

# 1993 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 1993 data is presented for the tests at each location harvested. Two- and three-year averages for yield are included in each of the single location tables. Readers are encouraged to consider multiple year averages and the averages over locations (Tables 4, 5, and 6) since these are better estimates of a hybrid's yield ability than data gathered at one location in one year.

Comparisons between yields or other characters of any two or more hybrids should be made only with data from one table at a time. The testing procedures do not provide a suitable comparison between a hybrid grown at one location with another grown at a different location.

The yellow endosperm hybrids are grouped into early-, mid-, and late-maturity groups based on harvest moisture. Also, those hybrids that yield equally as high as the highest yielding hybrid, based on statistical evaluation, are indicated by an asterisk. See the MATURITY COMPARISONS and the EXPERIMENTAL DESIGN AND MEANS COMPARISONS text sections for more detail.

## TESTING PROCEDURE

### Selection of Hybrids

The hybrids chosen for testing are those most likely to be available for sale in 1994. Seed of each commercial hybrid (Table 2) was obtained from the sponsoring company.

Those hybrids grown in the corn virus tests are indicated with a B in Column 2 of Table 2. The hybrid corn companies were asked to nominate those hybrids known to have virus resistance for inclusion in the virus test.

### Location of Tests

The map to the right shows the location for each test. The non-virus test sites were selected to represent different agroclimatic areas of the state where corn is a major commodity. The Frankfort site was chosen specifically for the presence of corn virus.

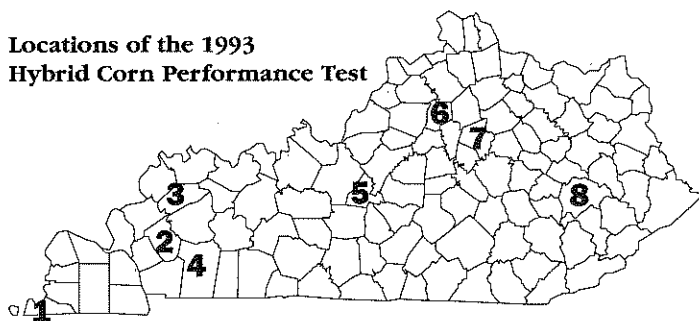
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### Cultural Practices

The test locations at Hodgenville and Quicksand were planted no-till. The other test locations were planted in a seed-bed prepared by conventional tillage methods. Fertilizer was applied as indicated by soil tests. The test at Hodgenville was planted in soybean residue using recommended no-tillage practices. The Quicksand test area was disked lightly prior to planting, but corn stalk and leaf residues were not covered by deep tillage so as to encourage Gray Leaf Spot (*Cercospora zea-maydis*) spore production for later corn foliage infection. All test areas were treated with herbicide(s) and supplemented by post-emergence cultivation and/or herbicide when necessary. Except for the virus test, Furadan was applied in the row at planting to control corn rootworms. The virus test at Frankfort received no insecticide. Table 3 shows the specific cultural treatment for each location.

Locations of the 1993 Hybrid Corn Performance Test



## Experimental Design and Mean Comparisons

Each hybrid was grown in three separate plots at each location to sample uncontrollable variability of soil types, fertility, and other factors. Annual mean yields presented in the tables are averages of three replications at the test site, while 2-year and 3-year means are averages of six and nine replications, respectively. An 11 x 12 lattice design was used at each non-virus location. A 7 x 7 lattice design was used at the virus location.

Small differences in yield are usually of little importance. The yield of two varieties at a single location may differ because of chance factors (difference in soil characteristics, fertility, or availability of moisture) even though the inherent yielding ability is the same. To decide if an observed yield difference is real, use the LSD (least significant difference) provided at the bottom of the tables. If the difference in yield is greater than the LSD value, you may be reasonably certain that the entries actually do differ in yield ability. "N.S." in the tables indicates that no statistically significant differences were 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.

## 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 36 inches apart and 22 feet long. Each conventional tillage test was planted at the rate of 23,760 kernels per acre. The no-till test at Shelbyville was planted at a rate of 25,740 kernels per acre. Final stands were expected to be between 20,000 and 22,000 plants per acre if average stand losses occurred.

## Harvesting

All plots were harvested with a modified two-row self-propelled corn combine. Both rows of each two-row plot were picked and shelled. 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 and adjusted to 15.5% moisture. Dropped ears were not gleaned from the plots. The total number of plants and lodged plants were recorded immediately prior to harvest.

## Corn Virus

Two corn virus diseases occur in Kentucky: maize dwarf mosaic virus (MDM) and maize chlorotic dwarf virus (MCD). Both overwinter in johnsongrass and are usually present as a virus complex. The Frankfort test was planted with 47 nominated hybrids and two check hybrids to evaluate resistance to the virus complex. Virus symptoms did appear frequently on johnsongrass present in the plot area and on some corn plants. The virus ratings reflect both the number of plants infected and the severity of infection of those plants.

The virus ratings shown in Table 7 are called a virus rating index since it is an index of severity. It is calculated as the

weighted average of virus infected and noninfected plants. The plots were evaluated on September 22. A virus index value of 1 indicates that none of the hybrid plants in a plot displayed visible virus symptoms, while a virus index value of 9 indicates that all plants in the plot were dead. A virus index value greater than 3 indicates that the hybrid should be considered susceptible to the virus complex. A virus index value less than 3 indicates that either few plants were infected or those infected did not have severe, visible virus symptoms.

## Maturity Comparisons

Three open-pedigree hybrids (FR618 X FR600, FR27 X Mo17, and FR27 X Pa91) were included in each non-virus test to provide an internal evaluation of hybrid maturity. The seed of these hybrids was obtained from Illinois Foundation Seeds, Inc., at Champaign, IL, who rated the relative maturities of these hybrids for Kentucky, as Early-, Mid-, and Late-Season, respectively. The relative maturity ratings were appropriate since the harvest moistures of the hybrids, when averaged across all non-virus locations (Table 4), were 16.8% for FR618 X FR600, 17.7% for FR27 X Mo17, and 19.9% for FR27 X Pa91. Harvest maturity of other hybrids in the test can be judged by comparison of harvest moisture relative to these checks and other hybrids of known maturity for your area of production.

The yellow endosperm hybrids are separated into three maturity groups in each table. Groups were determined from the 1993 harvest moisture summary over all non-virus locations in Table 4. The early-season maturity hybrid group in Table 4, and all subsequent annual tables, are those hybrids that had a 1993 average harvest moisture of 17.3% or less. This group includes the early maturity hybrid FR618 X FR600 and all other hybrids with a 1993 average harvest moisture that was less than or equal to the harvest moisture of FR618 X FR600 plus one LSD ( $16.8\% + 0.5\% = 17.3\%$ ). Hybrids in this group were rated from 106 to 113 days maturity by the parent seed companies. Not all seed companies provided maturity day ratings.

The medium-season maturity group of yellow hybrids includes all hybrids with a 1993 average harvest moisture equal to or greater than 17.4% but equal to or lower than 19.3%. These limits are determined by the 1993 average harvest moisture of the early yellow hybrids upper limit (17.3%) and the late yellow hybrid lower limit (19.4%). Hybrids in this group were rated from 111 to 121 days maturity by the parent seed companies. Not all seed companies provided maturity day ratings.

The late-season maturity group of yellow hybrids are those that had an average 1993 harvest moisture equal to or greater than 19.4% which is one LSD less than the average harvest moisture of FR27 X Pa91 ( $19.9\% - 0.5\% = 19.4\%$ ). Hybrids in this group were rated from 114 to 125 days maturity by the parent seed companies. Not all seed companies provided maturity day ratings.

These groupings are subjective but provide an evaluation of hybrid maturity. Other post-harvest groupings may be equally as useful. The harvest moisture or relative maturity rating of a hybrid was not used to block hybrids in the field experiment.

The two- and three-year summaries in Tables 5 and 6 had early and late hybrid moisture ranges computed in similar manners.

## NOTES ABOUT THE GROWING SEASON

### **Hickman** (*Fulton County*)

The Hickman test was planted on May 21. The test was checked for seedling emergence on June 18. Plant populations were good. Weed control was only fair. There were heavy infestations of grasses in alleyways. Lodging associated with the test was caused by Southwestern corn borer. There were no apparent disease problems. The test suffered from lack of rainfall during the growing season.

### **Princeton** (*Ky. Agr. Exp. Sta., Research & Education Center*)

The Princeton test was planted on April 29. Seedling emergence was good on May 20. Weed control was poor. There were heavy infestations of cocklebur and johnsongrass, especially in the alleyways. Alleyways were mowed before harvest. There appeared to be no disease problems; however, European and Southwestern corn borers caused some lodging.

### **Hopkinsville** (*Christian County*)

The Hopkinsville test was planted on April 23. Seedling emergence and weed control were good when checked on May 20. The test hybrids were fully pollinated on July 9. Johnsongrass was removed by hand on July 20, and alleyways were sprayed with Roundup. There were no apparent disease or insect problems present at harvest. High wind and rain the latter part of August caused heavy root lodging in the test. The test lacked timely rainfall during the season.

### **Dixon** (*Clay*) (*Webster County*)

The Clay test was planted on May 27. Seedling emergence and weed control were good on June 18. Some late-season grasses and weeds were present in the alleyways at harvest. There was some European corn borer damage, which caused a few dropped ears. There were no apparent disease problems.

### **Hodgenville** (*Larue County*)

The Hodgenville test was planted no-till in soybean crop residue on April 28. The test was checked on June 4, and plant populations appeared to be good. There were a number of plots that had some rootless plants. Weed control was excellent. There were no apparent disease problems. Japanese beetles were present in the test during mid-July.

### **Lexington** (*Ky. Agr. Exp. Sta., Spindletop Research Farm*)

The Lexington test was planted on May 7. Seedling emergence was good, and weed control was good. Late-season grasses were present in alleyways at harvest. There were no disease problems. There was an infestation of Japanese beetles that clipped silks and may have reduced seed set for some hybrids. Sevin insecticide was applied on July 21 to reduce the beetle density. Although evaluation of beetle damage was not possible, it is likely that earlier hybrids may have suffered more silk clipping than later hybrids.

### **Quicksand** (*Ky. Agr. Exp. Sta., Robinson Substation*)

The Quicksand test was planted on May 6. Early-season weed control was good, and seedling emergence was good for most plots. The test was sprayed on June 2, with Beacon, to control johnsongrass and other missed weeds and grasses. Burcucumber vines and cockleburs were present in the test at harvest. Alleyways were mowed prior to harvest to remove cockleburs. There was no apparent insect problems. Gray Leaf Spot (GLS) ratings were taken on the test August 18 and September 9. These ratings are included in Table 14. The ratings are the average percent dead (necrotic) tissue on the ear leaf of 5 plants in each plot.

### **Frankfort** (*Franklin County*)

The Frankfort test was planted on June 12. Weed control was good, except for johnsongrass and burcucumber vines. Seedling emergence was good. The test was sprayed with Beacon on July 14 to control seedling and rhizome johnsongrass. The test was evaluated on September 21 for the virus complex. Japanese beetles clipped some silks during the pollinating season. There appeared to be no other insect or disease problems.

### **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.

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*Roger Sparrow, Extension Agent, Frankfort*  
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*David Harrison, Extension Agent, Hodgenville*

Table 1. Precipitation at Test Locations, 1993

Month	Days	Location							
		Hickman	Princeton	Hopkinsville	Dixon-Clay	Hodgenville	Lexington	Quicksand	Frankfort
April	1-8	--	0.35	--	--	--	0.18	1.03	--
	9-16	--	3.59	--	--	1.50	1.54	0.85	--
	17-24	--	0.39*	--	--	0.60*	0.63	0.32	--
	25-30	--	0.35	--	--	2.10	0.92	1.34	--
	Total	0.00	4.88	3.15	0.00	3.27	3.27	3.64	4.00
May	1-8	--	3.64	--	--	0.80	0.63	0.38*	--
	9-16	--	0.59	3.00	--	0.70	0.77*	0.95	--
	17-24	0.21*	0.42	1.00	--	0.70	0.94	1.09	--
	25-31	0.20	0.46	1.00	--*	0.40	0.16	0.05	--
	Total	0.41	5.09	5.00	0.00	2.60	2.50	2.47	3.70
June	1-8	1.93	0.60	2.10	1.89	0.70	2.37	0.81	--
	9-16	0.48	1.16	0.10	2.30	2.60	2.70	2.57	--*
	17-24	0.20	0.91	--	0.84	1.70	0.15	0.24	--
	25-30	2.05	1.87	--	--	0.60	1.29	0.34	--
	Total	4.66	5.54	2.20	5.03	5.60	6.51	3.96	7.80
July	1-8	--	0.14	--	0.95	--	--	0.88	--
	9-16	--	0.47	1.30	--	0.30	2.42	3.77	--
	17-24	0.62	1.62	1.90	1.38	2.00	0.08	0.19	--
	25-31	0.30	--	--	--	0.20	0.67	1.67	--
	Total	0.92	2.23	3.20	2.33	2.30	3.17	6.51	1.90
August	1-8	1.10	0.73	0.70	5.33	0.30	0.94	1.90	--
	9-16	0.95	0.98	0.60	1.03	0.60	3.37	3.97	--
	17-24	--	0.01	--	--	0.20	0.36	0.07	--
	25-31	0.53	--	0.90	--	0.20	--	0.40	--
	Total	2.58	1.72	2.20	6.36	1.30	4.67	6.34	5.80
Sept.	1-8	0.28	1.24	--	0.68	2.30	2.37	1.52	--
	9-16	0.73	1.31	--	2.00	0.30	0.54	3.02	--
	17-24	0.94	1.62	--	2.65	0.30	0.30**	0.02	--
	25-30	--	4.17	--**	--	0.70**	0.55	1.67	--
	Total	1.95	4.51	0.00	5.33	3.60	3.76	6.23	2.60
	Grand Total	10.52	23.97	16.75	19.08	17.50	23.88	29.15	30.80

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

**Table 2. Hybrids Tested in 1993**

	Hybrid	Test*	Color	Cross**	Source
Adler's	6130	A	Yellow	2X	Adler Seeds, Inc. Route 1 Sharpesville, IN 46068
	7850	A	Yellow	2x	
AgraTech	757	A	Yellow	2X	AgraTech Seed Research P.O. Box 644 Atlanta, GA 31714
	787	A	Yellow	2X	
	810	A	Yellow	2X	
	888	B	Yellow	2X	
	8950	B	Yellow	2X	
	9250	B	Yellow	2X	
AgriGene	AG-7885	A	Yellow	2X	AgriGene Seed Research R. R. 2, Box 3A Ames, IA 50010
	AG-7890	A	Yellow	2X	
	AG-7900	A	Yellow	2X	
	AG-7935	AB	Yellow	2X	
AgriGold	A-6470	A	Yellow	2X	Akin Seed Company Route 1 St. Francesville, IL 62460
	A-6605	A	Yellow	2X	
	A-6690	A	Yellow	2X	
	A-6715	A	Yellow	2X	
	A-6565W	A	White	2X	
	A-6796W	B	White	2X	
Asgrow	RX775	A	Yellow	2X	Asgrow Seed Company P.O. Box 7570 Des Moines, IA 50322
	RX896	A	Yellow	2X	
	RX897	A	Yellow	2X	
	RX919	AB	Yellow	2X	
	RX795W	A	White	2X	
	RX923	B	Yellow	2X	
	X9063	B	Yellow	2X	
Beck's	68	A	Yellow	2X	Beck's Superior Hybrids 6767 E. 276th Street Atlanta, IN 46031
	72	A	Yellow	2X	
	81MVP	AB	Yellow	2X	
	85MDM	B	Yellow	2X	
	87MDM	B	Yellow	2X	
Bo-Jac	629	AB	Yellow	2X	Bo-Jac Hybrid Corn Company R. R. #2 Mount Pulaski, IL 62548
	7195	AB	Yellow	2X	
	925	AB	Yellow	2X	
Callahan	C7265	A	Yellow	2X	Callahan Seeds 1122 E. 169th Street Westfield, IN 46074
	C7269	A	Yellow	2X	
	C776	A	Yellow	2X	
	C783	A	Yellow	2X	
Cargill	7997	A	Yellow	2X	Cargill Seeds P.O. Box 9480 Minneapolis, MN 55440
	8327	A	Yellow	2X	
	8936	B	Yellow	2X	
	9027	A	Yellow	2X	
	8097W	A	White	2X	
	9042W	A	White	2X	
	9402W	A	White	2X	
Caverndale Farms	CF790	A	Yellow	2X	Caverndale Farms Route 2 Danville, KY 40422
	CF800A	A	Yellow	2X	
	CF950	A	Yellow	2X	
	CF953	A	Yellow	2X	
	CF900	B	Yellow	2X	
	CF900A	B	Yellow	2X	
CIBA Seeds	4494	A	Yellow	2X	CIBA Seeds Division P.O. Box 18300 Greensboro, NC 27419
	4631	A	Yellow	2X	
	4671	AB	Yellow	2X	
	4680	B	Yellow	2X	
	4742	A	Yellow	2X	
	4592W	A	White	2X	
	4652W	A	White	2X	
Colbert	230	A	Yellow	2X	Colbert Farms R. R. #2 Washington, IN 47501
	279	A	Yellow	2X	
	324	A	Yellow	2X	
	326	A	Yellow	2X	
Crow's	510	A	Yellow	2X	Crow's Hybrid Corn Company Box 306 Milford, IL 60953
	667	A	Yellow	2X	
	668	A	Yellow	2X	
	669	A	Yellow	2X	
	670	A	Yellow	2X	
DeKalb	DK646	A	Yellow	2X	DeKalb Plant Genetics 3100 Sycamore Road DeKalb, IL 60115
	DK668	A	Yellow	2X	
	DK683	AB	Yellow	2X	
	DK689	B	Yellow	2X	
	DK714	A	Yellow	2X	
	DK715	A	Yellow	2X	
	DK743	AB	Yellow	2X	
	DK703W	A	White	2X	
	NB739W	A	White	2X	
	NB742W	A	White	2X	
Glick Seed	GH752	A	Yellow	2X	Glick Seed Service 16801 E-100N Hartsville, IN 47224
	GH801	A	Yellow	2X	
Gutwein	2656	A	Yellow	2X	Fred Gutwein & Sons, Inc. Route 1, Box 40 Francisville, IN 47946
	2680	A	Yellow	2X	
	2751	A	Yellow	2X	
	2810	A	Yellow	2X	

Table 2. Hybrids Tested in 1993 (continued)

	Hybrid	Test*	Color	Cross**	Source
ICI Seeds	N8255	A	Yellow	2X	ICI Seeds, Inc. 6495 Vista Dr. West Des Moines, IA 50266
	8285	A	Yellow	2X	
	8315	A	Yellow	2X	
	8513	A	Yellow	2X	
	8122W	A	White	2X	
	1860	B	Yellow	2X	
	N8120	B	Yellow	2X	
Jacques	7970	A	Yellow	2X	Jacques Seed Company 720 St. Croix St. Prescott, WI 54021
	8210	A	Yellow	2X	
	8240	AB	Yellow	2X	
	8250	B	Yellow	2X	
	8410	B	Yellow	2X	
	9220	AB	Yellow	2X	
Lynks Seed	2829	A	Yellow	2X	Lynks Seeds P.O. Box 637 Marshalltown, IA 50158
	2868	A	Yellow	2X	
	2831W	A	White	2X	
Northrup King	N6330	A	Yellow	2X	Northrup-King & Company P.O. Box 959 Minneapolis, MN 55440
	N7707	A	Yellow	2X	
	N7989	A	Yellow	2X	
	N8727	A	Yellow	2X	
	PX9540	A	Yellow	2X	
	N7580W	A	White	2X	
	S8645	B	Yellow	2X	
Pfister Hybrids	X3250 VR	B	Yellow	2X	Pfister Hybrid Corn Co. P.O. Box 187 El Paso, IL 61738
	X3350 VR	B	Yellow	2X	
	X496 VR HOC	B	Yellow	2X	
	X497 VR HOC	B	Yellow	2X	
Pioneer Brand	3140	A	Yellow	2X	Pioneer Hi-Int'l. 1000 W. Jefferson St. Tipton, IN 46072
	3154	AB	Yellow	2X	
	3156	AB	Yellow	2X	
	3163	A	Yellow	2X	
	3165	A	Yellow	2X	
	3167	A	Yellow	2X	
	3245	A	Yellow	2X	
	3279	A	Yellow	2X	
	3394	A	Yellow	2X	
	3281W	A	White	2X	
	3215	B	Yellow	2X	
Prairie Stream	SX556	A	Yellow	2X	Prairie Stream Farms Route 3, Box 333 Frankfort, IN 46041
	SX702	A	Yellow	2X	
	SX704	A	Yellow	2X	
Scott Seed	S3350	A	Yellow	2X	Scott Seed Company, Inc. P.O. Box 849 New Albany, IN 47150
	S5263	A	Yellow	2X	
	S5272	B	Yellow	2X	
Southern Cross	SC411	A	Yellow	2X	Miles Seed 2760 Keller Rd. Owensboro, KY 42301
	SC412	A	Yellow	2X	
	SC612	A	Yellow	2X	
	SC902	A	Yellow	2X	
	SC912	B	Yellow	2X	
Southern States	SS682	A	Yellow	2X	Southern States Coop., Inc. P.O. Box 26234 Richmond, VA 23260
	SS742A	A	Yellow	2X	
	SS812	A	Yellow	2X	
	SS943	AB	Yellow	2X	
	SS917W	A	White	2X	
	SS922W	A	White	2X	
	SS883	B	Yellow	2X	
XP49973V	B	Yellow	2X		
Stewart Hybrids	S-9213	A	Yellow	2X	Stewart Hybrids Inc. Route 1, Box 8 Princeville, IL 61559
	S-9312	A	Yellow	2X	
	S-9315	A	Yellow	2X	
	1458	B	Yellow	2X	
Terra Seed	E 1168	A	Yellow	2X	Terra International, Inc. 600 Fourth Street Sioux City, IA 51101
	TR 1167	A	Yellow	2X	
	TR 1180	AB	Yellow	2X	
	TR 641E	A	Yellow	2X	
	TR 700E	B	Yellow	2X	
Vineyard	V-449W	A	White	2X	Vineyard Seed Co., Inc. Route 1, Box 147 Homer, IL 61849
	V-58W	A	White	2X	
	Vx4532W	B	White	2X	
	V-472W	B	White	2X	
	Vx4322W	B	White	2X	
Voris Seeds	7530	A	Yellow	2X	Voris Seeds, Inc. P.O. Box 457 Windfall, IN 46076
	8020	A	Yellow	2X	
Zimmerman	Z27	A	Yellow	2X	Zimmerman Hybrids, Inc. 5147 W. Franklin Rd. Evansville, IN 47712
	Z29	A	Yellow	2X	
	Z61W	A	White	2X	
	Z63W	A	White	2X	
	Z64W	A	White	2X	
K.A.E.S.	FR618xFR600	A	Yellow	2X	Illinois Found. Seeds, Inc. P.O. Box 722 Champaign, IL 61820
	FR27xMo17	A	Yellow	2X	
	FR27xPa91	A	Yellow	2X	

\* A = Performance Test, B = Virus Test

\*\* 2X = Single Cross, 3X = Threeway Cross, 2X(Mod) = Modified Single Cross

Table 3. Agronomic Information Pertaining to 1993 Test Locations

Location and Cooperator	Soil Type	Fertilizer Lb/Ac	Herbicide	Insecticide	Planting Dates	Harvest Dates	Comments
1) Hickman, KY Major's Farm Route 1	Calloway Silt Loam	N - 192 P205 - 58 K20 - -90	Aatrex & Dual	Furadan	May 21	Oct. 7 & 8	
2) Princeton, KY Western Kentucky Res. & Ed. Center	Huntington & Lindsie Silt Loam	N - 150 P205 - -0 K20 180	Sutan +, Aatrex & Lasso	Furadan	April 29	Oct. 5 & 6	
3) Clay, KY Mitchell Brothers	Belnap Silt Loam	N - 240 P205 - 58 K20 - 75	Sutazine & Aatrex	Furadan	May 27	Oct. 14 & 15	
4) Hopkinsville, KY Smith Farm	Nicholson Silt Loam	N - 180 P205 - 80 K20 - 80	Bullet	Furadan	April 23	Sept 28 & 29	
5) Hodgenville, KY George Pickeral	Elk Silt Loam	N - 200 P205-114 K20 - 60	Bullet, 2,4-D, & Roundup	Furadan	April 28	Sept. 30 & Oct. 1	No-Till Soybean Residue
6) Frankfort, KY Tommy Quarles	Nolin Silt Loam	N - 152 P205- 0 K20 - 50	Sutant, Aatrex & Beacon	None	June 17	Nov. 11	
7) Lexington, KY K.A.E.S. Spindletop Farm	Lanton Silt Loam	N - 150 P205 - 0 K20 - 100	Sutant, Aatrex & Lasso	Furadan & Sevin	May 7	Sept. 21 & 22	
8) Quicksand, KY Robinson Forest Station	Philo Silt Loam	N - 160 P205 100 K20 - 100	Lasso, Aatrex & Beacon	Furadan	May 6	Oct. 25 & 26	No-Till Corn Residue

**Table 4. Annual Summary, 1993, All Non-Virus Locations**

BRAND/HYBRID	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
<b>EARLY YELLOW HYBRIDS (16.4 - 17.3%M)</b>				
PIONEER BRAND 3394	142.5*	16.4	88.3	4.7
DEKALB DK646	136.5	17.3	88.3	10.7
STEWART HYBRIDS S-9312	128.7	17.3	88.0	6.3
AGRIGOLD A-6470	128.6	17.3	92.9	8.6
AGRIGOLD A-6605	126.6	17.1	86.3	7.8
CIBA SEEDS 4494	124.7	16.9	89.4	5.0
COLBERT 230	124.7	17.0	91.3	6.1
FR618 X FR600	124.1	16.8	95.0	8.7
ICI SEEDS 8513	122.4	17.3	90.8	4.1
CROW'S 510	117.3	17.2	88.4	8.0
CAVERNDAL FM. CF 790	113.2	17.3	82.6	3.1
<b>MEDIUM YELLOW HYBRIDS (17.4% - 19.3%M approx)</b>				
PIONEER BRAND 3140	146.9*	18.6	90.0	8.6
SO. STATES SS943	146.1*	19.2	90.5	7.0
ZIMMERMAN Z29	145.2*	18.4	91.0	8.1
BO-JAC 629	143.9*	18.3	93.3	8.4
DEKALB DK683	143.2*	18.7	89.3	5.0
CARGILL 9027	141.5*	18.7	92.5	11.3
DEKALB DK668	141.0*	18.4	90.7	6.8
CIBA SEEDS 4671	138.1	19.0	89.2	5.9
ASGROW RX919	138.1	19.2	90.7	7.6
PIONEER BRAND 3163	138.0	18.4	86.1	6.9
ICI SEEDS 8315	137.9	18.8	92.9	17.3
DEKALB DK714	137.9	19.2	88.8	12.6
TERRA SEED TR1167	137.1	18.5	91.2	7.6
BO-JAC 7195	136.6	18.5	93.0	8.9
CARGILL 8327	136.3	18.3	92.8	6.2
ADLERS 6130	136.0	18.5	90.9	6.8
BECK'S 72X	135.8	17.6	87.5	16.7
PIONEER BRAND 3279	135.8	18.2	90.2	5.9
AGRIGENE AG 7890	135.8	18.6	93.5	5.5
COLBERT 326	135.8	18.8	91.3	15.1
AGRIGOLD A-6690	135.5	18.5	92.9	8.5
COLBERT 279	135.1	17.7	93.2	10.7
PRAIRIE STREAM SX556	135.1	17.7	86.0	3.0
AGRIGENE AG 7935	135.1	19.3	91.7	6.1
JACQUES 9220	134.9	19.0	92.3	13.4
LYNKS SEEDS 2868	134.6	18.9	90.5	7.0
PIONEER BRAND 3245	134.5	17.5	88.6	11.9
BECK'S 68	134.4	18.0	90.8	3.9
STEWART HYBRIDS S-9213	134.2	18.3	90.5	11.7
COLBERT 324	134.2	19.1	93.9	11.6
PIONEER BRAND 3156	133.7	18.8	89.3	9.1
SO. STATES SS812	133.6	18.2	91.0	5.3
ADLERS 7850	133.6	18.4	91.4	8.0
CALLAHAN C7269	133.5	18.2	91.4	8.7
CROW'S 667	133.2	18.2	91.0	8.3
AGRIGENE AG 7885	133.0	18.4	91.9	5.6
CROW'S 670	132.9	18.4	89.6	8.7
CROW'S 668	132.1	18.6	89.3	5.7
JACQUES 8210	131.9	18.8	91.6	6.7
TERRA SEED TR641E	131.8	19.2	90.9	7.3
TERRA SEED E 1168	131.7	18.5	93.0	4.3
ICI SEEDS 8285	131.6	18.2	91.0	7.7
CALLAHAN C776	131.6	18.8	91.7	5.6
ASGROW RX897	131.5	18.2	90.1	7.8
CROW'S 669	131.4	18.8	90.2	3.8
LYNK'S SEED 2829	131.0	18.5	89.7	7.4
GUTWEIN 2680	130.8	18.1	88.3	7.9
BO-JAC 925	130.2	17.8	92.9	3.1
NORTHROP KING PX9540	130.2	17.9	92.3	5.5
GLICK SEED GH752	130.0	17.9	89.2	3.0
CAVERNDAL FM. CF 953	130.0	18.1	87.3	3.3
JACQUES 7970	129.8	18.2	90.0	6.9
JACQUES 8240	129.8	18.4	91.0	11.0
DEKALB DK715	129.5	18.9	86.4	3.7
GUTWEIN 2810	129.3	18.6	89.5	4.7
SO. CROSS SC-902	129.2	17.6	88.0	6.3
CALLAHAN C783	129.1	19.3	91.0	5.4
GLICK SEED GH801	128.4	18.3	89.4	9.1
ZIMMERMAN Z27	128.4	18.4	91.7	13.2



Table 4. Annual Summary, 1993, All Non-Virus Locations (continued)

BRAND/HYBRID	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
SO. STATES SS742A	128.3	18.4	92.3	2.8
NORTHROP KING N7707	128.2	18.3	90.9	3.2
AGRATECH 787	128.0	18.3	89.4	6.1
SO. STATES SS682	127.9	17.7	91.6	8.0
SO. CROSS SC-612	127.7	18.2	92.6	1.7
VORIS 8020	127.7	18.4	88.9	3.5
CIBA SEEDS 4631	127.7	19.2	88.4	2.9
AGRATECH 757	127.3	18.7	91.2	8.2
BECK'S 81MVP	127.1	18.4	87.0	4.8
AGRIGOLD A-6715	126.8	18.4	92.6	5.1
AGRATECH 810	126.6	18.6	90.1	4.4
CARGILL 7997	126.2	18.4	98.3	14.9
GUTWEIN 2751	126.2	18.5	92.1	8.0
SO. CROSS SC-412	126.2	18.5	84.1	8.7
SO. CROSS SC-411	125.7	17.8	85.4	4.6
SCOTT SEED S5263	125.6	18.3	90.0	5.4
NORTHROP KING N7989	125.5	18.7	88.8	7.2
CAVERNDALE FM. CF 800A	125.0	18.6	86.8	4.2
PRAIRIE STREAM SX704	124.9	18.0	86.2	5.8
CALLAHAN C7265	124.7	18.2	91.3	3.5
GUTWEIN 2656	124.5	17.6	87.8	10.9
CAVERNDALE FM. CF 950	124.4	18.9	85.5	5.5
PRAIRIE STREAM SX702	124.2	18.3	83.6	14.3
TERRA SEED TR1180	123.7	18.9	87.4	5.4
STEWART HYBRIDS S-9315	123.7	19.3	86.0	21.1
FR27 X MO17	122.7	17.7	95.3	13.2
VORIS 7530	122.7	18.1	85.6	9.4
ASGROW RX896	122.5	18.7	92.4	7.2
ASGROW RX775	121.3	17.4	87.8	11.5
NORTHROP KING N6330	120.3	17.5	91.2	7.1
SCOTT SEED S3350	118.0	17.9	88.3	3.3
LATE YELLOW HYBRIDS (19.4 - 21.3%M)				
DEKALB DK743	150.7*	20.0	90.0	9.5
PIONEER BRAND 3165	147.4*	20.1	91.1	5.9
PIONEER BRAND 3167	139.5	21.3	88.3	4.5
PIONEER BRAND 3154	138.3	19.5	91.9	15.1
NORTHROP KING N8727	138.0	19.7	91.9	3.6
AGRIGENE AG 7900	131.7	20.0	91.7	12.6
FR27 X PA91	130.6	19.9	92.6	15.7
ICI SEEDS N8255	129.4	19.7	89.9	4.0
CIBA SEEDS 4742	129.3	21.0	89.1	3.7
YELLOW AVERAGE	131.3	18.4	90.1	7.5
WHITE HYBRIDS				
ZIMMERMAN Z64W	138.3	19.3	88.3	8.5
AGRIGOLD A-6565W	132.4	18.1	87.0	11.2
ASGROW RX795	131.6	18.7	89.5	14.8
CIBA SEEDS 4652W	131.5	19.6	88.9	15.0
ZIMMERMAN Z63W	129.1	19.8	89.8	11.7
DEKALB DK703W	128.5	19.3	90.9	8.0
PIONEER BRAND 3281W	125.4	18.9	92.4	3.9
NORTHROP KING N7580W	125.2	19.3	89.2	4.8
CIBA SEEDS 4592W	124.4	18.9	88.2	8.2
VINEYARD SEED V-449W	123.5	18.9	90.1	4.4
VINEYARD SEED V-58W	122.5	19.3	91.5	7.0
LYNK'S SEED 2831W	122.4	20.6	90.2	11.8
ZIMMERMAN Z61W	120.9	18.9	88.5	13.0
ICI SEEDS 8122W	120.8	21.2	89.4	10.9
CARGILL 8097W	119.5	18.2	92.5	14.7
CARGILL 9402W	118.0	20.9	90.5	11.6
SO. STATES SS922W	117.5	21.5	88.9	12.2
SO. STATES SS917W	115.2	20.5	88.1	11.8
DEKALB NB742W	110.9	18.8	88.8	10.1
DEKALB NB739W	108.0	18.6	86.7	6.3
WHITE AVERAGE**	123.7	19.4	89.3	9.8
GRAND AVERAGE**	130.0	18.6	90.0	7.9
LSD (0.10)	10.9	0.5	2.5	4.0

\* 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 mean in that column.

\*\* Average contains data from two unreported experimental hybrids.

**Table 5. Two-Year Summary, 1992-93, All Non-Virus Locations**

BRAND/HYBRID	YIELD BU/AC 92-93	AVG % MOIST 92-93	AVG % STAND 92-93	TOT % LODGED 92-93
<b>EARLY YELLOW HYBRIDS</b>				
DEKALB DK646	164.2	17.9	89.7	6.3
PIONEER BRAND 3394	162.8	16.9	89.9	2.9
COLBERT 230	155.6	17.6	92.2	3.5
ICI SEEDS 8513	148.1	17.6	91.2	2.9
FR618 X FR600	145.5	17.2	94.2	5.2
<b>MEDIUM YELLOW HYBRIDS</b>				
ASGROW RX919	171.1*	20.9	92.3	4.4
PIONEER BRAND 3140	170.1*	19.5	90.4	4.7
SO. STATES SS943	169.2*	21.4	88.8	4.0
BO-JAC 629	167.7*	19.0	93.9	4.6
CIBA SEEDS 4671	167.6*	20.1	91.4	3.3
CARGILL 9027	166.5*	19.5	92.8	6.2
BECK'S 72X	164.8*	18.3	89.9	9.4
PIONEER BRAND 3245	164.7*	18.1	90.1	6.5
AGRIGOLD A-6690	163.3	18.9	93.8	4.4
STEWART HYBRIDS S-9213	163.3	19.1	92.6	6.4
ICI SEEDS 8315	162.2	19.3	92.7	9.5
ADLERS 7850	162.1	19.0	91.8	4.5
BO-JAC 925	161.9	18.8	93.9	1.7
SO. STATES SS812	161.9	18.8	91.7	3.0
ADLERS 6130	161.7	18.8	92.8	4.1
JACQUES 9220	161.6	19.8	92.7	7.9
COLBERT 324	161.2	19.2	93.4	6.2
PIONEER BRAND 3279	160.9	18.7	91.0	3.6
PRAIRIE STREAM SX556	160.8	18.5	89.2	2.0
COLBERT 326	160.6	19.1	91.7	9.0
CROW'S 667	160.6	18.7	91.9	4.9
BECK'S 68	160.5	18.4	91.5	2.2
CROW'S 670	159.6	20.1	89.8	5.5
AGRATECH 787	159.5	19.4	91.9	3.9
TERRA SEED TR1167	159.3	19.2	91.8	4.2
GUTWEIN 2810	159.0	19.1	91.9	3.0
CAVERNDALE FM. CF 953	158.8	18.9	88.1	1.9
AGRATECH 757	158.2	19.0	91.7	4.7
ZIMMERMAN Z27	157.9	19.1	91.2	8.2
AGRIGOLD A-6715	157.8	19.0	92.6	3.1
SO. CROSS SC-612	157.5	19.2	90.3	1.1
CALLAHAN C7269	157.4	19.0	92.7	4.8
AGRIGENE AG 7935	157.3	19.6	91.5	4.2
PRAIRIE STREAM SX702	157.3	19.0	87.7	8.3
DEKALB DK715	157.2	19.9	89.0	2.3
GLICK SEED GH801	156.7	18.7	91.0	4.9
NORTHROP KING N7989	156.6	19.3	91.1	4.3
CROW'S 669	156.3	19.4	91.8	2.7
GUTWEIN 2680	155.7	18.7	89.3	4.8
CALLAHAN C776	155.6	19.6	91.7	3.6

**Table 5. Two-Year Summary, 1992-93, All Non-Virus Locations (continued)**

BRAND/HYBRID	YIELD	AVG %	AVG %	TOT %
	BU/AC 92-93	MOIST 92-93	STAND 92-93	LODGED 92-93
CARGILL 7997	155.4	18.9	94.7	7.7
SO. CROSS SC-412	155.1	18.9	88.7	4.7
GUTWEIN 2751	154.3	19.0	92.5	4.8
CAVERNDALE FM. CF 800A	154.2	19.1	88.6	2.6
CAVERNDALE FM. CF 950	154.0	19.9	88.2	3.4
JACQUES 8210	153.4	19.2	91.8	4.1
CIBA SEEDS 4631	153.3	19.6	89.6	2.1
NORTHRUP KING N7707	153.1	18.7	92.2	2.0
JACQUES 7970	152.9	18.7	91.2	4.3
NORTHRUP KING N6330	150.8	17.5	91.7	4.3
TERRA SEED TR1180	150.8	19.7	89.0	3.3
PRAIRIE STREAM SX704	149.1	18.7	88.7	3.6
SCOTT SEED S3350	147.8	18.5	90.5	2.4
SO. CROSS SC-411	147.3	18.3	87.5	2.7
NORTHRUP KING PX9540	146.7	18.5	89.2	3.5
FR27 X MO17	140.5	17.9	92.9	7.7
<b>LATE YELLOW HYBRIDS</b>				
DEKALB DK743	172.9*	20.6	91.8	6.3
PIONEER BRAND 3165	168.6*	21.5	92.7	3.3
NORTHRUP KING N8727	164.7*	20.1	91.8	2.5
PIONEER BRAND 3154	161.0	20.3	91.9	8.8
AGRIGENE AG 7900	153.0	20.4	92.5	7.3
FR27 X PA91	153.0	20.6	92.1	9.5
<b>YELLOW AVERAGE</b>	<b>158.4</b>	<b>19.1</b>	<b>91.2</b>	<b>4.6</b>
<b>WHITE HYBRIDS</b>				
ASGROW RX795	157.1	19.2	89.9	8.1
CIBA SEEDS 4652W	153.8	20.8	90.4	8.6
ZIMMERMAN Z63W	153.7	20.8	89.7	7.3
PIONEER BRAND 3281W	152.3	19.6	92.4	2.3
ZIMMERMAN Z61W	152.2	19.6	90.6	7.4
CARGILL 9402W	150.6	21.5	92.2	6.7
ICI SEEDS 8122W	150.2	21.4	90.4	6.2
NORTHRUP KING N7580W	149.3	19.9	91.0	2.8
VINEYARD SEED V-58W	148.9	20.1	91.8	4.2
SO. STATES SS917W	147.9	21.1	90.5	7.7
SO. STATES SS922W	145.7	22.6	91.6	6.6
VINEYARD SEED V-449W	142.8	19.4	90.5	3.0
DEKALB NB742W	131.7	19.1	89.4	6.5
DEKALB NB739W	131.1	19.2	87.3	3.9
<b>WHITE AVERAGE</b>	<b>147.7</b>	<b>20.3</b>	<b>90.5</b>	<b>5.8</b>
<b>GRAND AVERAGE</b>	<b>156.5</b>	<b>19.3</b>	<b>91.1</b>	<b>4.8</b>
LSD (0.10)	8.6	0.6	2.4	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 mean in that column.

**Table 6. Three-Year Summary, 1991-93, All Non-Virus Locations**

BRAND/HYBRID	YIELD BU/AC 91-93	AVG % MOIST 91-93	AVG % STAND 91-93	TOT % LODGED 91-93
<b>EARLY YELLOW HYBRIDS</b>				
PIONEER BRAND 3394	147.8	15.7	87.8	3.2
COLBERT 230	141.6	16.1	89.1	3.3
<b>MEDIUM YELLOW HYBRIDS</b>				
ASGROW RX919	154.9*	18.8	88.0	5.5
PIONEER BRAND 3140	153.9*	17.6	87.5	4.7
BO-JAC 629	152.7*	17.3	90.2	3.9
BO-JAC 925	151.9	17.2	91.4	1.9
BECK'S 72X	151.6	16.8	87.5	8.8
CIBA SEEDS 4671	150.3	18.1	88.5	3.6
CARGILL 9027	149.5	18.0	89.8	5.5
STEWART HYBRIDS S-9213	149.3	17.2	90.7	4.9
BECK'S 68	149.2	16.8	89.5	2.1
COLBERT 326	149.1	17.3	90.5	7.0
AGRIGOLD A-6690	148.9	17.2	90.7	4.2
ADLERS 6130	148.4	17.1	90.2	4.0
PIONEER BRAND 3245	147.5	16.6	88.0	5.2
AGRIGENE AG 7935	147.4	18.0	88.3	4.6
ZIMMERMAN Z27	146.8	17.2	88.6	6.7
ICI SEEDS 8315	146.0	17.4	89.5	7.7
GLICK SEED GH801	145.9	17.1	89.0	4.1
CARGILL 7997	145.8	17.5	91.8	6.2
DEKALB DK715	145.7	18.2	86.6	2.2
AGRIGOLD A-6715	144.7	17.3	90.8	2.5
COLBERT 324	144.4	17.5	91.1	4.6
CROW'S 670	144.3	18.0	86.9	6.1
AGRATECH 787	143.9	17.5	88.2	3.6
SO. STATES SS812	143.7	16.9	88.6	3.0
JACQUES 8210	143.4	17.8	90.1	3.8
PRAIRIE STREAM SX702	142.3	17.2	85.4	8.5
CALLAHAN C776	141.9	17.9	90.0	3.6
JACQUES 7970	141.6	17.3	89.3	4.2
CROW'S 669	141.2	17.9	89.2	2.9
CIBA SEEDS 4631	140.2	18.1	87.3	2.4
TERRA SEED TR1180	139.7	17.8	88.0	3.4
AGRATECH 757	138.6	17.1	88.6	3.9
NORTHRUP KING PX9540	138.0	17.0	87.8	2.8
CAVERNDALE FM. CF 950	137.7	17.9	85.8	4.1
SO. CROSS SC-411	134.4	16.9	85.3	2.5
SCOTT SEED S3350	133.4	17.1	86.8	2.4
FR27 X MO17	129.1	16.4	87.3	7.2
<b>LATE YELLOW HYBRIDS</b>				
DEKALB DK743	159.2*	18.6	88.9	7.7
PIONEER BRAND 3165	153.0*	19.4	89.4	3.4
NORTHRUP KING N8727	151.0	18.7	89.9	2.4
PIONEER BRAND 3154	149.1	18.3	88.3	8.6
FR27 X PA91	137.8	18.9	89.2	8.8
<b>YELLOW AVERAGE</b>	145.4	17.5	88.8	4.6
<b>WHITE HYBRIDS</b>				
ZIMMERMAN Z63W	141.4	18.9	88.3	6.5
PIONEER BRAND 3281W	139.1	17.9	90.4	3.0
ZIMMERMAN Z61W	138.1	17.8	88.2	6.1
VINEYARD SEED V-58W	137.1	18.4	89.5	4.2
SO. STATES SS917W	137.1	19.4	88.7	6.8
DEKALB NB742W	124.5	17.6	86.1	5.5
DEKALB NB739W	122.7	17.5	85.6	4.4
<b>WHITE AVERAGE</b>	134.3	18.2	88.1	5.2
<b>GRAND AVERAGE</b>	143.9	17.6	88.7	4.7
<b>LSD (0.10)</b>	6.7	0.4	2.0	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 mean in that column.

**Table 7. Annual Summary, Virus Test, Frankfort, KY**

BRAND/HYBRID	YIELD	AVG %	AVG %	TOT %	VIRUS
	BU/AC 1993	MOIST 1993	STAND 1993	LODGED 1993	INDEX 1993
<b>YELLOW HYBRIDS</b>					
PIONEER BRAND 3215	136.7*	25.0	85.2	0.0	1.0
DEKALB DK689	124.4*	25.5	91.2	2.1	1.1
NORTHRUP KING S8645	97.5	24.8	84.3	0.6	1.1
ASGROW RX923	132.9*	24.4	84.7	1.1	1.2
ASGROW RX919	125.9*	24.1	85.2	2.7	1.2
SO. STATES SS943	113.0*	28.5	79.2	1.6	1.2
BECK'S 87MDM	93.1	30.6	67.6	0.7	1.2
ICI SEEDS SB1860	89.8	29.2	83.3	2.0	1.2
CIBA SEEDS 4680	117.6*	23.2	91.2	0.0	1.3
SO. CROSS SC-912	114.5*	26.7	81.0	0.6	1.3
DEKALB DK683	100.3	28.1	93.1	1.5	1.3
JACQUES 8410	100.1	25.4	89.4	3.2	1.3
ICI SEEDS N8120	100.0	29.3	81.9	1.1	1.3
TERRA SEED TR1180	98.1	24.2	92.1	1.0	1.3
JACQUES 9220	93.7	24.4	73.1	0.5	1.3
SO. STATES SS883A	113.1*	29.9	90.7	0.0	1.4
DEKALB DK743	112.2*	23.3	84.7	1.6	1.4
SO. STATES SS883	111.5*	24.3	85.6	1.6	1.4
BO-JAC 629	106.5	23.2	81.5	1.1	1.4
PIONEER BRAND 3154	91.0	26.8	79.2	0.0	1.4
AGRATECH 9250	110.9*	26.4	89.4	0.5	1.5
TERRA SEED TR 700E	106.4	25.0	82.4	4.7	1.5
AGRATECH 888	98.6	25.7	85.2	2.7	1.5
CARGILL 8936	95.9	24.5	79.6	2.6	1.5
JACQUES 8250	95.8	22.8	78.7	0.5	1.5
CAVERNDALE FM. CF900	92.8	24.4	66.2	4.5	1.5
BECK'S 85MDM	88.7	26.3	81.5	0.0	1.5
SCOTT SEED S5272	78.2	28.4	66.2	0.0	1.5
PIONEER BRAND 3156	120.7*	27.1	85.6	0.0	1.6
CIBA SEEDS 4671	91.9	24.2	83.3	4.6	1.6
JACQUES 8240	91.8	24.2	87.0	2.4	1.6
CAVERNDALE FM. CF 900A	84.1	27.2	78.2	1.2	1.6
AGRIGENE AG 7935	97.6	23.5	81.9	4.8	1.7
AGRATECH 8950	85.7	23.3	79.6	4.4	1.7
BO-JAC 7195	94.6	25.9	75.9	0.0	2.0
BECK'S 81MVP	70.0	25.0	54.6	2.0	2.2
BO-JAC 925	78.2	24.0	77.8	1.1	2.3
PFISTER HYB. X3350 VR	66.5	21.9	70.4	4.6	2.3
PFISTER HYB. X497 VR H	83.4	22.4	76.9	10.0	2.6
STEWART HYBRIDS 1458	71.9	23.8	74.5	12.4	2.6
PFISTER HYB. X3250 VR	65.5	21.1	82.9	2.7	2.6
ASGROW X9063	90.6	23.8	79.2	4.9	3.0
PFISTER HYB. X496 VR H	78.1	22.2	73.1	3.3	3.1
CHECK HYBRID YELLOW	62.1	20.7	91.2	6.1	3.6
<b>YELLOW AVERAGE</b>	<b>97.1</b>	<b>25.1</b>	<b>81.0</b>	<b>2.3</b>	<b>1.7</b>
<b>WHITE HYBRIDS</b>					
VINEYARD V472W	117.2*	24.5	92.6	0.0	1.1
AGRIGOLD A-6796W	90.0	27.1	88.9	6.3	1.6
VINEYARD SEED VX4532W	83.5	23.3	92.6	2.6	2.2
CHECK HYBRID WHITE	86.1	22.5	91.7	10.9	2.6
VINEYARD VX4322W	62.7	23.0	90.7	7.2	3.6
<b>WHITE AVERAGE</b>	<b>87.9</b>	<b>24.1</b>	<b>91.3</b>	<b>5.4</b>	<b>2.2</b>
<b>GRAND AVERAGE</b>	<b>96.2</b>	<b>25.0</b>	<b>82.1</b>	<b>2.6</b>	<b>1.7</b>
LSD (0.10)	26.5	1.9	14.5	5.0	1.1
C.V.	20.5	5.7	13.2	141.9	48.5

\* 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 mean in that column.

Table 8. Annual Summary, Hickman, KY

BRAND/HYBRID	YIELD BU/AC 91-93	YIELD BU/AC 92-93	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
<b>EARLY YELLOW HYBRIDS</b>						
PIONEER BRAND 3394	151.1*	146.9*	129.7*	16.9	83.8	17.5
FR618 X FR600		141.6*	105.5*	17.0	94.4	14.4
STEWART HYBRIDS S-9312			96.4	16.3	83.3	16.1
AGRIGOLD A-6605			90.4	17.0	81.9	13.0
CAVERNDALE FM. CF 790			89.6	17.6	73.1	5.1
AGRIGOLD A-6470			85.9	16.6	96.3	17.3
COLBERT 230	133.1	125.9	82.9	15.4	89.8	10.8
CIBA SEEDS 4494			81.1	15.7	85.2	8.1
ICI SEEDS 8513			79.6	16.8	85.2	12.9
CROW'S 510		118.2	76.8	16.3	76.9	16.8
DEKALB DK646		123.8	71.5	16.6	81.9	7.1
<b>MEDIUM YELLOW HYBRIDS</b>						
PIONEER BRAND 3140	159.0*	159.6*	141.5*	19.3	92.6	8.0
BO-JAC 629	150.4*	147.9*	120.1*	18.1	91.7	10.7
CAVERNDALE FM. CF 950	138.0	135.1	114.4*	18.1	84.7	6.8
SO. STATES SS943		146.9*	112.4*	19.8	89.4	16.1
ASGROW RX919	153.1*	146.1*	111.4*	19.8	89.8	13.3
JACQUES 8240			109.2*	17.9	90.7	8.3
TERRA SEED TR1167		127.7	107.9*	17.5	92.1	8.9
JACQUES 9220		135.2	107.5*	20.5	93.5	18.7
ASGROW RX897			106.6*	18.0	90.3	9.5
BECK'S 72X	151.5*	136.9*	105.1*	17.4	78.7	23.9
GLICK SEED GH752			104.6*	18.9	86.1	6.5
CIBA SEEDS 4671	143.6	135.7	103.7	19.7	91.2	11.1
GUTWEIN 2680		135.9*	103.2	18.1	86.6	16.9
DEKALB DK668			102.6	17.7	85.2	8.1
CROW'S 668			101.3	18.8	86.1	4.9
SO. CROSS SC-902			101.1	17.1	76.4	11.3
CROW'S 667		135.7	101.0	17.4	88.4	4.7
CALLAHAN C776	141.5	132.5	99.2	17.7	91.7	9.5
PIONEER BRAND 3279		127.2	98.8	19.3	88.0	10.8
AGRIGENE AG 7935	142.0	132.4	97.4	18.3	84.7	14.1
PRAIRIE STREAM SX556		129.2	96.8	17.7	72.2	5.1
PRAIRIE STREAM SX704		127.6	96.5	17.4	83.8	14.9
DEKALB DK683			96.3	18.8	88.9	10.9
AGRIGENE AG 7890			95.7	18.8	91.7	10.8
PRAIRIE STREAM SX702	146.2	139.8*	95.7	18.5	77.8	16.1
CAVERNDALE FM. CF 953		131.3	95.3	18.2	82.4	6.1
AGRATECH 810			95.0	18.6	90.3	6.6
ICI SEEDS 8315	147.9*	133.9	94.5	18.3	85.6	15.2
COLBERT 324	139.4	129.9	93.8	17.3	92.1	4.9
STEWART HYBRIDS S-9315			93.1	19.5	79.6	12.0
VORIS 8020			93.1	17.5	88.9	7.7
CALLAHAN C783		132.7	92.8	19.1	89.8	11.3
SO. CROSS SC-412		125.9	92.8	16.7	78.7	6.5
COLBERT 326	139.3		92.7	18.1	88.9	14.3
AGRIGENE AG 7885			91.7	16.9	88.9	8.4
CARGILL 9027	133.1	127.6	90.6	18.6	87.0	8.1
TERRA SEED TR641E			90.2	18.9	87.5	13.7
CIBA SEEDS 4631	131.7	125.0	90.1	18.6	91.7	7.5
SO. STATES SS812	136.0	126.1	88.8	18.6	86.1	10.2
GUTWEIN 2656			87.5	17.3	82.4	8.0
ADLERS 7850		131.0	86.0	17.5	93.1	10.4
ASGROW RX775			85.4	17.2	83.3	21.2
ADLERS 6130	130.7	123.8	85.1	19.1	88.4	14.8
CROW'S 669	133.2	123.5	84.5	18.5	89.4	11.4
JACQUES 8210	131.7	123.9	84.2	18.5	80.6	16.2
BO-JAC 925	147.2	130.8	82.6	17.6	91.2	6.5
PIONEER BRAND 3163			82.5	18.3	78.2	18.5
BO-JAC 7195			82.1	17.2	89.4	8.9
CALLAHAN C7269		121.0	82.1	17.1	92.1	5.1
BECK'S 68	139.2	125.7	81.3	17.1	89.4	4.1
DEKALB DK715	138.8	121.7	81.0	18.9	80.1	9.3
COLBERT 279			80.3	16.6	91.7	12.8
GUTWEIN 2751		122.4	80.1	18.9	92.1	10.0
AGRATECH 787	137.2	129.5	80.0	17.3	90.3	21.6
PIONEER BRAND 3245	134.3	131.2	79.3	17.1	85.2	15.2
LYNKS SEEDS 2868			79.3	18.6	91.7	8.3
STEWART HYBRIDS S-9213	144.5	124.8	79.0	17.3	87.5	15.1
AGRATECH 757	130.5	124.2	77.8	17.5	88.4	9.5
SO. STATES SS682			77.5	18.2	86.6	17.5
GUTWEIN 2810		115.2	77.4	17.7	91.7	10.1

Table 8. Annual Summary, Hickman, KY (continued)

BRAND/HYBRID	YIELD	YIELD	YIELD	AVG %	AVG %	TOT %
	BU/AC 91-93	BU/AC 92-93	BU/AC 1993	MOIST 1993	STAND 1993	LODGED 1993
DEKALB DK714			76.5	18.1	86.1	23.2
NORTHROP KING N7707		121.2	71.9	17.5	88.9	5.6
AGRIGOLD A-6715	140.6	123.8	71.1	17.7	88.9	12.0
GLICK SEED GH801	128.8	121.3	70.4	18.6	85.2	5.5
VORIS 7530			69.9	17.5	79.2	11.8
JACQUES 7970	138.0	125.5	67.1	18.1	88.0	12.5
ASGROW RX896			67.0	17.3	88.0	5.8
ZIMMERMAN Z29			66.5	18.5	78.7	9.4
ZIMMERMAN Z27	136.3	120.1	66.4	16.9	90.7	12.9
SO. STATES SS742A			66.2	17.0	89.8	5.7
SO. CROSS SC-411	119.9	110.7	65.0	17.6	71.3	7.4
PIONEER BRAND 3156			64.1	17.9	81.5	19.4
CAVERNDALE FM. CF 800A		112.1	63.5	20.2	81.0	4.0
CROW'S 670	120.0	113.6	62.7	18.6	76.4	14.6
NORTHROP KING N6330		113.0	62.6	17.4	82.9	17.8
FR27 X M017	115.0	114.9	61.8	17.5	95.4	18.5
TERRA SEED E 1168			61.8	17.3	93.5	9.8
SO. CROSS SC-612		116.6	61.2	17.3	91.2	2.0
NORTHROP KING N7989		117.4	60.6	17.1	74.1	12.7
NORTHROP KING PX9540	116.2	102.8	59.9	17.9	88.4	22.0
BECK'S 81MVP			59.3	17.6	83.8	4.4
TERRA SEED TR1180	115.8	104.2	58.7	18.3	82.9	2.9
SCOTT SEED S5263			58.6	17.1	83.3	9.3
CARGILL 7997	131.3	107.7	57.5	17.9	98.6	7.1
AGRIGOLD A-6690	135.7	117.7	56.8	18.0	90.7	9.2
CALLAHAN C7265			56.3	17.7	93.1	5.4
CARGILL 8327			56.2	18.1	93.1	2.5
LYNK'S SEED 2829			56.0	17.2	89.8	9.1
ICI SEEDS 8285			54.4	18.1	85.2	7.8
SCOTT SEED S3350	114.2	101.8	44.1	16.3	87.0	8.8
<b>LATE YELLOW HYBRIDS</b>						
DEKALB DK743	166.8*	154.6*	136.8*	19.2	91.2	13.1
PIONEER BRAND 3165	158.4*	158.3*	131.5*	20.2	89.8	8.8
PIONEER BRAND 3167			113.1*	21.0	88.4	8.7
PIONEER BRAND 3154	149.4*	133.7	100.9	19.4	86.6	25.0
AGRIGENE AG 7900		134.5	96.0	19.6	86.6	15.5
CIBA SEEDS 4742			92.7	21.0	85.2	6.7
ICI SEEDS N8255			86.4	21.0	83.8	12.7
NORTHROP KING N8727	144.8	130.1	85.7	19.6	88.9	8.3
FR27 X PA91	122.4	118.5	69.0	20.4	84.7	32.1
<b>YELLOW AVERAGE</b>	<b>137.7</b>	<b>127.5</b>	<b>85.6</b>	<b>18.0</b>	<b>86.7</b>	<b>11.2</b>
<b>WHITE HYBRIDS</b>						
VINEYARD SEED V-449W		114.4	100.5	19.8	85.6	12.7
CIBA SEEDS 4592W			89.8	21.1	87.5	17.4
ICI SEEDS 8122W		123.0	84.0	21.4	79.2	18.1
CARGILL 9402W		120.0	77.8	21.4	85.2	14.8
ASGROW RX795		122.7	76.7	19.6	81.5	23.5
DEKALB NB739W	113.5	105.4	76.4	18.2	71.8	16.0
PIONEER BRAND 3281W	135.8	115.1	75.4	19.5	90.3	12.1
SO. STATES SS922W		110.9	75.3	21.9	76.9	7.2
CARGILL 8097W			74.8	18.5	88.0	12.7
DEKALB DK703W			68.5	22.4	89.8	7.2
LYNK'S SEED 2831W			68.4	21.4	84.7	20.4
DEKALB NB742W	121.0	111.5	68.2	19.7	82.9	28.1
VINEYARD SEED V-58W	128.5	111.7	67.1	19.3	87.0	12.3
ZIMMERMAN Z61W	133.4	111.3	66.8	19.4	81.5	21.6
NORTHROP KING N7580W		114.4	65.9	19.5	75.9	12.8
SO. STATES SS917W	137.1	122.4	65.5	20.9	83.3	21.4
CIBA SEEDS 4652W		111.1	63.3	19.4	88.0	19.1
AGRIGOLD A-6565W			60.8	17.0	84.3	12.6
ZIMMERMAN Z64W			56.6	18.9	82.4	6.2
ZIMMERMAN Z63W	128.9	99.3	46.9	19.4	84.3	24.9
<b>WHITE AVERAGE**</b>	<b>128.3</b>	<b>113.8</b>	<b>73.5</b>	<b>19.8</b>	<b>83.7</b>	<b>15.3</b>
<b>GRAND AVERAGE**</b>	<b>136.4</b>	<b>125.1</b>	<b>83.6</b>	<b>18.3</b>	<b>86.2</b>	<b>11.9</b>
LSD (0.10)	18.9	23.8	37.3	1.6	7.6	9.1
C.V.			33.2	6.7	6.6	57.0

\* 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 mean in that column.

\*\* Average contains data from two unreported experimental hybrids.

Table 9. Annual Summary, Princeton, KY

BRAND/HYBRID	YIELD BU/AC 91-93	YIELD BU/AC 92-93	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
<b>EARLY YELLOW HYBRIDS</b>						
DEKALB DK646		166.4*	138.0*	14.1	87.5	3.2
PIONEER BRAND 3394	140.8*	161.6*	134.6*	14.3	88.4	3.7
AGRIGOLD A-6605			132.5*	14.1	85.2	1.6
FR618 X FR600		153.4*	131.4*	14.5	93.1	1.6
COLBERT 230	129.0*	142.6	125.4	14.2	93.5	3.0
AGRIGOLD A-6470			125.2	14.4	89.8	3.7
ICI SEEDS 8513		150.6*	123.9	14.6	93.1	3.6
CIBA SEEDS 4494			123.7	14.6	88.9	17.6
STEWART HYBRIDS S-9312			118.9	14.6	90.7	5.6
CAVERNDALÉ FM. CF 790			91.7	13.7	79.6	4.1
CROW'S 510			79.2	14.4	89.4	12.7
<b>MEDIUM YELLOW HYBRIDS</b>						
DEKALB DK668			152.9*	15.3	90.3	1.0
ZIMMERMAN Z29			147.3*	15.	92.6	6.1
SCOTT SEED S5263			146.8*	15.1	86.6	0.0
BO-JAC 7195			145.4*	15.1	93.5	1.5
TERRA SEED TR1167		169.0*	145.4*	15.4	91.7	2.1
PIONEER BRAND 3167			144.2*	16.4	82.4	1.5
FR27 X PA91	124.9	140.6	140.2*	17.6	90.7	16.8
SO. STATES SS943		152.7*	139.3*	15.0	87.5	0.5
BECK'S 81MVP			139.2*	14.2	82.4	5.7
COLBERT 279			139.0*	14.3	90.7	4.9
SO. STATES SS682			138.4*	14.3	93.5	1.5
COLBERT 326	143.0*	160.6*	138.2*	15.2	89.4	21.7
CARGILL 9027	136.3*	160.9*	138.0*	15.3	90.3	8.3
CROW'S 670	135.2*	159.1*	137.6*	14.2	93.5	1.4
CALLAHAN C776	139.0*	158.6*	136.5*	16.3	87.0	0.0
LYNK'S SEED 2829			136.4*	15.5	89.8	2.9
CALLAHAN C7269		150.7*	135.9*	14.8	96.3	1.5
AGRIGENE AG 7890			135.0*	15.7	94.4	3.0
ASGROW RX775			134.9*	14.1	82.9	1.8
BECK'S 68	136.3*	158.0*	134.3*	14.6	84.3	1.7
NORTHRUP KING N8727	146.4*	174.2*	134.1*	17.4	93.5	3.4
ASGROW RX919	141.2*	160.1*	133.7*	15.0	89.8	6.0
GLICK SEED GH801	142.8*	153.7*	133.4*	15.0	91.2	1.5
AGRIGENE AG 7935	142.7*	154.9*	133.2*	16.2	94.0	5.4
COLBERT 324	139.3*	153.4*	132.1*	17.8	96.8	1.9
ADLERS 6130	144.7*	163.0*	131.7*	15.2	89.4	5.5
CALLAHAN C783			131.6*	16.5	91.7	2.1
ICI SEEDS 8315	137.9*	153.9*	131.2*	15.0	94.4	16.7
CIBA SEEDS 4671	141.1*	162.2*	130.2*	14.9	85.6	4.8
PIONEER BRAND 3245	139.7*	162.2*	129.4*	14.3	82.4	11.8
AGRIGOLD A-6690	144.5*	164.9*	129.3*	15.2	94.4	3.4
NORTHRUP KING PX9540	134.5*	145.8	129.3*	14.6	91.2	1.1
GUTWEIN 2810		154.6*	128.8*	16.0	87.5	1.6
SO. CROSS SC-902			128.7*	14.9	84.3	2.3
DEKALB DK743	140.6*	153.8*	128.4*	16.5	92.1	14.0
BO-JAC 629	140.3*	157.3*	128.3*	14.9	93.1	3.0
TERRA SEED TR641E			128.2*	15.6	86.1	4.9
PIONEER BRAND 3165	137.3*	156.6*	128.1*	15.3	87.5	2.2
PIONEER BRAND 3156			128.0*	15.5	90.7	13.2
CALLAHAN C7265			127.1*	15.5	89.8	1.1
CARGILL 8327			127.0*	15.3	87.0	4.9
SO. STATES SS742A			126.9*	15.0	92.6	0.0
AGRATECH 757	130.7*	149.7	126.9*	15.9	89.8	2.6
STEWART HYBRIDS S-9213	138.7*	153.1*	126.6*	14.5	89.8	3.6
DEKALB DK714			126.6*	15.3	92.1	11.8
CROW'S 668			126.4*	15.4	89.8	2.9
PIONEER BRAND 3154	143.8*	160.3*	126.3*	15.7	91.2	24.6
ASGROW RX897			125.9	15.1	89.4	2.0
JACQUES 9220		145.1	125.9	15.8	88.4	22.7
AGRATECH 810			124.6	15.8	86.1	0.0
JACQUES 8210	133.8*	151.2*	124.2	16.0	93.5	17.6
DEKALB DK683			123.8	15.7	91.2	4.9
GUTWEIN 2656			123.3	14.3	89.8	9.2
JACQUES 7970	130.7*	145.4	123.3	15.1	88.9	11.5
SO. STATES SS812	133.2*	158.4*	123.1	14.8	93.1	2.0
SO. CROSS SC-411	132.7*	144.8	122.9	14.8	81.9	3.6
AGRATECH 787	135.7*	153.3*	122.8	14.7	85.6	5.0
CAVERNDALÉ FM. CF 800A		156.0*	122.4	15.2	82.4	1.1
SO. CROSS SC-612		155.8*	122.4	15.0	90.7	1.0
PIONEER BRAND 3279		153.7*	121.6	14.7	88.0	1.7



Table 9. Annual Summary, Princeton, KY (continued)

BRAND/HYBRID	YIELD BU/AC 91-93	YIELD BU/AC 92-93	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
STEWART HYBRIDS S-9315			120.9	16.0	88.0	31.7
PIONEER BRAND 3140	136.8*	154.5*	120.7	15.0	88.0	2.2
LYNKS SEEDS 2868			120.7	16.1	85.6	0.0
CIBA SEEDS 4742			120.5	18.4	87.5	2.7
PRAIRIE STREAM SX556		155.3*	119.5	14.7	94.4	3.4
ICI SEEDS 8285			119.4	15.3	90.7	3.0
ZIMMERMAN Z27	139.1*	152.0*	117.6	14.5	89.8	12.1
AGRIGENE AG 7885			117.6	14.7	93.5	3.5
GUTWEIN 2751		139.7	117.6	14.9	91.7	5.6
GUTWEIN 2680		142.4	117.5	14.3	84.7	18.3
FR27 X MO17	124.4	134.4	117.0	14.1	95.4	11.6
AGRIGENE AG 7900		144.2	116.8	17.4	94.9	18.9
VORIS 7530			115.7	14.3	81.0	1.2
ICI SEEDS N8255			115.7	16.5	87.0	1.6
AGRIGOLD A-6715	134.7*	148.7	115.3	14.5	91.2	0.0
NORTHROP KING N6330		148.5	115.3	14.6	91.2	12.6
PRAIRIE STREAM SX704		147.6	115.1	14.2	75.5	6.8
DEKALB DK715	137.9*	148.6	114.7	16.1	81.0	3.4
ADLERS 7850		153.1*	114.6	15.1	93.1	1.4
CAVERNDALE FM. CF 953		147.2	112.4	14.9	88.9	4.6
CROW'S 667		159.0*	112.3	15.5	89.8	3.1
TERRA SEED E 1168			111.9	15.2	93.5	3.5
TERRA SEED TR1180	134.4*	146.8	111.0	15.4	86.1	11.8
BO-JAC 925	132.6*	149.3	110.7	14.6	89.4	0.5
NORTHROP KING N7707		128.3	110.4	15.1	87.0	4.5
SCOTT SEED S3350	129.3*	137.8	110.3	15.0	84.3	1.5
ASGROW RX896			110.2	15.2	88.9	0.5
CAVERNDALE FM. CF 950	124.3	145.1	109.3	15.5	86.1	6.0
NORTHROP KING N7989		141.5	108.7	15.5	86.1	0.0
JACQUES 8240			108.5	15.5	91.2	1.5
<b>LATE YELLOW HYBRIDS</b>						
BECK'S 72X	130.4*	149.1	107.2	15.3	87.5	11.5
SO. CROSS SC-412		149.7	107.0	14.9	88.4	3.9
CROW'S 669	133.5*	150.2	106.8	16.0	85.6	2.0
GLICK SEED GH752			103.6	15.3	88.0	2.1
PIONEER BRAND 3163			102.8	14.9	84.3	0.6
PRAIRIE STREAM SX702	124.2	139.3	102.0	14.9	78.7	7.0
CIBA SEEDS 4631	119.6	134.7	101.1	16.9	86.6	0.6
CARGILL 7997	131.0*	146.4	100.1	14.7	98.6	13.0
VORIS 8020			99.3	14.8	88.9	1.5
<b>YELLOW AVERAGE</b>	<b>135.7</b>	<b>151.9</b>	<b>123.7</b>	<b>15.2</b>	<b>89.1</b>	<b>5.5</b>
<b>WHITE HYBRIDS</b>						
ASGROW RX795		153.1*	132.3*	16.0	88.4	8.5
ZIMMERMAN Z64W			131.8*	16.4	88.4	7.2
CARGILL 8097W			128.4*	15.2	88.0	5.5
ZIMMERMAN Z61W	128.8*	149.8	127.3*	15.8	92.1	1.5
AGRIGOLD A-6565W			122.2	16.0	83.3	1.6
CIBA SEEDS 4592W			120.6	14.8	84.3	0.5
ZIMMERMAN Z63W	129.2*	147.4	120.4	17.3	86.1	3.2
NORTHROP KING N7580W		125.3	119.0	15.7	89.8	1.0
PIONEER BRAND 3281W	123.1	138.6	118.4	15.5	92.1	2.4
VINEYARD SEED V-449W		132.8	110.8	16.1	93.5	2.9
DEKALB DK703W			109.5	15.6	91.2	7.2
SO. STATES SS922W		147.5	104.9	18.0	89.4	6.3
CIBA SEEDS 4652W		135.7	103.8	16.3	88.9	6.9
CARGILL 9402W		138.6	100.7	18.4	90.3	16.2
SO. STATES SS917W	123.6	130.9	100.6	17.6	90.7	6.1
ICI SEEDS 8122W		141.7	100.1	17.4	89.4	20.5
VINEYARD SEED V-58W	117.4	129.0	99.5	17.0	93.5	4.5
DEKALB NB742W	111.3	123.6	99.1	15.4	92.6	22.1
LYNK'S SEED 2831W			98.2	17.5	89.8	11.1
DEKALB NB739W	117.9	136.7	97.9	14.8	81.9	4.9
<b>WHITE AVERAGE**</b>	<b>121.6</b>	<b>137.9</b>	<b>112.7</b>	<b>16.2</b>	<b>89.2</b>	<b>6.9</b>
<b>GRAND AVERAGE**</b>	<b>133.7</b>	<b>149.5</b>	<b>121.8</b>	<b>15.4</b>	<b>89.1</b>	<b>5.7</b>
LSD (0.10)	17.8	23.7	26.7	1.2	7.3	9.7
C.V.			16.3	5.8	6.1	126.2

\* 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 mean in that column.

\*\* Average contains data from two unreported experimental hybrids.

Table 10. Annual Summary, Dixon, KY

BRAND/HYBRID	YIELD BU/AC 91-93	YIELD BU/AC 92-93	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
<b>EARLY YELLOW HYBRIDS</b>						
DEKALB DK646						
PIONEER BRAND 3394	159.5*	188.2*	162.9*	20.2	89.4	6.1
AGRIGOLD A-6470		175.5*	160.2*	17.9	88.9	4.7
STEWART HYBRIDS S-9312			153.1*	19.1	92.6	2.0
ICI SEEDS 8513			150.8*	19.9	88.9	3.1
CROW'S 510		155.5	142.1*	18.5	80.6	4.0
CIBA SEEDS 4494			130.2	19.4	88.4	1.1
AGRIGOLD A-6605			127.1	18.4	86.1	2.1
FR618 X FR600		144.7	126.8	18.4	70.4	5.6
COLBERT 230	152.2	164.8	116.3	17.0	94.0	2.1
CAVERNDALE FM. CF 790			113.1	19.8	83.3	3.1
			106.1	19.9	74.5	0.6
<b>MEDIUM YELLOW HYBRIDS</b>						
ZIMMERMAN Z27	174.3*	192.7*	183.7*	20.8	92.1	7.0
CARGILL 9027	173.1*	195.0*	178.3*	19.1	95.4	1.4
DEKALB DK714			174.0*	21.2	89.4	3.6
DEKALB DK668			173.5*	19.6	92.1	1.5
CARGILL 8327			172.4*	19.9	91.2	1.6
ZIMMERMAN Z29			172.3*	20.2	91.7	2.0
CARGILL 7997	160.2*	177.0*	168.3*	20.0	100.0	3.7
SCOTT SEED S3350	157.0	181.4*	166.6*	20.1	88.4	3.2
COLBERT 324	155.1	180.1*	165.5*	20.8	95.4	4.3
GUTWEIN 2810		184.3*	164.9*	19.9	92.1	2.5
NORTHRUP KING N7989		187.2*	164.8*	20.4	95.4	4.5
COLBERT 326	158.8*	175.0*	164.3*	21.5	87.0	6.9
NORTHRUP KING PX9540	159.5*	173.9	163.1*	19.6	89.4	2.6
PIONEER BRAND 3163			161.1*	20.2	84.7	2.8
JACQUES 9220		178.4*	161.1*	19.3	92.6	5.5
CALLAHAN C7269		179.8*	160.8*	20.5	85.2	2.9
PIONEER BRAND 3279		172.1	160.3*	20.3	86.6	9.1
STEWART HYBRIDS S-9213	165.9*	185.2*	159.8*	20.4	89.4	3.5
BECK'S 72X	165.7*	180.4*	159.3*	17.8	84.3	3.3
PIONEER BRAND 3156			158.9*	20.5	87.5	7.9
BECK'S 81MVP			158.7*	21.3	90.7	2.9
SO. CROSS SC-411	145.0	161.9	158.6*	20.0	87.0	2.7
SO. STATES SS812	156.0	176.8*	158.4*	19.2	91.2	0.5
FR27 X M017	143.5	163.2	158.2*	18.9	94.9	3.5
AGRIGENE AG 7935	156.6	173.9	158.0*	20.4	88.9	5.2
AGRIGENE AG 7890			157.6*	20.2	93.5	3.0
ICI SEEDS 8315	148.7	172.8	157.3*	20.8	92.6	6.0
AGRATECH 757	159.5*	185.1*	156.9*	20.9	92.6	2.0
BECK'S 68	157.4	174.0	155.6*	18.9	88.4	8.0
TERRA SEED TR641E			155.4*	20.4	94.4	1.9
PIONEER BRAND 3245	159.8*	180.3*	154.2	19.2	93.5	9.9
CIBA SEEDS 4631	157.4	176.4*	154.2	20.5	93.5	5.0
BO-JAC 925	161.9*	183.7*	153.8	19.0	94.4	3.9
AGRIGOLD A-6715	162.2*	179.7*	152.4	20.7	96.8	3.3
PRAIRIE STREAM SX556		175.0*	152.4	19.1	87.5	4.3
JACQUES 7970	152.6	169.0	152.3	21.0	92.1	3.7
COLBERT 279			152.2	20.6	93.1	5.0
ADLERS 7850		175.3*	152.1	20.5	83.3	3.4
GLICK SEED GH752			151.6	19.1	87.5	1.6
ICI SEEDS 8285			151.6	19.3	87.0	2.6
TERRA SEED E 1168			151.2	20.6	98.1	3.3
CAVERNDALE FM. CF 950	151.1	168.0	150.7	20.5	83.8	4.9
AGRATECH 787	163.9*	179.6*	150.4	20.2	92.6	3.5
AGRIGOLD A-6690	163.9*	179.0*	150.2	20.2	85.6	0.5
SO. STATES SS742A			150.0	21.3	91.7	6.1
DEKALB DK715	154.7	174.2	149.4	20.8	89.8	1.5
NORTHRUP KING N7707		170.7	148.2	18.9	90.3	2.0
CROW'S 669	160.0*	175.0*	148.1	19.6	88.4	1.7
SO. CROSS SC-612		175.7*	148.0	20.0	90.3	2.6
GUTWEIN 2751		172.3	146.4	20.0	90.7	3.9
BO-JAC 7195			146.4	21.5	91.2	4.6
SO. STATES SS943		177.0*	146.2	20.6	84.7	6.0
CROW'S 668			146.0	19.5	88.0	1.0
AGRIGENE AG 7885			146.0	21.0	90.7	5.4
VORIS 7530			145.4	21.1	80.6	4.8
PIONEER BRAND 3140	153.2	169.1	145.3	21.2	85.2	6.0
LYNK'S SEED 2829			144.8	20.7	81.0	3.9
PRAIRIE STREAM SX704		164.0	144.2	20.0	86.6	3.2
BO-JAC 629	162.7*	180.4*	144.1	20.2	94.0	2.9
CAVERNDALE FM. CF 953		178.4*	144.1	19.0	76.4	2.8

Table 10. Annual Summary, Dixon, KY (continued)

BRAND/HYBRID	YIELD BU/AC 91-93	YIELD BU/AC 92-93	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
ASGROW RX919	162.9*	182.0*	143.5	19.4	85.6	4.3
SO. CROSS SC-412		167.9	143.3	20.3	77.8	5.5
TERRA SEED TR1180	152.6	164.3	142.4	20.8	87.5	2.6
CIBA SEEDS 4671	152.3	169.3	142.1	21.7	82.9	11.3
DEKALB DK683			141.9	21.0	85.6	4.9
ASGROW RX896			141.7	21.5	93.5	4.0
CROW'S 670	148.8	166.0	141.2	18.4	83.8	12.6
CAVERNDALE FM. CF 800A		168.9	140.9	21.0	85.6	6.1
PRAIRIE STREAM SX702	147.8	165.6	140.7	19.5	79.6	15.5
CALLAHAN C776	156.9	171.4	140.0	19.4	92.1	2.5
CALLAHAN C7265			139.3	20.3	89.4	2.0
GLICK SEED GH801	161.8*	171.6	138.3	19.3	85.6	2.6
TERRA SEED TR1167		161.8	138.0	20.6	87.5	5.3
CROW'S 667		172.0	137.2	19.9	88.9	7.8
VORIS 8020			137.1	21.0	82.4	3.5
GUTWEIN 2656			135.4	19.3	88.4	6.2
CALLAHAN C783			134.3	20.1	89.4	0.5
AGRATECH 810			133.8	19.9	85.6	4.0
SO. CROSS SC-902			133.3	19.1	94.0	6.9
SO. STATES SS682			132.5	19.8	87.5	2.6
JACQUES 8210	144.9	152.7	132.3	21.2	89.4	1.6
ADLERS 6130	155.5	167.3	131.5	20.2	85.2	4.3
LYNKS SEEDS 2868			131.0	21.2	91.2	5.6
GUTWEIN 2680		160.9	130.3	19.0	84.7	4.3
SCOTT SEED S5263			130.2	20.5	86.6	3.8
ASGROW RX775			125.8	17.1	85.6	9.0
NORTHROP KING N6330		165.6	124.7	19.6	90.7	2.0
STEWART HYBRIDS S-9315			123.2	20.2	78.7	28.2
JACQUES 8240			121.2	19.8	88.9	3.2
ASGROW RX897			111.9	19.9	77.8	1.4
<b>LATE YELLOW HYBRIDS</b>						
PIONEER BRAND 3165	167.0*	189.6*	176.6*	20.3	88.9	3.1
NORTHROP KING N8727	168.1*	186.2*	173.1*	20.2	94.0	2.5
DEKALB DK743	170.9*	189.3*	171.1*	22.4	81.9	7.4
AGRIGENE AG 7900		169.9	170.2*	21.3	89.8	2.6
PIONEER BRAND 3154	165.4*	181.4*	165.5*	21.9	93.1	4.9
CIBA SEEDS 4742			161.9*	23.7	89.4	3.6
PIONEER BRAND 3167			152.8	21.8	88.4	3.1
ICI SEEDS N8255			135.7	20.7	84.3	2.9
FR27 X PA91	134.1	158.1	116.8	21.1	89.8	9.7
<b>YELLOW AVERAGE</b>	<b>157.7</b>	<b>174.1</b>	<b>148.5</b>	<b>20.1</b>	<b>88.4</b>	<b>4.3</b>
<b>WHITE HYBRIDS</b>						
ZIMMERMAN Z64W			189.4*	20.4	90.3	4.4
ZIMMERMAN Z63W	154.2	179.9*	173.0*	21.6	89.8	7.5
CIBA SEEDS 4652W		171.2	170.3*	20.6	88.4	15.3
AGRIGOLD A-6565W			155.9	19.4	82.4	1.6
ASGROW RX795		175.1*	151.4	18.9	87.5	3.6
PIONEER BRAND 3281W	144.0	164.3	145.7	19.4	91.2	3.5
CIBA SEEDS 4592W			144.9	19.7	84.7	3.1
ICI SEEDS 8122W		160.8	140.5	22.8	88.4	4.6
DEKALB DK703W			137.9	19.9	85.6	1.1
VINEYARD SEED V-58W	145.7	164.3	137.6	20.2	89.4	7.4
LYNK'S SEED 2831W			137.5	22.1	88.9	15.3
NORTHROP KING N7580W		164.6	134.3	20.3	86.1	2.6
DEKALB NB742W	129.4	141.0	130.8	20.2	88.0	6.3
ZIMMERMAN Z61W	146.8	162.0	130.7	19.2	88.4	15.9
SO. STATES SS917W	148.9	164.8	130.6	21.7	86.1	11.1
SO. STATES SS922W		155.7	127.9	23.2	87.0	5.3
CARGILL 9402W		156.0	122.8	22.1	87.5	9.3
CARGILL 8097W			122.5	19.4	93.1	2.5
VINEYARD SEED V-449W		147.6	121.3	20.6	87.0	2.6
DEKALB NB739W	131.3	143.8	120.8	19.6	89.4	5.0
<b>WHITE AVERAGE**</b>	<b>142.9</b>	<b>160.8</b>	<b>140.9</b>	<b>20.6</b>	<b>87.6</b>	<b>6.3</b>
<b>GRAND AVERAGE**</b>	<b>155.7</b>	<b>171.8</b>	<b>147.2</b>	<b>20.2</b>	<b>88.2</b>	<b>4.7</b>
LSD (0.10)	15.8	20.4	28.4	1.3	7.8	5.2
C.V.			14.4	4.7	6.6	83.1

\* 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 mean in that column.

\*\* Average contains data from two unreported experimental hybrids.

Table 11. Annual Summary, Hopkinsville, KY

BRAND/HYBRID	YIELD BU/AC 91-93	YIELD BU/AC 92-93	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
<b>YELLOW HYBRIDS</b>						
STEWART HYBRIDS S-9312			115.0*	14.3	88.0	13.5
FR618 X FR600		146.6*	113.7*	14.1	89.4	37.2
CIBA SEEDS 4494			112.9	13.9	93.1	3.5
AGRIGOLD A-6470			112.7	13.6	88.9	36.3
PIONEER BRAND 3394	138.1*	154.9*	111.7	13.2	89.4	5.7
DEKALB DK646		150.8*	108.1	14.1	91.7	55.7
COLBERT 230	142.0*	155.3*	106.4	14.0	92.6	25.4
CAVERNDALE FM. CF 790			102.3	13.5	91.2	10.2
AGRIGOLD A-6605			99.3	14.3	92.6	32.4
CROW'S 510			81.9	15.0	95.4	19.4
ICI SEEDS 8513		128.6	81.1	14.8	95.8	7.4
<b>MEDIUM YELLOW HYBRIDS</b>						
TERRA SEED E 1168			138.5*	14.9	86.1	11.4
CROW'S 669	138.7*	159.0*	127.0*	15.2	90.7	6.7
AGRIGENE AG 7935	135.7*	150.4*	127.0*	15.2	93.5	9.8
ICI SEEDS 8285			125.8*	14.3	90.7	38.5
AGRIGENE AG 7885			124.4*	14.9	94.4	17.2
TERRA SEED TR641E			123.2*	15.8	92.1	19.2
SO. STATES SS943		157.3*	123.0*	14.8	89.4	24.1
SO. CROSS SC-612		163.1*	122.7*	14.2	90.7	5.1
ZIMMERMAN Z29			122.1*	15.3	93.5	35.5
BECK'S 68	148.3*	160.8*	121.8*	15.0	93.1	11.3
SO. STATES SS742A			121.8*	14.4	96.8	6.7
BO-JAC 629	144.5*	156.4*	119.3*	14.7	88.4	38.5
SO. CROSS SC-902			119.2*	13.9	90.3	7.1
DEKALB DK683			119.0*	14.7	93.5	11.6
PIONEER BRAND 3279		153.3*	119.0*	14.5	90.3	15.3
CIBA SEEDS 4631	132.9	148.8*	118.9*	15.8	94.9	5.5
CALLAHAN C7269		153.6*	118.7*	14.4	89.8	48.2
ASGROW RX897			118.0*	14.7	91.2	40.8
CARGILL 8327			117.6*	15.0	97.2	33.9
PIONEER BRAND 3156			117.2*	14.5	93.1	14.8
BO-JAC 7195			117.0*	14.2	91.2	46.0
SCOTT SEED S5263			115.5*	15.2	94.0	22.3
BECK'S 81MVP			115.1*	14.4	88.9	20.2
JACQUES 7970	149.4*	151.1*	115.1*	15.1	92.6	16.4
TERRA SEED TR1167		156.3*	114.9*	14.9	93.1	36.2
ASGROW RX896			114.7*	14.5	94.0	37.5
NORTHROP KING N6330		152.0*	114.5*	13.9	94.9	9.4
NORTHROP KING N7707		152.4*	112.4	15.3	93.1	7.6
ADLERS 7850		150.2*	112.4	14.5	92.1	34.7
ADLERS 6130	143.8*	153.6*	112.2	13.8	93.1	17.5
JACQUES 8210	143.1*	151.9*	111.9	15.5	95.8	6.7
STEWART HYBRIDS S-9315			111.7	14.9	90.7	45.3
DEKALB DK714			111.4	15.7	85.2	45.7
PIONEER BRAND 3140	136.7*	152.8*	110.2	14.5	90.3	37.7
SO. CROSS SC-411	128.0*	143.0*	110.2	14.5	78.2	13.7
CARGILL 9027	139.4*	156.1*	109.9	15.2	91.7	58.6
GUTWEIN 2810		155.1*	108.2	15.1	88.9	17.4
COLBERT 279			107.8	14.0	97.2	49.5
NORTHROP KING PX9540	125.2	131.9	107.8	14.9	96.3	5.8
LYNKS SEEDS 2868			107.0	15.8	92.6	31.1
SO. STATES SS682			106.8	14.4	96.3	31.7
PIONEER BRAND 3163			106.7	13.8	92.1	22.3
CROW'S 668			106.7	15.1	91.7	27.8
CAVERNDALE FM. CF 953		153.9*	106.6	14.6	96.3	6.3
GLICK SEED GH752			105.9	14.2	86.6	3.8
LYNK'S SEED 2829			105.6	14.4	88.0	30.9
AGRIGENE AG 7890			105.2	14.6	93.5	17.1
CROW'S 670	128.4	143.7*	104.6	15.4	94.9	26.5
GUTWEIN 2656			103.9	14.8	86.6	49.2
GUTWEIN 2751		144.2*	103.8	14.5	90.3	31.6
PRAIRIE STREAM SX556		148.9*	102.4	14.9	86.6	5.7
PIONEER BRAND 3245	143.8*	160.8*	102.3	14.0	91.7	35.5
AGRATECH 810			102.2	14.7	89.4	17.8
CALLAHAN C7265			100.4	14.7	93.1	14.1
AGRIGOLD A-6690	135.8*	146.9*	100.4	14.4	95.4	45.3
CIBA SEEDS 4671	136.2*	154.3*	100.2	15.3	92.1	11.4
BO-JAC 925	141.8*	149.5*	100.1	14.0	92.1	9.5
CROW'S 667		150.7*	99.9	14.4	92.1	38.2
ZIMMERMAN Z27	138.3*	150.5*	99.8	14.7	92.1	59.2
CALLAHAN C776	120.5	136.7	99.1	15.6	97.2	27.0

Table 11. Annual Summary, Hopkinsville, KY (continued)

BRAND/HYBRID	YIELD BU/AC 91-93	YIELD BU/AC 92-93	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
VORIS 8020			98.8	14.6	91.2	7.3
SO. CROSS SC-412		149.9*	98.2	14.5	89.8	42.1
SO. STATES SS812	129.8	139.5	98.2	15.0	91.7	22.6
JACQUES 8240			98.0	14.9	90.3	58.1
GUTWEIN 2680		144.5*	97.9	13.8	91.2	11.6
DEKALB DK715	139.8*	139.7	97.6	15.0	88.9	8.9
ICI SEEDS 8315	135.8*	153.3*	97.4	14.9	92.6	76.4
CAVEPNDALÉ FM. CF 800A		146.9*	96.3	13.9	94.4	10.8
TERRA SEED TR1180	119.2	130.4	95.7	14.2	89.4	16.0
SCOTT SEED S3350	124.0	137.2	95.5	15.0	89.8	7.2
BECK'S 72X	141.0*	154.3*	95.3	14.3	92.6	70.0
DEKALB DK668			95.3	15.0	90.3	33.2
AGRATECH 757	128.6	144.7*	93.6	14.2	94.0	37.2
VORIS 7530			93.5	13.9	92.1	45.2
COL BERT 326	131.4	142.6*	93.1	13.8	94.0	58.3
GLICK SEED GH801	132.7	145.4*	92.3	15.0	94.9	51.2
AGRIGOLD A-6715	135.3*	144.0*	91.8	14.4	95.8	17.8
NORTHROP KING N7989		140.2	91.3	15.6	93.1	30.5
ASGROW RX775			90.9	14.9	91.2	45.2
FR27 X MO17	129.7	129.7	90.9	14.9	93.5	49.9
PRAIRIE STREAM SX704		140.7	90.7	14.6	96.3	13.0
JACQUES 9220		138.4	90.0	14.9	92.6	29.8
CALLAHAN C783			89.7	15.5	95.4	22.2
STEWART HYBRIDS S-9213	139.5*	149.4*	88.2	14.7	90.7	57.0
AGRATECH 787	132.4	140.7	88.1	14.3	88.0	7.3
CAVERNDALÉ FM. CF 950	114.2	133.8	87.5	14.2	88.0	18.8
ASGROW RX919	129.0	141.4	85.0	14.5	86.6	25.6
CARGILL 7997	126.5	134.6	83.9	15.4	95.4	73.0
PRAIRIE STREAM SX702	121.1	137.8	76.3	15.0	91.2	52.7
COLBERT 324	125.3	143.3*	76.2	15.0	93.5	67.4
LATE YELLOW HYBRIDS						
CIBA SEEDS 4742			106.4	16.8	90.7	6.5
PIONEER BRAND 3165	133.9*	147.5*	105.7	15.8	93.1	25.6
ICI SEEDS N8255			104.4	16.8	93.5	7.0
FR27 X PA91	127.9	143.0*	100.1	16.3	92.1	46.9
PIONEER BRAND 3167			96.0	15.7	93.5	14.8
DEKALB DK743	134.3*	142.1	92.1	15.6	91.2	18.8
AGRIGENE AG 7900		123.7	88.5	17.2	93.5	29.2
NORTHROP KING N8727	126.7	135.5	88.1	15.6	92.1	8.9
PIONEER BRAND 3154	125.3	133.7	79.6	15.3	95.4	49.2
YELLOW AVERAGE	133.5	146.5	104.6	14.8	91.9	27.2
WHITE HYBRIDS						
VINEYARD SEED V-449W		149.4*	112.8	15.4	91.7	6.3
AGRIGOLD A-6565W			107.5	15.0	85.6	60.9
DEKALB NB742W	123.0	134.0	104.1	15.0	91.7	6.8
ZIMMERMAN Z63W	128.6	138.3	103.2	15.7	93.5	43.1
ASGROW RX795		139.2	101.5	15.2	93.5	62.0
CARGILL 9402W		137.6	98.0	15.7	93.5	28.9
SO. STATES SS922W		131.5	96.5	17.1	90.3	55.5
ICI SEEDS 8122W		141.1	96.1	17.3	92.6	25.0
LYNK'S SEED 2831W			95.4	16.6	92.6	28.1
ZIMMERMAN Z64W			93.8	15.0	91.7	40.3
VINEYARD SEED V-58W	124.7	133.6	91.8	16.0	91.2	17.4
ZIMMERMAN Z61W	125.7	148.3*	90.3	14.3	94.9	50.4
DEKALB NB739W	111.1	124.1	87.3	14.5	88.9	13.0
NORTHROP KING N7580W		137.2	87.1	15.3	96.8	14.3
CIBA SEEDS 4652W		134.3	86.3	15.7	85.2	59.9
PIONEER BRAND 3281W	126.1	138.0	85.5	15.1	91.2	4.5
CIBA SEEDS 4592W			82.9	14.4	92.1	31.9
DEKALB DK703W			82.6	14.6	88.4	36.5
SO. STATES SS917W	118.7	129.3	79.8	16.2	91.7	39.1
CARGILL 8097W			71.9	15.0	94.0	74.8
WHITE AVERAGE**	122.6	136.9	93.1	15.4	91.5	34.4
GRAND AVERAGE**	132.0	144.8	102.7	14.9	91.9	28.4
LSD (0.10)	16.4	20.5	25.4	0.8	6.3	22.2
C.V.			18.4	4.1	5.1	58.4

\* 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 mean in that column.

\*\* Average contains data from two unreported experimental hybrids.

Table 12. Annual Summary, Hodgenville, KY

BRAND/HYBRID	YIELD BU/AC 91-93	YIELD BU/AC 92-93	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
<b>EARLY YELLOW HYBRIDS</b>						
DEKALB DK646		188.7	170.5	16.0	85.5	0.0
PIONEER BRAND 3394	157.4	181.2	167.2	15.9	91.9	0.0
ICI SEEDS 8513		185.7	160.6	16.8	89.3	0.0
CROW'S 510			156.6	16.5	83.8	0.0
COLBERT 230	161.1	185.1	154.5	16.7	88.0	0.0
CIBA SEEDS 4494			152.3	16.2	88.0	0.0
AGRIGOLD A-6605			151.9	16.0	86.8	0.5
AGRIGOLD A-6470			144.5	16.9	88.0	0.5
FR618 X FR600		153.8	137.2	16.1	94.9	0.0
CAVERNDAL FM. CF 790			134.7	16.2	80.8	0.0
STEWART HYBRIDS S-9312			134.5	16.7	82.5	0.0
<b>MEDIUM YELLOW HYBRIDS</b>						
ASGROW RX919	186.1*	212.3*	197.9*	18.2	89.3	0.0
ZIMMERMAN Z29			187.3*	17.4	88.5	0.0
LYNKS SEEDS 2868			187.1*	17.3	92.7	0.0
SO. STATES SS943		203.6*	186.6*	17.7	91.0	0.0
COLBERT 324	181.4*	202.9*	182.5*	18.3	88.0	0.0
PRAIRIE STREAM SX556		194.2*	179.5	16.4	81.6	1.1
ICI SEEDS 8315	181.4*	199.9*	178.9	17.8	92.7	0.0
NORTHRUP KING N7989		199.2*	178.9	17.6	89.3	0.0
DEKALB DK683			178.8	16.9	89.7	0.5
DEKALB DK714			175.4	18.8	81.2	0.0
LYNK'S SEED 2829			175.2	17.8	89.3	0.0
CROW'S 670	177.5*	196.5*	175.1	17.1	86.8	0.5
PIONEER BRAND 3163			174.4	17.6	78.6	0.0
CARGILL 7997	177.2*	197.0*	173.3	18.4	97.4	0.0
PIONEER BRAND 3245	169.4	188.9	172.9	17.1	84.6	0.0
COLBERT 326	175.3*	188.8	172.8	18.0	88.0	0.0
SO. STATES SS812	170.6*	200.8*	172.5	17.8	87.6	0.0
PIONEER BRAND 3140	172.6*	195.2*	172.0	16.6	87.2	0.0
BO-JAC 925	177.3*	189.9	171.1	18.1	89.3	0.0
NORTHRUP KING N7707		183.1	170.7	18.1	88.5	0.0
COLBERT 279			170.2	16.9	89.7	0.5
CIBA SEEDS 4671	175.5*	197.1*	169.7	18.7	83.3	0.0
CROW'S 669	154.4	176.8	169.2	18.9	88.0	1.0
AGRIGOLD A-6690	180.3*	202.7*	169.1	17.6	87.2	0.0
CARGILL 9027	167.2	190.6	169.0	18.5	90.6	1.0
CROW'S 667		183.6	168.4	17.7	87.6	0.5
GUTWEIN 2680		183.2	168.1	18.0	85.9	1.1
BECK'S 68	165.8	188.7	167.6	16.5	88.0	0.5
ICI SEEDS 8285			167.4	17.7	89.7	0.0
CARGILL 8327			166.7	16.8	88.9	0.0
CALLAHAN C7265			166.3	17.2	86.3	0.0
JACQUES 8210	164.8	182.3	166.1	17.8	91.9	1.4
DEKALB DK668			165.4	17.3	88.9	0.0
AGRATECH 810			164.7	17.8	89.3	1.0
PIONEER BRAND 3279		183.0	164.7	16.7	87.2	2.4
ADLERS 6130	167.7	188.0	164.6	18.2	89.3	0.0
CAVERNDAL FM. CF 953		187.5	164.6	17.7	87.6	0.0
ASGROW RX897			164.6	17.2	91.0	0.0
NORTHRUP KING PX9540	158.3	175.6	164.6	17.6	89.3	0.5
NORTHRUP KING N6330		175.5	162.8	16.4	84.6	0.0
BO-JAC 7195			162.4	18.6	90.6	0.0
CROW'S 668			162.1	17.5	84.6	0.0
BECK'S 72X	164.0	186.2	161.6	16.2	87.2	3.8
DEKALB DK715	174.6*	191.7	160.9	18.7	86.3	0.0
CALLAHAN C7269		193.6*	160.6	17.3	87.2	0.0
JACQUES 8240			159.7	17.4	87.6	0.0
PIONEER BRAND 3156			159.6	19.1	83.3	2.6
STEWART HYBRIDS S-9213	175.2*	192.3*	159.0	17.7	86.8	0.0
AGRIGENE AG 7885			158.9	17.8	82.1	0.0
AGRIGENE AG 7935	173.4*	182.5	157.9	18.1	89.3	3.4
FR27 X MO17	153.4	167.2	157.7	17.0	93.2	0.0
JACQUES 7970	160.6	177.7	157.4	17.5	81.2	1.5
GLICK SEED GH752			156.9	17.3	87.2	0.0
VORIS 8020			156.5	17.9	87.2	0.0
CAVERNDAL FM. CF 950	162.4	176.3	155.6	17.3	77.4	0.0
ZIMMERMAN Z27	170.0	187.4	155.0	18.1	88.5	0.0
GUTWEIN 2751		175.5	154.8	18.6	89.7	0.0
TERRA SEED TR541E			154.4	17.7	85.0	0.0
GLICK SEED GH801	171.9*	188.5	154.3	16.8	83.8	0.0
CALLAHAN C776	145.6	172.9	154.0	18.3	81.2	0.0

Table 12. Annual Summary, Hodgenville, KY (continued)

BRAND/HYBRID	YIELD	YIELD	YIELD	AVG %	AVG %	TOT %
	BU/AC 91-93	BU/AC 92-93	BU/AC 1993	MOIST 1993	STAND 1993	LODGED 1993
AGRATECH 787	168.8	186.3	152.7	19.0	85.5	0.0
JACQUES 9220		183.3	152.6	18.1	89.7	5.8
TERRA SEED TR1167		183.2	151.9	17.5	91.5	0.0
GUTWEIN 2810		184.0	151.2	17.1	85.9	0.0
TERRA SEED E 1168			150.8	17.8	88.9	0.9
BO-JAC 629	168.5	178.4	150.3	17.4	93.6	0.0
AGRIGOLD A-6715	161.3	178.0	149.8	18.3	85.0	0.0
SO. CROSS SC-612		184.1	149.0	18.7	89.7	0.0
CALLAHAN C783			148.5	18.2	79.1	0.0
ASGROW RX775			148.4	16.7	87.6	0.5
VORIS 7530			148.3	17.2	83.3	0.4
STEWART HYBRIDS S-9315			147.5	17.9	80.8	9.5
SO. CROSS SC-411	149.0	175.8	147.0	17.3	85.5	0.0
GUTWEIN 2656			145.6	17.1	85.9	0.0
PRAIRIE STREAM SX702	158.8	174.8	145.2	17.3	80.3	1.7
SO. STATES SS742A			143.6	18.1	87.6	0.0
AGRATECH 757	157.2	179.8	143.3	17.9	85.5	0.5
TERRA SEED TR1180	156.7	173.3	143.2	18.9	82.9	1.0
SO. STATES SS682			143.1	15.6	87.2	0.0
SO. CROSS SC-412		169.9	141.7	18.3	82.1	0.0
ADLERS 7850		185.2	141.2	17.4	91.5	0.0
CIBA SEEDS 4631	153.5	170.0	139.6	19.3	70.9	0.0
CAVERDALE FM. CF 800A		172.8	139.4	17.1	80.3	0.0
AGRIGENE AG 7890			139.2	17.8	88.5	0.5
SCOTT SEED S5263			138.2	17.4	88.9	0.9
SCOTT SEED S3350	147.4	172.1	133.2	17.5	80.8	0.0
SO. CROSS SC-902			130.4	17.2	86.3	0.0
ASGROW RX896			130.3	18.3	90.2	0.5
BECK'S 81MVP			128.5	18.0	88.0	0.0
PRAIRIE STREAM SX704		159.2	125.2	17.9	74.4	1.1
LATE YELLOW HYBRIDS						
PIONEER BRAND 3167			208.6*	21.2	89.3	0.0
PIONEER BRAND 3154	178.2*	195.9*	199.0*	18.1	88.5	0.0
PIONEER BRAND 3165	180.7*	203.3*	193.1*	18.9	84.2	0.0
DEKALB DK743	178.7*	196.3*	182.4*	19.8	89.7	2.4
NORTHRUP KING N8727	179.0*	201.7*	182.0*	18.9	84.6	0.0
FR27 X PA91	171.5*	193.2*	167.6	18.7	93.6	1.3
ICI SEEDS N8255			167.4	18.6	90.2	0.0
AGRIGENE AG 7900		187.0	166.2	19.6	88.9	1.4
CIBA SEEDS 4742			154.1	20.0	85.5	0.0
YELLOW AVERAGE	167.8	185.7	160.4	17.7	86.9	0.5
WHITE HYBRIDS						
ZIMMERMAN Z64W			189.7*	19.1	80.3	0.0
CIBA SEEDS 4652W		193.9*	188.7*	19.5	85.0	0.0
VINEYARD SEED V-58W	157.4	178.7	176.5	19.0	88.0	0.0
DEKALB DK703W			174.9	18.3	88.0	0.9
PIONEER BRAND 3281W	168.2	187.9	162.1	19.1	90.2	0.0
LYNK'S SEED 2831W			161.3	20.9	84.6	0.0
CIBA SEEDS 4592W			160.9	18.8	82.9	0.6
ICI SEEDS 8122W		182.2	158.2	20.3	90.2	1.4
AGRIGOLD A-6565W			157.7	17.5	85.0	0.0
NORTHRUP KING N7580W		179.6	157.6	19.3	85.0	0.0
CARGILL 8097W			156.4	17.8	91.9	0.0
ASGROW RX795		178.4	151.4	18.1	90.6	1.3
ZIMMERMAN Z63W	160.2	175.7	150.5	19.7	82.9	0.0
DEKALB NB742W	149.1	160.3	149.6	18.3	82.9	0.0
SO. STATES SS922W		175.6	148.7	21.1	89.3	1.0
SO. STATES SS917W	156.8	179.0	147.8	19.5	82.5	1.1
VINEYARD SEED V-449W		168.2	143.0	18.7	82.5	0.0
CARGILL 9402W		176.8	142.8	20.9	84.2	1.4
ZIMMERMAN Z61W	151.9	171.6	139.2	19.4	78.6	0.0
DEKALB NB739W	148.1	155.2	131.4	18.1	87.6	0.5
WHITE AVERAGE**	156.0	175.9	156.7	19.1	85.3	0.4
GRAND AVERAGE**	166.2	184.0	159.8	17.9	86.6	0.5
LSD (0.10)	15.7	20.5	28.9	1.1	7.6	1.8
C.V.			13.5	4.5	6.6	292.5

\* 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 mean in that column.

\*\* Average contains data from two unreported experimental hybrids.

Table 13. Annual Summary, Lexington, KY

BRAND/HYBRID	YIELD BU/AC 91-93	YIELD BU/AC 92-93	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
<b>EARLY YELLOW HYBRIDS</b>						
AGRIGOLD A-6605			153.0*	23.0	94.4	1.5
DEKALB DK646		169.3*	153.0*	23.2	92.1	1.5
PIONEER BRAND 3394	145.9*	167.1*	151.5*	20.4	82.4	1.2
CIBA SEEDS 4494			150.6*	22.0	94.4	1.0
CROW'S 510			149.5*	22.0	94.4	1.4
COLBERT 230	131.2	154.4	135.6	21.6	95.8	0.5
STEWART HYBRIDS S-9312			132.5	21.8	88.0	2.3
ICI SEEDS 8513		148.7	130.7	22.0	98.1	0.9
AGRIGOLD A-6470			128.6	23.1	98.1	0.5
CAVERNDALE FM. CF 790			125.4	22.9	91.7	0.5
FR618 X FR600		136.5	120.0	22.0	99.1	3.7
<b>MEDIUM YELLOW HYBRIDS</b>						
PIONEER BRAND 3140	159.5*	182.8*	175.7*	24.9	96.8	1.9
PIONEER BRAND 3163			173.7*	26.0	91.2	3.0
CAVERNDALE FM. CF 800A		169.0*	166.0*	24.9	93.5	2.0
STEWART HYBRIDS S-9213	135.6	170.3*	164.3*	25.1	93.1	1.5
VORIS 8020			163.9*	24.7	94.4	1.5
ADLERS 7850		171.1*	163.8*	26.5	95.4	0.5
CARGILL 8327			163.5*	25.7	95.8	0.5
ADLERS 6130	145.6*	172.2*	162.9*	25.3	95.4	2.4
CIBA SEEDS 4671	148.7*	179.7*	162.7*	25.0	98.1	2.8
LYNKS SEEDS 2868			161.8*	25.1	94.9	1.4
PIONEER BRAND 3156			161.4*	25.8	93.1	3.0
CROW'S 667		167.9*	161.1*	24.3	95.8	1.9
JACQUES 9220		182.5*	160.9*	25.8	93.5	6.4
BECK'S 72X	158.5*	183.8*	159.7*	23.5	91.2	2.6
DEKALB DK715	134.6	170.5*	159.6*	24.9	91.7	2.0
DEKALB DK683			159.0*	24.9	87.5	2.1
TERRA SEED E 1168			157.8*	25.6	95.8	1.4
BO-JAC 629	144.8*	174.9*	156.9*	24.7	98.1	1.9
AGRIGENE AG 7890			156.7*	25.7	97.2	1.4
SO. STATES SS943		172.3*	156.4*	28.0	97.2	0.9
AGRATECH 787	133.4	172.0*	155.8*	26.2	95.4	2.4
SO. STATES SS682			155.0*	22.8	98.6	1.9
CROW'S 670	148.7*	174.5*	153.4*	26.7	96.3	2.4
GLICK SEED GH801	134.5	161.7*	153.3*	25.7	96.3	1.9
GUTWEIN 2680		167.6*	153.1*	25.5	95.4	3.4
DEKALB DK714			152.6*	26.4	93.5	3.4
CALLAHAN C783			152.3*	27.1	95.8	1.9
JACQUES 8240			152.1*	25.4	97.2	0.9
AGRIGENE AG 7885			151.9*	26.0	98.1	4.2
AGRIGOLD A-6690	134.4	159.9	150.6*	25.9	100.0	1.4
AGRIGOLD A-6715	129.1	169.6*	150.5*	25.2	100.0	1.9
ICI SEEDS 8315	127.3	160.6	150.4*	26.2	98.1	3.3
ICI SEEDS 8285			150.2*	25.4	96.8	1.9
JACQUES 7970	131.2	158.2	149.8*	23.1	95.4	3.0
CALLAHAN C776	148.8*	165.4*	149.3*	24.9	95.4	0.0
JACQUES 8210	144.4*	157.3	149.2*	24.1	95.8	0.0
ASGROW RX896			149.0*	25.7	95.4	2.0
ASGROW RX775			148.7*	23.4	92.6	0.5
COLBERT 279			148.7*	23.9	96.8	1.9
PIONEER BRAND 3245	137.9	157.9	147.0*	22.8	96.8	2.4
CARGILL 7997	153.9*	170.9*	146.8*	23.9	100.0	1.9
CARGILL 9027	142.0	171.0*	146.7*	26.0	97.2	1.4
CALLAHAN C7265			145.9	23.7	94.9	1.0
BECK'S 81MVP			145.5	25.5	87.5	0.5
SO. CROSS SC-412		155.5	144.9	26.1	88.0	2.2
ASGROW RX897			143.2	25.4	96.8	1.0
VORIS 7530			143.0	25.1	88.9	0.5
CIBA SEEDS 4631	145.6*	164.4*	143.0	25.3	94.0	1.5
BO-JAC 925	148.6*	169.3*	142.8	24.0	98.1	0.9
SO. CROSS SC-902			142.7	23.1	93.1	1.5
PRAIRIE STREAM SX704		155.0	142.6	24.0	94.0	1.5
PRAIRIE STREAM SX702	143.9*	167.4*	141.8	25.1	88.9	3.5
GUTWEIN 2656			141.6	24.0	94.9	3.8
TERRA SEED TR1180	142.4	167.0*	141.6	26.1	92.6	2.5
SO. CROSS SC-612		158.7	141.2	24.8	97.7	1.4
BO-JAC 7195			140.7	24.7	97.2	0.5
LYNK'S SEED 2829			140.6	25.5	96.3	4.8
CROW'S 669	134.1	158.6	139.7	24.9	95.8	2.4
STEWART HYBRIDS S-9315			139.3	28.2	88.4	2.1
ZIMMERMAN Z29			139.2	25.1	96.3	3.8



Table 13. Annual Summary, Lexington, KY (continued)

BRAND/HYBRID	YIELD BU/AC 91-93	YIELD BU/AC 92-93	YIELD BU/AC 1993	AVG % MOIST 1993	AVG % STAND 1993	TOT % LODGED 1993
COLBERT 324	132.1	159.3	137.9	26.0	97.2	1.9
NORTHRUP KING N7707		166.0*	137.7	24.9	94.9	1.5
AGRATECH 757	122.0	161.3*	137.5	25.8	95.4	2.0
CAVERNDALE FM. CF 953		159.1	137.5	24.7	87.5	0.5
COLBERT 326	132.1	157.2	136.8	27.4	98.6	2.3
PRAIRIE STREAM SX556		167.9*	136.3	23.4	88.4	1.5
SO. STATES SS742A			136.3	25.0	97.2	1.0
BECK'S 68	144.0*	166.9*	136.0	25.2	94.9	2.0
TERRA SEED TR1167		149.0	135.6	25.9	97.7	0.9
TERRA SEED TR641E			134.8	27.5	97.7	1.4
GLICK SEED GH752			134.1	22.9	96.3	2.9
NORTHRUP KING N7989		156.1	132.8	27.0	91.7	1.0
CALLAHAN C7269		150.9	132.7	25.4	94.9	1.0
SO. STATES SS812	134.0	167.6*	132.0	24.8	96.8	0.5
CROW'S 668			131.6	25.7	95.4	0.5
SO. CROSS SC-411	126.4	146.1	130.8	22.4	99.5	2.3
NORTHRUP KING PX9540	132.9	148.1	130.5	23.3	97.2	2.8
SCOTT SEED S5263			130.1	25.4	97.2	1.4
NORTHRUP KING N6330		153.9	130.1	23.3	98.6	2.8
ZIMMERMAN Z27	132.7	152.2	129.9	25.9	94.4	1.0
AGRATECH 810			129.8	25.5	98.1	1.4
PIONEER BRAND 3279		168.8*	129.0	23.0	95.8	1.0
AGRIGENE AG 7935	136.8	156.0	129.0	28.1	97.2	4.3
DEKALB DK668			128.9	26.2	98.1	0.9
ASGROW RX919	151.8*	176.4*	128.8	28.9	96.3	1.0
SCOTT SEED S3350	130.4	152.6	127.4	23.5	94.4	2.4
FR27 X MO17	119.4	131.0	126.2	23.3	100.0	8.8
GUTWEIN 2810		158.5	125.8	26.1	95.8	1.4
GUTWEIN 2751		156.6	125.7	25.4	97.2	1.4
CAVERNDALE FM. CF 950	127.2	154.4	106.0	28.6	90.3	0.0
LATE YELLOW HYBRIDS						
ICI SEEDS N8255			157.9*	25.7	95.4	1.9
FR27 X PA91	142.4	164.1*	156.9*	26.0	99.5	2.3
DEKALB DK743	163.1*	186.7*	155.1*	27.5	92.6	9.5
AGRIGENE AG 7900		166.8*	140.7	24.9	92.6	3.0
PIONEER BRAND 3154	136.8	159.4	139.8	26.9	97.7	1.9
CIBA SEEDS 4742			135.2	27.4	93.1	1.0
PIONEER BRAND 3165	133.7	158.3	132.5	31.1	98.1	0.9
NORTHRUP KING N8727	130.2	150.4	130.1	26.6	94.0	2.0
PIONEER BRAND 3167			117.7	33.7	88.9	2.1
YELLOW AVERAGE	138.9	162.9	144.2	25.1	95.0	1.9
WHITE HYBRIDS						
DEKALB DK703W			167.7*	25.8	96.8	0.9
VINEYARD SEED V-449W		165.6*	153.2*	23.8	95.4	2.9
ZIMMERMAN Z61W	132.3	165.4*	150.9*	25.4	97.2	1.9
CIBA SEEDS 4652W		168.3*	149.9*	26.2	94.9	1.5
AGRIGOLD A-6565W			147.3*	23.6	94.0	0.5
ASGROW RX795		162.0*	145.5	25.5	93.5	3.5
LYNK'S SEED 2831W			143.8	26.8	99.1	3.7
NORTHRUP KING N7580W		159.2	142.6	26.7	98.6	1.4
VINEYARD SEED V-58W	133.0	171.3*	141.8	25.0	94.9	2.9
PIONEER BRAND 3281W	134.4	165.3*	140.7	25.6	95.8	3.4
ZIMMERMAN Z63W	129.8	163.3*	140.1	26.4	96.8	2.4
SO. STATES SS922W		147.3	139.4	29.6	97.2	1.9
ZIMMERMAN Z64W			139.3	26.9	95.4	1.5
DEKALB NB739W	123.6	135.9	134.8	25.9	92.6	1.5
SO. STATES SS917W	124.5	157.2	130.9	28.6	89.4	3.1
CARGILL 8097W			129.3	24.7	99.1	2.3
CARGILL 9402W		161.9*	126.1	29.0	95.4	2.9
CIBA SEEDS 4592W			125.2	25.2	93.1	2.5
ICI SEEDS 8122W		151.9	118.1	28.7	94.4	3.4
DEKALB NB742W	108.8	125.5	105.6	24.1	90.7	2.1
WHITE AVERAGE**	126.6	157.2	139.4	26.1	95.0	2.4
GRAND AVERAGE**	137.2	161.9	143.4	25.3	95.0	2.0
LSD (0.10)	19.8	25.8	29.6	1.7	3.7	2.5
C.V.			15.4	5.0	2.9	93.7

\* 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 mean in that column.

\*\* Average contains data from two unreported experimental hybrids.

Table 14. Annual Summary, Quicksand, KY

BRAND/HYBRID	YIELD	YIELD	YIELD	AVG %	AVG %	TOT %	GLS RATING		
	BU/AC 91-93	BU/AC 92-93	BU/AC 1993	MOIST 1993	STAND 1993	LODGED 1993	1993	AUG 18/SEPT 8	
<b>EARLY YELLOW HYBRIDS</b>									
COLBERT 230	142.4	161.2	155.0	17.1	96.3	0.0	1.8	15.5	
STEWART HYBRIDS S-9312			153.0	17.1	94.9	3.4	8.2	40.7	
DEKALB DK646		162.4	151.7	17.2	90.3	1.0	6.4	30.0	
AGRIGOLD A-6470			150.0	17.0	96.8	0.0	0.6	19.1	
CROW'S 510			146.9	16.8	90.3	4.8	0.6	17.9	
FR618 X FR600		141.6	144.7	16.6	100.0	1.9	13.5	37.0	
PIONEER BRAND 3394	142.1	152.4	142.8	16.5	93.1	0.0	5.1	40.7	
CAVERNDAL FM. CF 790			142.6	17.2	87.5	1.0	2.5	15.8	
ICI SEEDS 8513		149.4	138.5	17.2	93.5	0.0	5.7	34.0	
AGRIGOLD A-6605			132.2	17.1	92.6	0.0	4.4	21.9	
CIBA SEEDS 4494			125.4	17.8	90.3	2.6	7.3	48.3	
<b>MEDIUM YELLOW HYBRIDS</b>									
AGRIGOLD A-6690	147.9*	172.4*	192.1*	18.1	96.8	0.0	2.3	23.9	
BO-JAC 629	157.7*	178.6*	188.3*	18.1	94.0	1.9	2.6	39.3	
DEKALB DK683			183.6*	18.7	88.9	0.0	2.9	8.3	
ZIMMERMAN Z29			181.6*	17.5	95.8	0.0	1.7	24.6	
TERRA SEED TR1180	156.8*	169.6*	173.4*	18.3	90.3	1.0	2.9	22.0	
DEKALB DK668			168.6	18.0	89.8	3.0	0.7	26.6	
PRAIRIE STREAM SX702	154.1*	176.7*	167.7	17.9	88.9	3.6	3.8	37.3	
ASGROW RX919	160.3*	179.1*	166.7	18.7	97.7	3.4	1.2	13.8	
TERRA SEED TR1167			167.8*	165.9	18.0	84.7	0.0	3.2	19.3
ADLERS 7850		169.1*	165.4	17.6	91.7	5.5	1.8	27.9	
PIONEER BRAND 3163			164.7	18.2	93.5	1.4	5.3	22.0	
ADLERS 6130	151.2*	164.2*	163.6	17.8	95.8	3.3	3.3	25.0	
PIONEER BRAND 3140	159.5*	176.9*	162.8	18.5	90.3	4.1	2.4	14.1	
SO. STATES SS812	145.9*	164.1*	162.5	17.1	90.3	1.6	0.6	17.5	
STEWART HYBRIDS S-9213	145.8*	168.4*	162.3	18.4	96.3	1.4	1.2	12.3	
BECK'S 72X	150.3*	162.9	162.2	18.6	91.2	2.0	4.0	48.0	
BO-JAC 7195			162.0	18.2	98.1	0.9	1.4	14.1	
AGRIGENE AG 7890			161.0	17.4	95.8	2.5	1.6	21.9	
SCOTT SEED S5263			160.1	17.5	93.5	0.0	4.1	22.0	
JACQUES 8240			159.9	18.0	90.7	5.3	3.2	20.3	
PRAIRIE STREAM SX704		149.4	159.9	17.9	93.1	0.0	5.9	23.9	
SO. STATES SS943		174.8*	159.1	18.8	94.4	1.4	3.2	21.9	
PRAIRIE STREAM SX556		155.2	158.9	17.6	91.2	0.0	4.9	37.3	
LYNK'S SEED 2829			158.7	18.7	94.0	0.0	2.1	14.1	
CARGILL 9027	155.2*	164.2*	158.2	18.3	95.4	0.0	4.7	29.0	
CIBA SEEDS 4671	154.9*	174.8*	158.0	18.0	91.2	0.0	1.7	26.9	
PIONEER BRAND 3279			168.5*	157.3	18.9	95.4	1.0	4.1	15.5
GLICK SEED GH801	148.9*	154.6*	157.1	17.7	88.9	1.0	1.8	12.3	
AGRIGOLD A-6715	149.4*	160.9*	156.7	17.7	90.3	0.5	0.9	17.6	
PIONEER BRAND 3245	147.4*	171.7*	156.2	17.8	86.1	8.5	4.8	25.0	
NORTHROP KING PX9540	139.3	148.8	156.2	17.7	94.0	3.4	3.9	31.3	
ICI SEEDS 8315	143.1	161.2	155.9	18.2	94.0	3.3	7.2	27.3	
JACQUES 8210	140.9	154.8	155.6	18.6	94.4	3.4	4.5	41.0	
CROW'S 670	151.6*	163.4	155.5	18.3	95.8	2.6	5.5	46.3	
LYNK'S SEEDS 2868			155.4	18.0	84.7	2.4	0.7	18.5	
SO. CROSS SC-412		160.0	155.3	18.4	83.8	1.0	0.8	9.1	
AGRATECH 757	141.8	162.3	155.1	18.4	92.6	3.6	1.7	13.6	
GUTWEIN 2751		169.8*	154.9	17.6	92.6	3.4	1.3	10.1	
CALLAHAN C783			154.7	18.3	95.8	0.0	2.8	23.3	
GLICK SEED GH752			153.7	18.0	92.6	3.9	8.5	30.2	
CARGILL 7997	140.7	153.8	153.7	18.1	98.1	5.6	5.0	35.0	
SO. STATES SS742A			153.1	17.8	90.3	0.0	1.3	13.1	
COLBERT 326	163.9*	174.0*	152.7	17.5	93.1	2.1	2.3	16.5	
CROW'S 667		155.6	152.6	18.2	94.0	2.0	4.3	23.3	
ICI SEEDS 8285			152.2	17.3	96.8	0.5	1.7	18.0	
COLBERT 324	138.2	159.7	151.6	18.3	94.0	1.0	1.1	15.1	
CARGILL 8327			151.0	17.5	96.3	0.5	1.7	23.6	
ASGROW RX897			150.4	17.2	94.0	0.0	1.8	23.3	
CROW'S 668			150.3	17.9	89.4	2.5	1.3	15.1	
BO-JAC 925	153.8*	160.7	150.1	17.2	95.8	0.0	4.6	29.0	
TERRA SEED E 1168			149.9	17.9	94.9	0.0	1.7	16.3	
CAVERNDAL FM. CF 953		154.1	149.7	17.8	91.7	2.7	4.1	39.3	
SO. CROSS SC-612		148.4	149.2	17.7	98.1	0.0	4.2	35.3	
SO. CROSS SC-902			149.1	18.1	91.7	15.3	2.4	17.4	
SCOTT SEED S3350	131.5	151.6	149.0	17.7	93.1	0.0	4.9	26.0	
GUTWEIN 2810		161.5	148.5	18.5	84.7	0.0	5.8	23.6	
DEKALB DK714			148.5	18.7	94.0	0.5	2.9	23.9	
COLBERT 279			147.4	17.7	93.5	0.0	2.0	12.1	
CIBA SEEDS 4631	140.7	153.5	147.2	17.9	87.0	0.0	3.6	28.6	
CAVERNDAL FM. CF 950	146.9*	165.4*	147.0	18.4	88.4	1.9	1.7	16.5	

Table 14. Annual Summary, Quicksand, KY (continued)

BRAND/HYBRID	YIELD	YIELD	YIELD	AVG %	AVG %	TOT %	GLS RATING		
	BU/AC 91-93	BU/AC 92-93	BU/AC 1993	MOIST 1993	STAND 1993	LODGED 1993	1993 AUG 18/SEPT 8		
FR27 X M017	118.5	142.9	147.0	17.8	94.9	0.0	4.4	35.0	
PIONEER BRAND 3156			146.8	18.0	95.8	2.9	1.3	6.9	
ZIMMERMAN Z27	136.8	150.0	146.3	18.1	94.4	0.0	0.9	16.1	
JACQUES 9220		168.1*	146.2	18.6	95.8	5.3	3.0	27.7	
CAVERNDALE FM. CF 800A		153.4	146.2	17.8	90.3	5.7	2.4	16.1	
NORTHROP KING N7707		149.9	146.2	18.2	94.0	1.4	9.0	45.0	
AGRATECH 787	135.8	155.4	146.0	16.7	88.4	2.6	4.0	47.0	
GUTWEIN 2680		155.5	145.6	18.0	89.8	0.0	2.1	25.7	
SO. CROSS SC-411	139.5	149.1	145.2	18.1	94.4	2.5	8.7	25.9	
VORIS 8020			144.9	18.1	89.4	3.0	3.1	36.0	
CROW'S 669	134.4	151.3	144.6	18.5	93.1	1.5	4.3	34.0	
ASGROW RX896			144.5	18.0	97.2	0.0	1.1	10.3	
BECK'S 68	153.5*	149.7	144.4	18.6	97.7	0.0	12.1	46.0	
JACQUES 7970	128.7	143.4	143.7	17.7	91.7	0.0	6.9	44.0	
AGRIGENE AG 7935	144.5*	150.9	143.4	18.8	94.4	0.5	4.4	26.9	
DEKALB DK715	139.7	154.1	143.3	18.1	87.0	0.5	4.1	32.6	
CALLAHAN C7269		152.2	143.3	18.0	94.0	1.9	1.0	19.1	
BECK'S 81MVP			143.1	17.9	88.0	0.0	1.3	11.9	
CALLAHAN C776	140.9	151.9	143.0	19.4	97.2	0.0	5.8	40.7	
VORIS 7530			142.9	17.3	94.0	1.5	1.7	16.1	
SO. STATES SS682			141.9	18.5	91.2	1.0	1.7	20.6	
NORTHROP KING N7989		154.8	141.4	17.3	92.1	1.5	1.5	10.1	
AGRIGENE AG 7885			140.7	17.2	95.4	0.5	2.8	44.3	
CALLAHAN C7265			137.9	18.4	92.6	1.0	6.4	47.3	
AGRATECH 810			136.2	18.1	91.7	0.0	2.1	29.3	
TERRA SEED TR641E			136.2	18.5	93.1	10.2	10.0	42.3	
GUTWEIN 2656			133.9	16.3	86.6	0.0	3.4	22.7	
NORTHROP KING N6330		147.2	132.5	17.5	95.4	4.9	3.7	30.7	
STEWART HYBRIDS S-9315			130.4	18.7	95.8	18.7	8.8	58.7	
ASGROW RX775			114.9	18.4	91.7	2.6	6.0	44.7	
<b>LATE YELLOW HYBRIDS</b>									
DEKALB DK743	160.3*	187.4*	189.1*	19.0	91.2	1.0	3.5	13.1	
NORTHROP KING N8727	161.5*	174.7*	173.1*	19.6	96.3	0.0	5.2	35.7	
PIONEER BRAND 3165	160.0*	166.4*	164.5	19.4	95.8	0.5	2.4	9.9	
FR27 X PA91	141.5	153.1	163.6	19.0	97.7	0.9	7.7	48.7	
PIONEER BRAND 3154	144.5*	162.4	157.4	19.3	91.2	0.0	2.4	16.4	
PIONEER BRAND 3167			144.2	19.6	87.0	1.1	1.0	6.4	
AGRIGENE AG 7900		144.9	143.7	19.9	95.4	17.3	3.8	33.7	
ICI SEEDS N8255			138.4	18.7	94.9	2.0	2.9	28.3	
CIBA SEEDS 4742			134.5	19.6	92.1	5.3	1.6	12.6	
YELLOW AVERAGE	146.4	160.0	152.2	18.0	92.8	2.1	3.6	25.7	
<b>WHITE HYBRIDS</b>									
AGRIGOLD A-6565W			175.3*	18.1	94.0	1.0	3.5	50.0	
NORTHROP KING N7580W		164.5*	170.1*	18.2	92.1	1.6	3.3	33.3	
ZIMMERMAN Z63W	158.9*	171.9*	169.4*	18.7	94.9	1.0	0.0	16.7	
ZIMMERMAN Z64W			167.7	18.4	89.4	0.0	4.4	16.1	
ASGROW RX795		169.3*	162.6	17.4	91.2	1.5	2.5	47.7	
DEKALB DK703W			158.5	18.5	96.3	1.9	1.4	25.0	
CIBA SEEDS 4652W		162.1	158.1	19.7	92.1	2.1	1.6	7.4	
CARGILL 9402W		163.2	157.9	18.9	97.2	7.8	3.5	19.0	
CARGILL 8097W			153.4	17.1	93.5	4.8	3.8	55.7	
LYNK'S SEED 2831W			152.5	18.8	91.7	3.9	1.5	24.5	
SO. STATES SS917W	149.8*	151.8	151.0	18.7	93.1	1.0	1.8	25.9	
PIONEER BRAND 3281W	142.5	157.1	150.0	18.2	95.8	1.4	1.6	19.3	
ICI SEEDS 8122W		150.7	148.8	20.5	91.7	3.5	1.9	18.3	
CIBA SEEDS 4592W			146.7	18.6	92.6	1.5	4.4	22.7	
VINEYARD SEED V-58W	152.8*	153.4	142.9	18.9	96.3	4.8	2.4	31.0	
ZIMMERMAN Z61W	147.9*	156.8	141.0	18.9	87.0	0.0	1.4	18.2	
SO. STATES SS922W		151.1	129.7	19.7	92.6	8.6	1.7	24.3	
VINEYARD SEED V-449W		121.6	122.8	17.8	94.9	3.3	1.0	26.3	
DEKALB NB742W	128.7	125.9	119.0	19.1	92.6	5.6	5.0	38.7	
DEKALB NB739W	113.5	116.4	107.4	19.2	94.9	2.9	6.0	31.0	
WHITE AVERAGE**	142.0	151.1	149.4	18.7	92.8	2.9	2.9	28.8	
GRAND AVERAGE**	145.8	158.4	151.7	18.1	92.8	2.2	3.5	26.2	
LSD (0.10)	19.4	23.3	22.7	0.9	5.9	6.1	7.1	12.1	
C.V.			11.2	3.9	4.7	204.5	70.0	34.4	

\* 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 mean in that column.

\*\* Average contains data from two unreported experimental hybrids.

**U.K.**

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