4	154.6	166.0	13.7	96.5	0.5	61.3
AKIN A6530W			165.0	14.4	100.0	2.5	62.1
ZIMMERMAN Z74W			163.6	15.1	100.0	2.0	63.8
AGRATECH ATX757			162.9	14.3	96.5	2.1	64.0
WILSON 1792			160.4	14.8	98.5	0.0	61.8
CAVERNDALE CF885			159.7	13.7	100.0	0.0	60.9
EXSEGEN ES617		138.3	159.0	16.0	100.0	0.5	63.3
AKIN A6490			158.6	12.9	100.0	3.5	64.6
EXSEGEN ES241W			158.4	14.8	100.0	2.5	62.0
AGRATECH ATX725			158.2	14.2	100.0	0.5	63.0
CAMPBELL 7650			157.5	14.4	90.9	1.4	60.1
WILSON SEEDS 1790W		136.5	156.4	14.5	100.0	0.0	61.5
CAVERNDALE CF820W			155.1	14.7	92.9	0.0	62.6
WILSON SEEDS 1780W		151.6	154.5	15.3	100.0	1.5	61.0
ZIMMERMAN Z62W	153.2	130.8	153.7	14.1	100.0	0.0	60.3
FR27 X M017	169.8	143.9	153.5	13.6	100.0	0.5	59.9
GREAT LAKES 6631		149.4	152.8	13.5	97.5	1.1	61.0
ZIMMERMAN Z64W	147.7	124.5	148.5	16.0	97.5	1.0	60.2
GLICK GH79A			148.0	14.0	97.0	2.1	60.2
ASGROW RX810			147.7	13.5	94.9	2.2	62.7
GOLDEN HARVEST H-2581		132.3	143.3	13.5	97.5	1.1	60.6
L.G. SEEDS LG2705	166.8	143.2	140.1	14.0	95.5	2.1	62.9
BALDRIDGE BH-567			114.5	12.7	93.9	1.1	64.6
MEDIUM AVERAGE	173.7	153.1	170.2	14.0	97.9	1.1	61.8
LSD (0.10)	16.5	17.9	24.0	1.2	3.9	0.9	0.6
C.V.			10.4	3.9	5.3	142.5	2.2

* 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 9E. ANNUAL SUMMARY, 1998, EARLY HYBRIDS
(112 Days to Maturity or Earlier), PRINCETON, KY.**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 33V08(Bt)		183.4*	195.6*	13.2	100.0	1.5	61.7
DEKALB DK618BTX			177.4	12.9	100.0	0.5	60.4
PIONEER BRAND 33G26			173.3	13.1	85.4	3.8	61.6
PIONEER BRAND 33Y18		171.8*	173.0	14.0	100.0	3.0	62.5
CALLAHAN C7557	146.0*	154.7	171.9	13.2	100.0	3.5	58.2
TERRA SEED TR1106			168.2	12.9	100.0	2.0	58.3
AKIN A6460		150.1	167.5	12.7	100.0	3.5	59.0
MYCOGEN 2725			166.4	13.2	100.0	3.0	60.5
DEKALB DK626BTX			165.0	12.3	100.0	3.0	60.0
CROW'S 496	159.8*	163.7	164.3	13.3	100.0	2.0	59.1
TERRA SEED TR1088			164.1	12.6	100.0	1.5	58.1
BECK'S 5912W		166.2	163.8	13.5	100.0	3.5	61.4
BECK'S 6205	161.2*	159.5	161.7	12.7	100.0	2.5	58.6
L.G. SEEDS LG2587			160.2	13.5	100.0	2.0	61.9
GOLDEN HARVEST H-2547		151.5	159.5	12.9	100.0	3.0	59.8
CAMPBELL 6475			159.5	13.6	96.5	2.1	63.1
HYTEST SEEDS HT7712			158.8	14.0	100.0	4.0	60.9
CAMPBELL 7250			157.9	12.6	100.0	4.5	58.9
ZIMMERMAN Z42			156.2	13.7	100.0	3.0	59.9
HYTEST SEEDS BH4612			153.8	12.7	100.0	3.5	59.7
DEKALB DK635			153.2	11.8	100.0	4.5	58.8
COLBERT FARMS 240			151.3	12.0	100.0	1.5	56.7
GOLDEN HARVEST H-2552			150.1	12.2	100.0	5.1	58.2
ASGROW RX740			149.9	13.5	100.0	3.0	61.5
GARST 8464			149.3	13.0	100.0	3.5	61.0
ASGROW RX730			145.4	12.7	96.5	2.1	59.1
NK BRAND N63-G7			144.9	12.5	98.0	3.1	59.4
GATEWAY 1117			144.6	12.9	100.0	3.5	59.4
COLBERT FARMS 220	127.7	134.2	143.3	12.2	100.0	4.5	57.3
ASGROW RX770			143.2	12.8	100.0	1.0	60.7
SO. STATES SS598IT			142.3	13.3	100.0	0.5	61.4
CAVERNDALE CF790A			141.2	12.0	100.0	2.0	58.2
ASGROW RX776W			139.2	15.0	100.0	1.0	62.1
AGVENTURE A.V.845		149.3	133.4	12.8	85.4	3.8	59.6
FR1064 X FR450	129.7	129.4	130.4	13.1	100.0	4.0	61.8
EARLY AVERAGE	144.9	155.8	156.6	13.0	98.9	2.8	60.0
LSD (0.10)	16.5	15.0	16.9	0.5	8.1	2.4	1.4
C.V.			7.9	3.0	6.1	63.4	1.7

**Table 9L. ANNUAL SUMMARY, 1998, LATE HYBRIDS
(118 Days to Maturity or Later), PRINCETON, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 31B13			194.1*	14.8	97.5	1.6	60.8
AKIN A6725	172.0*	162.9*	178.0*	15.2	100.0	0.5	60.5
CROW'S 664			160.0	13.6	100.0	1.5	59.2
PIONEER BRAND 31A12			159.6	14.5	100.0	2.5	60.5
GREAT LAKES 6968			159.2	15.9	100.0	3.0	61.5
DEKALB DK687	166.4*	161.2*	150.8	14.7	97.5	2.6	58.9
GLICK GH828			157.9	15.4	100.0	2.5	61.6
CROW'S 691			156.8	14.6	100.0	3.0	62.8
MYCOGEN 2888	157.0*	147.6*	159.0	14.8	100.0	2.0	61.4
ASGROW 921W		149.3*	138.6	15.6	97.5	1.1	62.4
NK BRAND N83-N5			152.4	14.9	100.0	2.0	60.3
TERRA SEED TR1186			152.2	15.4	100.0	2.0	60.4
CROW'S 702	150.9	147.6*	144.7	16.0	100.0	2.5	57.3
CAMPBELL 8000			150.8	13.6	97.5	3.7	60.8
TERRA SEED TR1188			148.9	15.2	100.0	2.5	60.6
GARST N5254		147.6*	154.7	14.9	100.0	3.0	60.8
PIONEER BRAND 3140	150.2	143.2	148.6	14.9	97.5	3.1	59.5
WILSON SEEDS 5307			144.0	15.9	100.0	2.5	61.5
GARST 8220	149.0	155.9*	154.1	15.8	100.0	2.5	56.1
SO. STATES SS897			142.8	15.0	100.0	2.0	58.6
SO. STATES SS943	143.2	146.5	138.0	15.6	97.5	2.1	57.7
B73 X PA91	137.4	138.2	144.0	14.2	100.0	2.5	59.7
GARST 822IT			137.4	15.3	100.0	4.0	62.5
TERRA SEED TR1185			136.0	15.2	97.5	1.6	58.6
HYTEST SEEDS BH4924			133.7	15.6	100.0	2.5	57.1
LATE AVERAGE	153.2	149.9	151.8	15.1	99.3	2.4	60.0
LSD (0.10)	16.7	15.3	18.2	0.7	3.1	2.1	1.4
C.V.			8.8	3.6	2.3	65.8	1.8

**Table 9M. ANNUAL SUMMARY, 1998, MEDIUM HYBRIDS
(113-117 Days to Maturity), PRINCETON, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 33A14(Bt)		171.6*	195.6*	12.9	100.0	1.0	61.7
BECK'S 8280	147.6	157.2*	179.1*	14.4	100.0	2.0	60.6
ZIMMERMAN Z37	148.0	162.2*	175.9	15.0	100.0	2.0	62.1
WILSON 1851W			174.6	14.6	100.0	2.0	59.2
L.G. SEEDS LG2726	172.7*	161.7*	173.6	14.2	100.0	2.0	61.1
HYTEST SEEDS BH4748			171.9	13.0	100.0	2.0	59.2
TERRA SEED TR1157	175.2*	166.4*	171.3	12.8	100.0	1.0	59.0
AGVENTURE A.V.977		159.8*	170.4	14.5	100.0	2.5	61.5
GATEWAY 1157			170.2	13.0	100.0	1.0	61.3
NK BRAND N79-L3			169.2	14.5	100.0	0.5	65.5
PIONEER BRAND 33Y09(Bt)		157.9*	168.4	13.1	100.0	2.0	60.9
ZIMMERMAN Z39		158.8*	166.9	12.1	100.0	2.0	58.6
PFISTER 3977		162.2*	166.5	13.4	100.0	2.0	58.5
COLBERT FARMS 330		156.0	166.4	14.0	100.0	1.5	61.6
PFISTER 3810			166.1	13.2	97.0	1.6	60.9
CAMPBELL 7650			164.2	13.2	100.0	2.5	58.3
SO. STATES SS769Bt			161.2	14.0	98.0	0.0	61.3
WILSON 1792			160.1	13.9	100.0	1.5	60.9
TERRA SEED TR1167	146.9	148.7	160.1	13.6	100.0	3.0	59.4
BECK'S 6580			159.9	10.5	88.9	2.8	60.1
CROW'S 668	151.0	155.5	158.5	13.5	97.5	0.0	60.5
GLICK GH79A			158.4	13.3	100.0	2.5	59.4
PIONEER BRAND 3335	157.8	162.1*	157.8	13.2	100.0	3.5	61.0
GREAT LAKES 6631			155.0	15.3	100.0	2.0	58.8
SO. STATES SS828		170.2*	156.8	12.3	100.0	1.0	57.8
WILSON SEEDS 1780W		165.9*	156.3	13.7	100.0	1.5	59.8
ZIMMERMAN Z62W	152.7	148.4	156.3	14.3	96.0	2.1	60.7
DEKALB DK679		158.6*	156.1	14.1	100.0	2.0	61.0
PIONEER BRAND 32H39W		152.3	154.3	14.5	100.0	1.5	63.8
DEKALB DK658	152.6	157.2*	154.3	10.8	100.0	1.5	60.4
PIONEER BRAND 32K61		161.8*	154.1	14.1	100.0	1.0	63.5
ZIMMERMAN Z64W	141.3	144.3	153.8	14.7	100.0	1.5	59.5
CAVERDALE CF940		160.6*	153.2	13.1	100.0	1.5	59.7
MYCOGEN 2832IMI			153.1	12.9	100.0	3.0	59.6
AGRATECH ATX757			152.8	13.7	100.0	1.5	62.2
SO. STATES SS7971T		144.3	152.8	13.6	97.5	3.2	60.6
NK BRAND 7639Bt	159.1*	149.8	152.6	14.3	100.0	0.5	62.2
TERRA SEED TR1154	155.5	157.3*	151.9	12.2	100.0	1.0	59.0
FR27 X M017	144.1	145.5	151.8	11.8	100.0	1.5	58.6
GOLDEN HARVEST H-2622	155.1	141.5	151.7	13.8	100.0	2.0	62.1
EXSEGEN ES241W			151.3	13.9	93.9	1.0	60.2
AKIN A6530W			149.9	13.8	100.0	0.0	61.1
CALLAHAN C7772			149.2	14.0	100.0	3.0	63.7
ASGROW RX810			149.1	13.2	99.5	2.5	60.1
CAVERNDALE CF835	146.1	149.6	148.0	12.3	97.0	5.2	58.4
GOLDEN HARVEST H-2636	159.6*	167.8*	147.0	13.5	96.5	4.6	59.9
GOLDEN HARVEST H-2581		153.0	146.1	13.3	93.9	0.5	59.5
NK BRAND N73-Q3		148.1	145.0	12.6	100.0	1.5	59.9
CAVERNDALE CF820W			144.6	13.3	100.0	1.0	60.2
AGRATECH ATX770	149.5	152.9	144.5	13.4	99.0	1.5	59.2
ZIMMERMAN Z74W			144.5	14.0	100.0	2.0	62.4
EXSEGEN ES617		156.7*	143.9	14.8	99.0	2.6	60.5
CALLAHAN C7762	135.3	140.2	143.8	12.5	97.0	1.1	57.3
AKIN A6590		147.0	142.7	12.4	98.0	3.6	60.4
L.G. SEEDS LG2705	160.9*	149.1	142.1	13.4	100.0	1.5	60.0
CAVERNDALE CF885			139.7	12.4	100.0	3.0	61.2
WILSON SEEDS 1790W		138.0	134.7	13.5	100.0	1.0	59.6
ZIMMERMAN Z75W			132.5	12.7	100.0	1.0	60.4
AKIN A6490			130.4	13.1	100.0	2.5	62.3
AGRATECH ATX725			106.6	13.4	100.0	1.5	62.2
BALDRIDGE BH-567			93.9	12.6	90.4	5.1	61.0
MEDIUM AVERAGE	153.2	155.1	154.5	13.3	98.9	1.8	60.5
LSD (0.10)	16.5	15.0	17.0	0.9	5.0	2.0	1.3
C.V.			8.1	5.1	3.8	81.8	1.6

* 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 10E. ANNUAL SUMMARY, 1998, EARLY HYBRIDS
(112 Days to Maturity or Earlier), HARTFORD, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
BECK'S 6205	169.7*	162.8*	196.2*	16.1	100.0	6.1	59.2
CAMPBELL 7250			193.3*	15.3	100.0	6.1	58.6
AGVENTURE A.V.845		160.6*	192.2*	16.1	100.0	1.0	57.5
CAVERNDALE CF790A			192.2*	14.8	100.0	4.5	57.2
DEKALB DK626BTX			191.9*	14.6	100.0	1.5	60.8
GOLDEN HARVEST H-2552			189.8*	14.1	97.5	3.3	57.7
PIONEER BRAND 33V08(Bt)		157.5*	187.0*	14.6	100.0	5.6	61.2
DEKALB DK635			186.0*	15.2	97.0	0.5	60.2
MYCOGEN 2725			185.6*	15.0	100.0	2.5	60.2
TERRA SEED TR1106			183.1*	16.2	100.0	4.5	58.0
NK BRAND N63-G7			182.4*	14.2	98.0	3.5	60.2
HYTEST SEEDS HT7712			181.4*	17.0	100.0	5.1	61.7
CALLAHAN C7557	155.0*	148.8*	180.3*	14.8	100.0	3.0	58.2
TERRA SEED TR1088			179.7*	14.8	100.0	1.0	57.5
PIONEER BRAND 33G26			179.6*	15.0	99.0	4.0	60.7
COLBERT FARMS 220	150.9	147.7*	179.0*	14.5	100.0	3.0	58.1
GATEWAY 1117			178.8*	14.9	100.0	1.5	59.1
COLBERT FARMS 240			178.3*	14.2	100.0	4.0	58.1
HYTEST SEEDS BH4612			177.6*	15.1	100.0	3.5	61.3
PIONEER BRAND 33Y18		155.4*	177.0*	15.1	100.0	4.5	62.8
DEKALB DK618BTX			173.6*	15.0	100.0	3.5	61.0
ZIMMERMAN Z42			171.9*	15.8	100.0	1.0	62.2
ASGROW RX730			170.5	15.1	100.0	3.0	60.4
ASGROW RX770			168.9	15.3	100.0	1.0	59.8
CROW'S 496	158.1*	146.7*	168.7	15.3	100.0	3.5	59.5
AKIN A6460		143.9	166.7	16.2	98.0	1.6	58.1
GOLDEN HARVEST H-2547		149.3*	165.4	14.8	100.0	2.0	59.6
L.G. SEEDS LG2587			165.4	15.1	100.0	3.0	61.9
GARST 8464			160.0	15.7	100.0	7.6	58.7
CAMPBELL 6475			158.8	14.2	100.0	6.1	60.7
BECK'S 5912W		144.9	158.3	15.3	100.0	0.0	61.8
ASGROW RX740			151.4	14.9	100.0	4.5	62.6
ASGROW RX776W			147.6	16.5	100.0	1.5	60.1
FR1064 X FR450	137.0	130.6	147.2	14.5	100.0	7.1	59.6
SO. STATES SS598IT			146.8	14.6	99.0	7.2	61.1
EARLY AVERAGE	153.8	149.6	174.6	15.1	99.7	3.5	59.9
LSD (0.10)	17.7	16.9	24.9	0.7	2.0	5.8	1.6
C.V.			10.5	3.5	1.5	122.8	1.9

**Table 10L. ANNUAL SUMMARY, 1998, LATE HYBRIDS
(118 Days to Maturity or Later), HARTFORD, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
AKIN A6725	163.0*	148.3*	172.3*	16.6	100.0	8.6	61.9
TERRA SEED TR1188			170.1*	17.4	100.0	7.6	60.0
HYTEST SEEDS BH4924			166.8*	17.7	100.0	6.1	57.0
CROW'S 664			166.4*	16.7	100.0	12.1	58.2
GARST 822IT			166.1*	17.3	100.0	3.0	60.3
DEKALB 687	152.1*	146.4*	163.0*	17.5	100.0	4.0	58.6
GARST 8220	164.9*	146.9*	162.2*	17.2	99.0	3.1	56.4
SO. STATES SS897			161.3*	17.4	100.0	8.1	59.5
PIONEER BRAND 31A12			159.2*	16.2	100.0	14.1	59.6
NK BRAND N83-N5			158.1*	16.8	100.0	13.6	60.2
CROW'S 691			158.0*	16.5	99.5	11.2	60.9
CAMPBELL 8000			155.7*	16.5	100.0	8.6	60.5
ASGROW 921W		147.9*	154.4*	18.3	100.0	3.5	61.9
GLICK GH828			154.1*	16.8	100.0	9.1	61.0
WILSON SEEDS 5307			153.4*	19.5	100.0	16.2	59.9
GREAT LAKES 6968			152.2*	15.3	100.0	17.2	59.4
MYCOGEN 2888	162.8*	136.3*	147.0*	14.9	100.0	13.1	59.2
GARST N5254		134.0*	146.8*	16.5	100.0	14.6	59.3
PIONEER BRAND 31B13			145.9*	16.2	100.0	22.7	60.4
TERRA SEED TR1186			141.5*	17.2	100.0	4.5	59.9
SO. STATES SS943	154.2*	140.1*	141.3*	16.2	100.0	7.6	57.3
PIONEER BRAND 3140	159.7*	135.2*	141.1*	16.8	100.0	6.1	57.7
CROW'S 702	164.4*	138.6*	137.1	18.2	100.0	6.1	56.2
TERRA SEED TR1185			127.9	16.1	100.0	17.2	56.8
B73 X PA91	136.2	115.5	119.6	17.6	100.0	17.2	56.3
LATE AVERAGE	157.2	138.9	152.9	16.9	99.9	10.2	59.1
LSD (0.10)	19.0	20.0	32.9	1.2	0.9	7.5	2.4
C.V.			15.7	5.1	0.6	53.5	2.9

**Table 10M. ANNUAL SUMMARY, 1998, MEDIUM HYBRIDS
(113-117 Days to Maturity), HARTFORD, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
DEKALB DK658	164.9*	156.0*	189.3*	16.1	100.0	2.5	58.9
AGRATECH ATX770	165.9*	157.2*	178.3*	16.2	100.0	8.6	58.2
GATEWAY 1157			172.6*	16.8	100.0	11.6	60.9
CALLAHAN C7762	165.8*	160.2*	170.4*	16.0	98.0	7.7	53.5
GLICK GH79A			167.1*	16.8	100.0	5.1	58.0
MYCOGEN 2832IMI			165.0*	14.5	100.0	0.5	57.4
TERRA SEED TR1157	142.5	140.1	164.3*	17.0	100.0	5.6	40.3
GOLDEN HARVEST H-2622	157.8*	146.4*	161.2*	16.9	100.0	4.0	58.8
EXSEGEN ES617		147.2*	160.0*	16.9	100.0	4.0	58.8
CAMPBELL 7650			159.3*	14.3	100.0	4.5	55.2
SO. STATES SS828		159.1*	159.0*	15.4	98.5	2.1	56.7
PFISTER 3977		149.6*	157.2*	17.0	100.0	4.0	56.2
AKIN A6590		140.4*	157.1*	15.8	100.0	11.1	56.9
L.G. SEEDS LG2726	153.3*	139.6	156.8*	16.3	100.0	8.6	58.7
PIONEER BRAND 32K61		141.8*	156.4	16.4	100.0	17.2	61.0
TERRA SEED TR1154	149.9*	139.5	155.7	14.2	100.0	5.6	56.6
FR27 X M017	155.3*	152.0*	155.5	15.1	100.0	4.0	55.3
WILSON SEEDS 1780W		131.4	152.6	16.9	100.0	4.0	56.5
WILSON 1792			151.8	16.5	100.0	5.6	54.0
AGRATECH ATX757			151.1	15.9	100.0	6.1	60.0
ASGROW RX810			150.5	15.8	100.0	5.1	57.1
AKIN A6530W			149.9	16.3	97.0	7.2	60.6
NK BRAND 7639Bt	151.4*	138.3	148.6	15.6	100.0	4.0	61.1
NK BRAND N79-L3			147.8	16.3	100.0	5.6	61.0
WILSON SEEDS 1790W		130.4	146.0	16.5	100.0	13.6	59.3
BECK'S 8280	152.7*	124.6	145.9	16.3	100.0	3.5	58.8
CALLAHAN C7772			145.7	16.9	100.0	10.6	59.1
ZIMMERMAN Z62W	161.3*	139.8	145.5	15.9	100.0	6.1	59.0
DEKALB DK679		132.3	142.6	15.9	100.0	7.6	59.9
ZIMMERMAN Z75W			141.4	15.5	99.0	1.5	57.9
BECK'S 6580			141.3	15.4	100.0	14.6	58.0
HYTEST SEEDS BH4748			140.7	16.3	100.0	4.5	58.3
AGVENTURE A.V.977		133.3	140.5	16.2	100.0	8.1	62.0
GOLDEN HARVEST H-2636	137.6	128.8	137.7	16.1	100.0	9.1	55.2
GREAT LAKES 6631		134.2	137.2	16.6	100.0	4.0	59.7
TERRA SEED TR1167	139.3	128.4	135.7	16.5	100.0	7.1	58.0
CROW'S 668	141.6	128.5	134.9	16.9	100.0	9.1	59.2
CAVERNDALE CF835	143.2	129.9	134.7	14.7	100.0	3.5	57.2
CAVERNDALE CF940		123.7	134.0	15.4	100.0	9.6	58.9
SO. STATES SS797IT		148.7*	133.3	16.3	100.0	4.5	58.0
WILSON 1851W			133.3	17.0	100.0	16.2	57.8
COLBERT FARMS 330		131.3	133.1	15.7	100.0	5.6	59.2
SO. STATES SS769Bt			132.5	16.8	100.0	12.1	56.6
PFISTER 3810			131.7	14.8	100.0	6.6	56.8
EXSEGEN ES241W			130.3	18.1	100.0	11.1	55.4
GOLDEN HARVEST H-2581		118.0	130.0	15.2	100.0	10.1	57.2
ZIMMERMAN Z37	137.1	122.9	129.4	16.7	100.0	18.7	58.9
AKIN A6490			126.4	15.1	100.0	5.6	59.3
PIONEER BRAND 32H39W		113.1	126.2	15.6	100.0	6.1	58.2
ZIMMERMAN Z64W	154.1*	121.8	126.1	16.0	100.0	4.0	52.3
ZIMMERMAN Z39		120.6	126.1	16.6	98.5	6.8	57.4
PIONEER BRAND 33Y09(Bt)		128.3	125.1	15.2	100.0	9.1	55.2
NK BRAND N73-Q3		123.1	124.9	14.9	100.0	8.1	57.3
AGRATECH ATX725			124.8	13.6	98.5	6.2	51.0
PIONEER BRAND 33A14(Bt)		126.4	123.5	15.0	100.0	7.6	58.2
CAVERNDALE CF885			120.8	16.2	100.0	7.6	59.1
L.G. SEEDS LG2705	135.0	118.6	119.9	17.3	99.0	4.6	59.7
CAVERNDALE CF820W			116.9	15.2	100.0	5.6	58.9
ZIMMERMAN Z74W			114.5	15.6	100.0	4.0	58.2
BALDRIDGE BH-567			109.6	11.5	100.0	4.5	46.2
PIONEER BRAND 3335	135.8	116.7	104.2	13.8	100.0	14.1	55.0
MEDIUM AVERAGE	148.9	133.8	143.5	15.9	99.8	7.1	57.4
LSD (0.10)	19.0	19.9	32.5	1.8	1.4	7.9	8.2
C.V.			16.7	8.4	1.0	81.9	10.6

* 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 11E. ANNUAL SUMMARY, 1998, EARLY HYBRIDS
(112 Days to Maturity or Earlier), FRANKLIN, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 33G26			178.2*	13.5	98.5	0.0	62.5
CAMPBELL 7250			168.6*	13.5	100.0	0.0	60.7
DEKALB DK635			163.7*	12.3	100.0	0.0	59.4
L.G. SEEDS LG2587			162.4*	15.0	100.0	0.0	62.6
DEKALB DK618BTX			159.8*	13.6	100.0	0.5	62.1
ZIMMERMAN Z42			157.9*	13.7	100.0	0.0	61.6
ASGROW RX740			157.1*	13.9	86.9	0.8	63.4
AGVENTURE A.V.845		163.5*	155.2*	13.7	97.0	0.0	59.1
HYTEST SEEDS HT7712			150.3*	13.7	93.9	0.0	66.6
AKIN A6460		162.7*	149.7*	13.1	98.0	0.5	59.7
BECK'S 6205	166.3*	167.4*	146.3	13.6	100.0	0.0	61.0
TERRA SEED TR1106			146.3	13.5	100.0	0.0	59.0
BECK'S 5912W		174.5*	145.3	14.8	99.0	0.0	62.5
GARST 8464			143.4	13.1	97.0	0.0	60.3
ASGROW RX730			142.9	13.1	100.0	0.5	60.6
PIONEER BRAND 33Y18		166.6*	139.7	14.7	100.0	0.5	63.1
PIONEER BRAND 33V08(Bt)		153.3*	138.7	13.3	100.0	0.0	62.9
GOLDEN HARVEST H-2552			138.0	12.1	100.0	0.0	59.5
GATEWAY 1117			135.0	12.8	95.5	0.0	60.3
CAVERNDALE CF790A			134.9	13.2	99.0	0.5	59.3
GOLDEN HARVEST H-2547		160.3*	132.8	13.1	100.0	0.0	60.5
HYTEST SEEDS BH4612			132.6	13.1	100.0	0.0	60.8
ASGROW RX770			132.4	13.2	100.0	0.0	62.5
CROW'S 496	155.8*	158.7*	131.9	13.5	100.0	1.0	59.3
COLBERT FARMS 240			130.8	12.3	98.5	1.1	59.0
CALLAHAN C7557	152.8*	155.8*	127.9	14.2	99.0	0.5	59.5
TERRA SEED TR1088			127.7	13.9	100.0	0.0	59.5
NK BRAND N63-G7			127.2	13.4	100.0	0.5	62.1
CAMPBELL 6475			124.8	14.2	100.0	0.5	62.7
COLBERT FARMS 220	165.1*	165.3*	123.1	13.2	96.0	0.6	59.5
DEKALB DK626BTX			118.7	12.6	100.0	0.0	61.4
ASGROW RX776W			110.6	14.9	99.0	0.0	62.4
MYCOGEN 2725			104.9	12.3	94.4	0.0	59.9
FR1064 X FR450	134.8	132.6	103.2	13.3	100.0	1.0	58.4
SO. STATES SS598IT			97.6	13.8	86.4	0.9	63.0
EARLY AVERAGE	154.9	160.1	138.3	13.5	99.6	0.2	61.0
LSD (0.10)	16.2	19.3	30.2	1.2	2.6	1.0	2.7
C.V.			16.0	6.4	1.9	289.0	3.2

**Table 11L. ANNUAL SUMMARY, 1998, LATE HYBRIDS,
(118 Days to Maturity or Later) FRANKLIN, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 31B13			183.9*	15.1	100.0	0.0	62.3
DEKALB DK687	165.3	175.2*	165.0*	15.3	99.0	1.0	61.1
AKIN A6725	163.3	177.8*	160.0*	14.9	100.0	2.5	61.7
NK BRAND N83-N5			158.3*	14.4	100.0	0.0	60.9
GREAT LAKES 6968			155.7*	15.6	100.0	0.5	63.9
SO. STATES SS943	169.3*	184.9*	155.4*	16.3	100.0	0.5	59.2
MYCOGEN 2888	169.4*	176.7*	152.9	14.9	95.5	0.0	61.9
CAMPBELL 8000			151.4	14.0	100.0	0.5	61.2
GARST N5254		169.4*	151.2	14.9	89.9	0.0	61.8
CROW'S 702	172.0*	187.0*	150.6	16.2	98.0	1.1	59.7
CROW'S 664			150.5	14.6	100.0	0.0	59.7
GARST 8220	182.6*	186.3*	150.1	15.2	96.5	0.5	58.6
CROW'S 691			144.1	14.4	90.4	0.5	61.7
TERRA SEED TR1186			139.8	15.4	98.5	1.1	61.4
TERRA SEED TR1185			137.3	16.4	96.0	2.1	59.7
ASGROW 921W		155.4	135.1	16.1	100.0	1.5	63.7
GLICK GH828			133.7	15.1	100.0	0.0	61.7
B73 X PA91	124.7	143.2	133.4	16.2	93.9	0.0	61.4
PIONEER BRAND 31A12			131.6	14.4	89.9	0.0	61.7
WILSON SEEDS 1851W			131.1	17.4	94.9	0.0	62.1
GARST 822IT			128.6	15.6	100.0	0.0	63.6
HYTEST SEEDS BH4924			128.1	15.4	98.5	1.0	57.0
PIONEER BRAND 3140	171.5*	171.4*	122.1	14.6	79.3	0.5	60.1
TERRA SEED TR1188			114.0	15.7	84.3	0.0	61.2
SO. STATES SS897			100.7	15.7	94.9	0.0	59.5
LATE AVERAGE	164.7	172.7	142.6	15.3	96.0	0.5	61.1
LSD (0.10)	16.1	19.1	29.6	1.0	14.2	1.4	2.5
C.V.			15.1	4.9	10.8	193.2	3.0

**Table 11M. ANNUAL SUMMARY, 1998, MEDIUM HYBRIDS
(113-117 Days to Maturity), FRANKLIN, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
SO. STATES SS828		209.1*	191.1*	12.4	100.0	0.5	57.8
AKIN A6590		181.4	191.1*	13.5	97.0	0.6	61.3
FR27 X M017	170.1*	189.2	187.4*	13.1	97.5	0.5	58.9
PIONEER BRAND 3335	183.6*	197.3*	185.7*	13.6	100.0	0.0	61.3
PIONEER BRAND 32H39W		175.9	184.3*	14.6	97.0	0.0	64.2
PFISTER 3810			180.1*	13.0	100.0	0.5	60.1
AGRATECH ATX757			179.3*	15.0	99.0	0.5	63.4
WILSON 1851W			178.8*	16.1	95.5	0.0	60.5
GOLDEN HARVEST H-2636	166.1	174.6	178.7*	13.3	100.0	0.0	60.7
DEKALB DK658	172.7*	187.5	178.3*	12.5	99.0	0.0	61.1
PIONEER BRAND 32K61		194.6*	177.3*	14.5	100.0	0.5	63.9
EXSEGEN ES617		188.1	177.3*	15.7	87.4	0.5	62.1
NK BRAND 7639Bt	156.6	183.0	176.6*	15.2	100.0	0.0	62.5
CAVERNDALE CF835	171.7*	181.5	172.1*	13.0	100.0	0.5	59.0
EXSEGEN ES241W			170.5*	15.2	87.9	0.0	59.6
GOLDEN HARVEST H-2581		169.0	169.1*	13.5	99.0	0.5	60.7
PIONEER BRAND 33Y09(Bt)		172.5	168.9*	14.3	98.5	0.0	61.2
CAVERNDALE CF940		170.4	168.8*	14.4	87.4	1.3	60.8
CALLAHAN C7762	173.7*	179.7	167.3*	14.2	100.0	0.5	61.0
AGRATECH ATX770	168.5*	181.9	166.0*	14.7	100.0	1.0	59.9
PFISTER 3977		182.1	165.9*	14.2	97.0	0.0	59.7
S.O. STATES SS769Bt			164.6*	15.2	90.9	0.0	61.1
HYTEST SEEDS BH4748			164.5*	13.5	100.0	1.5	60.6
WILSON 1792			164.2*	14.6	92.9	0.0	59.9
ZIMMERMAN Z37	164.9	171.4	164.2*	15.2	92.4	1.6	61.4
CAVERNDALE CF885			163.8*	14.4	100.0	0.0	61.4
DEKALB DK679		170.0	163.6	14.7	97.5	0.5	60.4
L.G. SEEDS LG2726	175.5*	177.3	162.3	14.3	100.0	0.0	63.0
COLBERT FARMS 330		169.4	162.1	14.5	100.0	0.5	60.4
ZIMMERMAN Z64W	175.2*	178.6	161.5	16.1	98.0	0.5	60.0
PIONEER BRAND 33A14(Bt)		182.6	160.5	13.5	100.0	1.0	60.9
MYCOGEN 2832IMI			160.2	13.3	99.0	0.0	61.4
CAMPBELL 7650			159.9	14.1	94.4	1.0	60.0
AKIN A6530W			159.7	14.7	100.0	0.0	63.0
AGVENTURE A.V.977		168.7	159.7	14.7	100.0	1.0	61.8
NK BRAND N73-Q3		173.6	159.1	13.3	100.0	1.5	61.3
NK BRAND N79-L3			158.6	15.3	100.0	0.5	64.2
GREAT LAKES 6631		163.0	156.8	13.6	100.0	0.0	59.0
AKIN A6490			154.9	13.9	97.0	0.5	63.0
CAVERNDALE CF820W			154.6	13.9	100.0	0.0	61.3
TERRA SEED TR1167	154.3	160.6	154.5	14.7	87.4	0.0	59.7
BECK'S 8280	177.5*	173.9	154.0	13.7	99.5	1.5	60.4
SO. STATES SS797IT		170.0	153.4	14.3	100.0	0.5	60.4
ZIMMERMAN Z75W			151.8	14.7	100.0	0.0	59.5
CALLAHAN C7772			151.1	14.9	97.5	0.0	60.7
AGRATECH ATX725			150.9	13.6	96.5	0.0	61.2
BECK'S 6580			150.4	15.8	100.0	0.0	58.7
GATEWAY 1157			149.6	14.6	100.0	0.0	61.3
ZIMMERMAN Z74W			148.3	15.8	100.0	0.5	64.4
ZIMMERMAN Z39		173.4	148.0	14.4	100.0	0.5	59.2
GOLDEN HARVEST H-2622	145.5	151.4	145.8	15.3	97.5	0.0	62.6
ASGROW RX810			145.3	13.3	100.0	0.5	58.8
GLICK GH79A			139.1	14.4	96.5	0.0	56.8
ZIMMERMAN Z62W	164.1	166.2	138.9	15.8	100.0	0.5	60.9
TERRA SEED TR1154	167.3	166.0	137.6	12.8	100.0	0.5	59.3
WILSON SEEDS 1780W		155.1	137.2	14.5	87.4	0.0	60.2
TERRA SEED TR1157	159.8	167.3	136.2	13.9	100.0	0.5	58.9
WILSON SEEDS 1790W		161.8	136.1	13.6	100.0	0.0	59.0
L.G. SEEDS LG2705	156.2	154.4	134.9	14.9	97.0	0.0	60.7
CROW'S 668	155.5	153.1	117.1	14.8	100.0	0.0	61.3
BALDRIDGE BH-567			83.0	13.8	100.0	2.0	60.7
MEDIUM AVERAGE	166.2	174.3	159.7	14.3	99.6	0.4	60.7
LSD (0.10)	15.7	18.3	27.4	1.4	3.2	1.3	1.7
C.V.			12.7	7.1	2.4	227.2	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 12E. ANNUAL SUMMARY, 1998, EARLY HYBRIDS
(112 Days to Maturity or Earlier), BARDSTOWN, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
MYCOGEN 2725			203.7*	14.7	100.0	3.0	58.8
CAMPBELL 7250			203.0*	13.7	100.0	0.5	58.7
GARST 8464			201.4*	14.5	100.0	0.0	59.5
CALLAHAN C7557	148.4	148.1*	201.1*	14.1	97.5	0.0	60.4
PIONEER BRAND 33V08(Bt)		156.5*	200.1*	12.6	100.0	0.5	60.1
NK BRAND N63-G7			199.7*	13.9	100.0	0.5	60.8
GOLDEN HARVEST H-2547		147.9*	193.3*	13.2	100.0	0.5	60.2
COLBERT FARMS 220	152.2*	145.9*	193.1*	13.1	99.0	1.0	58.4
PIONEER BRAND 33G26			191.3*	14.5	100.0	0.0	62.2
CROW'S 496	165.3*	144.4*	191.0*	14.3	100.0	0.0	59.2
AKIN A6460		134.6	189.9*	14.2	100.0	1.0	59.0
COLBERT FARMS 240			188.6*	13.1	100.0	1.5	58.8
BECK'S 5912W		142.6*	187.7*	15.5	100.0	0.0	63.3
GATEWAY 1117			186.0*	13.4	100.0	0.0	60.4
PIONEER BRAND 33Y18		154.0*	185.4*	14.1	100.0	2.0	63.0
TERRA SEED TR1106			185.2*	13.3	100.0	0.5	58.4
HYTEST SEEDS HT7712			185.2*	14.9	94.9	2.7	60.9
DEKALB DK626BTX			184.3*	13.3	100.0	0.5	59.9
CAMPBELL 6475			183.8*	14.2	100.0	2.0	62.1
GOLDEN HARVEST H-2552			179.9*	12.4	100.0	2.0	57.9
ASGROW RX730			178.7*	14.0	96.0	0.0	60.4
ZIMMERMAN Z42			178.2*	14.8	100.0	0.5	60.5
BECK'S 6205	172.5*	142.1*	176.8	14.1	100.0	0.0	58.8
CAVERDALE CF790A			175.6	13.7	98.0	0.5	57.4
AGVENTURE A.V.845		135.3	172.4	13.7	100.0	0.5	58.1
L.G. SEEDS LG2587			171.2	14.3	100.0	1.0	61.7
ASGROW RX770			171.0	14.3	100.0	0.0	59.2
TERRA SEED TR1088			170.9	11.9	100.0	0.0	56.8
SO. STATES SS5981T			164.5	14.3	100.0	0.0	62.3
HYTEST SEEDS BH4612			161.8	14.4	87.9	0.8	59.7
ASGROW RX776W			159.4	15.3	100.0	1.0	61.9
DEKALB DK618BTX			158.9	14.1	94.9	0.5	61.2
DEKALB DK635			157.5	13.4	100.0	2.5	60.2
FR1064 X FR450	140.5	131.4	156.6	14.0	100.0	0.5	59.5
ASGROW RX740			154.0	14.6	100.0	2.0	63.0
EARLY AVERAGE	155.8	143.9	181.2	13.9	99.1	0.8	60.1
LSD (0.10)	21.3	17.0	25.8	0.9	5.8	1.9	1.7
C.V.			10.5	5.0	4.3	176.6	2.1

**Table 12L. ANNUAL SUMMARY, 1998, LATE HYBRIDS
(118 Days to Maturity or Later), BARDSTOWN, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
NK BRAND N83-N5			187.9*	14.0	84.8	0.5	60.3
MYCOGEN 2888	170.3*	134.2*	182.6*	14.0	100.0	0.5	62.1
GLICK GH828			175.1*	14.7	83.3	0.0	61.2
GREAT LAKES 6968			174.2*	14.0	100.0	0.5	61.5
DEKALB DK687	154.2*	129.5*	172.7*	12.8	100.0	0.5	60.5
AKIN A6725	149.1	128.6*	171.6*	14.2	100.0	0.0	61.9
CROW'S 664			168.9*	12.4	100.0	0.0	57.1
PIONEER BRAND 31A12			166.0	12.6	100.0	1.0	60.1
GARST 8220	140.7	134.4*	164.4	13.5	84.3	0.0	56.5
PIONEER BRAND 31B13			164.2	12.8	100.0	3.5	60.7
CROW'S 702	134.6	132.1*	163.9	13.1	100.0	0.5	56.6
SO. STATES SS943	142.9	122.3*	162.8	14.1	100.0	0.5	58.1
ASGROW 921W		130.5*	160.3	14.6	100.0	0.0	62.6
GARST N5254		136.3*	158.6	13.5	97.5	0.5	61.1
HYTEST SEEDS BH4924			155.4	12.6	100.0	2.5	56.7
CROW'S 691			154.7	13.9	100.0	1.0	61.9
CAMPBELL 8000			152.7	13.4	100.0	0.0	59.9
PIONEER BRAND 3140	145.6	129.6*	150.8	12.6	100.0	0.0	58.1
SO. STATES SS897			148.6	13.5	94.4	0.0	58.4
TERRA SEED TR1188			147.7	14.5	100.0	0.5	59.3
GARST 8221T			144.4	14.9	85.9	0.5	64.0
TERRA SEED TR1186			144.1	13.8	99.0	0.5	59.8
TERRA SEED TR1185			143.6	14.4	100.0	3.0	59.2
B73 X PA91	138.6	103.2	131.3	13.6	100.0	1.5	58.6
WILSON SEEDS 5307			126.7	15.6	100.0	0.5	59.6
LATE AVERAGE	147.0	128.1	158.9	13.7	97.2	0.7	59.8
LSD (0.10)	20.7	15.1	20.4	1.1	14.8	1.5	1.7
C.V.			9.4	5.9	11.1	150.2	2.1

**Table 12M. ANNUAL SUMMARY, 1998, MEDIUM HYBRIDS
(113-117 Days to Maturity), BARDSTOWN, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
BECK'S 8280	177.8*	165.1*	210.4*	14.6	100.0	2.0	62.9
CAVERNDALE CF835	143.5	145.4	192.4*	12.5	100.0	1.0	57.4
CAMPBELL 7650			188.6*	13.7	100.0	1.0	59.2
DEKALB DK679		148.2	188.3*	14.2	100.0	1.0	62.2
ZIMMERMAN Z39		136.0	185.7	13.9	100.0	0.5	58.8
TERRA SEED TR1157	142.7	135.9	183.1	13.3	100.0	1.0	58.8
PIONEER BRAND 32K61		135.9	180.7	14.0	100.0	0.0	62.1
GOLDEN HARVEST H-2636	140.9	139.9	180.1	13.2	100.0	2.5	61.4
SO. STATES SS828		148.3	179.9	13.6	100.0	0.0	57.1
PIONEER BRAND 33A14(Bt)		155.7*	179.6	13.6	100.0	0.0	61.6
GATEWAY 1157			178.0	14.1	100.0	1.0	61.6
FR27 X M017	145.4	131.7	178.0	13.4	100.0	0.5	59.0
COLBERT FARMS 330		137.9	176.6	14.1	100.0	0.5	57.0
NK BRAND N73-Q3		139.2	176.4	12.4	100.0	0.5	59.2
CALLAHAN C7762	133.9	124.7	176.3	12.2	100.0	0.5	58.4
GLICK GH79A			174.8	13.2	100.0	0.5	59.7
EXSEGEN ES617		153.7*	174.3	14.3	100.0	0.5	61.2
AGVENTURE A.V.977		128.6	171.6	15.0	100.0	1.0	60.9
PIONEER BRAND 3335	145.9	148.2	171.1	13.1	100.0	1.0	61.0
AGRATECH ATX770	116.4	117.8	169.4	13.3	100.0	0.5	58.3
AKIN A6590		137.1	168.9	13.1	100.0	2.0	58.4
GREAT LAKES 6631		127.3	166.9	13.4	100.0	0.5	59.4
PIONEER BRAND 32H39W		125.1	166.7	14.2	100.0	1.0	63.1
PIONEER BRAND 33Y09(Bt)		144.1	166.5	13.6	100.0	0.0	61.0
CAVERNDALE CF885			165.7	11.7	100.0	0.0	59.3
ZIMMERMAN Z37	161.1*	140.4	165.4	14.9	96.5	0.5	61.4
TERRA SEED TR1167	159.9*	123.6	165.0	14.2	100.0	0.5	59.5
CAVERNDALE CF820W			164.5	13.0	100.0	0.5	60.6
GOLDEN HARVEST H-2622	147.9	120.6	163.8	14.1	100.0	1.0	61.7
TERRA SEED TR1154	138.9	119.8	163.6	12.1	100.0	0.5	59.4
HYTEST SEEDS BH4748			163.5	13.8	100.0	1.0	58.9
BECK'S 6580			163.5	13.0	100.0	1.0	60.0
ZIMMERMAN Z64W	141.6	126.1	162.8	15.8	100.0	0.5	60.0
WILSON 1792			162.3	14.3	100.0	2.5	60.0
L.G. SEEDS LG2726	142.9	134.6	162.1	14.7	100.0	0.5	62.0
ZIMMERMAN Z62W	143.6	131.3	161.6	15.0	100.0	2.5	61.7
WILSON 1851W			161.0	15.3	100.0	0.5	60.3
CAVERNDALE CF940		137.7	160.6	13.3	100.0	0.5	58.7
PFISTER 3810			159.8	14.0	100.0	0.5	59.5
PFISTER 3977		132.3	159.5	14.7	100.0	0.0	57.3
CALLAHAN C7772			159.4	14.4	100.0	1.0	61.4
CROW'S 668	143.0	118.6	159.3	14.0	100.0	0.5	59.0
AKIN A6530W			159.2	14.3	100.0	0.5	61.8
WILSON SEEDS 1790W		132.4	158.7	13.9	98.5	0.5	59.8
DEKALB DK658	143.8	122.7	157.5	13.6	95.5	1.0	61.1
SO. STATES SS7971T		117.8	156.0	14.2	100.0	0.0	60.9
EXSEGEN ES241W			155.3	15.2	98.0	0.5	60.9
MYCOGEN 2832IMI			154.5	13.4	100.0	0.5	59.6
NK BRAND 7639Bt	157.0*	132.0	154.0	14.6	100.0	0.0	61.8
L.G. SEEDS LG2705	148.1	123.7	152.8	13.6	100.0	1.0	60.2
NK BRAND N79-L3			152.3	14.6	100.0	0.0	63.5
AGRATECH ATX757			151.9	14.1	100.0	0.0	61.6
WILSON SEEDS 1780W		122.8	148.7	15.0	100.0	0.0	59.9
ASGROW RX810			147.6	12.7	96.0	0.0	57.2
AKIN A6490			145.7	13.8	100.0	0.5	63.2
AGRATECH ATX725			142.4	13.8	100.0	0.0	61.1
ZIMMERMAN Z75W			139.0	13.2	100.0	1.5	59.2
GOLDEN HARVEST H-2581		101.9	131.7	13.1	100.0	0.0	58.1
ZIMMERMAN Z74W			129.0	14.8	100.0	0.0	61.6
SO. STATES SS769Bt			128.7	14.1	86.4	3.1	61.5
BALDRIDGE BH-567			93.2	13.9	85.4	1.3	60.6
MEDIUM AVERAGE	146.0	133.3	163.6	13.8	99.3	0.7	60.2
LSD (0.10)	21.2	16.6	24.6	1.0	4.7	1.5	2.3
C.V.			11.1	5.4	3.5	159.3	2.9

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

**Table 13E. ANNUAL SUMMARY, 1998, EARLY HYBRIDS
(112 Days to Maturity or Earlier), LEXINGTON, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
DEKALB DK635			224.5*	14.3	100.0	0.5	61.2
DEKALB DK626BTX			218.9*	14.3	100.0	4.0	61.7
NK BRAND N63-G7			217.0*	14.4	100.0	1.5	63.1
PIONEER BRAND 33G26			215.9*	15.5	100.0	3.0	63.2
BECK'S 6205	193.9*	197.3*	215.5*	14.1	100.0	6.6	61.5
TERRA SEED TR1106			214.8*	15.1	100.0	2.5	62.5
TERRA SEED TR1088			210.8*	13.5	100.0	4.0	60.2
GOLDEN HARVEST H-2552			210.1*	13.3	100.0	2.0	59.9
GATEWAY 1117			209.6*	15.4	100.0	0.5	62.1
MYCOGEN 2725			206.1*	15.2	100.0	2.5	62.4
GOLDEN HARVEST H-2547		183.1*	205.2*	15.3	100.0	1.5	61.7
ASGROW RX740			204.9*	15.0	100.0	1.5	63.9
COLBERT FARMS 240			204.3	13.7	100.0	3.5	60.2
PIONEER BRAND 33Y18		190.2*	204.1	14.5	99.5	0.0	64.7
GARST 8464			203.7	16.3	100.0	1.0	62.8
L.G. SEEDS LG2587			202.7	14.9	100.0	2.5	63.6
ZIMMERMAN Z42			202.7	15.5	100.0	2.5	61.5
PIONEER BRAND 33V08(Bt)		172.9	202.0	14.3	100.0	3.0	61.8
CROW'S 496	180.3*	167.9	201.2	15.5	100.0	2.0	60.1
DEKALB DK618BTX			200.6	14.9	100.0	0.5	62.3
CAMPBELL 7250			200.1	14.9	100.0	3.0	61.0
HYTEST SEEDS HT7712			199.3	15.8	100.0	2.0	63.5
BECK'S 5912W		176.9	198.7	16.1	100.0	3.0	62.6
AGVENTURE A.V.845		168.4	198.5	15.1	100.0	2.0	60.7
ASGROW RX770			193.8	15.0	100.0	2.0	62.5
COLBERT FARMS 220	175.2	169.0	193.2	13.9	100.0	3.5	59.9
HYTEST SEEDS BH4612			191.2	15.2	100.0	4.0	62.2
AKIN A6460		185.1*	190.3	14.6	100.0	5.6	61.0
CAVERNDALE CF790A			188.1	14.0	100.0	7.1	60.1
CAMPBELL 6475			188.0	14.7	100.0	3.0	64.1
CALLAHAN C7557	186.4*	176.3	186.3	15.1	100.0	6.1	60.4
SO. STATES SS5981T			184.8	14.7	100.0	1.0	63.5
ASGROW RX730			184.6	15.2	100.0	0.5	61.7
ASGROW RX776W			174.3	16.0	100.0	1.5	62.2
FR1064 X FR450	143.1	140.0	157.0	14.8	100.0	2.5	62.4
EARLY AVERAGE	175.8	174.9	200.1	14.9	99.9	2.6	61.9
LSD (0.10)	15.7	16.4	19.8	0.8	0.2	2.9	1.8
C.V.			7.3	4.0	0.1	81.8	2.0

**Table 13L. ANNUAL SUMMARY, 1998, LATE HYBRIDS
(118 Days to Maturity or Later), LEXINGTON, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
AKIN A6725	181.0*	179.3*	186.6*	13.7	100.0	5.1	63.0
CROW'S 691			185.9*	14.3	100.0	2.0	61.4
GARST 822IT			184.0*	16.2	100.0	2.5	63.2
MYCOGEN 2888	183.4*	171.0*	179.1*	14.4	100.0	2.5	61.5
PIONEER BRAND 31B13			178.5*	14.6	100.0	13.1	61.4
TERRA SEED TR1185			176.0*	16.0	100.0	3.5	60.7
GREAT LAKES 6968			175.6*	15.2	100.0	4.0	62.1
GARST N5254		176.7*	174.8*	13.8	100.0	7.1	61.6
CROW'S 664			174.4*	13.2	100.0	4.0	58.9
PIONEER BRAND 31A12			173.9*	15.2	100.0	5.1	62.0
HYTEST SEEDS BH4924			173.7*	16.2	100.0	3.0	58.1
NK BRAND N83-N5			170.0	14.5	100.0	6.6	62.0
TERRA SEED TR1188			168.2	15.3	100.0	5.1	62.2
CROW'S 702	164.9	160.4	168.0	16.1	100.0	2.5	58.2
DEKALB DK687	176.3*	172.2*	166.9	14.5	99.5	3.6	60.4
GLICK GH828			166.1	14.9	100.0	9.1	64.0
PIONEER BRAND 3140	175.3*	174.1*	164.2	14.3	100.0	4.0	60.6
SO. STATES SS943	156.7	152.4	163.7	15.3	100.0	4.5	58.1
SO. STATES SS897			163.2	15.0	100.0	2.5	58.8
TERRA SEED TR1186			163.1	14.6	100.0	2.0	62.4
CAMPBELL 8000			159.0	14.5	100.0	5.1	62.3
ASGROW 921W		156.0	158.6	16.8	100.0	1.5	62.2
B73 X PA91	151.8	149.1	154.9	15.6	100.0	5.1	59.6
GARST 8220	152.9	152.1	154.5	15.8	100.0	2.5	57.6
WILSON SEEDS 5307			142.6	16.2	100.0	4.0	58.6
LATE AVERAGE	167.8	164.3	169.0	15.0	99.9	4.4	60.8
LSD (0.10)	15.1	15.2	15.8	1.1	0.2	3.2	1.3
C.V.			6.8	5.5	0.2	53.7	1.5

**Table 13M. ANNUAL SUMMARY, 1998, MEDIUM HYBRIDS
(113-117 Days to Maturity), LEXINGTON, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
CALLAHAN C7762	179.5	183.5*	221.2*	14.8	100.0	4.5	61.1
SO. STATES SS769Bt			214.1*	17.3	100.0	2.0	63.4
PIONEER BRAND 33A14(Bt)		185.2*	202.9*	14.4	100.0	1.0	62.0
GATEWAY 1157			201.8	15.1	100.0	2.5	64.3
PIONEER BRAND 3335	170.1	182.7*	201.2	15.0	100.0	2.5	63.3
CAMPBELL 7650			200.7	16.2	100.0	1.5	62.0
PFISTER 3977		177.1*	198.1	15.5	100.0	2.0	59.5
AKIN A6590		190.5*	196.9	14.3	100.0	4.5	61.3
PIONEER BRAND 33Y09(Bt)		180.0*	196.8	14.4	100.0	0.5	62.6
L.G. SEEDS LG2726	187.0*	182.7*	195.3	16.2	100.0	2.0	63.3
NK BRAND N73-Q3		175.8*	193.4	16.1	100.0	0.5	63.7
BECK'S 6580			192.9	14.4	100.0	1.5	60.7
PIONEER BRAND 32K61		177.2*	191.3	15.6	100.0	0.5	64.4
WILSON 1851W			191.1	16.3	100.0	1.0	60.8
AGVENTURE A.V.977		173.4	190.7	15.3	100.0	6.6	63.5
DEKALB DK679		180.5*	190.6	15.9	100.0	5.1	62.2
ASGROW RX810			190.6	13.1	100.0	3.5	60.0
HYTEST SEEDS BH4748			189.9	15.1	100.0	3.5	61.5
ZIMMERMAN Z37	184.3	182.5*	189.8	16.0	100.0	2.0	63.8
GLICK GH79A			189.8	15.9	100.0	3.5	62.2
ZIMMERMAN Z39		167.7	189.7	15.5	100.0	4.5	61.1
GOLDEN HARVEST H-2622	174.8	173.5	189.4	15.9	100.0	2.5	61.9
NK BRAND 7639BT	201.8*	191.1*	189.2	15.4	100.0	0.5	63.3
DEKALB DK658	176.6	177.2*	189.0	15.1	100.0	3.0	61.8
SO. STATES SS828		184.7*	188.8	14.7	100.0	2.0	58.5
CALLAHAN C7772			188.8	16.0	100.0	3.5	62.0
FR27 X M017	171.4	179.1*	188.5	16.0	100.0	1.5	61.3
CAVERNDAL CF835	185.6	175.5*	188.4	14.9	100.0	4.5	60.4
EXSEGEN ES617		184.0*	188.3	16.6	100.0	1.5	62.4
BECK'S 8280	166.8	169.6	188.3	15.7	100.0	3.5	63.6
COLBERT FARMS 330		171.2	187.0	15.2	100.0	4.0	62.1
NK BRAND N79-L3			186.3	16.2	100.0	2.5	65.3
PIONEER BRAND 32H39W		168.8	185.6	17.0	100.0	1.0	64.3
WILSON 1792			184.5	17.3	100.0	2.0	60.9
ZIMMERMAN Z64W	166.5	168.5	184.4	16.6	100.0	5.6	62.6
L.G. SEEDS LG2705	175.2	172.0	184.2	16.3	100.0	2.0	60.5
CAVERNDAL CF885			183.7	15.7	100.0	4.5	61.4
GOLDEN HARVEST H-2581		168.4	183.2	15.7	100.0	0.5	61.5
AKIN A6490			182.4	14.6	100.0	0.5	62.9
TERRA SEED TR1157	182.4	171.7	181.6	15.5	100.0	4.5	59.3
MYCOGEN 2832IMI			180.2	16.0	100.0	2.0	62.0
GOLDEN HARVEST H-2636	168.5	165.2	180.1	15.2	100.0	4.0	60.6
CAVERNDAL CF820W			179.7	14.4	100.0	6.1	60.8
GREAT LAKES 6631		173.3	179.3	15.1	100.0	4.5	61.6
AGRATECH ATX757			179.3	15.2	100.0	3.5	62.3
TERRA SEED TR1167	182.2	170.9	178.6	17.0	100.0	3.0	61.1
CROW'S 668	173.7	163.2	178.6	15.8	100.0	2.0	61.1
PFISTER 3810			178.4	14.6	100.0	2.0	61.3
CAVERNDAL CF940		171.1	176.8	14.8	100.0	4.5	61.4
AGRATECH ATX770	172.9	167.8	176.5	15.7	100.0	3.5	59.5
AKIN A6530W			175.0	15.7	100.0	0.5	63.2
SO. STATES SS7971T		150.2	174.6	16.3	100.0	2.5	63.4
WILSON SEEDS 1780W		158.9	171.0	17.7	100.0	6.1	61.1
TERRA SEED TR1154	174.5	169.8	170.7	14.8	100.0	0.0	60.0
WILSON SEEDS 1790W		157.7	170.6	17.1	100.0	4.5	61.8
ZIMMERMAN Z74W			164.3	16.9	100.0	2.5	64.3
EXSEGEN ES241W			161.5	17.1	100.0	15.2	62.2
AGRATECH ATX725			155.5	15.3	100.0	4.0	63.6
ZIMMERMAN Z75W			153.1	14.9	100.0	1.5	60.3
ZIMMERMAN Z62W	154.1	153.2	150.1	14.4	100.0	1.5	61.3
BALDRIDGE BH-567			105.9	15.1	98.0	14.7	62.4
MEDIUM AVERAGE	176.2	173.6	184.4	15.6	99.9	3.2	61.9
LSD (0.10)	15.5	16.0	18.4	1.0	0.6	4.3	1.6
C.V.			7.4	4.7	0.4	99.5	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 14E. ANNUAL SUMMARY, 1998, EARLY HYBRIDS
(112 Days to Maturity or Earlier), QUICKSAND, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
AGVENTURE A.V.845		207.9*	214.2*	16.1	100.0	0.0	59.4
BECK'S 5912W		176.1	192.2*	18.3	100.0	1.5	61.5
COLBERT FARMS 240			184.9*	15.1	100.0	1.0	56.9
PIONEER BRAND 33Y18		195.4*	184.8*	16.1	100.0	0.5	64.0
PIONEER BRAND 33V08(Bt)		193.8*	184.6*	16.0	100.0	0.5	59.4
PIONEER BRAND 33G26			184.5*	16.7	89.4	0.0	61.3
CAMPBELL 7250			178.8	15.8	93.4	1.1	56.7
DEKALB DK618BTX			178.3	15.5	97.5	0.0	59.6
DEKALB DK635			177.4	15.0	100.0	1.0	59.6
ASGROW RX730			176.2	16.2	100.0	0.5	60.3
GARST 8464			175.7	16.3	100.0	0.0	60.6
NK BRAND N63-G7			170.5	15.5	100.0	0.5	58.3
CROW'S 496	187.0*	174.3	168.7	15.9	100.0	3.5	57.8
BECK'S 6205	199.2*	191.1*	167.3	16.3	100.0	0.0	58.4
MYCOGEN 2725			167.0	15.9	100.0	1.0	59.1
AKIN A6460		170.6	164.7	16.0	100.0	1.0	57.8
ASGROW RX770			164.4	16.6	100.0	0.5	58.7
ASGROW RX740			163.0	16.1	100.0	0.0	60.0
CALLAHAN C7557	178.4*	166.6	162.5	15.9	97.5	0.5	57.9
CAMPBELL 6475			162.3	16.7	97.0	0.5	60.9
L.G. SEEDS LG2587			162.0	16.1	97.0	0.0	59.1
GATEWAY 1117			161.2	15.6	100.0	0.0	59.9
HYTEST SEEDS BH4612			160.1	16.0	100.0	1.0	59.6
ZIMMERMAN Z42			157.9	16.4	92.4	0.0	59.0
DEKALB DK626BTX			157.6	14.9	99.0	0.0	56.3
COLBERT FARMS 220	171.5	165.8	153.6	15.9	100.0	0.0	56.3
SO. STATES SS598IT			151.4	15.5	100.0	0.5	60.8
GOLDEN HARVEST H-2552			150.5	15.6	100.0	0.5	57.9
GOLDEN HARVEST H-2547		161.4	145.7	15.5	100.0	0.0	58.1
TERRA SEED TR1106			144.2	15.3	86.4	0.5	50.1
ASGROW RX776W			143.4	16.5	100.0	0.0	61.3
HYTEST SEEDS HT7712			142.3	16.6	100.0	0.0	59.2
CAVERNDALE CF790A			141.7	15.6	87.4	0.5	56.6
TERRA SEED TR1088			140.8	15.3	100.0	0.0	55.2
FR1064 X FR450	145.7	140.7	119.7	15.5	100.0	0.0	59.6
EARLY AVERAGE	176.4	176.7	164.4	15.9	98.2	0.5	58.8
LSD (0.10)	20.8	24.6	31.3	0.7	7.9	1.3	3.1
C.V.			13.9	3.4	5.9	207.6	3.8

**Table 14L. ANNUAL SUMMARY, 1998, LATE HYBRIDS
(118 Days to Maturity or Later), QUICKSAND, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PIONEER BRAND 31B13			207.5*	18.4	100.0	0.5	61.5
GARST 8221T			206.9*	19.4	100.0	0.5	64.2
CROW'S 664			190.0*	17.9	100.0	0.0	58.6
PIONEER BRAND 31A12			188.8*	19.1	100.0	2.0	60.8
B73 X PA91	184.4	178.3*	186.2*	18.3	100.0	0.0	59.7
TERRA SEED TR1186			184.6	19.2	100.0	0.0	60.1
TERRA SEED TR1188			183.1	18.9	99.5	0.0	61.4
HYTEST SEEDS BH4924			181.0	19.3	100.0	0.0	59.0
DEKALB DK687	176.0	176.8*	180.9	17.5	100.0	0.5	57.5
AKIN A6725	196.5*	182.8*	175.2	18.1	100.0	0.5	60.3
PIONEER BRAND 3140	206.7*	197.7*	174.3	19.0	100.0	0.5	58.5
MYCOGEN 2888	197.5*	183.0*	170.6	18.9	100.0	0.0	62.1
GLICK GH828			169.7	19.1	100.0	0.5	60.3
CROW'S 702	201.1*	185.7*	168.6	25.0	95.5	0.0	58.0
SO. STATES SS943	212.7*	198.3*	167.1	19.7	100.0	1.0	57.3
GARST N5254		176.2*	164.4	18.3	100.0	0.0	59.7
CAMPBELL 8000			163.8	17.7	100.0	0.0	59.8
SO. STATES SS897			160.3	18.7	100.0	1.0	58.0
ASGROW 921W		170.7	160.2	20.4	100.0	0.5	62.7
GREAT LAKES 6968			159.6	20.3	100.0	0.5	60.3
NK BRAND N83-N5			159.2	18.2	100.0	1.0	58.6
GARST 8220	202.3*	187.8*	158.3	20.5	99.5	1.0	56.6
TERRA SEED TR1185			155.8	19.6	100.0	1.0	60.1
CROW'S 691			153.0	19.6	97.5	1.1	59.1
WILSON SEEDS E5307			144.2	20.5	100.0	0.5	58.9
LATE AVERAGE	197.1	183.7	172.5	19.2	99.7	0.5	59.7
LSD (0.10)	19.5	22.2	22.8	2.0	2.4	1.3	2.1
C.V.			9.6	7.7	1.8	183.0	2.6

**Table 14M. ANNUAL SUMMARY, 1998, MEDIUM HYBRIDS
(113-117 Days to Maturity), QUICKSAND, KY**

BRAND/HYBRID	YIELD BU/AC 96-98	YIELD BU/AC 97-98	YIELD BU/AC 1998	% MOIST 1998	% STAND 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
PFISTER 3810			211.2*	17.4	100.0	0.0	59.9
TERRA SEED TR1154	200.8*	192.1*	198.3*	16.1	100.0	0.0	58.4
WILSON 1851W			192.8*	19.2	94.9	0.0	58.7
PIONEER BRAND 3335	206.2*	204.4*	185.5	16.4	99.0	0.5	58.7
GATEWAY 1157			185.4	18.6	100.0	0.0	61.2
WILSON SEEDS 1780W		191.0*	184.4	19.3	100.0	1.0	61.6
PIONEER BRAND 32H39W		180.2	184.3	17.3	100.0	0.0	61.9
COLBERT FARMS 330		183.8*	182.6	19.2	100.0	0.0	60.3
PIONEER BRAND 32K61		177.8	180.9	17.2	100.0	0.0	63.0
TERRA SEED TR1157	186.3*	181.4*	180.6	17.1	100.0	0.5	58.2
CROW'S 668	188.7*	188.5*	179.5	17.5	100.0	0.0	58.5
SO. STATES SS769Bt			175.7	17.9	100.0	1.5	60.2
ZIMMERMAN Z64W	203.7*	192.1*	174.6	19.3	100.0	0.5	55.7
CAVERNDALE CF940		197.2*	173.7	17.1	100.0	0.0	59.2
CALLAHAN C7762	190.2*	177.1	173.4	16.1	100.0	0.5	57.0
GOLDEN HARVEST H-2636	192.5*	178.1	172.5	17.5	100.0	0.0	60.2
L.G. SEEDS LG2705	182.9	170.2	172.4	18.6	100.0	0.0	60.6
AKIN A6590		188.7*	171.9	16.2	100.0	0.0	56.9
TERRA SEED TR1167	174.6	165.5	171.6	17.7	100.0	0.5	59.9
ZIMMERMAN Z74W			170.1	17.7	100.0	1.5	60.9
GREAT LAKES 6631		191.2*	169.7	17.3	100.0	0.0	58.3
L.G. SEEDS LG2726	199.2*	192.7*	166.9	19.7	97.5	0.5	60.0
EXSEGEN ES241W			166.1	18.4	100.0	0.0	58.5
CAVERNDALE CF885			166.0	17.5	100.0	0.5	59.1
CAVERNDALE CF835	178.5	173.7	165.7	16.0	100.0	1.0	58.3
BECK'S 6580			164.0	17.7	100.0	0.5	58.9
BECK'S 8280	188.2*	175.8	163.8	18.4	100.0	0.0	59.4
NK BRAND N73-Q3		156.7	162.5	16.3	100.0	0.5	59.6
PIONEER BRAND 33Y09(Bt)		165.4	161.5	16.0	100.0	0.5	60.6
EXSEGEN ES617		166.9	160.6	19.0	100.0	0.0	60.0
WILSON SEEDS 1790W		186.9*	160.5	18.4	100.0	0.0	59.2
ZIMMERMAN Z37	184.0	174.2	159.3	19.0	100.0	0.0	60.3
PFISTER 3977		192.3*	159.1	17.5	100.0	0.0	57.5
DEKALB DK679		180.1	159.0	18.8	100.0	0.0	60.2
ASGROW RX810			158.7	17.0	100.0	1.5	56.3
NK BRAND 7639Bt	186.3*	165.0	158.3	15.3	100.0	0.0	60.2
WILSON 1792			157.5	17.5	100.0	0.5	58.7
GOLDEN HARVEST H-2622	173.1	162.2	156.0	17.9	100.0	0.0	60.0
FR27 X MO17	165.1	155.6	154.4	17.3	100.0	0.0	57.8
CALLAHAN C7772			153.8	19.5	100.0	1.5	59.0
SO. STATES SS828		174.3	153.6	17.5	95.5	0.0	55.6
AGRATECH ATX770	176.7	163.6	153.6	17.8	100.0	0.0	56.9
SO. STATES SS797IT		172.9	152.8	16.5	100.0	0.0	59.4
GOLDEN HARVEST H-2581		153.8	151.2	16.1	100.0	4.0	58.4
NK BRAND N79-L3			150.5	17.5	100.0	0.0	61.6
CAMPBELL 7650			149.1	17.6	100.0	0.0	54.1
MYCOGEN 2832IMI			147.6	17.7	100.0	0.0	58.3
ZIMMERMAN Z39		181.6*	147.5	16.5	100.0	0.5	57.1
DEKALB DK658	178.1	173.7	147.0	15.6	100.0	0.0	58.9
HYTEST SEEDS BH4748			147.0	17.5	100.0	0.0	57.1
CAVERNDALE CF820W			144.0	19.4	100.0	0.0	58.4
AGRATECH ATX757			142.3	17.8	100.0	0.5	59.8
PIONEER BRAND 33A14(Bt)		177.3	142.2	16.3	100.0	0.0	58.6
ZIMMERMAN Z75W			140.0	16.7	100.0	1.5	55.4
AKIN A6530W			136.9	18.4	100.0	1.0	60.2
ZIMMERMAN Z62W	174.9	154.7	135.5	18.3	100.0	0.0	57.2
AKIN A6490			134.7	16.5	100.0	1.0	60.6
GLICK GH79A			134.3	18.4	100.0	0.0	55.0
AGRATECH ATX725			130.5	17.4	100.0	3.0	61.3
BALDRIDGE BH-567			126.6	17.4	100.0	0.0	60.4
AGVENTURE A.V.977		169.0	123.3	20.2	100.0	0.0	58.9
MEDIUM AVERAGE	185.8	177.0	160.7	17.6	99.7	0.4	58.9
LSD (0.10)	19.9	23.0	25.6	1.1	2.5	1.6	2.2
C.V.			11.8	4.5	1.9	293.8	2.8

* 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 15A. ANNUAL SUMMARY, 1998, HIGH OIL HYBRIDS, HARTFORD, KY

BRAND/HYBRID	YIELD BU/AC 1998	% MOIST 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
Beck's 6205TC	177.7*	15.6	0.7	60.5
Pfister 2652-19	167.6*	15.7	0.7	57.2
Golden Harvest H-2547 HOC	157.0*	13.3	0.0	59.2
Golden Harvest H-2581 HOC	154.9*	17.2	0.0	59.8
Southern States 767TC	147.5*	15.9	2.2	59.4
Pfister 2680-19	146.8*	14.6	0.7	58.8
Akin A4616TC2	146.6*	14.9	1.5	65.4
Dekalb DK595TC	146.0*	13.0	0.0	60.2
Callahan TC 7557D	143.6	15.5	0.7	57.6
Pfister 2025-18	141.7	14.2	0.0	58.9
Pioneer Brand 32R90	139.9	16.4	0.0	62.4
Southern States 727TC	139.3	14.8	0.0	57.0
Akin A6460TC8	137.4	15.8	0.7	58.8
Asgrow RX748TC	126.5	15.8	0.0	56.7
Asgrow RX770TC	125.5	15.5	0.7	58.4
Asgrow RX730TC	119.3	15.2	0.7	57.1
HIGH OIL AVERAGE	144.8	15.2	0.6	59.2
LSD (0.10)	32.3	1.8	2.1	3.2
C.V.	12.7	6.7	210.8	3.1

Table 15B. ANNUAL SUMMARY, 1998, HIGH OIL HYBRIDS, LEXINGTON, KY

BRAND/HYBRID	YIELD BU/AC 1998	% MOIST 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998
Akin A6460TC8	200.1*	12.9	0.7	58.6
Asgrow RX748TC	193.6*	13.2	5.3	57.8
Beck's 6205TC	190.2*	13.3	8.3	59.4
Callahan TC 7557D	189.7*	12.6	3.0	57.6
Pfister 2025-18	189.3*	12.0	3.0	59.0
Golden Harvest H-2581 HOC	188.5*	12.8	1.5	58.0
Southern States 767TC	187.2*	13.8	3.0	60.3
Asgrow RX730TC	186.2*	13.6	2.3	58.8
Southern States 727TC	185.8*	12.2	2.3	58.5
Pfister 2680-19	185.5*	13.2	3.8	57.6
Pfister 2652-19	185.1*	12.7	3.0	57.2
Akin A4616TC2	180.7	13.8	1.5	60.3
Golden Harvest H-2547 HOC	178.6	14.1	0.7	58.4
Asgrow RX770TC	174.6	13.0	5.3	57.5
Dekalb DK595TC	168.9	12.8	0.7	59.9
Pioneer Brand 32R90	153.9	14.5	3.0	61.3
HIGH OIL AVERAGE	183.6	13.2	0.6	58.8
LSD (0.10)	16.7	1.0	2.1	2.4
C.V.	5.2	4.5	50.7	2.3

Table 15C. ANNUAL SUMMARY, 1998, HIGH OIL HYBRIDS, ALL LOCATIONS

BRAND/HYBRID	YIELD BU/AC 1998	% MOIST 1998	TOT % LODGED 1998	TEST WT LBS/BU 1998	PROTEIN	OIL	STARCH
				% dry wt.....		
Beck's 6205TC	183.9*	14.4	4.5	60.0	9.4	7.7	67.3
Pfister 2652-19	176.4*	14.2	1.9	57.2	9.7	8.1	66.6
Golden Harvest H-2547 HOC	172.8*	13.1	0.7	58.6	9.3	7.7	67.4
Akin A6460TC8	168.7*	14.4	0.7	58.7	9.7	7.9	67.1
Southern States 767TC	167.4*	14.9	2.6	59.9	10.0	7.9	66.5
Golden Harvest H-2581 HOC	166.7*	15.7	0.4	59.1	10.4	8.2	65.9
Callahan TC 7557D	166.6*	14.1	1.9	57.6	9.8	7.9	66.7
Pfister 2680-19	166.1*	13.9	2.3	58.2	9.4	8.0	67.0
Pfister 2025-18	165.5	13.1	1.5	59.0	9.9	7.4	67.1
Akin A4616TC2	163.7	14.4	1.5	62.9	9.8	8.0	66.6
Southern States 727TC	162.5	13.5	1.1	57.8	9.4	7.2	68.0
Asgrow RX748TC	160.0	14.5	2.6	57.2	9.6	7.7	67.2
Dekalb DK595TC	157.4	12.9	0.4	60.1	10.0	7.5	66.7
Asgrow RX730TC	152.8	14.4	1.5	57.9	9.1	7.7	67.7
Asgrow RX770TC	150.1	14.3	3.0	57.9	9.8	7.4	67.2
Pioneer Brand 32R90	146.9	15.4	1.5	61.9	10.9	7.5	66.1
HIGH OIL AVERAGE	164.2	14.2	1.8	59.0	9.8	7.7	66.9
LSD (0.10)	18.2	1.0	1.7	1.9			

Note: To convert protein, oil, or starch percent to 15% moisture, multiply values by .85.



The College of Agriculture is an Equal Opportunity Organization

Issued 12-98, 8,000 copies