

# UNIFORM SOYBEAN TESTS

## SOUTHERN STATES

### 2003

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## INTRODUCTION

The Uniform Soybean Testing Program has been directed toward the testing of elite breeding lines that ultimately leads to the release of varieties. Breeding lines are developed and evaluated in several participating federal and state research programs. As breeding lines demonstrate specific qualities in the individual programs, they are advanced to the preliminary and uniform regional tests, conducted in cooperation with research workers in the southern states. This testing program enables breeders to evaluate new strains under a wide variety of conditions, and permits new strains to be put into production in a minimum amount of time. Lines are usually entered only once in the Preliminary Tests and then are either dropped or advanced to the Uniform Test for a maximum of three years if performance warrants further testing.

Eleven uniform test groups have been established to evaluate the best strains developed in the breeding programs. The groups 00 through IV are adapted in the northern part of the United States, and the groups IV-S through VIII are grown in the southern part. Within their area of adaptation, there is a maturity range of 12 to 18 days within each maturity class. The best public varieties available in each maturity class are used as check varieties with which to compare new strains as to seed yield, chemical composition, maturity, height, lodging, seed quality, and reaction to diseases and nematodes. For the groups grown in the southern area, the check varieties are: KS4602N, Manokin, 5601T, Boggs, Dillon, Benning, Haskell RR, Cook, and Prichard RR.

A wide range of soil and climatic conditions exists in the regions. As an aid in recognizing regional adaptation, the region has been subdivided into five rather broad areas which still represent a wide range of soil types. These are: (1) the East Coast, consisting of the Coastal Plain and Tidewater areas of the eastern shore of Maryland, Virginia, North Carolina, and the upper half of South Carolina; (2) the Southeast, consisting primarily of the Coastal Plain soils of the Gulf Coast area, but also including similar soil from South Carolina, southward; (3) the Upper and Central South, including the Piedmont and loessial hill soils east of the Mississippi River; (4) the Delta area, composed of the alluvial soils along the Mississippi River from southern Missouri, southward; and (5) the West, comprising Arkansas and Louisiana (outside the Delta), Kansas, Oklahoma, and Texas. In the West, the potential soybean-growing areas would include alluvial soils, and the Gulf Coast of Louisiana.

On nearly all of the soils, other than the alluvial soils along the Mississippi River, fertilization is essential for satisfactory soybean production. The soil test information is based upon analyses run by laboratories in conjunction with the states. Different methods are used for extraction and reporting by the various laboratories.

## **POLICY ON EVALUATION AND RELEASE OF STRAINS**

Germplasm exchange among breeding programs is the foundation of breeding progress. The purpose of the Uniform Soybean Test is to facilitate the free exchange of germplasm in an effort to maximize genetic diversity and provide well-adapted, stable breeding lines and varieties in the pursuit of breeding progress. Participants are encouraged to exchange germplasm within the legal guidelines pertaining to transgenic strains.

### **Qualifications for Participation in the Uniform Soybean Tests**

- 1. Participants must be willing and able to conduct unified tests with conventional strains and strains containing proprietary and/or transgenic traits.**
- 2. Participants, upon submission of entries, must disclose pedigrees to the Uniform Soybean Test Coordinator for publication with performance data in the Uniform Soybean Test Report.**
- 3. Participants are individually responsible to ensure that any transgenic entries that they submit are cleared for sale as commodity seed.**

### **Use of Uniform Soybean Test Entries in Soybean Breeding and Research**

- 1. Seed of Uniform Soybean Test entries is for evaluation in the Uniform Soybean Tests only, and may not be distributed to non-participants in these tests without prior approval by the originator of the entry.**
- 2. Non-transgenic entries in the Uniform Soybean Test may be used by Uniform Soybean Test participants as parents only in biparental crosses or for developing recurrent selection populations. Transgenic entries may be used in crossing subject to similar rules unless licensing or patenting restrictions regarding ownership of the transgenic trait limit this use.**
- 3. Uniform Soybean Test participants must obtain prior approval before using any entry, other than their own, for a recurrent parent in backcrossing, molecular research, genetic studies, or any other research which may lead to the citation of the entry in a patent.**
- 4. Seed of any transgenic entry must not be used for further evaluation without written permission from the originator of the entry, and must be discarded at the end of the season, except for crossing purposes, subject to the restrictions outlined in the preceding sections two and three.**
- 5. All published results from the USDA-ARS Uniform Soybean Tests Southern States may be used as a data base for statistical research and publication related to soybean breeding.**

### **Release of Uniform Soybean Test Entries**

Entries in the Uniform Soybean Tests are released according to USDA-ARS and State Agricultural Experiment Station policies.

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## STRAIN DESIGNATION

The strains designated by number carry a letter prefix. This letter identifies where each strain was selected:

- AU - Alabama Agricultural Experiment Station, Auburn
- DT; DB - Delta Branch Experiment Station and USDA-ARS
- G - Georgia Agricultural Experiment Station
- K - Kansas Agricultural Experiment Station
- KY - Kentucky Agricultural Experiment Station
- LS - Southern Illinois University, Carbondale
- MD - Maryland Agricultural Experiment Station and USDA-ARS
- N - North Carolina Agricultural Experiment Station and USDA-ARS
- OK - Oklahoma Agricultural Experiment Station
- R - Arkansas Agricultural Experiment Station
- RJ - Arkansas State University, Jonesboro
- S - Missouri Agricultural Experiment Station
- SC - South Carolina Agricultural Experiment Station, Clemson
- TN - Tennessee Agricultural Experiment Station
- V - Virginia Agricultural Experiment Station, Virginia Tech
- VS - Virginia Agricultural Experiment Station, Virginia State University



## SOYBEAN NURSERY LOCATIONS

### EAST COAST

LOCATION	TEST					SOIL TYPE	ROW SPACING*
	IV	V	VI	VII	VIII		
Queenstown, MD	UP	UP				Mattapeake silt loam	30
Georgetown, DE	U	U				Evesboro loamy sand	20
Warsaw, VA	UP	UP	U			Kempsville loam	30
Petersburg, VA			UP			Lynchburg fine sandy loam	30
Plymouth, NC		UP	UP			Portsmouth silt loam	38
Jackson Springs, NC				U	UP	Norfolk sandy loam	38
Clinton, NC			U	UP	UP	Norfolk sandy loam	38
Florence, SC			U	U	U	Goldsboro sandy loam	38

### SOUTHEAST

LOCATION	TEST					SOIL TYPE	ROW SPACING*
	IV	V	VI	VII	VIII		
Blackville, SC(A)			U	UP	P	Faceville sandy loam	38
Blackville, SC(B)				U	U	Norfolk sandy loam	38
Tallassee, AL			UP	UP	2U P	Cahaba fine s. l.	30
Fairhope, AL			U	U	U	Malbis fine sandy loam	30
Tifton, GA			U	U	U	Tifton sandy loam	30
Baton Rouge, LA		U	U	U	U	Olivier silt loam	30

### UPPER AND CENTRAL SOUTH

LOCATION	TEST					SOIL TYPE	ROW SPACING*
	IV	V	VI	VII	VIII		
Orange, VA	U	U				Starr silty clay loam	30
Clemson, SC			UP	U	U	Cecil sandy loam	38
Calhoun, GA			U	U		Rome gravelly clay loam	30
Athens, GA			UP	UP	U	Cecil coarse sand loam	30
Plains, GA				U	UP	Greenville sandy clay loam	30
Belle Mina, AL		U	U			Decatur silt loam	36
Knoxville, TN	U	U				Sequatchie silt loam	30
Ullin, IL	UP	UP				Stoy silt loam	30
Princeton, KY	UP	U				Crider silt loam	30
Jackson, TN		P				Lexington silt loam	30
Starkville, MS	U	U	U			Leeper silty clay	30
Suffolk, VA		U	U			Lynchburg fine sandy loam	20
Springfield, TN	U	U				Sango silt loam	30
Midville, GA				U	U	Dothan loamy sand	30

U - Uniform nursery grown

P - Preliminary nursery grown

\* - Inches

## SOYBEAN NURSERY LOCATIONS - Continued

## DELTA

LOCATION	TEST					SOIL TYPE	ROW SPACING*
	IV	V	VI	VII	VIII		
Portageville, MO(A)	UP	UP				Tiptonville s. l.	30
Portageville, MO(B)	U	U				Sharkey clay	30
Keiser, AR	UP	UP				Sharkey clay	38
Marianna, AR	U					Loring silt loam	38
Pine Tree, AR	U	U	U			Calloway silt loam	36
Stoneville, MS	UP	UP	UP	P		Sharkey clay	24
Rohwer, AR			U			Perry clay	38

## WEST

LOCATION	TEST					SOIL TYPE	ROW SPACING*
	IV	V	VI	VII	VIII		
McCune, KS	UP	U				Parsons silt loam	30
Pittsburg, KS	U	UP				Parsons silt loam	30
Bixby, OK	U	UP	UP			Reinach silt loam	30
Stuttgart, AR		U	UP			Crowley silt loam	32
Bossier City, LA		U	U	U		Latanier silt loam	40
Prosper, TX		U				Houston black clay	14

U - Uniform nursery grown

P - Preliminary nursery grown

\* - Inches

## METHODS

### CULTURAL PRACTICES

Most uniform nurseries were planted in four-row plots with three replications. The two middle rows were harvested. The preliminary nurseries were planted similarly with two replications. Row widths at the locations varied from 14 to 40 inches with the majority planted in 30 inch rows.

### MATURITY, HARVEST, AND YIELD

**Height.** Height in a plot was measured as the average length of plants in inches from the ground to the top extremity at maturity.

**Lodging.** Lodging notes were recorded on a scale of 1 to 5 according to the following criteria:

- 1 - almost all plants erect
- 2 - either all plants leaning slightly, or a few plants down
- 3 - either all plants leaning moderately, or 25 to 50% of the plants down
- 4 - either all plants leaning considerably, or 50 to 80% of the plants down
- 5 - all plants down

**Maturity.** Maturity was recorded as the date when 95% of the pods had reached mature pod color (Fehr and Caviness, 1977). Maturity in all summaries is expressed as days earlier (-) or later (+) than the reference variety. Reference varieties used in the different maturity groups were as follows: UIV-S and PIV-S - Manokin; UV and PV - Hutcheson; UVI and PVI - Boggs; UVII and PVII - Benning; and UVIII and PVIII - Cook.

**Yield.** After end trimming all plots, yields were measured by harvesting the middle row(s) of each plot. Actual seed weights were recorded after the seed of the strains had reached a uniform moisture content. Seed weights were converted to bushels per acre (60 lbs./bu.) by using the appropriate conversion factor for each location with respect to harvested plot size.

**Seed Quality.** Seed quality was rated from 1 to 5 according to the following scale:

- 1 - very good; 2 - good; 3 - fair; 4 - poor; 5 - very poor

Factors considered in estimating seed quality were development of seed, wrinkling damage, and brightness. While the seed quality score indicates relative appearance of seed for strains at one location, considerable differences can exist among factors responsible for the poorer grades at different locations. Seed size for each strain was determined from a composite sample from all replications at a location. Seed size is reported as grams per 100 seed.

**Oil and Protein.** Oil and protein percentages were determined from representative locations of the uniform and preliminary tests. A 50-g composite sample of each strain from all replications at a location was sent to the USDA-ARS, National Center for Agricultural Utilization Research at Peoria, Illinois for analysis. Two samples of 18-20 g of seed were analyzed for protein and oil composition with a Model 1255 Infratec NIRT food and feed grain analyzer. Analysis of the seed was conducted on an as is basis and then mathematically converted to a moisture-free basis for reporting.

### **PEST ASSESSMENT**

**Soybean Mosaic Virus (SMV).** Thirty seeds of each entry are planted in a single three-foot row in the field at Blacksburg, VA. Inoculation is done 3 to 4 weeks later using SMV strain G1. Inoculation method is described in Ma et. al. 1995. TAG 91:907-914. Counts of resistant and susceptible plants are taken about 4 weeks after inoculation.

**Root-knot Nematode.** Screenings of strains of UIV-S - UVIII were conducted in a greenhouse at the University of Georgia.

Three seeds of each genotype were planted in Ray Leach Cone-tainers (20.6 cm long) filled with fumigated sandy loam soil to within 5 cm of the top and then covered with 2.5 cm of fumigated sand. Ten Cone-tainers each of a susceptible and resistant standard cultivar were included in each test. Forty-nine Cone-tainers were placed in a RL-98 tray, filling every other row of the tray. The trays (45) were placed on a greenhouse bench under supplemental light provided by 400-watt metal halide lamps and under an automatic irrigation system. Seven to 10 days after planting, plants were thinned to one seedling per Cone-tainer and inoculated with 3000 root-knot nematode eggs collected with 0.5% NaOCL (10% Clorox). The inoculum (3-5 ml depending on egg concentration) was placed with a digital dispensing pump in a soil at a depth of 2-3 cm. Plants were watered manually for 1-2 days following inoculation before turning on the automatic irrigation system. All plants were fertilized weekly with 20-20-20 (N = 20%, P = 8.7%, K = 16.6%) fertilizer solution.

Thirty days after inoculation, roots of two of the standard check plants were

examined for galls to assess whether to begin the process of evaluating the entire test. For evaluation, shoots were excised and root systems removed from the Cone-tainers and washed free of soil. For screening advanced breeding lines, the total number of galls per root system was counted. For all other studies, the number of galls on the remainder of the susceptible and resistant check plants was used to develop a gall index for evaluating the genotypes. The gall indexes (based on the number of galls/plant) were as follows: *Meloidogyne incognita* - 1:0-8, 2:9-16, 3:17-24; 4:25-32; and 5:33+; *M. arenaria* - 1:0-10; 2:11-20; 3:21-30; 4:31-40; and 5:41+.

Screenings for strains of PIV-S - PVIII were conducted in a greenhouse at the USDA-ARS Nematology Investigations at Jackson, Tennessee.

Seven seed of each genotype was planted in each of three pots filled with sterilized sandy loam soil. Approximately 3,000 eggs of the nematode was added to the potted soil just prior to planting. Plants were evaluated for amount of root galling at six weeks after planting. The ratings for galling were as follows:

- 1 = < 10% of root system with small galls
- 2 = 10-25% of root system galled with mostly small galls
- 3 = 26-50% of root system galled with several large galls
- 4 = 51-90% of root system galled with mostly large galls
- 5 = 91-100% of root system galled with large galls and some root rot

The mean rating reported for each strain was calculated as follows:

Mean rating =  $\sum (\text{Rating category} \times \# \text{ plants receiving rating}) / \text{Total \# of plants}$

The isolates of *M. incognita* and *M. arenaria* were obtained from Dr. Robert A. Kinloch, University of Florida. The isolates of the nematodes used were different than those used by Dr. Roger Boerma at the University of Georgia.

**Soybean Cyst Nematode (SCN).** The SCN race 2, 3, and 14 ratings reported for UIV-S - UVIII and PIV-S - PVIII were based on screenings made at Jackson, Tennessee. For the screening, seed of each strain was planted in sterile soil at a rate of one per pot for a total of seven pots per strain. At the time of planting, 1000 eggs of the race being evaluated were added to each pot. Approximately four weeks after planting, plants were rated based on the number of female cysts on the roots. The ratings were as follows:

- 1 = 0-5 female cysts on the roots
- 2 = 6-10 female cysts on the roots
- 3 = 11-20 female cysts on the roots
- 4 = 21-40 female cysts on the roots
- 5 = > 40 female cysts on the roots

The mean rating reported for each strain was calculated with the same formula that was used to calculate the root-knot nematode mean ratings.

**Stem Canker.** Strains from all tests were evaluated at the Delta Research and Extension Center, Stoneville, Mississippi. Strains were planted in single-row plots 1.8 m long. Inoculum was produced by aseptically culturing isolate 86-26 of the fungus on autoclaved toothpicks. Twelve plants per plot were inoculated by forcing a toothpick through the stem in the upper one-third of the plant. Stem canker lesion development was rated after the susceptible check had been killed by the disease. Plants having any external lesion were rated as S.

**Sudden Death Syndrome (SDS).** SDS was evaluated for UIV-S and UV at Carmi, Illinois, in two plots 10 feet long. Disease incidence (DI), the % of plant exhibiting symptoms, was recorded between growth stages R5.8 and R6.4, along with disease severity (DS), which was scored on a 1-9 scale with 1 = mild chlorosis, 5 = severe leaf scorch, and 9 = premature death of plant. Disease index (DX) was then calculated as  $(DI \cdot DS) / 9$ . DX is reported.

### **STATISTICAL ANALYSES**

Yield data for each test at each location were analyzed by analysis of variance or nearest neighbors analysis (Athens, GA, Plains, GA, and all Kansas locations) to obtain the coefficient of variability (C.V.) and LSD ( $P = 0.05$ ) for that location. Locations with extremely high C.V.'s were not included in the combined analysis or in calculating the means across locations. The yield was then analyzed across all locations within a maturity group by analysis of variance. The means of the various traits were also calculated and are reported in this publication.

The *Rank* column indicates relative ranking of yield based on the average performance of a line across locations.

The *Average Rank* column indicates the yield rank of a line based on the average of a line's rank at each individual location.

## IDENTIFICATION OF PARENT STRAINS - 2003

STRAIN	FEMALE PARENT X MALE PARENT	NOTES
Arksoy-2913	Selection out of Arksoy	
Au82-211	N73-693 x F76-8757	
Au82-589	N74-1572 x [(Govan x Davis) x F76-8846]	
Au90-585	Hutcheson x Au82-589	
Au92-916	N85-574 x Haskell	
Coker 82-622	Same parentage as Coker 6738	
D49-2491 (sib of Lee)	S-100 x CNS	
D49-2525 (sib of Lee)	S-100 x CNS	
D51-4877 (sib of Hood)	Roanoke x N45-745	
D53-184	D49-2525 x L46-5679	
D53-354	D49-2525 x L46-5679	
D55-4168	Ogden x Biloxi	
D56-1185	Perry x Lee	
D58-3311	Jackson (4) x D49-2491	
D58-3358	Jackson (4) x D49-2491	
D59-9289	D51-4877 x D55-4168	
D62-7816	D49-2491(5) x PI 181537 (MG O Narrow Leaf)	
D64-3146	D49-2491(5) x Hawkeye	
D64-3253	D49-2491(5) x Hawkeye	
D64-4636	Hill x D58-3311	
D65-3168	Hill (4) x PI 96983	
D65-6765	D58-3358 x D59-9289	
D67-B5	D62-7816 x Phy. Res. Lee	D67-B5=narrow leaf Lee res. To P.R.
D68-18	Dyer x Bragg	D68-18=same parentage as Forrest
D68-216	Dyer x Bragg	D68-216=same parentage as Forrest
D68-8847	Tawny pubescent Pickett 71 type	
D70-3001	D64-4636 x D68-8847	D70-3001=same parentage as Centennial
D74-7741	Forrest x D70-3001	
D74-7824	Forrest x D70-3001	
D77-6103	Centennial x J74-47	D77-6103=same parentage as Leflore
D87-4429	Sharkey x Leflore	
D91-4657	Epps x Sharkey	
DT96-6840	Hutcheson x P9641	
F76-8757	Centennial x [Forrest x (Cobb x D68-216)]	
F76-8846	Centennial x [Forrest X (Cobb x D68-216)]	
F77-6903	Forrest x (Cobb/D68-216)	
F81-2815	Centennial x (Cobb x Hood)	
G80-1515	Pickett 71 x Bedford.	
G81-152	D74-7741 x Coker 237	
G83-559	D77-6103 x F77-6903	
G89-2223	G81-152 x Coker 6738	
G91-151	Coker 82-622 x Bryan	
G91-2244	F81-2815 x Colquitt	
G92-2167	Coker 82-622 x Brim	
G93-9223	G83-559 x (G80-1515(2) x PI 230977)	
GA Soy 17	Bragg x Hood	
HS 89-3261	LG 82-8379 x ASG A2943	
J22	L37-1355 x Arksoy-2913	
J74-47	Forrest (2) x (D68-18 x PI 88788)	Same parentage as Bedford
K1022	Williams x Columbus	
K1099	K1022 x Essex	
K1133	V75-345 x S76-2120	
K1191 (Rel. as KS4694)	Sherman x Toano	
K1192 (Rel. as KS4895)	Sherman x Bay	

STRAIN	FEMALE PARENT X MALE PARENT	NOTES
K1218	P5482 x A3127	
K1276	Coker 425 x A3427	
K1309	K1133 x N83-375	
K1393	KS5292 x Hutcheson	
K1574	KY90-1208 x NK S42-60 or P9521	Male parentage uncertain
KS4694 (Exp. K1191)	Sherman x Toano	
KS4895 (Exp. K1192)	Sherman x Bay	
KS5292	Essex x Forrest	
KY88-4080	K1099 x Hutcheson	
KY90-1208	A3935 x V78-184	
L15 (Exp. L65-4059 )	Wayne(6) x Clark63	L15 contains Rps 1
L37-1355	Rouge out of PI 81041	
L46-5679	Lincoln x Richland	
L70L-3048	L15 (Wayne Rps) x D64-3146	
L76-0132	Beeson x PI 171451	
L77-994	Williams (2) x PI 88788	
LS79-238	Forrest(3) x V71-480	
MD4900 (Exp. MD92-5769)	N85-578 x Ripley	
MD83-5008 (Rel. as Manokin)	L70L-3048 x D74-7824	
MD92-5769 (Rel. as MD4900)	N85-578 x Ripley	
N44-92	Haberlandt x Ogden	
N45-2994	Ral soy x Ogden	
N45-745	Ogden x CNS	N45-745 is res to BP
N48-1867	Roanoke x N45-745	
N55-2908	Jackson x D49-2491 (sib of Lee)	
N55-3818	(N45-2994 x Ogden) x (N44-92 x N48-1867)	
N55-3831	(N45-2994 x Ogden) x (N44-92 x N48-1867)	
N55-5931	Roanoke x D49-2491	
N64-2430 (Rel. as Ransom)	(N55-5931 x N55-3818) x D56-1185	
N64-2451	(N55-5931 x N55-3818) x D56-1185	Sib of Ransom
N7001	N77-114 x PI 416937	
N70-1501	Dare x D65-6765	
N70-1549	Dare x D65-6765	Grown in 1974
N70-1741	Dare x D65-6765	
N70-2173	Hampton x Ransom	
N72-3213	D67-B5 x N64-2451	Grown in 1974
N72-40	D64-3253 x D65-3168	
N73-538	Tracy x Ransom	
N73-693	D68-216 x Ransom	
N74-1572	Govan x Davis	
N76-098	N70-1741 x Essex	
N76-683	N70-1501 x N70-2173	
N77-114	Essex x N70-2173	
N77-179	N70-1549 x N72-3213	
N77-940	N70-1549 x Centennial	
N80-777	(N70-1501 x N72-40) x N73-538	
N83-1014	GA Soy 17 x N77-940	
N83-375	N76-098 x N76-683	
N85-574 (sib of Holladay)	N77-179 x Johnston	
N85-578 (sib of Holladay)	N77-179 x Johnston	
N85-67	N77-179 x Epps	
N87-2120-3	N78-2077 x PI 123440	N87-2120-3= altered FA comp
N90-516	Hutcheson x N83-1014	
N90-7202	N77-114 x PI 416937	
N90-845	Brim x N80-777	



STRAIN	FEMALE PARENT X MALE PARENT	NOTES
N91-7254	Davis x PI 416937	
N91-8005	N77-114 x PI 416937	
N92-727	Au82-211 x N85-578	
N93-54	N85-67 x Holladay	
N94-199	Brim(3) x N87-2120-3	
NTCPR93-283	Young x Suzuyataka	
S76-2120	Hill (2) x PI 171442	
S76-2229	Forrest x V71-480	
S92-1069	MD83-5008 x Hartwig	
S92-1403	P9581 x Hartwig	
SC89-147	Hutcheson x Leflore	
SC89-181	Hutcheson x Leflore	
SC89-551	A6785 x Coker 6738	
SC91-2007	NK' s S83-30 x Hutcheson	
TN00-060	MD4900 x Fillmore	
TN01-360-RR	TN93-99 (3) x Resnik-RR	
TN4-86	Crawford x Bedford	
TN84-87	V75-345 x S76-2229	
TN88-63	AS 5474 x Epps	
TN90-03 (Rel. as TN4-94)	TN4-86 x TN84-87	
TN93-99	GP-280 in 2003 Crop Sci. 43:1137	
TN96-115	K1192 x Manokin	
TN98-170	TN88-63 x TN 5-92	
TN99-184	K1309 x V90-1012	
V63-76	Hill (5) x D53-354	
V66-318	D53-184 x J22	
V68-1034	Dare x PI 71506	
V71-480	V63-76 x V66-318	
V73-76	Hill x D53-354	
V75-345	Essex x Shore	
V78-184 (Rel. as Hutcheson)	V68-1034 x Essex	
V84-1790	Epps x L77-994	
V84-1805	Epps x L77-994	
V88-466	Coker 237 x Toano	
V90-1012	Hutcheson x (FFR 561 x Toano)	
V91-2935	Hutcheson(2) x V84-1805	
V91-3036	Hutcheson x V84-1790	

## **UNIFORM GROUP IV-S**

**2003**

**Uniform Group IV-S nurseries were planted at 16 locations. Data were obtained from 14 of these locations. The parentage for each strain is reported in Table 1. Table 2 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil, protein, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 3 - 8.**

**TABLE 1 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2003**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 × D74-7824	
2. KS4602N	Del soy4710 × K1191	
3. DK4868 (RR)	Commercial Check RR	
4. 5002T	N85-578 × Manokin	
5. DT97-4290	A5979 × DP3478	F6
6. DT98-7278	Hutcheson × (D91-4657 × P9592)	F6
7. DT98-9102	N90-516 × P9592	F6
8. DT99-17018	DT96-6840 × Bolivar	F6
9. DT99-17400	UARK5798 × Bolivar	F6
10. K1539RR	KS4895///KS4895//Resnik2/40-3-2	
11. K1574	BP KY90-120, NK S42-60, P9521	
12. K1575	BP, K1218, S92-1403, N93-54	
13. LS99-3619	LS79-238 × KY88-4080	
14. LS99-3630	LS79-238 × KY88-4080	
15. Md 97-6491	Holiday × Stressland	
16. Md 99-1098-2RR	MD92-5769 × (MD92-5769 × Monsanto RR)	
17. R96-1689F	A4715 × HS89-3261	
18. R98-1817	HARTZ 5545 × KS 4895	
19. R99-2088	N90-516 × Hartz 4994	
20. R99-2172	N90-516 × Hartz 4994	
21. R00-1158F	A4715 × DP 3478	
22. S99-2281	N90-516 × S92-1069	
23. S00-9925-10	K1393 × Anand	
24. TN96-115	K1192 × Manokin	
25. TN00-60	MD92-5769 × Fillmore	
26. V99-0023	KS4895 × TN90-03	

**TABLE 2 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2003**

STRAIN/ VARIETY	RANK	AVERAGE RANK	YIELD*			PROTEIN			OIL		
			2003	02-03	01-03	2003	02-03	01-03	2003	02-03	01-03
MANOKIN	4	11	50.5	47.5	45.9	40.3	40.9	40.1	19.5	20.2	20.7
KS4602N	24	18	43.9	44.2	.	41.9	42.4	.	19.7	20.1	.
DK4868 (RR)	12	13	47.4	.	.	40.6	.	.	20.5	.	.
5002T	1	7	53.4	.	.	40.4	.	.	19.3	.	.
DT97-4290	18	17	45.8	.	.	41.4	.	.	18.8	.	.
DT98-7278	5	10	50.5	.	.	41.2	.	.	19.2	.	.
DT98-9102	13	15	47.3	.	.	39.0	.	.	19.6	.	.
DT99-17018	20	16	45.6	.	.	42.0	.	.	18.9	.	.
DT99-17400	26	21	37.9	.	.	40.1	.	.	19.2	.	.
K1539RR	21	16	45.4	.	.	41.6	.	.	19.9	.	.
K1574	16	15	46.7	.	.	41.7	.	.	19.8	.	.
K1575	10	11	49.3	.	.	40.5	.	.	19.0	.	.
LS99-3619	14	13	46.9	.	.	41.9	.	.	19.2	.	.
LS99-3630	23	15	44.1	.	.	41.0	.	.	19.5	.	.
Md 97-6491	25	18	41.7	42.0	43.2	43.9	44.2	43.9	18.7	19.1	19.3
Md 99-1098-2RR	11	14	47.8	.	.	38.4	.	.	19.6	.	.
R96-1689F	22	18	44.4	.	.	41.2	.	.	20.0	.	.
R98-1817	8	11	49.6	48.1	.	41.3	41.9	.	19.1	19.1	.
R99-2088	6	10	50.4	.	.	39.8	.	.	18.8	.	.
R99-2172	9	12	49.6	.	.	38.9	.	.	19.0	.	.
R00-1158F	15	15	46.8	.	.	40.3	.	.	19.4	.	.
S99-2281	3	8	52.6	49.1	.	39.7	40.4	.	18.8	19.5	.
S00-9925-10	2	7	53.1	.	.	40.6	.	.	19.2	.	.
TN96-115	19	17	45.7	44.4	.	42.5	42.2	.	18.2	18.8	.
TN00-60	7	10	50.4	.	.	38.2	.	.	20.2	.	.
V99-0023	17	15	46.6	.	.	42.5	.	.	19.5	.	.

\*Data not included in mean: **2003 - Prosper, TX; Starkville, MS**  
**2002 - Orange, VA**  
**2001 - Ullin, IL**

TABLE 2 ~ Continued

BOTANICAL TRAITS								
STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL COLOR	PUB. COLOR	POD COLOR
MANOKIN	10/07	2.6	30	1.9	12.3	W	T	T
KS4602N	8-	1.6	30	2.0	15.2	P	T	T
DK4868 (RR)	6-	1.4	31	2.2	13.5	W	G	T
5002T	1+	2.1	27	1.9	14.4	W	T	T
DT97-4290	4-	2.1	33	1.8	15.0	P	T	T
DT98-7278	2+	2.2	27	1.6	15.7	W	T	T
DT98-9102	1+	2.1	29	1.7	14.8	W	G	T
DT99-17018	1+	2.4	29	1.7	14.7	P	T	T
DT99-17400	0	1.9	24	1.8	14.3	P	T	T
K1539RR	6-	1.8	29	1.9	15.3	W	T	T
K1574	4-	1.6	25	1.6	14.1	P	T	T
K1575	0	1.4	25	1.8	13.0	P	G	Br
LS99-3619	2-	1.8	28	1.9	13.2	P	G	
LS99-3630	2-	1.3	27	1.8	13.1	W	G	
Md 97-6491	7-	1.5	33	2.0	16.2	P	T	T
Md 99-1098-2RR	1+	1.4	25	1.7	12.4	P	G	T
R96-1689F	7-	2.1	32	1.8	12.2	P	T	
R98-1817	0	2.2	28	1.7	12.1	P	G	
R99-2088	4+	2.7	34	1.7	14.7	W	T	
R99-2172	2+	2.2	32	1.5	12.6	W	G	
R00-1158F	3-	2.2	35	1.6	15.0	P	T	
S99-2281	2+	2.4	32	1.7	12.9	W	G	T
S00-9925-10	3+	2.6	28	1.7	13.3	W	T	T
TN96-115	2-	2.3	27	1.7	11.1	W	G	
TN00-60	0	1.8	31	1.7	14.1	P	G	
V99-0023	5-	1.8	34	1.7	12.3	P	G	T

TABLE 2 ~ Continued

STRAIN/ VARIETY	PEST REACTIONS										
	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER	SDS DX	SDS DI	SDS DS	FLS
MANOKIN	5.0	1.0	5.0	2.8	1.5	S	R	0	2	1	0
KS4602N	5.0	1.0	5.0	3.3	5.0	S	R	5	35	1	1
DK4868 (RR)	5.0	5.0	5.0	3.5	5.0	S	R	1	7	0	1
5002T	5.0	5.0	5.0	2.8	4.5	S	R	0	0	0	0
DT97-4290	5.0	5.0	5.0	5.0	3.5	R	R	0	0	0	0
DT98-7278	5.0	5.0	5.0	4.8	1.0	R	R	1	10	0	0
DT98-9102	5.0	5.0	5.0	2.0	5.0	S	MS	0	0	0	0
DT99-17018	5.0	5.0	5.0	4.8	3.3	R	R	9	57	1	0
DT99-17400	.	3.0	5.0	5.0	4.8	R	R	1	5	1	1
K1539RR	5.0	5.0	5.0	5.0	5.0	S	R	2	17	1	0
K1574	5.0	5.0	5.0	4.5	1.0	R	R	8	57	1	0
K1575	5.0	5.0	5.0	4.8	5.0	S	R	0	0	0	1
LS99-3619	5.0	1.0	5.0	2.0	5.0	S	R	4	32	1	1
LS99-3630	5.0	1.0	5.0	2.0	5.0	S	R	0	0	0	1
Md 97-6491	5.0	5.0	5.0	5.0	4.5	R	R	4	33	0	0
Md 99-1098-2RR	5.0	5.0	5.0	5.0	5.0	R	R	2	22	1	0
R96-1689F	5.0	1.0	5.0	3.5	4.3	S	MR	3	27	1	1
R98-1817	5.0	5.0	5.0	2.5	4.8	S	R	2	20	1	0
R99-2088	5.0	1.0	5.0	4.3	3.5	R	R	2	15	1	0
R99-2172	5.0	4.0	5.0	4.8	5.0	S	R	21	77	2	0
R00-1158F	5.0	5.0	5.0	2.3	5.0	S	R	4	33	1	1
S99-2281	1.0	1.0	1.0	2.0	1.3	S	R	9	72	1	0
S00-9925-10	5.0	3.0	5.0	5.0	4.0	S	R	1	7	1	1
TN96-115	5.0	5.0	5.0	2.5	2.5	S	R	0	3	1	0
TN00-60	5.0	5.0	5.0	5.0	5.0	R	R	0	2	1	0
V99-0023	5.0	5.0	5.0	2.0	5.0	S	R	0	0	0	0

**TABLE 3 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN  
IN UNIFORM GROUP IV-S, 2003**

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
MANOKIN	28.5	38.7	53.7	40.3
KS4602N	28.3	35.4	56.1	39.9
DK4868 (RR)	29.1	43.5	56.3	43.0
5002T	22.2	40.0	60.7	41.0
DT97-4290	31.6	29.9	50.5	37.3
DT98-7278	28.2	39.0	54.5	40.6
DT98-9102	25.0	36.2	53.7	38.3
DT99-17018	25.0	32.1	54.5	37.2
DT99-17400	18.2	32.0	45.6	31.9
K1539RR	28.9	39.2	52.0	40.0
K1574	33.6	37.7	55.4	42.2
K1575	36.7	43.4	55.3	45.1
LS99-3619	29.0	40.1	60.2	43.1
LS99-3630	20.9	40.5	59.9	40.4
Md 97-6491	30.9	43.6	55.9	43.5
Md 99-1098-2RR	27.8	38.1	53.6	39.8
R96-1689F	26.8	44.8	53.6	41.7
R98-1817	20.7	41.0	59.2	40.3
R99-2088	31.2	35.3	57.5	41.3
R99-2172	38.4	30.1	49.8	39.4
R00-1158F	30.9	36.8	52.6	40.1
S99-2281	18.4	42.0	55.6	38.7
S00-9925-10	28.5	38.3	53.2	40.0
TN96-115	27.5	26.5	54.1	36.0
TN00-60	31.3	38.9	55.9	42.0
V99-0023	25.0	39.6	58.8	41.2
L. S. D. (0.05)	8.3	7.3	5.8	.
C. V. (%)	17.8	11.8	6.4	.

TABLE 3 ~ Continued

STRAIN/ VARIETY	SOUTH						MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD TN	STARKVILLE* MS	ULLIN IL	
MANOKIN	54.0	40.8	62.9	73.0	38.0	63.9	58.9
KS4602N	62.1	49.7	50.4	55.7	8.1	60.5	55.7
DK4868 (RR)	47.6	52.7	56.3	60.1	20.5	70.0	57.3
5002T	67.2	48.7	65.0	64.8	24.2	63.7	61.9
DT97-4290	68.3	48.7	59.2	48.1	22.3	55.9	56.0
DT98-7278	69.7	41.6	57.6	68.7	14.7	71.7	61.8
DT98-9102	61.1	37.9	57.2	67.4	18.6	58.4	56.4
DT99-17018	58.6	37.3	54.0	61.9	26.6	55.9	53.6
DT99-17400	63.3	29.5	35.9	57.1	3.3	57.4	48.6
K1539RR	58.8	53.7	57.1	48.3	17.6	58.6	55.3
K1574	68.7	50.2	55.7	58.3	12.0	60.5	58.7
K1575	71.7	45.7	60.2	69.4	15.2	64.9	62.4
LS99-3619	60.3	47.4	57.4	61.9	17.1	58.1	57.0
LS99-3630	62.1	44.3	57.0	71.2	14.9	64.9	59.9
Md 97-6491	56.1	45.2	49.3	64.5	11.9	60.3	55.1
Md 99-1098-2RR	58.2	53.5	60.8	65.2	8.7	56.9	58.9
R96-1689F	62.3	53.0	51.8	55.3	12.5	60.1	56.5
R98-1817	61.1	45.4	60.3	62.2	31.7	66.8	59.2
R99-2088	63.8	34.6	59.0	56.0	37.4	63.2	55.3
R99-2172	59.5	46.8	60.7	61.6	31.4	58.8	57.5
R00-1158F	44.6	47.1	51.3	50.2	23.3	52.8	49.2
S99-2281	71.5	53.2	66.6	73.0	25.1	66.6	66.2
S00-9925-10	71.8	43.8	59.1	66.9	34.9	66.8	61.7
TN96-115	62.1	40.8	52.3	53.5	9.4	60.3	53.8
TN00-60	64.7	41.5	61.0	62.0	36.2	62.7	58.4
V99-0023	59.0	53.5	57.0	56.0	31.2	60.5	57.2
L. S. D. (0.05)	12.0	10.3	5.2	18.1	8.5	8.5	.
C. V. (%)	11.7	13.8	5.6	18.0	24.7	8.5	.

\*Data not included in mean



TABLE 3 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
MANOKIN	51.7	53.8	80.3	61.9
KS4602N	55.9	44.6	52.3	50.9
DK4868 (RR)	58.3	46.6	66.1	57.0
5002T	70.7	56.4	87.1	71.4
DT97-4290	53.3	42.8	64.9	53.6
DT98-7278	60.3	55.5	66.4	60.7
DT98-9102	59.7	49.8	65.2	58.2
DT99-17018	53.9	54.8	53.0	53.9
DT99-17400	45.2	23.0	37.8	35.3
K1539RR	60.1	48.4	57.0	55.2
K1574	49.5	46.0	50.4	48.6
K1575	53.7	39.4	56.5	49.9
LS99-3619	54.5	29.8	58.6	47.6
LS99-3630	57.8	18.0	43.5	39.8
Md 97-6491	48.6	38.3	27.4	38.1
Md 99-1098-2RR	52.2	51.9	56.1	53.4
R96-1689F	52.5	39.5	54.0	48.7
R98-1817	58.4	50.0	75.3	61.2
R99-2088	56.1	60.2	85.0	67.1
R99-2172	58.4	53.4	76.2	62.7
R00-1158F	58.9	56.2	70.2	61.7
S99-2281	56.2	46.7	81.2	61.4
S00-9925-10	61.6	59.1	82.5	67.8
TN96-115	55.7	46.6	63.2	55.2
TN00-60	59.8	56.0	77.1	64.3
V99-0023	45.2	46.3	58.2	49.9
L. S. D. (0.05)	7.4	7.0	15.9	.
C. V. (%)	8.1	9.1	15.4	.

TABLE 3 ~ Continued

STRAIN/ VARIETY	WEST				MEAN
	BIXBY OK	MCCUNE KS	PITTSBURG KS	PROSPER* TX	
MANOKIN	44.0	26.4	35.2	14.3	35.2
KS4602N	33.4	13.4	16.8	12.8	21.2
DK4868 (RR)	37.4	18.0	22.2	19.3	25.9
5002T	44.0	25.6	31.5	14.8	33.7
DT97-4290	38.8	23.6	26.3	11.8	29.5
DT98-7278	36.7	27.8	29.1	9.5	31.2
DT98-9102	37.0	22.7	31.4	14.3	30.3
DT99-17018	40.0	25.9	31.2	12.0	32.3
DT99-17400	31.8	24.0	30.0	9.2	28.6
K1539RR	33.7	19.8	20.3	13.9	24.6
K1574	37.1	25.1	25.7	8.0	29.3
K1575	38.3	23.3	31.4	9.0	31.0
LS99-3619	43.6	24.8	30.4	16.5	32.9
LS99-3630	38.7	16.2	22.6	16.8	25.8
Md 97-6491	27.6	18.7	18.0	12.9	21.4
Md 99-1098-2RR	39.8	27.8	26.7	13.6	31.4
R96-1689F	38.3	15.3	14.6	11.9	22.7
R98-1817	42.0	23.7	28.1	13.8	31.3
R99-2088	46.5	28.5	29.1	14.8	34.7
R99-2172	45.3	25.5	29.6	15.4	33.5
R00-1158F	49.7	24.4	29.4	12.6	34.5
S99-2281	48.9	23.9	33.1	17.2	35.3
S00-9925-10	46.7	29.0	36.6	16.3	37.4
TN96-115	44.9	22.4	30.1	11.4	32.5
TN00-60	38.9	26.4	28.8	20.8	31.3
V99-0023	42.7	23.2	27.4	14.9	31.1
L. S. D. (0.05)	4.0	3.8	3.8	6.8	.
C. V. (%)	6.2	10.0	8.3	30.1	.

\*Data not included in mean

TABLE 4 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2003

## OIL PERCENTAGES

STRAIN/ VARIETY	KNOX-			PITTS-			PORTAGE-	PORTAGE-	PRINCE-	PROSPER*	QUEENS-	STONE-	WARSAW		MEAN
	BIXBY OK	VILLE TN	MCCUNE KS	ORANGE VA	BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	TON KY	TX	TOWN MD	VILLE MS	ILL IL	VA	
MANOKIN	19.2	.	.	17.0	.	22.2	19.5	.	20.4	22.1	18.0	21.1	.	18.8	19.5
KS4602N	19.2	.	.	17.9	.	21.1	20.0	.	20.8	21.3	18.6	20.3	.	19.7	19.7
DK4868 (RR)	19.8	.	.	18.5	.	22.0	21.2	.	21.0	20.8	18.4	22.4	.	20.3	20.5
5002T	18.6	.	.	16.7	.	21.5	19.4	.	19.6	21.2	17.5	21.6	.	19.6	19.3
DT97-4290	17.8	.	.	16.7	.	20.3	19.0	.	19.3	20.3	18.2	20.2	.	18.9	18.8
DT98-7278	19.2	.	.	17.7	.	20.9	19.0	.	20.1	20.4	18.0	19.4	.	19.1	19.2
DT98-9102	19.8	.	.	17.5	.	20.9	20.2	.	19.9	21.2	18.2	21.3	.	19.0	19.6
DT99-17018	18.8	.	.	17.3	.	19.3	19.4	.	20.3	20.2	16.4	20.9	.	18.5	18.9
DT99-17400	19.2	.	.	16.5	.	20.9	20.0	.	18.6	20.8	17.9	21.6	.	18.6	19.2
K1539RR	19.2	.	.	18.1	.	21.0	20.4	.	20.7	19.9	19.4	20.5	.	19.5	19.9
K1574	18.5	.	.	18.2	.	21.0	19.9	.	21.0	21.8	19.0	21.1	.	19.5	19.8
K1575	19.3	.	.	16.6	.	20.8	19.9	.	19.7	20.7	17.4	19.5	.	18.6	19.0
LS99-3619	19.2	.	.	17.4	.	20.8	19.5	.	19.9	19.6	17.9	20.2	.	18.4	19.2
LS99-3630	19.1	.	.	17.9	.	20.4	19.5	.	20.8	20.1	18.6	20.4	.	18.9	19.5
Md 97-6491	18.0	.	.	17.7	.	19.0	19.1	.	19.7	19.8	18.3	19.6	.	18.5	18.7
Md 99-1098-2RR	18.7	.	.	17.1	.	21.7	19.8	.	19.9	22.9	18.3	22.2	.	18.8	19.6
R96-1689F	20.1	.	.	18.2	.	20.9	20.8	.	20.7	21.3	18.6	20.9	.	20.1	20.0
R98-1817	19.1	.	.	17.0	.	20.4	21.0	.	19.8	21.1	17.9	19.6	.	18.3	19.1
R99-2088	18.2	.	.	17.2	.	20.1	19.2	.	19.3	20.8	17.8	20.5	.	18.3	18.8
R99-2172	18.8	.	.	17.0	.	20.7	19.1	.	19.9	21.1	17.3	20.9	.	18.2	19.0
R00-1158F	19.1	.	.	17.6	.	20.5	20.2	.	20.3	20.9	17.9	20.7	.	19.0	19.4
S99-2281	18.7	.	.	16.4	.	21.7	19.7	.	18.9	21.3	16.7	20.6	.	17.7	18.8
S00-9925-10	19.3	.	.	17.4	.	20.8	19.9	.	19.8	19.6	17.5	20.1	.	18.7	19.2
TN96-115	18.3	.	.	15.7	.	20.4	19.1	.	19.5	18.8	16.6	19.3	.	16.6	18.2
TN00-60	19.7	.	.	17.8	.	21.5	20.9	.	20.9	22.8	18.1	22.7	.	20.1	20.2
V99-0023	19.0	.	.	17.7	.	20.4	20.6	.	20.8	20.8	18.6	19.6	.	19.6	19.5

\*Data not included in mean

TABLE 4 ~ Continued

## PROTEIN PERCENTAGES

STRAIN/ VARIETY	KNOX-			PITTS-			PORTAGE-	PORTAGE-	PRINCE-	PROSPER*	QUEENS-	STONE-	WARSAW		MEAN
	BIXBY OK	VILLE TN	MCCUNE KS	ORANGE VA	BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	TON KY	TX	TOWN MD	VILLE MS	ULLIN IL	VA	
MANOKIN	38.8	.	.	40.4	.	39.6	40.7	.	38.3	39.5	42.3	40.5	.	41.9	40.3
KS4602N	40.5	.	.	41.3	.	43.2	42.7	.	41.7	40.1	41.5	43.3	.	41.0	41.9
DK4868 (RR)	42.6	.	.	39.8	.	38.9	39.8	.	40.4	38.3	40.9	41.6	.	40.7	40.6
5002T	40.4	.	.	39.8	.	40.3	40.3	.	38.8	44.1	41.9	40.5	.	41.0	40.4
DT97-4290	42.5	.	.	41.2	.	40.5	40.9	.	40.8	40.4	42.5	40.8	.	42.1	41.4
DT98-7278	40.8	.	.	41.0	.	40.9	41.9	.	40.2	42.4	43.0	39.8	.	41.7	41.2
DT98-9102	37.1	.	.	38.1	.	39.0	39.2	.	39.5	40.2	40.9	38.1	.	39.8	39.0
DT99-17018	42.3	.	.	40.7	.	41.2	41.7	.	39.4	44.1	44.6	43.4	.	42.6	42.0
DT99-17400	39.3	.	.	38.7	.	39.0	39.2	.	40.7	41.1	42.3	40.2	.	41.4	40.1
K1539RR	42.4	.	.	41.5	.	43.0	41.5	.	39.8	45.5	41.5	42.1	.	41.3	41.6
K1574	41.3	.	.	40.3	.	42.3	40.8	.	39.9	38.6	42.2	43.9	.	43.1	41.7
K1575	40.4	.	.	41.1	.	38.5	40.6	.	39.4	37.3	42.2	39.9	.	41.9	40.5
LS99-3619	41.9	.	.	42.0	.	40.9	41.5	.	40.4	42.4	43.8	42.0	.	42.9	41.9
LS99-3630	41.3	.	.	39.3	.	42.3	40.8	.	37.9	41.5	41.9	41.7	.	42.4	41.0
Md 97-6491	46.1	.	.	41.5	.	42.4	44.5	.	43.0	43.1	43.1	45.5	.	45.2	43.9
Md 99-1098-2RR	40.3	.	.	39.0	.	33.8	38.3	.	38.3	32.5	40.3	37.4	.	40.1	38.4
R96-1689F	40.6	.	.	41.4	.	41.3	40.3	.	39.8	38.4	42.2	42.0	.	41.6	41.2
R98-1817	42.4	.	.	40.2	.	39.8	39.1	.	39.4	39.1	43.1	43.1	.	43.5	41.3
R99-2088	40.0	.	.	38.8	.	38.8	40.6	.	38.8	38.5	41.8	38.8	.	40.9	39.8
R99-2172	38.9	.	.	38.4	.	38.0	39.8	.	37.2	39.3	41.6	38.1	.	38.8	38.9
R00-1158F	40.5	.	.	40.5	.	39.3	39.6	.	39.0	39.5	41.3	40.7	.	41.4	40.3
S99-2281	38.1	.	.	38.5	.	37.3	41.0	.	38.5	40.4	41.9	40.3	.	42.1	39.7
S00-9925-10	40.8	.	.	40.8	.	38.8	41.1	.	38.9	42.4	43.9	38.3	.	41.9	40.6
TN96-115	40.9	.	.	43.3	.	40.9	41.9	.	40.5	42.4	44.8	42.8	.	44.9	42.5
TN00-60	38.5	.	.	37.9	.	36.2	39.9	.	37.4	37.6	41.2	35.4	.	39.4	38.2
V99-0023	42.5	.	.	42.0	.	43.3	42.5	.	40.7	41.8	42.2	43.6	.	43.0	42.5

\*Data not included in mean

TABLE 4 ~ Continued

## GRAMS PER 100 SEED

STRAIN/ VARIETY	KNOX-			PITTS-			PORTAGE-	PORTAGE-	PRINCE-	PROSPER*	QUEENS-	STONE-		WARSAW	MEAN
	BIXBY OK	VILLE TN	MCCUNE KS	ORANGE VA	BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	TON KY		TOWN MD	VILLE MS	ULLIN IL		
MANOKIN	.	12.8	12.0	12.1	14.1	11.7	9.7	11.7	13.4	.	13.8	12.2	12.9	11.6	12.3
KS4602N	.	15.8	13.1	16.6	18.7	14.7	12.4	14.1	17.1	.	14.4	16.1	15.7	14.1	15.2
DK4868 (RR)	.	12.5	12.9	14.2	16.0	11.5	12.9	13.0	13.9	.	13.2	14.5	14.3	13.0	13.5
5002T	.	16.0	11.9	13.5	14.7	12.7	13.6	13.9	15.5	.	15.0	16.2	16.5	13.8	14.4
DT97-4290	.	16.5	14.1	15.5	16.8	13.7	11.9	14.1	15.8	.	17.5	15.7	15.7	13.1	15.0
DT98-7278	.	18.9	15.5	15.6	15.6	16.0	12.5	14.3	16.9	.	14.9	17.3	17.1	13.6	15.7
DT98-9102	.	17.0	12.9	13.6	14.4	13.3	12.9	13.9	17.2	.	15.7	15.7	17.0	13.5	14.8
DT99-17018	.	15.0	14.0	14.7	15.3	14.0	12.5	14.0	15.6	.	15.3	16.4	16.6	13.2	14.7
DT99-17400	.	15.0	13.4	13.5	14.0	13.7	11.7	14.6	16.4	.	14.8	16.0	15.5	12.8	14.3
K1539RR	.	16.8	14.2	15.2	18.3	13.0	14.1	14.0	16.8	.	14.8	16.2	15.5	15.0	15.3
K1574	.	15.7	13.1	14.1	15.9	14.0	12.3	13.3	14.2	.	14.2	15.1	14.5	12.9	14.1
K1575	.	15.4	11.9	13.0	13.9	12.7	11.8	12.2	13.1	.	12.6	14.4	14.0	11.6	13.0
LS99-3619	.	13.3	13.3	13.3	15.2	12.3	10.9	12.4	13.6	.	13.3	14.7	13.8	12.1	13.2
LS99-3630	.	14.0	11.7	12.7	14.3	12.3	10.6	12.4	14.1	.	13.7	14.9	14.6	12.0	13.1
Md 97-6491	.	18.2	14.4	16.6	14.8	16.0	14.9	15.5	16.2	.	15.4	18.4	16.3	17.6	16.2
Md 99-1098-2RR	.	13.2	12.0	13.0	13.7	11.3	10.9	11.9	14.0	.	12.3	11.6	13.4	10.8	12.4
R96-1689F	.	13.3	12.5	13.2	14.5	12.0	10.4	10.8	12.3	.	11.8	12.4	12.1	11.3	12.2
R98-1817	.	12.8	13.6	12.0	14.6	10.5	10.2	11.1	12.9	.	12.1	11.4	13.0	10.6	12.1
R99-2088	.	17.1	13.3	13.6	15.8	14.0	13.9	14.4	14.9	.	15.0	13.3	16.0	14.8	14.7
R99-2172	.	14.1	13.2	12.4	14.6	12.0	11.4	12.0	12.7	.	13.0	11.7	13.0	11.6	12.6
R00-1158F	.	13.8	15.7	15.7	19.0	13.7	13.8	13.6	15.1	.	14.9	15.6	15.4	13.4	15.0
S99-2281	.	14.4	11.6	11.8	14.2	11.3	12.4	12.8	14.9	.	12.5	13.2	14.2	11.7	12.9
S00-9925-10	.	15.4	13.0	12.5	15.5	12.0	11.7	12.9	13.1	.	12.6	14.3	15.1	11.0	13.3
TN96-115	.	10.8	12.4	11.5	13.7	10.0	9.5	10.4	11.7	.	11.1	11.5	11.5	9.4	11.1
TN00-60	.	15.7	11.3	13.7	16.6	12.3	13.8	13.5	15.5	.	14.6	13.3	15.4	13.2	14.1
V99-0023	.	13.4	10.9	13.3	14.5	10.7	11.4	11.4	12.8	.	12.9	11.7	12.8	11.7	12.3

\*Data not included in mean

**TABLE 5 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN MANOKIN, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2003**

**EAST**

STRAIN/ VARIETY	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	10/03	10/23	10/08	10/12
KS4602N	-9	-1	-5	-6
DK4868 (RR)	-6	-1	-3	-4
5002T	-2	0	1	-1
DT97-4290	-5	1	-3	-3
DT98-7278	4	1	0	1
DT98-9102	2	2	1	1
DT99-17018	3	3	1	2
DT99-17400	0	2	1	0
K1539RR	-6	0	-2	-4
K1574	-3	2	-2	-2
K1575	0	2	0	0
LS99-3619	-6	2	0	-2
LS99-3630	-4	1	-2	-2
Md 97-6491	-6	-1	-5	-5
Md 99-1098-2RR	4	1	1	1
R96-1689F	-7	0	-5	-5
R98-1817	-1	2	1	0
R99-2088	5	7	3	4
R99-2172	2	2	2	2
R00-1158F	-1	2	1	0
S99-2281	-5	2	1	-1
S00-9925-10	2	4	2	2
TN96-115	0	1	-1	-1
TN00-60	-2	0	-1	-2
V99-0023	-6	1	-4	-4

TABLE 5 ~ Continued

STRAIN/ VARIETY	SOUTH						MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD TN	STARKVILLE* MS	ULLIN IL	
MANOKIN	09/23	10/29	.	10/09	.	10/12	10/11
KS4602N	-7	-7	.	-7	.	-11	-8
DK4868 (RR)	-5	-3	.	-7	.	-9	-6
5002T	2	1	.	0	.	2	1
DT97-4290	-2	-2	.	-5	.	-4	-3
DT98-7278	9	5	.	1	.	2	4
DT98-9102	4	4	.	0	.	2	2
DT99-17018	5	4	.	-2	.	2	2
DT99-17400	5	1	.	0	.	1	2
K1539RR	-3	-6	.	-7	.	-8	-6
K1574	-2	1	.	-4	.	-5	-3
K1575	4	0	.	0	.	-2	0
LS99-3619	-1	0	.	0	.	-2	-1
LS99-3630	0	0	.	0	.	-2	-1
Md 97-6491	0	-4	.	-6	.	-12	-6
Md 99-1098-2RR	2	1	.	-1	.	-2	0
R96-1689F	-2	-7	.	-4	.	-10	-6
R98-1817	2	5	.	0	.	0	1
R99-2088	12	3	.	1	.	7	6
R99-2172	5	5	.	0	.	4	3
R00-1158F	-3	-5	.	-6	.	-4	-5
S99-2281	9	5	.	1	.	3	4
S00-9925-10	10	5	.	1	.	3	5
TN96-115	-1	-1	.	-5	.	-4	-3
TN00-60	2	4	.	0	.	-3	1
V99-0023	-5	-1	.	-7	.	-12	-7

\*Data not included in mean

TABLE 5 ~ Continued

STRAIN/ VARIETY	DELTA			
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	10/04	10/07	09/09	09/27
KS4602N	-7	-6	-15	-10
DK4868 (RR)	-6	-6	-13	-9
5002T	3	1	1	1
DT97-4290	-3	-5	-11	-7
DT98-7278	-1	-1	-1	-1
DT98-9102	-2	-3	0	-2
DT99-17018	1	-2	0	-1
DT99-17400	-1	-3	-2	-2
K1539RR	-5	-7	-11	-8
K1574	-5	-7	-12	-8
K1575	-3	1	1	-1
LS99-3619	-4	-5	-1	-4
LS99-3630	-3	-4	0	-3
Md 97-6491	-7	-8	-14	-10
Md 99-1098-2RR	1	2	4	2
R96-1689F	-5	-8	-15	-10
R98-1817	-2	-1	0	-1
R99-2088	4	1	3	2
R99-2172	3	-1	3	1
R00-1158F	-3	-4	-1	-3
S99-2281	1	-1	2	0
S00-9925-10	2	1	3	2
TN96-115	-3	-2	0	-2
TN00-60	-1	-1	0	-1
V99-0023	-7	-8	-1	-6



**TABLE 6 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2003**

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
MANOKIN	31	22	31	28
KS4602N	30	26	33	30
DK4868 (RR)	32	28	32	31
5002T	26	20	28	25
DT97-4290	35	21	32	29
DT98-7278	27	17	23	22
DT98-9102	30	16	29	25
DT99-17018	28	16	25	23
DT99-17400	23	15	22	20
K1539RR	32	24	31	29
K1574	27	17	22	22
K1575	25	20	25	23
LS99-3619	27	22	28	26
LS99-3630	32	17	26	25
Md 97-6491	33	27	33	31
Md 99-1098-2RR	23	20	24	22
R96-1689F	32	28	33	31
R98-1817	28	19	26	24
R99-2088	32	19	36	29
R99-2172	31	15	30	26
R00-1158F	39	29	37	35
S99-2281	28	22	31	27
S00-9925-10	26	21	27	24
TN96-115	27	18	28	24
TN00-60	32	24	31	29
V99-0023	31	29	35	31

TABLE 6 ~ Continued

STRAIN/ VARIETY	SOUTH						MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD TN	STARKVILLE* MS	ULLIN IL	
MANOKIN	35	34	39	32	17	34	35
KS4602N	30	28	32	35	12	34	32
DK4868 (RR)	37	28	34	35	21	37	34
5002T	31	29	31	32	14	30	31
DT97-4290	37	35	38	39	23	39	37
DT98-7278	33	31	33	32	15	30	32
DT98-9102	37	33	37	36	17	35	36
DT99-17018	36	29	34	34	17	35	34
DT99-17400	31	26	30	31	14	29	29
K1539RR	37	28	32	31	22	32	32
K1574	30	27	30	30	16	28	29
K1575	32	29	31	27	15	31	30
LS99-3619	35	28	34	31	14	33	32
LS99-3630	34	27	32	31	13	35	32
Md 97-6491	40	31	37	38	18	39	37
Md 99-1098-2RR	30	27	28	27	10	30	28
R96-1689F	40	29	35	34	20	35	35
R98-1817	33	28	36	36	17	31	33
R99-2088	39	37	38	37	19	42	39
R99-2172	37	35	40	41	21	36	38
R00-1158F	40	32	39	41	26	42	39
S99-2281	37	35	40	33	20	37	36
S00-9925-10	34	30	33	33	18	33	33
TN96-115	31	29	32	29	16	31	30
TN00-60	35	28	32	36	30	35	33
V99-0023	38	32	36	37	28	39	36

\*Data not included in mean

TABLE 6 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
MANOKIN	31	27	20	26
KS4602N	38	26	28	31
DK4868 (RR)	37	27	30	31
5002T	26	24	24	25
DT97-4290	36	31	30	32
DT98-7278	26	25	24	25
DT98-9102	31	26	20	26
DT99-17018	34	28	20	27
DT99-17400	25	21	18	21
K1539RR	38	29	24	30
K1574	23	20	18	20
K1575	27	21	16	21
LS99-3619	32	22	18	24
LS99-3630	32	23	18	24
Md 97-6491	40	29	28	32
Md 99-1098-2RR	29	23	16	23
R96-1689F	41	32	26	33
R98-1817	31	30	24	28
R99-2088	40	34	28	34
R99-2172	40	31	20	30
R00-1158F	47	34	30	37
S99-2281	36	31	24	30
S00-9925-10	30	29	20	26
TN96-115	31	25	18	25
TN00-60	40	29	40	36
V99-0023	45	31	38	38

TABLE 6 ~ Continued

STRAIN/ VARIETY	WEST				MEAN
	BIXBY OK	MCCUNE KS	PITTSBURG KS	PROSPER* TX	
MANOKIN	26	35	26	16	29
KS4602N	25	27	21	15	24
DK4868 (RR)	22	30	22	20	24
5002T	23	32	25	15	27
DT97-4290	31	34	27	27	31
DT98-7278	19	33	25	14	26
DT98-9102	23	33	26	12	27
DT99-17018	24	33	24	15	27
DT99-17400	19	30	23	12	24
K1539RR	26	25	20	15	24
K1574	22	28	24	11	25
K1575	20	28	22	11	23
LS99-3619	22	30	25	14	25
LS99-3630	23	27	23	13	24
Md 97-6491	28	32	23	18	28
Md 99-1098-2RR	21	27	21	10	23
R96-1689F	25	31	24	20	27
R98-1817	22	27	22	14	24
R99-2088	25	35	27	17	29
R99-2172	29	34	27	15	30
R00-1158F	31	31	25	22	29
S99-2281	29	36	27	16	31
S00-9925-10	23	27	23	14	24
TN96-115	23	28	25	11	25
TN00-60	23	26	23	27	24
V99-0023	30	30	25	34	29

\*Data not included in mean

**TABLE 7 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP IV-S, 2003**

STRAIN/ VARIETY	EAST		MEAN
	QUEENSTOWN MD	WARSAW VA	
MANOKIN	3.7	2.8	3.2
KS4602N	3.0	1.7	2.3
DK4868 (RR)	2.8	1.8	2.3
5002T	2.7	3.1	2.9
DT97-4290	2.8	2.5	2.7
DT98-7278	1.8	1.9	1.9
DT98-9102	2.0	2.6	2.3
DT99-17018	1.8	2.0	1.9
DT99-17400	2.2	2.0	2.1
K1539RR	2.8	2.2	2.5
K1574	1.5	1.8	1.6
K1575	2.2	1.5	1.8
LS99-3619	2.2	1.8	2.0
LS99-3630	1.5	1.4	1.5
Md 97-6491	3.2	1.5	2.4
Md 99-1098-2RR	2.2	1.1	1.7
R96-1689F	3.5	2.1	2.8
R98-1817	3.0	2.5	2.8
R99-2088	2.7	3.3	3.0
R99-2172	2.0	2.6	2.3
R00-1158F	3.3	2.6	3.0
S99-2281	2.7	3.1	2.9
S00-9925-10	3.8	2.9	3.4
TN96-115	2.8	2.6	2.7
TN00-60	2.7	2.1	2.4
V99-0023	3.2	2.2	2.7

TABLE 7 ~ Continued

STRAIN/ VARIETY	SOUTH						MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD TN	STARKVILLE* MS	ULLIN IL	
MANOKIN	3.3	3.7	2.0	3.7	1.0	2.0	2.9
KS4602N	2.0	1.7	1.0	2.0	1.0	1.0	1.5
DK4868 (RR)	1.7	1.0	1.0	1.3	1.0	1.0	1.2
5002T	1.7	3.0	1.7	3.3	1.0	2.3	2.4
DT97-4290	4.0	1.7	1.2	3.0	1.0	3.0	2.6
DT98-7278	3.0	3.3	2.0	3.3	1.0	1.7	2.7
DT98-9102	3.3	3.3	1.8	3.0	1.0	2.3	2.8
DT99-17018	3.0	3.3	2.2	4.7	1.0	4.0	3.4
DT99-17400	2.2	2.3	2.0	3.7	1.0	1.3	2.3
K1539RR	3.2	2.3	1.0	1.7	1.0	1.0	1.8
K1574	2.7	2.7	1.3	1.7	1.0	1.0	1.9
K1575	1.3	3.0	1.0	1.3	1.0	1.0	1.5
LS99-3619	2.3	2.3	1.2	3.3	1.0	2.3	2.3
LS99-3630	1.7	1.3	1.2	1.3	1.0	1.0	1.3
Md 97-6491	3.2	1.3	1.0	1.0	1.0	1.0	1.5
Md 99-1098-2RR	1.7	2.0	1.0	1.3	1.0	1.0	1.4
R96-1689F	3.8	2.0	1.0	3.3	1.0	2.3	2.5
R98-1817	3.3	3.0	1.5	3.7	1.0	2.7	2.8
R99-2088	4.2	4.0	2.0	3.7	1.0	4.0	3.6
R99-2172	3.7	3.0	1.8	3.7	1.0	1.7	2.8
R00-1158F	3.3	1.0	1.3	2.3	1.0	4.0	2.4
S99-2281	3.5	3.0	2.0	3.3	1.0	2.7	2.9
S00-9925-10	3.3	3.7	1.7	4.7	1.0	4.0	3.5
TN96-115	2.7	3.3	2.0	4.0	1.0	2.3	2.9
TN00-60	1.8	2.3	1.2	2.3	1.0	1.0	1.7
V99-0023	2.5	1.7	1.0	2.0	1.0	1.7	1.8

\*Data not included in mean

TABLE 7 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
MANOKIN	3.0	1.0	2.0	2.0
KS4602N	1.5	1.0	2.0	1.5
DK4868 (RR)	1.5	1.0	2.0	1.5
5002T	2.0	1.0	2.0	1.7
DT97-4290	2.5	1.0	2.0	1.8
DT98-7278	2.0	1.0	2.0	1.7
DT98-9102	2.0	1.0	2.0	1.7
DT99-17018	2.5	1.0	2.0	1.8
DT99-17400	2.0	1.0	2.0	1.7
K1539RR	2.5	1.0	2.0	1.8
K1574	1.0	1.0	2.0	1.3
K1575	1.0	1.0	2.0	1.3
LS99-3619	1.0	1.0	2.0	1.3
LS99-3630	1.5	1.0	2.0	1.5
Md 97-6491	1.0	1.0	2.0	1.3
Md 99-1098-2RR	1.0	1.0	2.0	1.3
R96-1689F	2.5	1.0	2.0	1.8
R98-1817	2.0	1.0	2.0	1.7
R99-2088	3.0	1.0	2.0	2.0
R99-2172	2.5	1.0	2.0	1.8
R00-1158F	3.0	1.0	2.0	2.0
S99-2281	2.5	1.0	2.0	1.8
S00-9925-10	2.5	1.0	2.0	1.8
TN96-115	2.5	1.0	2.0	1.8
TN00-60	3.0	1.0	2.0	2.0
V99-0023	2.5	1.0	2.0	1.8

TABLE 7 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	MCCUNE KS	PITTSBURG KS	
MANOKIN	2.3	1.3	1.8
KS4602N	1.0	1.0	1.0
DK4868 (RR)	1.0	1.0	1.0
5002T	1.0	1.0	1.0
DT97-4290	1.0	1.0	1.0
DT98-7278	2.7	1.7	2.2
DT98-9102	1.3	1.0	1.2
DT99-17018	1.3	1.0	1.2
DT99-17400	1.0	1.0	1.0
K1539RR	1.0	1.0	1.0
K1574	1.0	1.0	1.0
K1575	1.0	1.0	1.0
LS99-3619	1.0	1.0	1.0
LS99-3630	1.0	1.0	1.0
Md 97-6491	1.0	1.0	1.0
Md 99-1098-2RR	1.0	1.0	1.0
R96-1689F	1.0	1.0	1.0
R98-1817	1.0	1.0	1.0
R99-2088	1.3	1.7	1.5
R99-2172	1.0	1.0	1.0
R00-1158F	1.0	1.0	1.0
S99-2281	1.7	1.0	1.3
S00-9925-10	1.0	1.0	1.0
TN96-115	1.0	1.0	1.0
TN00-60	1.0	1.0	1.0
V99-0023	1.0	1.0	1.0



**TABLE 8 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP  
IV-S, 2003**

STRAIN/ VARIETY	EAST		MEAN
	QUEENSTOWN MD	WARSAW VA	
MANOKIN	1.0	1.1	1.0
KS4602N	1.0	1.2	1.1
DK4868 (RR)	1.0	1.4	1.2
5002T	1.0	1.1	1.0
DT97-4290	1.0	1.2	1.1
DT98-7278	1.0	1.1	1.1
DT98-9102	1.0	1.1	1.1
DT99-17018	1.0	1.1	1.0
DT99-17400	1.0	1.1	1.1
K1539RR	1.0	1.2	1.1
K1574	1.0	1.1	1.1
K1575	1.0	1.1	1.1
LS99-3619	1.0	1.3	1.2
LS99-3630	1.0	1.1	1.1
Md 97-6491	1.0	1.5	1.3
Md 99-1098-2RR	1.0	1.1	1.0
R96-1689F	1.0	1.1	1.0
R98-1817	1.0	1.2	1.1
R99-2088	1.0	1.2	1.1
R99-2172	1.0	1.2	1.1
R00-1158F	1.0	1.1	1.1
S99-2281	1.0	1.2	1.1
S00-9925-10	1.0	1.2	1.1
TN96-115	1.0	1.1	1.1
TN00-60	1.0	1.1	1.1
V99-0023	1.0	1.2	1.1

TABLE 8 ~ Continued

STRAIN/ VARIETY	SOUTH				MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	ULLIN IL	
MANOKIN	3.0	1.3	1.0	1.0	1.6
KS4602N	3.0	1.0	1.0	1.0	1.5
DK4868 (RR)	5.0	1.7	1.0	1.0	2.2
5002T	3.0	1.3	1.0	1.0	1.6
DT97-4290	3.0	1.7	1.0	1.0	1.7
DT98-7278	2.0	1.0	1.0	1.0	1.3
DT98-9102	1.0	1.3	1.0	1.0	1.1
DT99-17018	1.0	2.0	1.0	1.0	1.3
DT99-17400	2.0	2.0	1.0	1.0	1.5
K1539RR	2.0	1.0	1.0	1.0	1.3
K1574	1.0	1.0	1.0	1.0	1.0
K1575	3.0	1.0	1.0	1.0	1.5
LS99-3619	2.0	2.0	1.0	1.0	1.5
LS99-3630	2.0	1.0	1.0	1.0	1.3
Md 97-6491	4.0	1.0	1.0	1.0	1.8
Md 99-1098-2RR	3.0	1.0	1.0	1.0	1.5
R96-1689F	2.0	1.7	1.0	1.0	1.4
R98-1817	2.0	1.3	1.0	1.0	1.3
R99-2088	2.0	1.7	1.0	1.0	1.4
R99-2172	1.0	1.7	1.0	1.0	1.2
R00-1158F	3.0	1.0	1.0	1.0	1.5
S99-2281	2.0	1.3	1.0	1.0	1.3
S00-9925-10	2.0	1.3	1.0	1.0	1.3
TN96-115	2.0	1.7	1.0	1.0	1.4
TN00-60	2.0	1.0	1.0	1.0	1.3
V99-0023	2.0	1.0	1.0	1.0	1.3

TABLE 8 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
MANOKIN	3.0	3.0	2.0	2.7
KS4602N	3.0	3.0	2.0	2.7
DK4868 (RR)	3.0	3.0	2.0	2.7
5002T	3.0	3.0	2.0	2.7
DT97-4290	3.0	2.0	2.0	2.3
DT98-7278	3.0	2.0	2.0	2.3
DT98-9102	3.0	2.0	2.0	2.3
DT99-17018	3.0	3.0	2.0	2.7
DT99-17400	3.0	3.0	2.0	2.7
K1539RR	3.0	3.0	2.0	2.7
K1574	3.0	2.0	2.0	2.3
K1575	3.0	2.0	2.0	2.3
LS99-3619	3.0	2.0	2.0	2.3
LS99-3630	3.0	2.0	2.0	2.3
Md 97-6491	3.0	2.0	2.0	2.3
Md 99-1098-2RR	3.0	2.0	2.0	2.3
R96-1689F	3.0	2.0	2.0	2.3
R98-1817	3.0	2.0	2.0	2.3
R99-2088	3.0	2.0	2.0	2.3
R99-2172	1.0	2.0	2.0	1.7
R00-1158F	1.0	3.0	2.0	2.0
S99-2281	3.0	2.0	2.0	2.3
S00-9925-10	3.0	2.0	2.0	2.3
TN96-115	3.0	2.0	2.0	2.3
TN00-60	3.0	2.0	2.0	2.3
V99-0023	3.0	1.0	2.0	2.0

TABLE 8 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	MCCUNE KS	PITTSBURG KS	
MANOKIN	2.0	2.0	2.0
KS4602N	3.0	3.0	3.0
DK4868 (RR)	3.0	2.0	2.5
5002T	2.0	2.0	2.0
DT97-4290	2.0	2.0	2.0
DT98-7278	2.0	2.0	2.0
DT98-9102	3.0	2.0	2.5
DT99-17018	2.0	2.0	2.0
DT99-17400	2.0	2.0	2.0
K1539RR	3.0	3.0	3.0
K1574	3.0	2.0	2.5
K1575	3.0	2.0	2.5
LS99-3619	3.0	3.0	3.0
LS99-3630	3.0	3.0	3.0
Md 97-6491	3.0	2.0	2.5
Md 99-1098-2RR	2.0	2.0	2.0
R96-1689F	2.0	3.0	2.5
R98-1817	2.0	2.0	2.0
R99-2088	2.0	2.0	2.0
R99-2172	2.0	3.0	2.5
R00-1158F	2.0	2.0	2.0
S99-2281	2.0	2.0	2.0
S00-9925-10	2.0	2.0	2.0
TN96-115	2.0	2.0	2.0
TN00-60	3.0	2.0	2.5
V99-0023	3.0	3.0	3.0

## **PRELIMINARY GROUP IV-S**

**2003**

**Preliminary Group IV-S nurseries were planted at 12 locations. Data were obtained from 10 of these locations. The parentage for each strain is reported in Table 9. Table 10 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 11 - 17.**

**TABLE 9 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP  
IV-S, 2003**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 × D74-7824	
2. KS4602N	Del soy4710 × K1191	
3. DK4868 (RR)	Commercial Check RR	
4. 5002T	N85-578 × Manokin	
5. DB99-17048	DT96-6840 × Bolivar	F6
6. DB99-17145	DT96-6840 × Bolivar	F6
7. DB99-17445	UARK5798 × Bolivar	F6
8. DB99-17531	UARK5798 × Bolivar	F6
9. K1603RR	KS4895//KS4895/(Resnik2/40-3-2)	F5
10. K1604	S92-2711A × KS4997 SCN Res	F5
11. K1605	Manokin × LN93-11586	F5
12. K1606	NK S46-44 × S91-5371-17 SCN Res	F5
13. K1607	Manokin × LN93-11586	F5
14. LS00-0655	DK411 × LS92-0185	
15. LS00-1755	LS92-4357 × K1307	
16. LS00-1865	Macon × LS92-1088	
17. LS00-1874	Macon × LS92-1088	
18. LS00-1970	DK411 × TN91-55	
19. Md 99-1353-2 RR	Manokin × (Manokin × RR) R*	F5
20. Md 00-5020	S92-1069 × MD 93-5298 R*	
21. Md 00-5024	S92-1069 × MD 93-5298	
22. Md 00-5295	KY91-11114 × CROTON 3.9	
23. Md 00-5326	KY91-11114 × CROTON 3.9	F5
24. R96-1720F	P9501 × P6906-016	
25. R98-1523	A5403 × Hartz 5545	
26. R98-2390F	KY88-4080 × DP3478	
27. R99-2665F	N90-516 × P9281	
28. R99-2821	Caviness × Hartz 5545	
29. S98-3940-43 RR	(Del soy 5500 × RR) × S86-4499	
30. S98-3940-97 RR	(Del soy 5500 × RR) × S86-4499	
31. S99-11509	LG91-7320 × Probst	
32. S01-9825 RR	Manokin × Del soy 4710 (4) × RR	
33. S02-677CR RR	(S86-4499 (4) × RR) × Unknown	
34. S02-750CR RR	SS94-7546 × (S86-4499 (4) × RR)	
35. TN01-056	TN93-88 × MD92-5769	
36. TN01-136	R93-171 × Fowler	
37. TN01-236	N97-3708-13 × Anand	
38. V99-0025	KS4895 × TN90-03	
39. V99-0885	Chesapeake × Mo/PSD-0259	
40. V99-7405	V87-299 × Kenwood	

**TABLE 10 ~ GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP IV-S, 2003 ~  
MEAN OF 10 LOCATIONS**

STRAIN/ VARIETY	SEED		AVG.	MAT.	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----		STEM CANKER	SCN 2	SCN 3	SCN 14	FL COLOR	PUB. COLOR	POD COLOR
	YIELD	RANK	RANK	INDEX					PROTEIN	OIL							
MANOKIN	52.7	4	18	10/02	2.2	29	1.6	12.7	40.8	19.4	R	4.0	1.0	5.0	W	T	T
KS4602N	45.0-	36	24	6-	1.6	30	1.6	15.2	42.6+	19.6	R	2.0	1.0	3.0	P	T	T
DK4868 (RR)	54.3	2	14	5-	1.6	31	1.9	14.0	40.9	20.4+	R	4.0	5.0	2.0	W	G	T
5002T	55.2	1	13	2+	1.8	25	1.5	15.1	41.2	19.7	R	5.0	5.0	4.0	W	T	T
DB99-17048	49.6	16	20	2+	2.1	30	1.4	14.2	42.7+	17.8-	R	4.0	5.0	4.0	W	T	T
DB99-17145	40.5-	39	30	3+	2.1	24	1.5	14.7	40.7	19.1	R	4.0	5.0	5.0	W	T	T
DB99-17445	49.2	18	19	3+	1.8	26	1.5	13.1	41.2	18.8	R	4.0	5.0	4.0	W	T	T
DB99-17531	49.7	15	19	5+	1.8	30	1.6	15.0	40.8	19.0	R	2.0	5.0	4.0	P	T	T
K1603RR	50.2	14	19	1-	1.7	32	1.7	15.4	42.1+	19.5	R	4.0	5.0	5.0			
K1604	45.8-	33	23	7-	1.3	21	1.5	13.0	40.2	20.6+	R	2.0	1.0	2.0			
K1605	47.6	28	20	6-	1.6	30	1.7	14.5	40.5	19.7	R	3.0	5.0	5.0			
K1606	43.2-	38	26	9-	1.6	30	1.8	15.1	42.1+	19.2	R	2.0	1.0	5.0			
K1607	49.1	19	20	4-	1.7	26	1.5	12.6	41.7	19.2	R	2.0	1.0	5.0			
LS00-0655	45.9-	32	23	3-	2.2	31	1.7	16.7	41.4	20.1+	R	3.0	1.0	5.0	W	T	
LS00-1755	49.2	18	20	1-	1.5	26	1.6	13.2	42.1+	18.5-	R	2.0	1.0	1.0	P	T	
LS00-1865	46.2-	31	24	3-	1.5	29	1.8	17.7	41.7	19.8	R	3.0	1.0	5.0	W	T	
LS00-1874	47.9	26	21	5-	1.5	30	1.8	17.4	41.4	19.8	R	2.0	1.0	4.0	W	T	
LS00-1970	47.9	26	21	4-	1.6	34	1.6	14.6	42.4+	19.6	R	2.0	2.0	3.0	P	T	
Md 99-1353-2RR	50.4	12	19	1+	1.7	26	1.5	11.7	41.1	19.8	R	3.0	5.0	5.0	W	T	
Md 00-5020	48.2	23	20	1-	1.6	26	1.6	12.1	40.2	19.6	R	1.0	1.0	1.0	P	T	
Md 00-5024	50.2	14	19	3+	2.1	36	1.5	13.5	40.0	19.8	R	3.0	2.0	4.0	P	T	
Md 00-5295	50.6	11	18	2+	1.6	35	1.8	13.9	41.0	20.2+	R	2.0	5.0	4.0	P	T	
Md 00-5326	52.3	6	16	3+	1.5	34	1.7	14.4	41.9	20.1+	R	4.0	5.0	3.0	W	T	
R96-1720F	48.9	20	21	1+	1.6	34	1.6	15.1	41.7	19.4	R	1.0	5.0	4.0		T	
R98-1523	53.6	3	16	3+	1.8	29	1.5	12.6	41.3	18.8	MR	2.0	1.0	2.0	P	G	
R98-2390F	51.7	7	16	0	2.2	34	1.5	14.1	40.2	20.8+	R	3.0	5.0	4.0	W	G	
R99-2665F	51.6	8	19	3+	2.3	30	1.4	14.0	41.0	19.6	R	3.0	5.0	4.0	W	G	
R99-2821	52.5	5	16	4+	2.7	32	1.6	13.0	42.2+	18.2-	R	2.0	5.0	3.0	P	G	
S98-3940-43 RR	48.5	21	21	1-	1.7	34	1.5	13.7	41.9	18.9	R	1.0	1.0	2.0	W	T	
S98-3940-97 RR	45.4-	34	24	1-	1.7	35	1.5	13.8	41.5	19.1	R	1.0	1.0	2.0	W	T	
S99-11509	47.5	29	21	6-	2.4	34	1.7	15.2	42.2+	19.0	R	1.0	5.0	5.0	P	T	
S01-9825 RR	47.3	30	21	4-	2.5	35	1.7	14.1	40.3	19.5	R	1.0	1.0	5.0	W	T	
S02-677CR RR	48.3	22	20	3-	2.1	35	1.8	15.6	41.6	19.6	R	1.0	1.0	2.0	W	T	
S02-750CR RR	51.3	9	17	3+	2.1	33	1.5	14.3	40.3	20.5+	R	2.0	5.0	3.0	P	G	
TN01-056	48.1	24	21	1+	1.9	25	1.6	14.2	42.1+	18.8	R	2.0	5.0	3.0	P	T	
TN01-136	47.9	26	21	0	2.1	25	1.6	12.2	40.9	18.5-	MR	3.0	5.0	6.0	W	T	
TN01-236	45.1-	35	24	1-	1.5	25	1.6	12.9	42.1+	19.7	R	5.0	5.0	5.0	W	G	
V99-0025	51.2	10	18	3-	1.6	35	1.8	12.4	42.7+	19.7	R	5.0	5.0	2.0	P	G	
V99-0885	32.0-	40	35	8-	1.2	18	1.5	14.5	42.2+	19.4	R	3.0	5.0	3.0	P	G	
V99-7405	44.3-	37	23	3-	1.6	33	2.0	14.3	41.0	19.4	R	2.0	5.0	5.0	P	G	
OVERALL MEAN	48.4								41.4	19.5							
LSD (.05)	5.6								1.2	0.6							
C.V.	13%								3%	3%							

**TABLE 11 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2003**

STRAIN/ VARIETY	BIXBY OK	JACKSON* TN	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	ROHWER AR	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	43.0	34.6	54.5	36.1	54.9	63.4	18.8	39.5	49.2	80.9	57.7	47.3	52.7
KS4602N	30.2-	29.3	54.0	23.8-	59.6	49.1-	10.9-	35.9	47.3	44.8-	54.5	50.6	45.0-
DK4868 (RR)	36.1	28.9	62.5	23.9-	68.6+	57.3	12.8	46.0	60.3	60.9-	69.7+	57.7+	54.3
5002T	43.4	37.5	59.5	35.0	66.4+	62.3	15.8	46.4	52.7	66.9	60.7	59.0+	55.2
DB99-17048	42.9	34.2	66.2	33.2	40.7-	50.4-	17.7	33.8	55.1	71.5	54.5	47.3	49.6
DB99-17145	30.9-	3.3-	63.9	35.6	40.8-	29.4-	12.8	44.0	35.0-	38.4-	41.8-	45.6	40.5-
DB99-17445	33.9-	31.2	60.7	35.0	49.4	51.5-	14.1	30.3-	61.0	60.7-	61.4	47.9	49.2
DB99-17531	36.5	14.8-	67.5	30.9-	47.7	50.4-	10.5-	35.6	60.3	61.8-	56.3	50.0	49.7
K1603RR	36.8	38.5	69.8+	27.2-	47.7	51.6-	12.0	41.3	59.8	58.1-	51.9	58.0+	50.2
K1604	32.3-	29.6	65.5	32.9	44.1-	55.2-	12.0	29.6-	39.8	47.6-	56.3	54.9	45.8-
K1605	36.6	33.5	59.8	19.7-	55.9	51.2-	21.5	40.7	48.0	56.6-	54.5	52.7	47.6
K1606	27.6-	21.7	71.6+	19.6-	49.0	47.0-	13.6	36.0	36.2-	39.9-	59.6	45.2	43.2-
K1607	36.4	40.5	55.9	30.9-	63.4	53.2-	12.0	45.9	52.8	48.1-	49.8	54.2	49.1
LS00-0655	33.5-	32.3	68.4	21.8-	61.6	50.8-	12.1	32.4	52.9	35.2-	53.8	49.0	45.9-
LS00-1755	31.5-	33.5	59.4	32.2	50.8	54.8-	13.0	38.1	41.7	75.9	55.2	52.0	49.2
LS00-1865	30.7-	38.8	67.0	32.2	52.2	51.6-	8.9-	46.4	49.3	43.5-	46.5-	42.9	46.2-
LS00-1874	31.6-	25.5	60.6	31.8	50.6	59.1	11.2-	44.1	48.2	43.8-	54.1	55.4+	47.9
LS00-1970	35.7	27.4	58.6	28.1-	53.9	43.8-	14.2	40.0	49.6	65.6	47.9-	56.2+	47.9
Md 99-1353-2 RR	42.0	32.5	56.2	34.1	59.9	52.9-	19.8	32.7	44.4	77.6	54.1	50.0	50.4
Md 00-5020	37.8	32.6	55.8	34.2	54.0	53.5-	10.4-	35.9	43.7	56.9-	54.5	55.8+	48.2
Md 00-5024	40.0	27.3	49.8	27.2-	48.8	56.6	20.2	45.9	47.5	73.3	57.0	55.7+	50.2
Md 00-5295	44.6	32.1	53.8	31.4-	59.2	58.9	17.3	40.9	47.7	58.2-	51.9	59.5+	50.6
Md 00-5326	44.6	22.5	61.5	31.3-	58.9	59.3	17.8	44.3	47.9	57.5-	58.1	59.8+	52.3
R96-1720F	42.3	28.6	50.5	29.9-	50.6	55.8-	12.3	41.3	43.5	74.3	47.9-	53.1	48.9
R98-1523	41.1	45.0	66.1	36.2	48.1	65.1	8.2-	41.2	51.7	72.0	63.6	50.9	53.6
R98-2390F	41.0	35.8	62.6	22.5-	59.9	54.6-	7.6-	45.0	56.2	70.7	54.8	50.0	51.7
R99-2665F	44.9	33.2	61.3	32.0	43.6-	61.1	12.1	43.0	50.7	78.0	48.3-	52.8	51.6
R99-2821	42.9	36.0	64.2	36.4	61.7	58.5	16.0	39.3	53.1	64.8-	49.4	54.5	52.5
S98-3940-43 RR	42.6	35.8	55.9	35.1	52.2	50.3-	15.2	40.4	49.6	58.9-	51.2	49.0	48.5
S98-3940-97 RR	43.1	35.1	58.8	31.9	45.6-	48.5-	16.7	36.7	44.1	49.6-	51.6	44.6	45.4-
S99-11509	33.2-	28.0	62.8	20.6-	56.7	47.7-	12.2	43.8	50.7	58.3-	48.3-	52.7	47.5
S01-9825 RR	36.0	32.3	49.8	26.2-	54.8	49.2-	18.3	40.4	50.8	57.5-	54.5	54.1	47.3
S02-677CR RR	41.2	22.4	64.7	23.3-	60.7	49.8-	14.3	41.4	48.3	52.5-	51.2	50.3	48.3
S02-750CR RR	35.4	32.7	63.8	23.0-	63.2	50.2-	13.5	42.4	53.1	66.1	56.7	58.8+	51.3
TN01-056	44.5	43.2	57.7	31.6	58.7	54.4-	7.9-	41.3	43.8	50.7-	46.5-	52.0	48.1
TN01-136	38.8	29.7	62.5	31.4-	53.3	55.4-	9.7-	40.3	44.9	42.9-	61.0	48.2	47.9
TN01-236	34.4-	31.9	59.9	30.0-	46.6	48.5-	12.2	23.7-	53.8	61.3-	53.8	38.8-	45.1-
V99-0025	41.6	30.1	56.6	28.8-	65.8+	58.4	18.4	41.9	54.3	67.5	48.7	48.7	51.2
V99-0885	22.6-	21.3	48.9	10.6-	24.5-	44.4-	6.9-	35.2	27.9-	20.0-	36.7-	49.2	32.0-
V99-7405	33.4-	26.9	61.4	6.9-	50.8	50.5-	15.3	39.7	43.3	50.2-	49.0	57.4+	44.3-
L. S. D. (0.05)	7.7	15.1	14.7	4.6	8.7	7.6	7.4	8.9	12.4	16.1	9.0	8.1	5.6
C. V. (%)	10.2	24.2	12.0	8.0	8.1	7.1	26.8	11.1	15.6	13.2	8.3	7.7	13.2

\*Data not included in mean



**TABLE 12 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2003**

STRAIN/ VARIETY	BIXBY OK	PORTAGEVILLE MO(A)	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
MANOKIN	19.1	20.4	19.9	20.3	17.7	20.9	18.2	19.4
KS4602N	19.1	19.9	20.4	19.2	18.6	20.1	19.6	19.6
DK4868 (RR)	19.6	21.0	21.6	24.6	18.7	21.3	19.9	20.4
5002T	18.9	20.1	19.2	22.1	18.3	21.9	19.5	19.7
DB99-17048	17.0	18.4	18.2	20.7	15.9	19.3	17.7	17.8
DB99-17145	18.5	19.5	18.9	21.4	17.2	21.4	18.9	19.1
DB99-17445	18.8	19.7	18.6	21.6	17.2	20.1	18.6	18.8
DB99-17531	18.8	19.7	19.2	22.5	17.1	20.5	18.8	19.0
K1603RR	19.6	20.0	19.3	21.9	18.2	20.6	19.4	19.5
K1604	20.8	20.8	21.6	21.6	18.9	22.4	19.3	20.6
K1605	19.9	19.8	20.5	21.3	17.5	21.1	19.3	19.7
K1606	17.9	19.5	20.0	18.8	18.0	20.7	18.8	19.2
K1607	20.0	19.5	19.3	24.0	17.8	20.3	18.4	19.2
LS00-0655	19.6	20.1	20.9	22.0	18.7	22.0	19.2	20.1
LS00-1755	18.1	19.2	18.8	21.9	17.0	20.2	17.6	18.5
LS00-1865	19.3	20.6	20.5	23.2	17.7	21.4	19.2	19.8
LS00-1874	18.9	20.6	20.6	23.0	18.0	21.2	19.4	19.8
LS00-1970	18.5	20.1	21.3	22.2	18.9	19.8	19.2	19.6
Md 99-1353-2 RR	19.6	20.6	20.5	23.4	17.5	22.0	18.8	19.8
Md 00-5020	20.2	20.0	20.9	19.6	17.5	20.2	18.7	19.6
Md 00-5024	19.7	20.3	20.2	18.8	18.5	20.3	19.9	19.8
Md 00-5295	19.5	20.6	21.1	22.3	18.5	21.4	19.9	20.2
Md 00-5326	19.5	20.2	21.1	20.9	18.7	20.9	20.1	20.1
R96-1720F	19.1	19.8	20.7	19.3	17.9	19.5	19.2	19.4
R98-1523	18.6	20.8	18.9	24.7	16.6	20.8	17.3	18.8
R98-2390F	20.6	21.5	21.3	21.6	18.4	22.2	21.0	20.8
R99-2665F	19.6	19.8	20.3	24.0	18.4	20.6	18.6	19.6
R99-2821	18.4	18.2	19.2	22.7	16.1	19.9	17.5	18.2
S98-3940-43 RR	18.4	19.6	18.4	22.4	17.4	21.0	18.3	18.9
S98-3940-97 RR	18.7	19.4	19.3	21.3	17.4	20.9	18.7	19.1
S99-11509	18.0	19.8	19.8	19.9	17.9	19.8	18.8	19.0
S01-9825 RR	19.3	19.6	20.0	22.6	18.6	20.3	19.1	19.5
S02-677CR RR	19.2	20.0	19.3	22.2	18.5	20.9	19.4	19.6
S02-750CR RR	20.0	21.3	20.7	21.6	19.0	22.0	20.0	20.5
TN01-056	18.4	19.1	19.5	20.9	17.6	19.7	18.4	18.8
TN01-136	18.3	18.8	19.5	22.4	16.6	20.5	17.2	18.5
TN01-236	19.7	20.6	19.6	21.9	18.7	20.8	18.5	19.7
V99-0025	19.0	20.1	20.4	21.1	18.4	20.2	19.8	19.7
V99-0885	19.2	20.0	20.1	19.8	17.4	21.3	18.5	19.4
V99-7405	18.8	19.9	20.3	21.7	18.2	20.5	18.8	19.4

\*Data not included in mean

**TABLE 13 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2003**

STRAIN/ VARIETY	BIXBY OK	PORTAGEVILLE MO(A)	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
MANOKIN	39.5	40.4	39.3	45.1	42.4	41.0	41.9	40.8
KS4602N	43.0	42.0	41.1	43.2	42.2	44.3	42.7	42.6
DK4868 (RR)	42.5	40.4	38.6	28.0	39.9	41.6	42.3	40.9
5002T	41.8	40.2	40.6	42.8	41.6	40.4	42.8	41.2
DB99-17048	43.2	43.0	40.8	39.2	44.0	41.5	43.5	42.7
DB99-17145	40.0	40.2	39.9	41.2	42.6	40.2	41.2	40.7
DB99-17445	41.5	39.4	40.7	38.2	42.4	40.1	43.2	41.2
DB99-17531	40.2	38.8	39.5	38.5	42.8	41.0	42.2	40.8
K1603RR	43.6	41.7	39.5	34.1	41.2	43.6	42.8	42.1
K1604	38.8	40.1	38.4	34.8	40.8	41.1	42.1	40.2
K1605	40.4	39.6	39.4	38.0	40.7	40.6	42.3	40.5
K1606	44.3	41.8	39.7	41.5	41.0	42.4	43.3	42.1
K1607	41.3	42.2	37.2	34.0	42.7	42.6	44.2	41.7
LS00-0655	41.8	41.6	38.9	40.4	41.3	42.1	42.7	41.4
LS00-1755	41.3	41.4	40.3	37.2	43.5	41.8	44.2	42.1
LS00-1865	42.5	41.1	39.3	40.3	41.7	43.6	41.7	41.7
LS00-1874	41.7	41.4	38.9	39.3	42.1	42.8	41.5	41.4
LS00-1970	44.5	41.1	39.6	36.8	41.8	43.7	43.6	42.4
Md 99-1353-2 RR	39.6	39.6	38.3	38.4	43.5	42.5	42.8	41.1
Md 00-5020	39.3	39.1	38.2	40.6	40.3	41.7	42.6	40.2
Md 00-5024	39.1	38.7	38.4	41.9	40.9	41.8	41.0	40.0
Md 00-5295	41.3	40.0	38.9	37.0	40.7	44.1	41.2	41.0
Md 00-5326	42.2	40.8	38.9	40.7	42.8	43.5	42.9	41.9
R96-1720F	42.2	40.7	38.7	40.5	43.2	42.7	42.6	41.7
R98-1523	41.1	40.6	39.3	35.4	44.0	39.5	43.5	41.3
R98-2390F	40.2	39.6	38.3	38.1	42.3	39.1	41.5	40.2
R99-2665F	39.9	40.8	40.0	36.8	43.2	39.7	42.5	41.0
R99-2821	40.7	42.3	39.1	36.0	44.7	43.0	43.5	42.2
S98-3940-43 RR	42.3	41.8	40.4	34.3	42.6	41.7	42.6	41.9
S98-3940-97 RR	42.1	41.9	39.5	37.0	42.1	41.2	42.4	41.5
S99-11509	43.3	40.8	41.4	39.6	41.4	44.1	42.1	42.2
S01-9825 RR	39.0	43.3	37.9	34.4	39.9	42.0	39.5	40.3
S02-677CR RR	41.7	41.7	39.9	40.8	41.6	42.5	41.9	41.6
S02-750CR RR	40.9	39.8	37.8	39.5	40.9	41.6	41.0	40.3
TN01-056	43.4	42.0	40.6	37.5	43.7	41.8	40.9	42.1
TN01-136	40.4	40.6	39.0	34.4	42.8	40.9	41.7	40.9
TN01-236	42.2	42.0	40.0	43.1	43.3	42.6	42.2	42.1
V99-0025	44.8	42.0	40.0	41.2	43.1	43.8	42.2	42.7
V99-0885	42.2	41.0	40.7	43.4	41.9	44.2	43.4	42.2
V99-7405	41.0	41.2	38.5	34.7	42.6	41.0	41.5	41.0

\*Data not included in mean

**TABLE 14 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2003**

STRAIN/ VARIETY	JACKSON*	PINE TREE	PITTSBURG	PORTAGEVILLE	PRINCETON	QUEENSTOWN	ROHWER	STONEVILLE	ULLIN	WARSAW	MEAN
	TN	AR	KS	MO(A)	KY	MD	AR	MS	IL	VA	
MANOKIN	13.0	13.9	13.6	11.9	13.5	12.9	10.6	12.9	14.0	11.1	12.7
KS4602N	15.5	16.3	17.7	13.3	16.1	13.9	13.4	16.1	15.4	14.4	15.2
DK4868 (RR)	12.5	14.9	16.1	12.7	13.9	13.8	11.6	15.4	14.8	12.8	14.0
5002T	14.0	16.5	14.5	12.7	15.7	15.4	14.7	17.2	15.9	13.3	15.1
DB99-17048	15.0	15.2	14.8	11.6	16.1	14.6	12.9	14.1	16.4	12.6	14.2
DB99-17145	17.0	15.5	15.2	11.2	17.3	15.3	13.6	14.7	16.7	13.2	14.7
DB99-17445	13.0	13.9	13.6	10.6	14.3	13.1	13.1	13.3	14.4	11.6	13.1
DB99-17531	15.5	16.0	16.7	12.0	17.1	14.4	14.1	15.6	15.6	13.3	15.0
K1603RR	14.0	16.4	18.0	13.6	16.3	14.6	14.3	15.6	15.6	14.4	15.4
K1604	13.5	14.3	13.4	11.7	13.4	13.5	10.5	13.7	12.9	13.4	13.0
K1605	13.0	16.1	15.7	12.9	15.4	13.7	12.5	15.1	15.0	14.5	14.5
K1606	14.5	17.0	16.8	14.0	16.2	13.3	13.3	15.8	15.5	14.4	15.1
K1607	13.5	13.6	13.6	10.5	14.6	12.4	12.1	13.5	12.7	10.8	12.6
LS00-0655	15.5	17.9	17.6	15.1	17.5	16.4	16.5	18.0	17.5	14.1	16.7
LS00-1755	13.0	13.4	14.3	9.9	14.5	14.2	11.9	14.8	13.8	11.7	13.2
LS00-1865	17.5	18.4	17.4	15.7	19.2	17.2	19.1	19.2	17.3	16.2	17.7
LS00-1874	16.0	18.8	17.4	15.3	18.0	15.8	19.3	18.9	17.3	16.0	17.4
LS00-1970	13.5	15.0	14.6	13.9	16.4	14.8	13.0	15.9	14.1	14.0	14.6
Md 99-1353-2 RR	11.0	12.3	12.6	9.8	13.6	11.5	10.3	12.0	12.6	10.3	11.7
Md 00-5020	11.0	12.1	13.8	10.8	13.2	13.0	9.4	12.3	12.3	11.8	12.1
Md 00-5024	10.5	13.7	15.6	12.1	14.6	14.7	11.4	11.4	14.6	13.9	13.5
Md 00-5295	13.0	14.4	15.7	12.0	14.5	13.7	11.0	16.7	14.1	12.7	13.9
Md 00-5326	12.5	15.1	16.5	13.8	14.4	14.5	11.5	16.6	14.7	12.8	14.4
R96-1720F	13.5	15.8	16.7	13.3	16.6	16.6	11.7	15.7	15.5	13.8	15.1
R98-1523	11.0	13.5	12.8	12.9	13.5	13.5	10.4	11.4	14.6	10.7	12.6
R98-2390F	12.5	14.3	16.6	12.2	14.4	14.7	12.2	15.4	14.7	12.7	14.1
R99-2665F	12.5	14.4	13.9	12.7	14.3	15.7	12.4	14.9	15.4	12.4	14.0
R99-2821	11.0	13.8	14.5	11.4	14.9	13.4	11.1	13.4	13.6	11.4	13.0
S98-3940-43 RR	13.0	13.8	16.4	11.7	15.3	14.1	11.3	14.0	14.3	12.7	13.7
S98-3940-97 RR	13.0	14.4	16.9	11.9	16.0	13.8	10.8	13.3	14.8	12.7	13.8
S99-11509	12.5	15.8	14.5	13.3	18.0	14.8	13.7	18.0	14.5	14.6	15.2
S01-9825 RR	12.0	15.5	16.3	13.3	14.0	14.7	11.3	14.0	13.8	13.8	14.1
S02-677CR RR	15.0	16.2	18.1	13.4	17.4	15.1	13.7	16.3	15.4	15.1	15.6
S02-750CR RR	12.0	14.0	17.8	13.0	14.3	14.1	12.0	16.4	14.4	13.1	14.3
TN01-056	13.0	15.2	14.0	12.7	14.9	14.3	14.0	14.0	16.2	12.9	14.2
TN01-136	9.0	12.8	11.2	11.1	12.5	12.5	11.3	13.8	13.8	10.7	12.2
TN01-236	13.5	14.6	13.7	10.9	13.1	14.2	11.7	13.3	13.3	11.1	12.9
V99-0025	11.5	13.6	13.9	11.5	13.3	12.5	11.3	11.5	12.3	11.7	12.4
V99-0885	14.5	14.9	18.0	13.3	14.4	12.9	14.5	18.0	12.1	12.9	14.5
V99-7405	13.5	15.3	16.0	12.3	14.7	15.5	11.7	15.2	14.9	13.5	14.3

\*Data not included in mean

**TABLE 15 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2003**

STRAIN/ VARIETY	BIXBY OK	JACKSON* TN	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	ROHWER AR	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	25	32	32	26	32	38	12	26	29	22	35	30	29
KS4602N	27	31	34	21	37	33	19	27	33	24	35	30	30
DK4868 (RR)	25	34	31	24	39	33	17	28	36	30	38	33	31
5002T	22	29	28	27	27	32	12	23	22	20	31	26	25
DB99-17048	28	31	34	30	33	41	14	13	30	26	36	25	30
DB99-17145	22	.	32	26	23	27	19	15	22	18	29	24	24
DB99-17445	23	25	31	27	28	33	14	13	29	20	34	22	26
DB99-17531	24	27	34	26	34	37	17	19	33	20	38	31	30
K1603RR	26	34	35	23	39	33	21	26	41	28	34	35	32
K1604	20	17	20	22	23	29	12	18	15	10	24	26	21
K1605	28	31	30	24	38	33	21	28	31	24	34	30	30
K1606	26	35	36	25	34	35	24	27	30	28	37	29	30
K1607	23	23	26	25	25	33	10	24	26	18	32	25	26
LS00-0655	27	30	34	19	42	32	20	27	35	30	36	34	31
LS00-1755	23	30	28	25	31	37	16	18	25	20	33	26	26
LS00-1865	24	30	25	31	34	41	14	21	24	20	39	29	29
LS00-1874	24	28	33	31	31	39	15	23	25	22	38	33	30
LS00-1970	31	37	36	28	43	38	21	30	35	28	36	38	34
Md 99-1353-2 RR	23	30	29	24	31	33	17	18	25	20	34	27	26
Md 00-5020	25	27	29	26	29	34	13	19	26	12	32	26	26
Md 00-5024	29	38	37	24	47	38	36	29	42	40	42	35	36
Md 00-5295	31	34	35	26	43	38	24	29	39	28	41	37	35
Md 00-5326	30	36	38	25	46	37	27	29	39	24	38	35	34
R96-1720F	31	29	36	24	42	36	23	34	37	30	39	35	34
R98-1523	30	33	27	28	35	38	15	16	30	18	35	31	29
R98-2390F	26	35	32	23	45	34	29	31	37	42	37	30	34
R99-2665F	23	34	35	27	35	38	15	23	34	22	33	28	30
R99-2821	23	36	35	26	36	37	20	24	32	28	40	36	32
S98-3940-43 RR	32	35	34	29	45	38	28	30	39	26	39	33	34
S98-3940-97 RR	32	38	38	28	42	40	26	29	38	28	39	35	35
S99-11509	31	38	34	25	41	36	24	28	39	30	40	37	34
S01-9825 RR	32	39	34	27	47	36	25	30	37	30	42	36	35
S02-677CR RR	36	38	31	28	43	41	26	35	35	30	39	36	35
S02-750CR RR	33	36	32	26	42	35	26	31	34	30	36	35	33
TN01-056	23	25	25	24	28	33	13	25	24	16	32	25	25
TN01-136	22	27	26	25	31	33	13	19	24	16	31	25	25
TN01-236	19	25	29	21	33	35	13	12	25	24	33	20	25
V99-0025	29	38	36	25	45	34	31	29	43	36	38	31	35
V99-0885	14	19	19	21	19	26	8	15	14	8	23	20	18
V99-7405	29	37	34	26	42	34	25	28	36	30	39	35	33

\*Data not included in mean

**TABLE 16 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2003**

STRAIN/ VARIETY	JACKSON*	PINE TREE	PITTSBURG	PORTAGEVILLE	PRINCETON	QUEENSTOWN	ROHWER	STONEVILLE	ULLIN	WARSAW	MEAN
	TN	AR	KS	MO(A)	KY	MD	AR	MS	IL	VA	
MANOKIN	1.5	2.3	2.0	2.5	2.0	3.5	1.0	2.0	2.0	2.2	2.2
KS4602N	1.0	2.5	1.0	1.5	1.0	3.0	1.0	2.0	1.0	1.5	1.6
DK4868 (RR)	1.0	2.0	1.0	1.5	1.0	2.8	1.0	2.0	1.0	1.9	1.6
5002T	1.5	1.5	1.0	2.0	1.8	2.8	1.0	2.0	2.0	2.5	1.8
DB99-17048	1.0	3.5	1.0	2.0	2.3	2.0	1.0	2.0	3.0	1.7	2.1
DB99-17145	.	1.5	1.0	2.5	2.0	2.5	1.0	2.0	4.0	2.4	2.1
DB99-17445	1.0	1.5	1.5	2.0	2.0	1.5	1.0	2.0	2.5	2.0	1.8
DB99-17531	1.0	2.5	1.0	2.0	2.3	2.0	1.0	2.0	1.0	2.0	1.8
K1603RR	1.0	1.5	1.0	2.5	1.5	2.8	1.0	2.0	1.0	2.4	1.7
K1604	1.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	1.0	1.4	1.3
K1605	1.5	1.0	1.0	2.0	1.5	3.0	1.0	2.0	1.0	2.1	1.6
K1606	1.5	1.0	1.0	2.0	1.8	3.0	1.0	2.0	1.0	1.9	1.6
K1607	1.0	1.3	1.0	1.0	2.0	3.5	1.0	2.0	1.5	1.9	1.7
LS00-0655	1.0	2.8	1.0	2.5	1.5	4.0	1.0	2.0	2.0	3.2	2.2
LS00-1755	1.5	1.3	1.0	1.5	1.8	1.5	1.0	2.0	2.0	1.7	1.5
LS00-1865	1.0	1.0	1.0	1.0	1.8	2.3	1.0	2.0	1.0	2.2	1.5
LS00-1874	1.0	1.0	1.0	1.0	1.5	3.0	1.0	2.0	1.0	2.4	1.5
LS00-1970	1.5	1.0	1.0	2.0	1.5	3.0	1.0	2.0	1.0	2.2	1.6
Md 99-1353-2 RR	1.5	1.0	1.0	2.0	1.5	2.3	1.0	2.0	2.5	1.9	1.7
Md 00-5020	1.0	1.0	1.0	1.0	1.5	2.5	1.0	2.0	2.0	2.1	1.6
Md 00-5024	1.0	3.8	1.0	2.5	1.0	3.3	1.0	2.0	1.5	3.3	2.1
Md 00-5295	1.5	1.8	1.0	2.5	1.0	2.3	1.0	2.0	1.0	2.0	1.6
Md 00-5326	1.5	1.5	1.0	2.0	1.0	2.3	1.0	2.0	1.0	2.0	1.5
R96-1720F	1.5	1.0	1.0	2.5	1.5	2.5	1.0	2.0	1.0	2.3	1.6
R98-1523	2.0	1.3	1.0	2.0	2.3	2.0	1.0	2.0	3.0	1.9	1.8
R98-2390F	1.5	3.8	1.0	2.5	1.3	3.5	1.0	2.0	1.5	2.9	2.2
R99-2665F	2.0	3.8	1.0	2.0	1.5	3.0	1.0	2.0	3.0	3.3	2.3
R99-2821	2.5	5.0	1.0	3.0	2.3	3.8	1.0	2.0	4.0	2.3	2.7
S98-3940-43 RR	1.5	1.5	1.0	2.5	1.5	2.5	1.0	2.0	1.5	2.1	1.7
S98-3940-97 RR	2.0	1.5	1.0	2.5	1.5	3.0	1.0	2.0	1.0	1.9	1.7
S99-11509	2.0	2.5	1.0	2.5	1.5	4.0	1.0	2.0	3.0	3.7	2.4
S01-9825 RR	3.0	3.8	1.0	3.0	2.0	3.8	1.0	2.0	3.0	3.1	2.5
S02-677CR RR	1.0	3.3	1.0	2.5	1.5	3.8	1.0	2.0	1.5	2.0	2.1
S02-750CR RR	1.0	2.5	1.0	2.5	1.8	3.3	1.0	2.0	2.0	2.8	2.1
TN01-056	1.5	1.5	1.0	2.0	1.8	4.0	1.0	2.0	2.0	2.1	1.9
TN01-136	1.0	2.5	1.0	2.0	2.5	2.0	1.0	2.0	4.0	2.0	2.1
TN01-236	1.0	1.5	1.0	1.5	2.3	1.3	1.0	2.0	1.5	1.4	1.5
V99-0025	1.0	1.0	1.0	2.0	1.0	3.3	1.0	2.0	1.0	2.1	1.6
V99-0885	1.0	1.0	1.0	1.0	1.0	1.3	1.0	2.0	1.0	1.2	1.2
V99-7405	1.0	1.0	1.0	2.0	1.3	3.3	1.0	2.0	1.0	2.1	1.6

\*Data not included in mean

**TABLE 17 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2003**

STRAIN/ VARIETY	JACKSON*	PINE TREE	PITTSBURG	PORTAGEVILLE	PRINCETON	QUEENSTOWN	ROHWER	STONEVILLE	ULLIN	WARSAW	MEAN
	TN	AR	KS	MO(A)	KY	MD	AR	MS	IL	VA	
MANOKIN	3.8	1.3	2.0	3.0	1.0	1.0	2.0	2.0	1.0	1.1	1.6
KS4602N	4.3	1.0	2.0	3.0	1.0	1.0	2.5	2.0	1.0	1.2	1.6
DK4868 (RR)	4.3	1.5	3.0	3.0	1.0	1.0	3.5	2.0	1.0	1.5	1.9
5002T	3.8	1.0	2.0	3.0	1.0	1.0	1.0	2.0	1.0	1.2	1.5
DB99-17048	3.0	1.0	2.0	2.0	1.0	1.0	1.5	2.0	1.0	1.2	1.4
DB99-17145	4.0	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	1.4	1.5
DB99-17445	3.0	0.8	2.0	3.0	1.0	1.0	1.5	2.0	1.0	1.7	1.5
DB99-17531	5.0	0.8	2.0	3.0	1.0	1.0	2.5	2.0	1.0	1.5	1.6
K1603RR	4.3	1.0	3.0	2.0	1.0	1.0	2.5	2.0	1.0	1.5	1.7
K1604	3.8	0.8	2.0	2.0	1.0	1.0	2.5	2.0	1.0	1.5	1.5
K1605	3.5	1.0	2.0	3.0	1.0	1.0	2.5	2.0	1.0	1.9	1.7
K1606	4.3	1.0	3.0	2.0	1.0	1.0	2.5	2.0	1.0	2.3	1.8
K1607	3.5	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	1.5	1.5
LS00-0655	3.5	1.3	2.0	3.0	1.0	1.0	3.0	2.0	1.0	1.4	1.7
LS00-1755	3.3	1.0	2.0	3.0	1.0	1.0	2.0	2.0	1.0	1.2	1.6
LS00-1865	4.5	1.8	2.0	2.0	1.0	1.0	3.5	2.0	1.0	1.9	1.8
LS00-1874	4.5	1.8	3.0	2.0	1.0	1.0	3.0	2.0	1.0	1.4	1.8
LS00-1970	3.5	1.3	2.0	3.0	1.0	1.0	2.0	2.0	1.0	1.5	1.6
Md 99-1353-2 RR	3.0	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	1.4	1.5
Md 00-5020	3.8	1.5	2.0	2.0	1.0	1.0	2.5	2.0	1.0	1.1	1.6
Md 00-5024	4.0	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	1.2	1.5
Md 00-5295	3.5	2.0	2.0	3.0	1.0	1.0	3.0	2.0	1.0	1.5	1.8
Md 00-5326	4.0	1.5	2.0	3.0	1.0	1.0	2.5	2.0	1.0	1.4	1.7
R96-1720F	2.5	1.0	2.0	3.0	1.0	1.0	2.0	2.0	1.0	1.2	1.6
R98-1523	3.5	1.0	2.0	2.0	1.0	1.0	2.5	2.0	1.0	1.2	1.5
R98-2390F	2.8	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	1.4	1.5
R99-2665F	3.8	1.0	2.0	2.0	1.0	1.0	1.5	2.0	1.0	1.2	1.4
R99-2821	3.3	1.0	2.0	3.0	1.0	1.0	2.0	2.0	1.0	1.5	1.6
S98-3940-43 RR	3.8	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	1.2	1.5
S98-3940-97 RR	3.8	1.0	2.0	2.0	1.0	1.0	2.5	2.0	1.0	1.4	1.5
S99-11509	3.5	1.0	3.0	2.0	1.0	1.0	2.5	2.0	1.0	1.4	1.7
S01-9825 RR	3.5	1.0	2.0	3.0	1.0	1.0	3.0	2.0	1.0	1.2	1.7
S02-677CR RR	3.3	1.3	3.0	2.0	1.0	1.0	3.5	2.0	1.0	1.4	1.8
S02-750CR RR	4.0	1.0	3.0	2.0	1.0	1.0	1.5	2.0	1.0	1.4	1.5
TN01-056	3.3	1.0	2.0	3.0	1.0	1.0	2.0	2.0	1.0	1.4	1.6
TN01-136	2.5	1.3	2.0	3.0	1.0	1.0	2.0	2.0	1.0	1.2	1.6
TN01-236	2.5	1.3	2.0	2.0	1.0	1.0	2.5	2.0	1.0	1.2	1.6
V99-0025	2.8	1.0	3.0	2.0	1.0	1.0	3.5	2.0	1.0	1.3	1.8
V99-0885	3.5	1.0	2.0	2.0	1.0	1.0	2.5	2.0	1.0	1.1	1.5
V99-7405	3.8	1.8	3.0	3.0	1.0	1.0	3.5	2.0	1.0	2.1	2.0

\*Data not included in mean

## **UNIFORM GROUP V**

**2003**

**Uniform Group V nurseries were planted at 21 locations. Data were obtained from 17 of these locations. The parentage for each strain is reported in Table 18. Table 19 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 20 - 25.**

**TABLE 18 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2003**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 × D74-7824	
2. 5601T	Hutcheson × TN89-39	
3. 5002T	N85-578 × Manokin	
4. P 9594	Commercial Check	
5. AG 5603 (RR)	Commercial Check RR	
6. DT99-13005	UARK5798 × HYP 574	F6
7. DT99-16864	S59-60 × Bolivar	F6
8. DT99-17483	UARK5798 × Bolivar	F6
9. K1530	KS5292 × SC91-2007	
10. K1550RR	K1276///K1276//Resnik2/40-3-2	P5
11. Md 97-6065	Manokin × Holladay	
12. Md 99-0687-3RR	Wicomico × (Manokin × Monsanto RR)	
13. Md 99-6226	V91-2935 × MD92-5769	
14. N98-7265	Hutcheson × PI 471938	F4
15. N99-8141	N7001 × Graham	F4
16. R97-1634	P9592 × Holladay	
17. R97-1650	P9592 × Holladay	
18. R98-1647	KY88-4080 × Hartz 5545	
19. R98-1821	HARTZ 5545 × KS4895	
20. R99-2070	N90-516 × Hartz 4994	
21. S99-1171	Delsoy 5500 × Anand	
22. S99-2447-02RR	Delsoy 5500(4) × RR	
23. S00-9985-03	Hy 574 × Anand	
24. TN98-170	TN88-63 × TN 5-92	
25. TN99-184	K1309 × V90-1012	
26. TN01-360-RR	TN93-99RR BC3	
27. V96-0340	Hutcheson × Clifford	
28. V98-2711	V88-466 × 9461	



**TABLE 19 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2003**

STRAIN/ VARIETY	RANK	AVERAGE RANK	YIELD*			PROTEIN			OIL		
			2003	02-03	01-03	2003	02-03	01-03	2003	02-03	01-03
MANOKIN	18	16	46.5	41.8	42.0	40.6	40.6	40.1	19.1	20.3	20.6
5601T	5	9	50.2	46.5	.	42.1	41.7	.	18.8	19.1	.
5002T	9	11	49.2	.	.	41.0	.	.	19.2	.	.
P 9594	6	10	49.8	45.7	.	40.7	40.7	.	18.7	19.2	.
AG 5603 (RR)	22	16	45.6	.	.	41.1	.	.	19.5	.	.
DT99-13005	23	18	45.2	.	.	40.1	.	.	18.5	.	.
DT99-16864	21	16	45.6	.	.	41.8	.	.	18.3	.	.
DT99-17483	28	22	41.6	.	.	40.9	.	.	19.0	.	.
K1530	13	13	48.1	44.5	.	40.7	41.2	.	19.7	20.3	.
K1550RR	26	19	43.4	.	.	39.7	.	.	20.2	.	.
Md 97-6065	7	11	49.4	44.9	47.6	39.5	39.7	39.5	18.9	19.8	20.2
Md 99-0687-3RR	19	17	45.9	.	.	41.3	.	.	18.9	.	.
Md 99-6226	1	8	51.7	.	.	40.2	.	.	19.3	.	.
N98-7265	20	17	45.6	42.2	43.1	40.6	40.2	40.1	19.7	20.0	20.4
N99-8141	17	16	46.6	.	.	41.0	.	.	18.8	.	.
R97-1634	2	10	50.7	47.1	.	40.6	40.7	.	19.4	19.5	.
R97-1650	14	15	47.6	.	.	41.5	.	.	19.2	.	.
R98-1647	10	14	49.1	.	.	41.1	.	.	19.5	.	.
R98-1821	4	11	50.3	.	.	43.5	.	.	18.4	.	.
R99-2070	11	14	48.9	.	.	39.9	.	.	18.7	.	.
S99-1171	3	10	50.4	46.5	.	41.1	41.1	.	19.0	19.5	.
S99-2447-02RR	15	15	47.1	.	.	41.6	.	.	18.8	.	.
S00-9985-03	8	11	49.3	.	.	38.9	.	.	19.3	.	.
TN98-170	25	21	43.4	.	.	40.6	.	.	19.0	.	.
TN99-184	24	17	44.4	.	.	40.7	.	.	18.7	.	.
TN01-360-RR	27	19	43.4	.	.	41.6	.	.	19.4	.	.
V96-0340	16	16	46.8	44.2	46.4	40.3	40.9	40.6	19.2	19.6	20.2
V98-2711	12	12	48.2	.	.	40.6	.	.	19.1	.	.

\*Data not included in mean: 2003 - Bossier City, LA; Prosper, TX; Rohwer, AR; Starkville, MS  
2002 - Orange, VA; Prosper, TX  
2001 - Orange, VA; Prosper, TX

TABLE 19 ~ Continued

BOTANICAL TRAITS								
STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL COLOR	PUB. COLOR	POD COLOR
MANOKIN	10/04	2.5	30	1.7	12.5	W	T	T
5601T	6+	2.0	32	1.6	13.1	W	G	T
5002T	1+	2.2	26	1.7	14.1	W	T	T
P 9594	10+	2.4	34	1.5	15.5	W	G	T
AG 5603 (RR)	7+	1.6	30	1.4	13.2	P	G	T
DT99-13005	3+	2.1	28	1.6	14.7	S	T	T
DT99-16864	9+	2.1	28	1.7	13.9	P	G	T
DT99-17483	7+	2.8	31	1.5	13.9	W	T	T
K1530	1+	2.0	30	1.5	12.2	W	G	T
K1550RR	2+	1.5	26	1.7	13.0	P	T	T
Md 97-6065	3+	2.2	29	1.6	13.3	P	G	T
Md 99-0687-3RR	1+	1.8	30	1.7	14.0	P	T	T
Md 99-6226	3+	1.9	27	1.6	14.6	P	G	T
N98-7265	10+	2.2	33	1.6	14.0	W	G	
N99-8141	5+	2.9	30	1.7	13.7	P	G	
R97-1634	10+	2.2	32	1.5	15.2	S	G	
R97-1650	7+	2.5	33	1.7	15.2	S	G	
R98-1647	4+	2.0	31	1.5	13.5	W	G	
R98-1821	6+	1.7	27	1.4	12.2	P	G	
R99-2070	7+	2.3	34	1.7	13.5	W	T	
S99-1171	11+	1.9	31	1.5	15.1	W	T	T
S99-2447-02RR	8+	2.2	30	1.5	14.9	W	T	T
S00-9985-03	5+	2.8	33	1.7	15.1	P	T	T
TN98-170	1+	2.2	26	1.8	12.2	W	T	
TN99-184	1+	1.6	23	1.7	13.8	P	G	
TN01-360-RR	11+	1.9	30	1.6	13.4	W	G	
V96-0340	3+	2.0	30	1.6	15.4	P	G	Br
V98-2711	4+	2.3	28	1.6	13.4	W	T	

TABLE 19 ~ Continued

STRAIN/ VARIETY	PEST REACTIONS										
	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER	SDS DX	SDS DI	SDS DS	FLS
MANOKIN	5.0	1.0	5.0	3.8	1.5	S	R	1	10	0	1
5601T	5.0	5.0	5.0	4.8	1.3	R	R	8	70	1	0
5002T	5.0	5.0	5.0	2.8	5.0	S	R	3	30	1	0
P 9594	5.0	5.0	5.0	5.0	1.8	R	S	14	95	1	1
AG 5603 (RR)	5.0	1.0	5.0	5.0	5.0	R	R	7	63	1	1
DT99-13005	5.0	5.0	5.0	4.3	1.0	S	R	4	35	1	1
DT99-16864	5.0	1.0	5.0	5.0	5.0	R	R	6	37	1	1
DT99-17483	5.0	5.0	5.0	4.8	1.3	R	R	4	32	1	1
K1530	5.0	1.0	5.0	5.0	1.0	R	R	0	2	0	1
K1550RR	5.0	5.0	5.0	5.0	5.0	S	R	20	**	2	2
Md 97-6065	5.0	2.0	5.0	3.3	1.8	S	R	1	5	1	0
Md 99-0687-3RR	5.0	5.0	5.0	4.3	5.0	S	R	3	17	1	1
Md 99-6226	5.0	5.0	5.0	5.0	5.0	R	R	11	83	1	1
N98-7265	5.0	5.0	5.0	4.5	5.0	R	R	16	73	2	1
N99-8141	5.0	5.0	5.0	4.8	3.5	R	R	8	57	1	1
R97-1634	5.0	5.0	5.0	3.8	1.8	S	MS	1	10	1	0
R97-1650	5.0	5.0	5.0	5.0	5.0	R	R	3	27	1	1
R98-1647	5.0	4.0	5.0	5.0	4.5	R	R	9	57	2	1
R98-1821	5.0	5.0	5.0	3.3	5.0	S	R	8	58	1	1
R99-2070	5.0	4.0	5.0	2.8	5.0	S	R	14	60	2	1
S99-1171	4.0	2.0	4.0	3.0	5.0	S	R	1	13	1	0
S99-2447-02RR	5.0	1.0	5.0	4.3	5.0	R	R	6	53	1	0
S00-9985-03	4.0	1.0	4.0	5.0	1.0	R	R	1	12	1	1
TN98-170	4.0	1.0	5.0	5.0	1.5	S	R	1	8	1	2
TN99-184	5.0	4.0	5.0	5.0	4.8	R	R	5	42	1	0
TN01-360-RR	5.0	1.0	5.0	5.0	5.0	R	R	4	40	1	1
V96-0340	5.0	5.0	5.0	5.0	5.0	R	R	9	63	1	2
V98-2711	5.0	5.0	5.0	3.5	5.0	S	R	9	62	1	1

**TABLE 20 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY  
GROWN IN UNIFORM GROUP V, 2003**

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
MANOKIN	39.0	38.3	57.2	44.8
5601T	49.0	45.2	65.9	53.4
5002T	43.2	41.6	68.5	51.1
P 9594	44.4	40.1	62.2	48.9
AG 5603 (RR)	42.2	40.3	59.7	47.4
DT99-13005	42.2	34.7	55.1	44.0
DT99-16864	38.1	36.8	59.8	44.9
DT99-17483	35.7	31.6	57.6	41.6
K1530	48.4	40.2	63.1	50.6
K1550RR	37.5	44.3	61.6	47.8
Md 97-6065	41.0	46.1	64.1	50.4
Md 99-0687-3RR	37.3	39.9	54.3	43.8
Md 99-6226	48.8	43.4	65.1	52.4
N98-7265	47.1	31.6	56.2	45.0
N99-8141	40.3	41.0	54.9	45.4
R97-1634	44.3	39.5	62.3	48.7
R97-1650	42.6	38.3	55.9	45.6
R98-1647	44.7	27.5	54.3	42.2
R98-1821	47.3	39.3	60.8	49.1
R99-2070	51.9	36.6	61.2	49.9
S99-1171	44.8	45.1	60.0	50.0
S99-2447-02RR	44.5	33.3	56.2	44.7
S00-9985-03	43.4	37.4	59.3	46.7
TN98-170	38.5	34.2	57.2	43.3
TN99-184	48.4	37.3	59.9	48.5
TN01-360-RR	33.4	36.8	55.6	41.9
V96-0340	44.3	37.8	60.4	47.5
V98-2711	44.9	47.2	65.9	52.6
L. S. D. (0.05)	8.3	5.6	3.9	.
C. V. (%)	11.7	8.9	4.0	.

TABLE 20 ~ Continued

## SOUTH

STRAIN/ VARIETY	BELLE MINA	KNOXVILLE	ORANGE	PRINCETON	SPRINGFIELD	STARKVILLE*	SUFFOLK	ULLIN	MEAN
	AL	TN	VA	KY	TN	MS	VA	IL	
MANOKIN	27.8	55.8	39.1	55.7	66.7	35.7	48.6	47.5	48.7
5601T	35.4	52.4	49.0	63.4	54.2	21.6	49.4	54.7	51.2
5002T	32.7	55.9	43.1	60.4	71.1	21.5	48.2	49.9	51.6
P 9594	35.4	48.3	34.4	62.9	62.1	40.3	55.9	47.0	49.4
AG 5603 (RR)	33.3	33.0	47.5	63.8	57.7	15.4	64.7	38.7	48.4
DT99-13005	30.0	52.6	33.1	50.5	60.7	21.0	45.3	45.8	45.4
DT99-16864	37.5	49.4	36.3	43.1	68.5	26.2	44.6	56.2	47.9
DT99-17483	34.2	44.1	27.7	56.1	58.4	12.5	41.1	45.0	43.8
K1530	33.0	51.2	49.6	59.5	67.2	26.2	54.4	48.9	52.0
K1550RR	24.5	47.3	49.5	50.0	60.7	20.9	48.7	33.4	44.9
Md 97-6065	24.8	53.5	43.3	57.3	74.9	45.4	46.6	43.1	49.1
Md 99-0687-3RR	23.9	45.7	45.7	54.4	68.6	28.5	56.1	44.6	48.4
Md 99-6226	36.3	59.3	52.3	65.3	65.3	29.6	57.3	50.6	55.2
N98-7265	40.3	43.1	42.6	58.9	58.8	30.2	44.9	54.2	49.0
N99-8141	26.0	48.3	41.2	55.1	58.6	35.5	50.4	44.1	46.2
R97-1634	35.7	45.5	40.3	57.8	65.6	40.7	50.8	51.3	49.6
R97-1650	39.6	46.3	43.3	57.3	58.9	36.9	46.6	44.1	48.0
R98-1647	36.3	44.9	45.5	60.3	73.4	41.4	45.4	61.3	52.4
R98-1821	34.5	47.8	44.3	57.1	62.7	45.4	52.9	46.2	49.4
R99-2070	35.7	44.6	39.6	56.4	66.5	36.3	57.5	44.3	49.2
S99-1171	34.5	46.6	45.8	62.6	62.7	50.9	55.4	53.3	51.6
S99-2447-02RR	36.0	41.7	41.1	55.9	48.4	41.0	51.3	48.9	46.2
S00-9985-03	23.9	60.6	42.3	63.3	60.2	47.4	53.0	62.9	52.3
TN98-170	29.4	50.5	37.1	53.5	68.1	12.1	43.9	51.1	47.6
TN99-184	35.7	46.7	42.0	54.6	63.7	8.6	54.1	44.8	48.8
TN01-360-RR	34.8	46.8	41.9	51.4	55.0	30.4	47.6	49.4	46.7
V96-0340	32.1	46.4	47.4	59.5	66.5	35.7	44.9	62.7	51.4
V98-2711	22.7	56.8	54.1	62.9	61.3	34.3	56.7	46.7	51.6
L. S. D. (0.05)	8.2	10.2	8.2	8.0	14.0	10.1	14.4	13.3	.
C. V. (%)	15.5	12.2	11.6	8.5	13.6	19.8	17.4	16.6	.

\*Data not included in mean

TABLE 20 ~ Continued

STRAIN/ VARIETY	DELTA					
	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	ROHWER* AR	STONEVILLE MS	MEAN
MANOKIN	40.8	47.6	50.7	45.1	67.1	51.6
5601T	47.9	52.6	55.8	46.3	66.0	55.5
5002T	56.4	57.3	61.2	41.3	44.4	54.8
P 9594	50.8	52.5	60.2	45.2	71.0	58.6
AG 5603 (RR)	52.5	45.1	43.2	33.7	46.9	47.0
DT99-13005	56.6	50.9	42.5	23.9	69.8	54.9
DT99-16864	52.7	48.0	47.5	23.0	48.6	49.2
DT99-17483	47.8	47.7	52.4	35.4	36.4	46.1
K1530	46.5	51.8	49.2	52.5	55.0	50.6
K1550RR	44.8	47.0	35.1	37.4	52.0	44.7
Md 97-6065	51.6	54.4	61.3	55.9	62.4	57.4
Md 99-0687-3RR	43.6	52.7	47.7	33.3	61.4	51.4
Md 99-6226	59.8	54.1	64.2	59.5	62.1	60.1
N98-7265	47.4	40.3	46.9	48.4	59.4	48.5
N99-8141	54.9	54.6	58.9	48.4	59.1	56.8
R97-1634	55.4	51.2	67.8	55.2	71.9	61.6
R97-1650	44.8	48.9	64.4	39.5	62.9	55.3
R98-1647	46.4	51.2	53.7	59.5	87.9	59.8
R98-1821	55.9	51.9	62.9	44.7	84.6	63.8
R99-2070	56.4	44.1	64.6	47.6	71.5	59.1
S99-1171	53.2	51.0	57.8	34.1	64.2	56.5
S99-2447-02RR	47.5	49.1	57.4	48.4	79.5	58.4
S00-9985-03	52.2	55.5	51.7	41.1	47.7	51.8
TN98-170	44.1	48.2	46.0	37.3	39.7	44.5
TN99-184	53.6	52.2	42.3	42.5	25.2	43.3
TN01-360-RR	47.8	48.5	51.3	32.8	31.0	44.7
V96-0340	46.3	45.2	55.9	40.6	44.1	47.9
V98-2711	45.8	51.1	56.2	44.9	43.0	49.0
L. S. D. (0.05)	10.4	5.3	6.6	19.3	16.7	.
C. V. (%)	12.6	6.4	7.4	26.4	17.5	.

\*Data not included in mean

TABLE 20 ~ Continued

STRAIN/ VARIETY	WEST					MEAN
	BIXBY OK	BOSSIER LA	CITY* KS	MCCUNE KS	PITTSBURG KS	
MANOKIN	43.6	44.0	30.6	33.9	13.0	36.0
5601T	46.8	34.4	31.1	34.1	11.0	37.3
5002T	40.3	35.4	27.5	34.4	11.1	34.0
P 9594	46.9	47.0	34.9	37.3	19.3	39.7
AG 5603 (RR)	46.9	30.4	29.9	29.4	6.9	35.4
DT99-13005	41.9	15.5	23.0	34.3	11.9	33.0
DT99-16864	46.5	25.5	28.8	33.2	15.3	36.2
DT99-17483	33.5	31.3	28.7	29.8	12.2	30.6
K1530	41.2	37.8	27.0	31.5	10.9	33.2
K1550RR	44.2	31.1	26.7	30.6	15.9	33.8
Md 97-6065	47.8	27.8	28.4	38.5	16.0	38.2
Md 99-0687-3RR	43.9	42.9	28.9	32.3	14.5	35.0
Md 99-6226	38.2	35.4	29.5	26.7	12.9	31.5
N98-7265	42.5	52.5	27.9	33.4	19.9	34.6
N99-8141	42.3	34.4	29.5	33.4	15.3	35.1
R97-1634	49.3	47.7	34.8	38.7	12.8	40.9
R97-1650	42.6	40.6	35.6	36.9	25.7	38.3
R98-1647	42.3	33.2	26.9	32.8	11.6	34.0
R98-1821	44.9	42.2	27.9	34.0	12.2	35.6
R99-2070	41.6	37.2	25.2	33.9	16.1	33.6
S99-1171	50.5	40.6	27.3	41.7	14.7	39.8
S99-2447-02RR	47.2	39.1	29.3	34.1	15.2	36.9
S00-9985-03	50.9	39.6	30.3	43.2	11.0	41.5
TN98-170	38.7	33.5	26.3	32.1	11.1	32.3
TN99-184	38.8	23.3	26.8	28.1	8.0	31.2
TN01-360-RR	46.0	28.1	29.4	30.3	10.9	35.2
V96-0340	40.1	30.8	31.4	30.1	14.1	33.9
V98-2711	45.9	31.8	30.0	27.8	16.3	34.6
L. S. D. (0.05)	7.4	11.0	3.2	3.7	7.6	.
C. V. (%)	10.4	19.0	6.8	6.7	33.6	.

\*Data not included in mean

TABLE 21 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2003

## OIL PERCENTAGES

STRAIN/ VARIETY	KNOX-			PITTS-			PORTAGE-	PORTAGE-	PRINCE-	QUEENS-		STONE-	SUFFOLK	ULLIN	WARSAW	MEAN	
	BIXBY OK	VILLE TN	MCCUNE KS	ORANGE VA	BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	TON KY	PROSPER* TX	TOWN MD	ROHWER* AR	VILLE MS	VA	IL		VA
MANOKIN	19.2	.	.	16.3	.	19.6	20.0	.	20.0	22.0	17.4	.	21.6	.	.	18.7	19.1
5601T	18.1	.	.	17.6	.	19.5	18.6	.	20.0	20.8	17.1	.	20.2	.	.	18.9	18.8
5002T	18.6	.	.	16.7	.	20.4	20.6	.	19.6	25.1	17.6	.	20.5	.	.	19.6	19.2
P 9594	18.9	.	.	17.0	.	19.6	18.8	.	19.0	21.0	17.3	.	20.6	.	.	18.5	18.7
AG 5603 (RR)	18.9	.	.	18.6	.	20.2	20.6	.	19.8	19.1	17.9	.	20.5	.	.	19.3	19.5
DT99-13005	18.8	.	.	16.8	.	19.4	18.4	.	19.5	20.3	17.2	.	19.4	.	.	18.7	18.5
DT99-16864	18.6	.	.	16.1	.	18.6	19.5	.	18.4	21.2	16.4	.	21.0	.	.	17.9	18.3
DT99-17483	19.3	.	.	17.2	.	19.0	20.0	.	19.9	22.2	16.3	.	21.3	.	.	19.0	19.0
K1530	19.9	.	.	18.0	.	20.5	21.4	.	20.1	22.4	18.5	.	19.6	.	.	19.5	19.7
K1550RR	19.8	.	.	19.0	.	20.7	19.9	.	21.3	23.1	18.1	.	22.7	.	.	20.1	20.2
Md 97-6065	18.8	.	.	16.4	.	19.7	19.5	.	19.8	23.4	17.3	.	20.9	.	.	18.7	18.9
Md 99-0687-3RR	18.5	.	.	16.7	.	19.4	20.0	.	20.3	20.0	17.7	.	20.3	.	.	18.4	18.9
Md 99-6226	19.2	.	.	17.8	.	19.9	20.2	.	19.5	20.8	18.3	.	20.4	.	.	19.1	19.3
N98-7265	19.9	.	.	18.1	.	20.4	19.5	.	20.4	22.6	17.9	.	22.0	.	.	19.7	19.7
N99-8141	19.2	.	.	16.9	.	19.1	19.5	.	19.9	21.8	17.4	.	19.6	.	.	18.5	18.8
R97-1634	18.8	.	.	17.4	.	20.1	19.2	.	19.9	22.6	17.2	.	23.6	.	.	18.7	19.4
R97-1650	19.0	.	.	17.0	.	20.3	19.1	.	19.8	22.5	17.5	.	21.4	.	.	19.4	19.2
R98-1647	19.3	.	.	18.0	.	20.2	20.6	.	19.6	21.4	17.7	.	21.5	.	.	18.9	19.5
R98-1821	18.4	.	.	16.8	.	19.1	18.7	.	19.5	21.5	16.4	.	19.8	.	.	18.3	18.4
R99-2070	18.5	.	.	17.0	.	19.4	19.7	.	19.3	23.0	16.6	.	20.6	.	.	18.8	18.7
S99-1171	19.1	.	.	17.7	.	19.5	19.5	.	19.3	23.2	17.1	.	20.8	.	.	18.9	19.0
S99-2447-02RR	19.2	.	.	17.2	.	19.1	19.3	.	19.4	20.9	17.2	.	19.8	.	.	19.0	18.8
S00-9985-03	19.0	.	.	17.6	.	19.3	20.0	.	20.4	22.4	17.1	.	21.0	.	.	20.2	19.3
TN98-170	19.3	.	.	16.0	.	20.1	19.8	.	20.5	20.4	17.5	.	21.2	.	.	17.7	19.0
TN99-184	18.9	.	.	16.1	.	19.9	20.0	.	19.3	18.5	17.4	.	19.5	.	.	18.1	18.7
TN01-360-RR	19.9	.	.	18.2	.	19.4	19.8	.	20.6	19.9	17.4	.	20.9	.	.	19.1	19.4
V96-0340	19.2	.	.	16.6	.	19.4	20.2	.	20.0	20.1	18.3	.	20.4	.	.	19.1	19.2
V98-2711	18.8	.	.	17.4	.	19.7	19.9	.	20.0	22.4	17.5	.	20.6	.	.	18.5	19.1

\*Data not included in mean



TABLE 21 ~ Continued

## PROTEIN PERCENTAGES

STRAIN/ VARIETY	KNOX-			PITTS-			PORTAGE-	PORTAGE-	PRINCE-	QUEENS-		STONE-		SUFFOLK VA	ULLIN IL	WARSAW VA	MEAN
	BIXBY OK	VILLE TN	MCCUNE KS	ORANGE VA	BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	TON KY	PROSPER* TX	TOWN MD	ROHWER* AR	VILLE MS				
MANOKIN	38.9	.	.	39.5	.	41.6	40.0	.	40.0	39.6	42.3	.	41.2	.	.	41.6	40.6
5601T	41.4	.	.	41.7	.	43.8	42.2	.	39.9	40.5	43.6	.	41.5	.	.	42.8	42.1
5002T	40.7	.	.	39.6	.	42.0	41.6	.	39.7	32.5	42.5	.	39.9	.	.	41.8	41.0
P 9594	39.4	.	.	39.5	.	41.6	41.6	.	40.0	39.2	42.2	.	40.3	.	.	41.2	40.7
AG 5603 (RR)	42.2	.	.	39.7	.	42.2	39.4	.	39.9	45.1	42.5	.	42.2	.	.	41.0	41.1
DT99-13005	39.9	.	.	38.4	.	40.4	42.4	.	38.6	39.9	41.0	.	39.2	.	.	40.8	40.1
DT99-16864	40.1	.	.	42.0	.	42.8	41.3	.	40.7	40.5	43.6	.	40.8	.	.	43.1	41.8
DT99-17483	38.4	.	.	39.7	.	40.7	40.9	.	39.6	38.9	44.4	.	41.0	.	.	42.4	40.9
K1530	40.9	.	.	40.6	.	43.6	38.7	.	37.1	38.0	42.1	.	40.9	.	.	42.0	40.7
K1550RR	38.6	.	.	37.3	.	41.8	41.2	.	37.6	35.4	42.0	.	39.2	.	.	40.2	39.7
Md 97-6065	38.7	.	.	38.3	.	41.0	39.6	.	37.4	37.8	41.7	.	38.6	.	.	41.0	39.5
Md 99-0687-3RR	39.0	.	.	39.3	.	43.1	41.5	.	38.6	42.5	42.6	.	42.3	.	.	43.7	41.3
Md 99-6226	39.8	.	.	39.3	.	41.1	39.4	.	39.6	39.7	41.7	.	39.6	.	.	40.9	40.2
N98-7265	40.2	.	.	40.3	.	40.6	39.5	.	39.9	36.7	43.5	.	39.5	.	.	41.0	40.6
N99-8141	39.5	.	.	40.3	.	41.6	40.4	.	39.8	36.5	43.5	.	40.8	.	.	41.8	41.0
R97-1634	39.9	.	.	39.5	.	41.9	41.6	.	39.4	37.0	42.4	.	38.7	.	.	41.7	40.6
R97-1650	41.4	.	.	40.4	.	41.8	42.0	.	40.3	38.2	43.0	.	41.2	.	.	42.0	41.5
R98-1647	39.9	.	.	39.3	.	43.3	40.0	.	39.2	41.8	43.7	.	40.7	.	.	42.3	41.1
R98-1821	42.5	.	.	41.9	.	45.4	43.6	.	40.8	43.0	46.0	.	43.3	.	.	44.2	43.5
R99-2070	38.7	.	.	37.5	.	41.1	39.5	.	37.7	36.9	43.5	.	39.7	.	.	41.3	39.9
S99-1171	41.1	.	.	39.7	.	41.5	41.7	.	39.4	33.5	42.7	.	41.7	.	.	41.2	41.1
S99-2447-02RR	40.0	.	.	40.8	.	42.7	42.3	.	39.2	41.6	42.5	.	42.1	.	.	43.0	41.6
S00-9985-03	38.5	.	.	37.3	.	39.9	39.3	.	37.5	38.9	40.1	.	39.9	.	.	38.9	38.9
TN98-170	39.6	.	.	38.7	.	41.1	39.8	.	40.1	42.1	43.4	.	39.4	.	.	43.0	40.6
TN99-184	39.8	.	.	40.2	.	40.1	40.0	.	38.7	43.7	42.8	.	41.6	.	.	42.3	40.7
TN01-360-RR	40.4	.	.	40.3	.	42.9	41.5	.	39.4	44.1	43.6	.	41.6	.	.	43.4	41.6
V96-0340	40.5	.	.	40.4	.	40.5	38.3	.	38.4	39.2	41.3	.	40.4	.	.	42.8	40.3
V98-2711	38.8	.	.	39.6	.	42.6	39.1	.	38.2	39.8	42.7	.	41.9	.	.	41.7	40.6

\*Data not included in mean

TABLE 21 ~ Continued

STRAIN/ VARIETY	GRAMS PER 100 SEED																
	BIXBY OK	KNOX- VILLE TN	MCCUNE KS	ORANGE VA	PITTS- BURG KS	PLYMOUTH NC	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	PRINCE- TON KY	PROSPER* TX	QUEENS- TOWN MD	ROHWER* AR	STONE- VILLE MS	SUFFOLK VA	ULLIN IL	WARSAW VA	MEAN
MANOKIN	.	13.5	12.4	11.6	14.2	13.3	10.0	12.0	14.4	.	12.6	11.5	12.4	11.1	12.7	11.8	12.5
5601T	.	13.7	13.1	13.1	15.0	14.3	11.3	12.5	13.9	.	12.6	12.6	14.4	12.0	12.7	12.2	13.1
5002T	.	15.1	12.3	11.9	13.1	14.8	13.0	13.6	16.1	.	14.2	16.2	16.8	13.5	15.3	14.2	14.1
P 9594	.	16.6	15.5	13.8	18.0	14.4	13.7	14.5	17.8	.	16.5	14.1	14.9	14.4	15.8	15.9	15.5
AG 5603 (RR)	.	11.6	14.9	12.4	15.8	13.5	11.0	11.8	14.8	.	13.1	13.4	15.5	12.0	12.7	12.4	13.2
DT99-13005	.	15.7	12.7	12.4	15.2	14.6	13.7	15.2	17.7	.	14.9	16.3	15.6	13.8	15.3	13.8	14.7
DT99-16864	.	13.7	14.8	12.2	17.0	13.9	12.1	13.0	15.6	.	14.6	15.3	12.5	12.8	15.8	12.9	13.9
DT99-17483	.	14.4	12.9	12.2	14.4	13.6	12.3	13.7	15.9	.	14.9	13.6	14.3	13.3	14.3	14.3	13.9
K1530	.	11.8	12.5	12.1	14.7	14.9	10.0	11.0	12.0	.	11.9	11.5	14.2	11.0	11.4	11.0	12.2
K1550RR	.	12.6	13.9	12.7	15.4	14.9	11.6	10.5	13.6	.	13.4	11.7	14.7	11.8	11.4	12.8	13.0
Md 97-6065	.	14.4	13.1	11.8	15.8	13.4	12.2	11.8	14.7	.	14.2	13.1	13.3	12.4	13.2	13.1	13.3
Md 99-0687-3RR	.	14.5	13.7	13.1	16.0	14.9	12.7	13.1	15.7	.	13.7	12.4	14.8	13.2	13.9	13.2	14.0
Md 99-6226	.	14.7	13.6	14.0	15.4	16.4	13.1	15.4	16.1	.	14.1	15.7	16.4	13.4	14.7	12.9	14.6
N98-7265	.	14.8	15.6	11.6	15.3	15.0	13.3	13.5	15.1	.	13.4	13.2	12.7	13.1	15.4	13.6	14.0
N99-8141	.	14.7	13.1	12.4	14.7	13.3	11.9	13.2	15.7	.	14.2	13.2	15.2	12.2	14.1	13.0	13.7
R97-1634	.	15.6	14.7	13.0	16.3	14.3	15.0	15.8	16.2	.	16.1	15.0	13.3	14.8	16.8	15.4	15.2
R97-1650	.	15.3	14.6	13.3	15.0	15.9	14.0	14.9	16.9	.	15.5	15.5	17.1	13.7	15.7	15.3	15.2
R98-1647	.	13.0	14.0	13.0	15.7	14.6	11.3	12.4	14.9	.	13.0	13.7	13.5	12.7	14.5	12.3	13.5
R98-1821	.	11.9	13.7	11.8	13.1	12.5	10.4	11.5	13.6	.	12.7	.	12.3	11.2	12.1	11.9	12.2
R99-2070	.	14.2	14.0	11.6	13.8	13.9	11.8	13.6	14.4	.	13.2	13.9	14.8	13.7	13.2	12.8	13.5
S99-1171	.	16.7	14.1	13.1	15.7	15.3	13.9	14.9	15.1	.	16.9	14.1	16.0	14.8	14.9	15.1	15.1
S99-2447-02RR	.	14.4	17.8	14.0	14.0	14.2	13.8	14.2	15.8	.	15.7	13.6	15.1	13.6	15.5	15.6	14.9
S00-9985-03	.	15.7	16.4	12.3	17.9	14.4	13.3	14.5	17.1	.	14.5	13.9	16.7	13.0	15.9	14.1	15.1
TN98-170	.	12.7	12.6	10.3	14.7	12.0	10.2	10.3	13.2	.	12.7	11.3	13.8	11.7	12.6	11.4	12.2
TN99-184	.	14.4	13.7	13.5	13.0	14.6	12.1	13.3	15.4	.	14.5	13.4	15.2	12.5	13.9	12.8	13.8
TN01-360-RR	.	14.1	15.1	11.9	15.5	12.8	11.7	12.8	13.8	.	14.7	12.4	13.5	13.0	13.0	12.7	13.4
V96-0340	.	15.3	17.4	13.2	17.2	15.1	13.1	13.8	17.7	.	15.7	15.1	17.3	13.5	17.1	13.7	15.4
V98-2711	.	13.8	12.0	13.3	14.0	15.4	12.4	12.8	14.3	.	13.7	13.2	14.7	12.0	13.2	12.0	13.4

\*Data not included in mean

**TABLE 22 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN MANOKIN, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2003**

**EAST**

STRAIN/ VARIETY	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	10/03	.	10/09	10/06
5601T	10	.	5	8
5002T	0	.	0	0
P 9594	12	.	9	11
AG 5603 (RR)	11	.	7	9
DT99-13005	3	.	2	2
DT99-16864	13	.	8	11
DT99-17483	12	.	6	9
K1530	4	.	-2	1
K1550RR	7	.	2	4
Md 97-6065	6	.	5	5
Md 99-0687-3RR	2	.	0	1
Md 99-6226	6	.	0	3
N98-7265	13	.	8	10
N99-8141	6	.	7	7
R97-1634	12	.	9	11
R97-1650	7	.	6	7
R98-1647	3	.	1	2
R98-1821	7	.	6	7
R99-2070	7	.	6	7
S99-1171	15	.	9	12
S99-2447-02RR	12	.	7	10
S00-9985-03	6	.	2	4
TN98-170	2	.	0	1
TN99-184	0	.	0	0
TN01-360-RR	14	.	9	12
V96-0340	5	.	2	4
V98-2711	6	.	3	4

TABLE 22 ~ Continued

## SOUTH

STRAIN/ VARIETY	BELLE MINA AL	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD TN	STARKVILLE* MS	SUFFOLK VA	ULLIN IL	MEAN
MANOKIN	09/18	09/29	10/30	.	10/12	.	10/09	10/12	10/08
5601T	9	2	5	.	2	.	8	2	5
5002T	5	0	0	.	2	.	0	2	2
P 9594	22	9	8	.	4	.	9	8	10
AG 5603 (RR)	14	0	5	.	2	.	8	7	6
DT99-13005	7	1	2	.	2	.	0	5	3
DT99-16864	22	6	5	.	5	.	9	8	9
DT99-17483	17	4	5	.	3	.	8	7	8
K1530	3	-2	3	.	1	.	4	-1	2
K1550RR	5	2	3	.	0	.	0	2	2
Md 97-6065	0	2	5	.	2	.	6	3	3
Md 99-0687-3RR	0	-1	2	.	0	.	4	0	1
Md 99-6226	0	-2	2	.	2	.	3	1	1
N98-7265	26	8	4	.	3	.	9	8	10
N99-8141	0	2	7	.	1	.	10	4	4
R97-1634	17	7	8	.	5	.	8	8	9
R97-1650	15	2	5	.	3	.	8	4	6
R98-1647	15	2	5	.	1	.	4	5	6
R98-1821	14	3	6	.	1	.	8	6	7
R99-2070	14	5	6	.	3	.	8	7	8
S99-1171	28	9	7	.	5	.	11	8	12
S99-2447-02RR	15	5	5	.	4	.	8	7	7
S00-9985-03	2	5	5	.	2	.	5	7	5
TN98-170	4	0	3	.	1	.	0	0	2
TN99-184	0	-1	6	.	2	.	0	-4	1
TN01-360-RR	27	8	10	.	5	.	11	7	12
V96-0340	3	2	5	.	1	.	0	4	3
V98-2711	3	4	5	.	3	.	5	4	4

\*Data not included in mean

TABLE 22 - Continued

STRAIN/ VARIETY	DELTA						MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	ROHWER* AR	STONEVILLE MS		
MANOKIN	10/01	10/01	10/08	09/23	09/08	09/27	
5601T	5	7	4	6	8	6	
5002T	2	2	-1	3	0	1	
P 9594	9	11	8	7	13	10	
AG 5603 (RR)	8	11	4	6	3	6	
DT99-13005	3	4	1	4	7	4	
DT99-16864	8	11	7	11	8	8	
DT99-17483	5	11	3	6	4	6	
K1530	2	1	-5	1	1	0	
K1550RR	2	2	3	2	1	2	
Md 97-6065	2	4	3	3	2	3	
Md 99-0687-3RR	3	1	-2	0	0	1	
Md 99-6226	5	6	3	4	7	5	
N98-7265	9	11	7	7	8	9	
N99-8141	5	7	7	6	4	6	
R97-1634	9	11	9	7	12	10	
R97-1650	6	7	5	6	9	7	
R98-1647	3	3	2	5	4	3	
R98-1821	3	5	2	5	7	4	
R99-2070	5	6	6	6	4	5	
S99-1171	9	11	8	9	13	10	
S99-2447-02RR	6	11	5	5	8	8	
S00-9985-03	3	4	5	5	9	5	
TN98-170	2	2	1	2	0	1	
TN99-184	0	0	4	3	0	1	
TN01-360-RR	9	11	10	10	12	11	
V96-0340	2	2	1	3	2	2	
V98-2711	2	5	5	3	3	4	

\*Data not included in mean

**TABLE 23 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V,  
2003**

STRAIN VARIETY	EAST		MEAN
	QUEENSTOWN MD	WARSAW VA	
MANOKIN	23	31	27
5601T	24	36	30
5002T	22	31	27
P 9594	27	36	32
AG 5603 (RR)	25	33	29
DT99-13005	17	26	21
DT99-16864	18	27	22
DT99-17483	18	31	25
K1530	21	33	27
K1550RR	24	28	26
Md 97-6065	23	34	28
Md 99-0687-3RR	21	32	27
Md 99-6226	23	26	25
N98-7265	20	35	27
N99-8141	27	32	30
R97-1634	25	34	30
R97-1650	26	35	30
R98-1647	16	30	23
R98-1821	17	27	22
R99-2070	18	36	27
S99-1171	22	32	27
S99-2447-02RR	25	34	29
S00-9985-03	25	34	30
TN98-170	19	27	23
TN99-184	15	23	19
TN01-360-RR	22	32	27
V96-0340	22	33	28
V98-2711	21	28	24

TABLE 23 ~ Continued

## SOUTH

STRAIN/ VARIETY	BELLE MINA AL	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD TN	STARKVILLE* MS	SUFFOLK VA	ULLIN IL	MEAN
MANOKIN	30	33	35	34	33	20	28	34	32
5601T	32	37	36	39	38	17	30	34	35
5002T	28	27	27	31	29	15	21	30	28
P 9594	36	42	35	43	38	23	33	38	38
AG 5603 (RR)	35	38	34	36	36	14	31	36	35
DT99-13005	30	32	27	32	32	15	28	32	31
DT99-16864	34	31	30	34	31	15	24	33	31
DT99-17483	34	37	33	35	37	16	27	35	34
K1530	32	35	34	38	37	20	28	36	34
K1550RR	28	31	29	31	30	12	23	31	29
Md 97-6065	31	37	30	35	35	19	26	33	32
Md 99-0687-3RR	30	34	32	36	35	19	28	38	33
Md 99-6226	28	30	29	33	30	13	28	33	30
N98-7265	37	39	34	39	39	19	30	43	37
N99-8141	30	34	32	32	33	19	33	34	33
R97-1634	32	36	36	36	37	20	26	37	34
R97-1650	34	36	35	38	37	21	30	39	35
R98-1647	35	36	33	37	38	20	30	37	35
R98-1821	30	30	30	32	29	20	25	32	30
R99-2070	36	33	34	41	39	19	37	40	37
S99-1171	35	36	34	36	34	24	29	37	35
S99-2447-02RR	34	30	32	34	33	21	32	34	33
S00-9985-03	34	36	37	36	40	24	34	43	37
TN98-170	27	32	25	32	35	16	23	30	29
TN99-184	27	28	24	27	30	16	25	27	27
TN01-360-RR	35	37	33	33	34	20	30	36	34
V96-0340	32	36	36	33	34	20	28	34	33
V98-2711	30	31	29	34	35	21	26	33	31

\*Data not included in mean

TABLE 23 ~ Continued

STRAIN/ VARIETY	DELTA						MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	ROHWER* AR	STONEVILLE MS		
MANOKIN	28	30	24	27	20	26	
5601T	28	34	25	26	28	29	
5002T	22	29	22	18	16	22	
P 9594	30	36	32	30	24	31	
AG 5603 (RR)	30	37	23	23	12	26	
DT99-13005	29	33	21	17	24	27	
DT99-16864	26	31	23	18	24	26	
DT99-17483	27	38	27	20	26	30	
K1530	28	32	27	27	14	25	
K1550RR	27	29	21	21	18	24	
Md 97-6065	29	33	24	23	18	26	
Md 99-0687-3RR	26	33	26	22	18	26	
Md 99-6226	26	32	20	20	20	25	
N98-7265	34	37	28	35	22	30	
N99-8141	29	33	22	23	24	27	
R97-1634	31	38	26	24	24	30	
R97-1650	26	37	32	24	30	31	
R98-1647	29	38	28	26	26	30	
R98-1821	25	35	22	25	24	26	
R99-2070	32	44	30	28	24	33	
S99-1171	31	38	28	26	24	30	
S99-2447-02RR	27	30	30	29	26	28	
S00-9985-03	26	36	35	26	26	31	
TN98-170	19	30	18	23	20	22	
TN99-184	23	28	19	20	10	20	
TN01-360-RR	29	38	25	20	20	28	
V96-0340	28	36	23	19	18	26	
V98-2711	25	32	24	21	24	26	

\*Data not included in mean



TABLE 23 ~ Continued

STRAIN/ VARIETY	WEST					MEAN	
	BIXBY OK	BOSSIER LA	CITY*	MCCUNE KS	PITTSBURG KS		PROSPER*
MANOKIN	29	23		34	27	17	30
5601T	29	19		34	27	14	30
5002T	23	15		30	25	14	26
P 9594	28	23		37	29	23	31
AG 5603 (RR)	25	14		29	24	14	26
DT99-13005	25	17		29	25	13	27
DT99-16864	25	17		33	26	15	28
DT99-17483	27	18		35	26	15	30
K1530	27	19		32	26	14	28
K1550RR	22	18		27	22	16	24
Md 97-6065	26	17		30	25	18	27
Md 99-0687-3RR	26	24		32	26	14	28
Md 99-6226	22	17		26	23	15	24
N98-7265	33	25		36	29	19	33
N99-8141	28	20		35	27	15	30
R97-1634	30	18		32	24	18	29
R97-1650	29	19		33	28	18	30
R98-1647	29	19		33	27	16	30
R98-1821	23	18		28	23	17	25
R99-2070	29	19		36	28	17	31
S99-1171	25	18		29	25	16	26
S99-2447-02RR	26	19		27	24	19	26
S00-9985-03	30	22		35	27	16	30
TN98-170	26	18		28	23	15	26
TN99-184	21	14		27	21	11	23
TN01-360-RR	24	14		30	24	19	26
V96-0340	26	20		30	24	15	26
V98-2711	23	17		28	23	13	25

\*Data not included in mean

**TABLE 24 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP V, 2003**

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
MANOKIN	3.0	4.0	3.2	3.4
5601T	3.0	2.8	2.4	2.7
5002T	3.3	3.7	3.2	3.4
P 9594	3.3	3.7	2.9	3.3
AG 5603 (RR)	3.0	2.2	1.8	2.3
DT99-13005	3.0	2.2	2.9	2.7
DT99-16864	3.3	2.7	2.2	2.7
DT99-17483	4.3	3.2	2.9	3.5
K1530	3.0	3.3	2.3	2.9
K1550RR	3.0	2.5	2.0	2.5
Md 97-6065	2.8	3.7	2.5	3.0
Md 99-0687-3RR	3.3	2.7	2.6	2.9
Md 99-6226	3.0	3.2	2.9	3.0
N98-7265	3.0	2.5	2.5	2.7
N99-8141	4.0	4.0	2.9	3.6
R97-1634	3.3	3.5	2.4	3.1
R97-1650	3.0	3.5	2.8	3.1
R98-1647	3.2	1.8	2.5	2.5
R98-1821	2.3	2.3	1.8	2.1
R99-2070	3.2	2.8	2.3	2.8
S99-1171	2.8	2.8	1.9	2.5
S99-2447-02RR	3.7	3.5	2.5	3.2
S00-9985-03	3.7	3.7	3.5	3.6
TN98-170	3.8	3.0	3.2	3.4
TN99-184	3.7	2.2	1.9	2.6
TN01-360-RR	3.0	2.7	2.8	2.8
V96-0340	3.0	2.5	3.2	2.9
V98-2711	3.0	3.0	3.1	3.0

TABLE 24 ~ Continued

## SOUTH

STRAIN/ VARIETY	BELLE MINA AL	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD TN	STARKVILLE* MS	SUFFOLK VA	ULLIN IL	MEAN
MANOKIN	1.0	3.0	3.7	2.0	3.7	1.0	3.0	2.0	2.6
5601T	1.3	1.8	2.3	2.0	3.0	1.0	2.0	2.7	2.2
5002T	1.0	1.8	3.7	2.0	3.0	1.0	2.5	2.0	2.3
P 9594	1.7	3.2	4.0	2.2	2.7	1.0	2.0	2.7	2.6
AG 5603 (RR)	1.0	1.0	2.0	1.3	1.7	1.0	1.8	1.3	1.5
DT99-13005	1.7	2.3	3.0	2.0	2.7	1.0	2.8	4.0	2.6
DT99-16864	1.3	1.8	3.0	2.2	3.3	1.0	3.0	4.0	2.7
DT99-17483	2.3	3.2	3.3	2.7	3.7	1.0	3.3	4.0	3.2
K1530	1.0	1.5	2.3	1.8	3.3	1.0	2.3	3.0	2.2
K1550RR	1.0	1.2	2.0	1.0	1.3	1.0	1.7	1.0	1.3
Md 97-6065	1.0	2.5	3.3	1.7	3.7	1.0	2.8	4.0	2.7
Md 99-0687-3RR	1.0	1.2	2.3	2.0	2.0	1.0	2.2	1.0	1.7
Md 99-6226	1.3	1.3	3.0	1.3	3.0	1.0	2.0	1.7	2.0
N98-7265	1.0	2.2	3.7	2.0	3.3	1.0	2.8	2.7	2.5
N99-8141	2.3	3.3	4.0	2.7	5.0	1.0	3.0	3.3	3.4
R97-1634	1.0	2.0	4.0	1.8	2.0	1.0	2.7	3.7	2.5
R97-1650	1.7	2.8	3.3	2.7	3.3	1.0	2.8	4.0	3.0
R98-1647	1.0	1.3	2.3	2.0	3.0	1.0	2.2	3.0	2.1
R98-1821	1.3	1.3	2.7	1.2	3.0	1.0	2.2	1.0	1.8
R99-2070	1.3	2.7	3.7	1.8	3.0	1.0	2.8	2.3	2.5
S99-1171	1.0	2.2	3.3	1.3	3.0	1.0	2.0	2.0	2.1
S99-2447-02RR	1.0	1.8	2.7	1.7	2.3	1.0	2.7	4.0	2.3
S00-9985-03	2.0	3.3	4.0	2.5	3.3	1.0	2.8	4.0	3.1
TN98-170	1.0	2.3	3.0	2.0	3.3	1.0	3.2	2.7	2.5
TN99-184	1.0	1.0	2.7	1.0	1.7	1.0	2.2	1.0	1.5
TN01-360-RR	1.3	1.8	2.7	1.7	3.3	1.0	2.7	1.0	2.1
V96-0340	1.3	2.0	3.0	1.8	3.0	1.0	2.3	2.0	2.2
V98-2711	1.3	2.2	3.0	2.0	4.0	1.0	2.7	4.0	2.7

\*Data not included in mean

TABLE 24 ~ Continued

STRAIN/ VARIETY	DELTA						MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	ROHWER* AR	STONEVILLE MS		
MANOKIN	2.5	2.5	2.0	1.0	2.0	2.3	
5601T	3.0	1.5	1.5	1.0	2.0	2.0	
5002T	3.2	2.0	1.5	1.0	2.0	2.2	
P 9594	3.2	2.0	2.0	1.0	2.0	2.3	
AG 5603 (RR)	3.5	1.0	1.0	1.0	2.0	1.9	
DT99-13005	3.0	2.0	1.0	1.0	2.0	2.0	
DT99-16864	3.3	1.0	1.0	1.0	2.0	1.8	
DT99-17483	3.5	3.0	3.0	1.0	2.0	2.9	
K1530	3.0	2.0	1.5	1.0	2.0	2.1	
K1550RR	2.5	1.0	1.0	1.0	2.0	1.6	
Md 97-6065	3.5	1.5	1.0	1.0	2.0	2.0	
Md 99-0687-3RR	2.8	1.0	1.5	1.0	2.0	1.8	
Md 99-6226	2.7	1.5	1.0	1.0	2.0	1.8	
N98-7265	3.2	1.5	2.5	1.0	2.0	2.3	
N99-8141	3.8	2.5	2.5	1.0	2.0	2.7	
R97-1634	3.2	1.5	2.0	1.0	2.0	2.2	
R97-1650	3.7	2.0	2.0	1.0	2.0	2.4	
R98-1647	3.7	1.5	1.5	1.0	2.0	2.2	
R98-1821	3.8	1.0	1.0	1.0	2.0	2.0	
R99-2070	3.8	2.5	2.0	1.0	2.0	2.6	
S99-1171	2.8	1.0	1.5	1.0	2.0	1.8	
S99-2447-02RR	3.8	2.5	2.0	1.0	2.0	2.6	
S00-9985-03	3.3	3.0	3.0	1.0	2.0	2.8	
TN98-170	2.8	1.5	1.0	1.0	2.0	1.8	
TN99-184	3.5	1.0	1.0	1.0	2.0	1.9	
TN01-360-RR	3.7	1.0	1.0	1.0	2.0	1.9	
V96-0340	3.5	1.0	1.5	1.0	2.0	2.0	
V98-2711	3.7	1.0	2.0	1.0	2.0	2.2	

\*Data not included in mean

TABLE 24 ~ Continued

STRAIN VARIETY	WEST				MEAN
	BIXBY OK	BOSSIER CITY* LA	MCCUNE KS	PITTSBURG KS	
MANOKIN	1.0	1.0	2.7	1.3	1.7
5601T	1.0	1.0	1.3	1.0	1.1
5002T	.	1.0	1.0	1.0	1.0
P 9594	1.0	1.0	1.3	1.0	1.1
AG 5603 (RR)	.	1.0	1.0	1.0	1.0
DT99-13005	.	1.0	1.0	1.0	1.0
DT99-16864	.	1.0	1.0	1.0	1.0
DT99-17483	1.0	1.0	1.0	1.0	1.0
K1530	1.0	1.0	1.0	1.0	1.0
K1550RR	.	1.0	1.0	1.0	1.0
Md 97-6065	.	1.0	1.0	1.0	1.0
Md 99-0687-3RR	1.0	1.0	1.0	1.0	1.0
Md 99-6226	.	1.0	1.0	1.0	1.0
N98-7265	1.0	1.0	1.7	1.0	1.2
N99-8141	1.0	1.3	2.7	1.0	1.6
R97-1634	1.0	1.0	1.0	1.0	1.0
R97-1650	1.0	1.0	1.0	1.0	1.0
R98-1647	1.0	1.0	1.0	1.0	1.0
R98-1821	.	1.0	1.0	1.0	1.0
R99-2070	.	1.0	1.0	1.0	1.0
S99-1171	.	1.0	1.0	1.0	1.0
S99-2447-02RR	.	1.0	1.0	1.0	1.0
S00-9985-03	1.0	1.0	1.0	1.0	1.0
TN98-170	.	1.0	1.0	1.0	1.0
TN99-184	.	1.0	1.0	1.0	1.0
TN01-360-RR	.	1.0	1.0	1.0	1.0
V96-0340	.	1.0	1.0	1.0	1.0
V98-2711	1.0	1.0	1.0	1.0	1.0

\*Data not included in mean

**TABLE 25 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2003**

**EAST**

STRAIN/ VARIETY	PLYMOUTH	QUEENSTOWN	WARSAW	MEAN
	NC	MD	VA	
MANOKIN	1.0	1.0	1.3	1.1
5601T	2.0	1.0	1.1	1.4
5002T	1.5	1.0	1.2	1.2
P 9594	1.0	1.0	1.2	1.1
AG 5603 (RR)	1.0	1.0	1.1	1.0
DT99-13005	1.0	1.0	1.3	1.1
DT99-16864	2.0	1.0	1.3	1.4
DT99-17483	1.0	1.0	1.2	1.1
K1530	2.0	1.0	1.2	1.4
K1550RR	2.0	1.0	1.2	1.4
Md 97-6065	1.0	1.0	1.4	1.1
Md 99-0687-3RR	1.0	1.0	1.3	1.1
Md 99-6226	2.0	1.0	1.2	1.4
N98-7265	2.0	1.0	1.5	1.5
N99-8141	1.0	1.0	1.6	1.2
R97-1634	2.0	1.0	1.3	1.4
R97-1650	2.0	1.0	1.4	1.5
R98-1647	1.0	1.0	1.3	1.1
R98-1821	1.0	1.0	1.4	1.1
R99-2070	1.0	1.0	1.6	1.2
S99-1171	1.0	1.0	1.6	1.2
S99-2447-02RR	2.0	1.0	1.4	1.5
S00-9985-03	2.0	1.0	1.5	1.5
TN98-170	2.0	1.0	1.7	1.6
TN99-184	1.0	1.0	1.3	1.1
TN01-360-RR	1.0	1.0	1.3	1.1
V96-0340	2.0	1.0	1.5	1.5
V98-2711	1.0	1.0	1.4	1.1

TABLE 25 ~ Continued

STRAIN/ VARIETY	SOUTH					MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SUFFOLK VA	ULLIN IL	
MANOKIN	3.0	1.7	1.0	2.7	1.0	1.9
5601T	2.0	1.2	1.0	1.0	1.0	1.2
5002T	2.0	1.4	1.0	3.0	1.0	1.7
P 9594	1.0	1.7	1.0	1.0	1.0	1.1
AG 5603 (RR)	1.0	1.2	1.0	1.0	1.0	1.0
DT99-13005	3.0	1.2	1.0	1.3	1.0	1.5
DT99-16864	2.0	1.8	1.0	1.3	1.0	1.4
DT99-17483	1.0	1.6	1.0	1.3	1.0	1.2
K1530	1.0	1.0	1.0	1.3	1.0	1.1
K1550RR	2.0	1.1	1.0	1.3	1.0	1.3
Md 97-6065	2.0	1.3	1.0	2.0	1.0	1.5
Md 99-0687-3RR	3.0	1.0	1.0	2.3	1.0	1.7
Md 99-6226	2.0	1.0	1.0	2.0	1.0	1.4
N98-7265	2.0	1.1	1.0	1.0	1.0	1.2
N99-8141	3.0	1.2	1.0	2.0	1.0	1.6
R97-1634	1.0	1.5	1.0	1.0	1.0	1.1
R97-1650	2.0	1.5	1.0	2.0	1.0	1.5
R98-1647	2.0	1.1	1.0	1.7	1.0	1.3
R98-1821	1.0	1.3	1.0	1.0	1.0	1.1
R99-2070	2.0	1.8	1.0	2.0	1.0	1.6
S99-1171	1.0	1.3	1.0	1.0	1.0	1.1
S99-2447-02RR	1.0	1.2	1.0	1.3	1.0	1.1
S00-9985-03	1.0	1.6	1.0	2.3	1.0	1.4
TN98-170	2.0	1.5	1.0	2.3	1.0	1.6
TN99-184	2.0	1.6	1.0	2.7	1.0	1.6
TN01-360-RR	2.0	1.5	1.0	1.0	1.0	1.3
V96-0340	1.0	2.0	1.0	1.7	1.0	1.3
V98-2711	2.0	1.3	1.0	1.7	1.0	1.4

TABLE 25 ~ Continued

STRAIN/ VARIETY	DELTA					MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	ROHWER* AR	STONEVILLE MS		
MANOKIN	2.0	2.0	1.5	2.0		2.0
5601T	2.0	2.0	1.0	2.0		2.0
5002T	2.0	2.0	1.0	2.0		2.0
P 9594	2.0	2.0	2.0	2.0		2.0
AG 5603 (RR)	2.0	2.0	1.0	2.0		2.0
DT99-13005	2.0	2.0	1.5	2.0		2.0
DT99-16864	2.0	2.0	1.0	2.0		2.0
DT99-17483	2.0	2.0	1.0	2.0		2.0
K1530	2.0	2.0	1.0	2.0		2.0
K1550RR	2.0	2.0	2.0	2.0		2.0
Md 97-6065	2.0	2.0	1.5	2.0		2.0
Md 99-0687-3RR	2.0	2.0	1.5	2.0		2.0
Md 99-6226	2.0	2.0	1.0	2.0		2.0
N98-7265	2.0	2.0	2.0	2.0		2.0
N99-8141	2.0	2.0	1.5	2.0		2.0
R97-1634	2.0	2.0	2.0	2.0		2.0
R97-1650	2.0	2.0	1.5	2.0		2.0
R98-1647	2.0	2.0	1.5	2.0		2.0
R98-1821	2.0	1.0	.	2.0		1.7
R99-2070	3.0	2.0	2.0	2.0		2.3
S99-1171	3.0	2.0	1.5	2.0		2.3
S99-2447-02RR	2.0	2.0	1.0	2.0		2.0
S00-9985-03	3.0	2.0	1.0	2.0		2.3
TN98-170	2.0	2.0	1.5	2.0		2.0
TN99-184	2.0	2.0	1.0	2.0		2.0
TN01-360-RR	3.0	2.0	1.0	2.0		2.3
V96-0340	2.0	2.0	1.5	2.0		2.0
V98-2711	2.0	2.0	1.0	2.0		2.0

\*Data not included in mean



TABLE 25 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	MCCUNE KS	PITTSBURG KS	
MANOKIN	2.0	2.0	2.0
5601T	2.0	2.0	2.0
5002T	2.0	2.0	2.0
P 9594	2.0	2.0	2.0
AG 5603 (RR)	2.0	2.0	2.0
DT99-13005	2.0	2.0	2.0
DT99-16864	3.0	2.0	2.5
DT99-17483	2.0	2.0	2.0
K1530	2.0	2.0	2.0
K1550RR	3.0	2.0	2.5
Md 97-6065	2.0	2.0	2.0
Md 99-0687-3RR	2.0	2.0	2.0
Md 99-6226	2.0	2.0	2.0
N98-7265	2.0	2.0	2.0
N99-8141	2.0	2.0	2.0
R97-1634	2.0	2.0	2.0
R97-1650	2.0	2.0	2.0
R98-1647	2.0	2.0	2.0
R98-1821	2.0	2.0	2.0
R99-2070	2.0	2.0	2.0
S99-1171	2.0	2.0	2.0
S99-2447-02RR	2.0	2.0	2.0
S00-9985-03	2.0	2.0	2.0
TN98-170	3.0	2.0	2.5
TN99-184	2.0	2.0	2.0
TN01-360-RR	2.0	2.0	2.0
V96-0340	2.0	2.0	2.0
V98-2711	2.0	2.0	2.0

**PRELIMINARY GROUP V****2003**

**Preliminary Group V nurseries were planted at 12 locations. Data were obtained from 11 of these locations. The parentage for each strain is reported in Table 26. Table 27 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 28 - 34.**

**TABLE 26 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2003**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 × D74-7824	
2. 5601T	Hutcheson × TN89-39	
3. AG5603 (RR)	Commercial Check RR	
4. P9594	Commercial Check	
5. 5002T	N85-578 × Manokin	
6. DB00-4	DT96-6840 × S59-60	F6
7. DB00-56	DT96-6840 × S59-60	F6
8. DB00-138	DT96-6840 × DT95-15091	F6
9. DB00-170	R92-1294 × DT95-15091	F6
10. DB00-173	R92-1294 × DT95-15091	F6
11. JTN-5103	S94-1956 × MD94-5396	
12. JTN-5203	R93-171 × Anand	
13. JTN-5303	R93-171 × Anand	
14. JTN-5403	J95-4 × Manokin	
15. JTN-5503	Fowler × Manokin	
16. K1608RR	K1270//K1270/(Resni k2/40-3-2)	F5
17. K1609RR	K1270//K1270/(Resni k2/40-3-2)	F5
18. K1610	KY91-1352 × R93-171 SCN Res	F5
19. K1611	S92-2716 × KS4997 SCN Res	F5
20. K1612	Hartwig × NK S42-60 SCN Res	F5
21. Md 99-0700-2 RR	Wicomico × (Manokin × RR) R*	
22. Md 99-1051-2 RR	MD92-5769 × (M92-5769 × RR)	
23. Md 99-1411-1 RR	MD92-5769 X (M92-5769 × RR)	
24. Md 00-5159	S92-1679 × Corsica R*	
25. Md 00-6015	MD 92-5769 × N93-54	
26. N98-7018	Holladay × PI 471938	F4
27. N98-7056	Holladay × PI 471938	F4
28. N98-7165	Holladay × PI 471938	F4
29. Caviness-RR	Caviness × 97613	
30. R99-1858	MD92-5769 × P9641	
31. R99-3326	Dyng 3576 × Hartz 5545	
32. R00-507	A6297 × R89-332	
33. R00-877	N92-195 × Delsoy 5500	
34. S00-9970-09	S94-1867 × Anand	
35. S01-10091RR	Anand × Delsoy 5500 (4) × RR	
36. S02-604CR RR	SG498RR × Anand	
37. S02-611CR RR	DP5960RR × Anand	
38. S02-683CR RR	(S86-4499 (4) × RR) × Unknown	
39. TN01-331-RR	TN93-99[3] × Resni k-RR	
40. TN01-340-RR	TN93-99[3] × Resni k-RR	
41. TN01-184	R93-171 × Anand	
42. TN03-349	TN93-99 × PI 416937	
43. TN03-350	N87-984-16 × TN93-99	
44. V99-0005	KS4895 × TN90-03	
45. V99-0053	KS4895 × TN90-03	
46. V99-1525	Hutcheson × KS4895	
47. V99-1613	Hutcheson × KS4895	
48. V00-1988	V90-1012 × Clifford	

**TABLE 27 ~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2003  
~ MEAN OF 11 LOCATIONS**

STRAIN/ VARIETY	SEED		AVG.	MAT.				SEED	----PERCENT----		STEM	SCN	SCN	SCN	FL	PUB.	POD
	YIELD	RANK	RANK	INDEX	LODGING	HEIGHT	QUALITY	SIZE	PROTEIN	OIL	CANKER	2	3	14	COLOR	COLOR	COLOR
MANOKIN	45.6	28	28	10/02	2.0	29	1.7	12.4	40.3	19.4	R	5.0	1.0	2.0	W	T	T
5601T	52.6+	2	18	4+	1.5	31	1.6	13.3	42.6+	18.4-	R	5.0	5.0	3.0	W	G	T
AG5603 (RR)	44.8	37	30	7+	1.4	29	1.4	13.0	41.9+	19.5	R	5.0	2.0	1.0	P	G	T
P9594	51.0+	6	20	11+	2.0	33	1.6	15.4	40.8	18.5-	S	5.0	5.0	3.0	W	G	T
5002T	51.8+	4	18	2+	1.8	25	1.5	14.8	41.3	19.7	R	5.0	5.0	4.0	W	T	T
DB00-4	46.1	25	28	4+	2.3	31	1.7	13.7	41.7+	19.3	S	5.0	3.0	1.0	P	T	T
DB00-56	46.3	21	26	5+	1.5	24	1.5	15.9	42.8+	18.2-	R	5.0	5.0	2.0	P	G	T
DB00-138	45.0	36	30	4+	1.6	29	1.6	13.3	42.4+	18.7	R	5.0	5.0	2.0	P	T	T
DB00-170	44.7	39	29	10+	1.4	30	1.7	15.2	41.1	18.4-	R	5.0	1.0	2.0	P	T	T
DB00-173	46.5	18	28	6+	2.4	31	1.6	13.0	41.4+	18.8	R	5.0	5.0	3.0	W	T	T
JTN-5103	48.5	12	24	4+	1.8	27	1.5	12.0	41.7+	19.6	R	5.0	5.0	2.0		G	
JTN-5203	48.1	14	25	4+	1.5	25	1.6	12.6	40.7	19.5	R	4.0	5.0	1.0		G	
JTN-5303	49.2	11	23	4+	1.9	27	1.7	15.0	40.8	20.0	R	5.0	5.0	1.0		T	
JTN-5403	46.2	23	28	2+	2.1	31	1.6	14.6	40.3	18.3-	MS	5.0	1.0	1.0	W	T	
JTN-5503	53.3+	1	18	7+	2.3	29	1.6	14.3	40.6	18.6-	R	1.0	1.0	1.0	W	T	
K1608RR	44.4	42	29	4+	1.3	26	1.5	12.2	39.6	20.2+	S	5.0	5.0	4.0			
K1609RR	44.7	39	30	4+	1.3	27	1.6	12.5	40.3	19.7	S	5.0	5.0	3.0			
K1610	45.8	26	27	0	1.3	23	1.6	13.9	42.3+	19.2	R	5.0	5.0	3.0			
K1611	41.5	48	33	2-	1.3	26	1.7	12.5	41.2	19.4	R	5.0	4.0	2.0			
K1612	45.6	28	28	2+	1.7	27	1.6	12.4	40.4	18.7	R	5.0	3.0	1.0			
Md 99-0700-2 RR	42.7	45	32	2+	1.4	26	1.6	12.6	42.2+	19.7	R	5.0	1.0	3.0	P	T	
Md 99-1051-2 RR	46.4	19	27	2+	2.2	37	1.5	13.2	41.1	19.4	R	5.0	5.0	3.0	P	G	
Md 99-1411-1 RR	46.2	23	27	3+	1.3	27	1.6	11.7	39.1-	19.1	R	5.0	5.0	2.0	P	G	
Md 00-5159	46.5	18	27	3+	1.6	27	1.6	11.6	40.9	18.4-	MS	5.0	1.0	2.0	W	T	
Md 00-6015	49.3	10	22	1-	1.4	22	1.5	13.6	37.7-	20.3+	R	5.0	5.0	2.0	P	G	
N98-7018	46.2	23	27	3+	1.5	26	1.6	13.7	38.8-	18.8	R	5.0	5.0	3.0	P	G	
N98-7056	46.3	21	27	6+	1.9	32	1.5	14.9	40.1	19.4	R	5.0	5.0	3.0	P	G	
N98-7165	45.4	29	28	9+	1.8	29	1.7	12.6	40.4	17.9-	R	5.0	5.0	3.0	P	G	
Caviness-RR	45.1	34	27	5+	1.7	31	1.6	13.7	42.2+	18.9	R	5.0	3.0	1.0	W	G	
R99-1858	51.1+	5	21	8+	1.9	30	1.6	13.6	40.5	20.2+	R	5.0	5.0	3.0	P	G	
R99-3326	48.2	13	23	7+	1.7	29	1.8	12.4	41.3	17.9-	R	5.0	5.0	2.0	P	G	
R00-507	46.6	16	26	7+	1.5	29	1.5	13.2	41.1	19.4	S	5.0	1.0	2.0	P	G	
R00-877	50.4+	7	22	7+	2.0	30	1.7	13.1	41.9+	19.5	MS	5.0	2.0	1.0	P	G	
S00-9970-09	52.1+	3	19	6+	1.8	29	1.8	14.2	41.1	18.7	MS	3.0	5.0	1.0	P	T	
S01-10091RR	43.5	44	31	8+	1.5	27	1.6	12.8	40.8	18.8	MS	5.0	2.0	1.0	W	T	
S02-604CR RR	42.6	46	32	7+	2.5	39	1.7	14.1	41.3	19.6	R	5.0	5.0	1.0	W	T	
S02-611CR RR	49.7	9	23	4+	2.4	32	1.9	12.9	38.9-	19.4	R	5.0	5.0	1.0	W	T	
S02-683CR RR	44.6	40	28	3+	1.9	38	1.7	15.6	42.9+	19.2	R	5.0	1.0	1.0	W	T	
TN01-331-RR	45.1	34	28	10+	1.9	28	1.6	12.3	42.9+	19.4	R	5.0	1.0	1.0	P	G	
TN01-340-RR	45.0	36	28	7+	1.5	30	1.5	13.5	41.0	19.3	R	5.0	5.0	4.0	W	G	
TN01-184	45.3	30	28	3+	1.3	26	1.7	13.6	40.1	19.0	R	5.0	5.0	3.0	W	T	
TN03-349	42.0	47	33	10+	1.8	27	1.6	20.2	42.8+	18.3-	R	5.0	5.0	3.0	P	G	
TN03-350	44.4	42	30	9+	1.3	25	1.6	14.2	43.9+	18.1-	R	5.0	5.0	3.0	W	G	
V99-0005	45.2	32	28	2-	1.8	36	1.7	12.4	43.4+	18.9	R	5.0	5.0	4.0	P	G	
V99-0053	47.0	15	26	2+	2.3	40	1.7	14.1	42.4+	19.4	R	5.0	5.0	4.0	P	G	
V99-1525	44.2	43	30	2+	1.5	28	1.6	15.2	41.7+	19.9	R	5.0	5.0	3.0	W	G	
V99-1613	45.2	32	28	1-	1.3	25	1.6	13.6	42.1+	18.6-	R	5.0	5.0	4.0	W	G	
V00-1988	49.9	8	21	6+	1.4	27	1.6	14.5	41.7+	19.0	R	5.0	5.0	5.0	P	G	
OVERALL MEAN	46.6								41.2	19.1							
LSD (.05)	4.7								1.1	0.7							
C. V.	12%								2%	3%							

**TABLE 28 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2003**

STRAIN/ VARIETY	BIXBY	JACKSON	MCCUNE	PINE TREE	PLYMOUTH	PORTAGE-	PROSPER*	QUEENS-	ROWHER	STONE-	ULLIN	WARSAW	MEAN
	OK	TN	KS	AR	NC	VILLE MO(A)	TX	TOWN MD	AR	VILLE MS	IL	VA	
MANOKIN	47.5	41.8	26.6	55.6	31.2	48.3	19.9	35.7	46.5	62.4	55.2	50.4	45.6
5601T	47.3	42.1	30.8	64.7	48.4+	56.2+	13.9	45.7	56.3	66.0	63.2+	58.3+	52.6+
AG5603 (RR)	47.4	37.6	28.5	61.1	38.1	46.3	4.6-	42.2	49.0	38.8-	46.9-	57.1+	44.8
P9594	44.8	47.3	31.3	55.9	46.7+	57.7+	10.7	35.7	58.0	69.2	57.0	57.1+	51.0+
5002T	43.4	50.2	23.8	68.1+	52.1+	55.8+	13.4	42.9	55.4	59.2	56.3	62.1+	51.8+
DB00-4	37.2-	42.3	27.1	68.8+	36.3	54.4	13.1	32.5	54.6	55.3	46.1-	52.0	46.1
DB00-56	43.7	34.8	22.9	62.9	44.0+	51.3	8.0-	36.4	56.2	42.6-	58.1	56.9	46.3
DB00-138	40.2-	35.4	27.6	70.6+	42.9+	42.5	16.9	29.5	54.8	42.3-	57.8	51.4	45.0
DB00-170	44.7	39.4	29.9	58.1	42.3+	44.0	10.8	29.3	45.6	50.7	51.6	56.2	44.7
DB00-173	45.2	36.7	29.4	50.2	45.7+	53.7	9.8-	28.6	43.4	75.3	47.2-	55.9	46.5
JTN-5103	41.6	43.7	29.9	61.0	51.1+	54.8+	7.8-	41.5	58.8	45.6	51.2	54.6	48.5
JTN-5203	41.7	33.3	24.3	70.9+	48.1+	51.1	6.7-	31.7	55.1	47.1	64.3+	61.0+	48.1
JTN-5303	41.0-	39.2	24.8	60.6	48.4+	54.4	4.9-	24.8-	53.2	68.3	64.6+	62.4+	49.2
JTN-5403	41.8	34.6	21.5-	63.1	36.4	48.4	10.1-	40.2	45.5	68.4	58.8	49.0	46.2
JTN-5503	48.0	40.5	30.4	64.7	50.4+	60.2+	8.9-	43.2	52.5	72.8	65.0+	58.2+	53.3+
K1608RR	50.5	32.4	27.6	52.0	40.0	47.6	12.4	43.6	42.9	57.2	33.8-	60.4+	44.4
K1609RR	48.0	38.0	29.0	49.4	38.0	46.7	21.3	42.2	42.1	59.6	39.6-	59.2+	44.7
K1610	42.1	31.7-	25.7	55.0	45.3+	49.1	7.0-	44.3	57.0	52.9	50.5	49.9	45.8
K1611	37.1-	23.1-	22.0	48.7	42.9+	46.8	8.3-	37.2	43.3	55.0	51.2	49.4	41.5
K1612	43.1	38.4	27.6	58.9	45.1+	53.7	9.8-	30.5	41.7	63.8	49.8	49.2	45.6
Md 99-0700-2 RR	42.2	32.7	27.6	50.3	30.3	46.7	14.9	36.2	41.3	61.1	52.7	48.5	42.7
Md 99-1051-2 RR	48.1	40.2	24.3	56.0	39.2	54.1	16.0	45.5	49.8	52.8	47.2-	52.8	46.4
Md 99-1411-1 RR	44.7	30.1-	29.4	62.5	37.2	47.3	14.3	46.1+	54.6	59.3	43.2-	53.9	46.2
Md 00-5159	47.7	37.6	26.6	52.3	44.0+	46.0	23.3	46.9+	48.2	49.9	53.8	58.2+	46.5
Md 00-6015	42.1	42.8	29.9	59.6	51.5+	53.2	11.5	42.3	55.6	55.5	54.5	55.9	49.3
N98-7018	47.9	40.5	27.1	58.0	42.8+	45.5	9.8-	39.2	52.5	48.6	56.7	49.3	46.2
N98-7056	50.1	44.0	31.3	52.7	42.7+	43.7	14.8	31.0	53.7	61.9	46.1-	52.4	46.3
N98-7165	53.3	37.7	29.9	55.4	41.3	42.6	7.5-	33.4	45.9	56.6	53.0	50.6	45.4
Cavi ness-RR	43.0	44.1	26.6	54.6	30.3	48.8	13.7	30.7	58.4	56.1	50.5	53.0	45.1
R99-1858	54.3+	45.0	29.4	65.3+	44.9+	55.5+	15.5	37.3	54.9	69.9	50.1	55.9	51.1+
R99-3326	50.9	45.3	29.0	60.2	42.4+	53.1	12.1	28.9	46.1	56.1	60.7	57.4+	48.2
R00-507	46.5	40.5	27.6	57.9	35.2	50.2	10.2	38.8	46.4	57.0	56.7	55.8	46.6
R00-877	48.8	49.8	29.9	64.6	41.2	53.4	15.2	41.5	52.0	69.4	47.6-	55.7	50.4+
S00-9970-09	53.3	41.4	32.2+	62.9	46.7+	56.1+	10.7	40.0	55.1	63.6	63.6+	58.7+	52.1+
S01-10091RR	49.8	44.7	25.7	48.9	41.3	47.8	11.6	31.1	34.7	60.9	42.9-	50.2	43.5
S02-604CR RR	45.3	27.4-	22.9	44.0-	31.4	46.3	15.1	29.1	41.9	71.6	54.5	53.7	42.6
S02-611CR RR	51.6	41.9	27.6	67.1+	38.3	48.2	5.7-	35.0	51.2	72.2	60.7	53.3	49.7
S02-683CR RR	42.6	28.0-	22.9	56.3	39.5	50.0	6.3-	37.4	50.8	57.5	47.9-	57.7+	44.6
TN01-331-RR	46.6	38.2	29.0	56.4	35.4	50.0	7.7-	31.5	54.5	59.7	45.4-	49.5	45.1
TN01-340-RR	47.5	40.0	28.5	55.1	41.0	44.8	14.9	25.4-	50.6	57.2	51.2	53.6	45.0
TN01-184	51.6	35.2	28.5	56.9	47.9+	44.5	4.3-	32.5	51.1	36.1-	61.4	52.6	45.3
TN03-349	38.7-	37.5	24.8	57.8	35.4	41.8-	7.8-	30.5	47.4	53.0	49.0	45.6	42.0
TN03-350	41.6	38.8	24.3	64.8	40.2	47.4	10.1-	30.7	61.6+	42.5-	42.5-	54.3	44.4
V99-0005	41.3-	27.6-	22.0	54.6	42.9+	53.5	11.1	34.1	49.9	66.3	50.1	54.9	45.2
V99-0053	46.7	41.2	29.4	57.9	44.4+	49.4	22.1	42.8	48.4	51.8	47.9-	56.8	47.0
V99-1525	40.4-	39.0	25.2	57.0	47.4+	50.4	10.9	38.1	45.2	32.9-	51.6	58.8+	44.2
V99-1613	40.7-	36.8	25.7	60.1	46.7+	56.5+	5.5-	27.2	56.5	40.0-	50.8	55.9	45.2
V00-1988	34.8-	42.6	28.5	57.3	54.4+	56.8+	16.2	28.0	53.8	69.3	62.1	61.8+	49.9
L. S. D. (0.05)	6.1	9.6	4.9	9.4	10.9	6.4	9.7	10.1	13.1	16.8	7.2	6.6	4.7
C. V. (%)	6.7	12.2	9.0	8.0	12.8	6.4	41.5	13.9	16.0	14.6	6.8	6.0	11.9

\*Data not included in mean

**TABLE 29 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2003**

STRAIN/ VARIETY	BIXBY OK	PLYMOUTH NC	PORTAGEVILLE MO(A)	PROSPER* TX	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
MANOKIN	18.8	20.7	20.0	22.5	17.3	20.8	18.6	19.4
5601T	18.0	18.7	18.7	22.8	16.5	19.9	18.6	18.4
AG5603 (RR)	19.5	19.7	19.7	23.6	18.0	21.3	18.9	19.5
P9594	18.2	18.6	19.1	23.5	16.7	19.8	18.5	18.5
5002T	19.0	20.6	20.5	23.1	17.5	21.3	19.3	19.7
DB00-4	18.7	20.2	19.8	21.8	17.4	20.0	19.4	19.3
DB00-56	17.6	18.7	18.0	21.9	16.7	19.6	18.5	18.2
DB00-138	17.7	19.3	19.7	23.1	16.0	20.7	18.9	18.7
DB00-170	18.3	18.5	18.8	23.0	15.8	20.5	18.4	18.4
DB00-173	18.9	19.6	18.6	23.5	16.9	20.3	18.6	18.8
JTN-5103	18.9	19.8	20.0	20.5	17.6	21.6	19.5	19.6
JTN-5203	19.3	19.6	19.8	22.4	17.8	20.9	19.7	19.5
JTN-5303	19.3	19.5	20.6	23.2	18.2	22.1	20.1	20.0
JTN-5403	17.6	18.6	18.9	21.9	16.5	20.5	17.7	18.3
JTN-5503	17.7	18.8	19.0	21.9	17.5	20.3	18.3	18.6
K1608RR	17.8	20.1	21.5	24.0	18.1	23.6	20.0	20.2
K1609RR	18.8	19.7	20.5	22.2	17.6	22.4	19.1	19.7
K1610	18.8	20.4	20.0	23.5	17.0	20.6	18.1	19.2
K1611	19.5	20.2	20.0	21.1	17.7	21.2	17.8	19.4
K1612	18.8	19.2	19.1	20.7	16.7	20.8	17.7	18.7
Md 99-0700-2 RR	19.7	20.9	19.8	23.0	18.2	21.2	18.4	19.7
Md 99-1051-2 RR	18.4	20.8	19.9	21.7	16.9	21.7	18.9	19.4
Md 99-1411-1 RR	19.6	20.0	18.6	21.7	17.4	21.0	17.8	19.1
Md 00-5159	18.2	18.6	18.3	19.8	17.0	20.5	17.8	18.4
Md 00-6015	19.7	21.2	21.1	22.2	18.4	22.3	18.8	20.3
N98-7018	18.8	18.6	19.7	24.1	16.7	22.1	17.1	18.8
N98-7056	19.4	19.8	19.6	23.5	17.1	22.0	18.6	19.4
N98-7165	18.4	17.5	18.6	21.6	15.2	20.7	17.2	17.9
Caviness-RR	18.3	19.6	19.9	21.6	16.4	21.2	18.2	18.9
R99-1858	19.5	20.0	20.8	22.0	18.1	22.9	19.8	20.2
R99-3326	17.7	18.4	18.1	22.2	15.9	20.3	17.1	17.9
R00-507	19.3	19.8	19.4	23.1	17.6	21.3	18.7	19.4
R00-877	19.4	20.0	19.2	22.7	17.3	22.1	18.8	19.5
S00-9970-09	18.6	20.5	18.6	23.0	16.0	21.2	17.5	18.7
S01-10091RR	18.9	19.3	18.8	20.0	16.9	20.6	18.5	18.8
S02-604CR RR	18.5	20.2	19.5	21.7	18.0	22.1	19.4	19.6
S02-611CR RR	19.3	20.5	19.3	23.3	17.3	21.4	18.8	19.4
S02-683CR RR	18.5	19.0	19.3	22.6	17.7	21.5	19.0	19.2
TN01-331-RR	19.4	20.1	19.7	24.7	17.6	21.2	18.6	19.4
TN01-340-RR	18.4	19.9	19.8	22.3	16.8	21.4	19.3	19.3
TN01-184	18.2	19.8	19.5	21.9	16.6	21.6	18.2	19.0
TN03-349	18.1	19.6	17.9	19.9	15.9	20.1	18.2	18.3
TN03-350	18.4	17.8	18.3	20.5	17.3	19.0	17.8	18.1
V99-0005	19.0	17.7	19.8	23.1	18.1	20.1	18.9	18.9
V99-0053	18.9	19.1	19.8	23.7	17.5	21.2	19.7	19.4
V99-1525	20.3	19.8	20.4	22.6	18.6	19.9	20.1	19.9
V99-1613	18.7	19.5	18.3	23.3	17.9	19.7	17.4	18.6
V00-1988	18.7	19.3	19.9	19.8	17.1	20.8	18.3	19.0

\*Data not included in mean

**TABLE 30 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2003**

STRAIN/ VARIETY	BIXBY	PLYMOUTH	PORTAGEVILLE	PROSPER*	QUEENSTOWN	STONEVILLE	WARSAW	MEAN
	OK	NC	MO(A)	TX	MD	MS	VA	
MANOKIN	39.1	39.9	40.1	40.7	42.1	39.8	40.9	40.3
5601T	42.8	41.5	42.5	37.8	44.2	42.0	42.7	42.6
AG5603 (RR)	41.3	42.9	39.7	34.0	43.3	41.5	42.4	41.9
P9594	38.9	40.6	40.2	34.0	44.1	39.6	41.4	40.8
5002T	39.7	42.1	40.5	38.2	43.1	40.7	41.9	41.3
DB00-4	40.9	41.8	41.2	42.3	43.1	41.4	41.7	41.7
DB00-56	41.6	42.3	42.8	38.0	44.0	42.7	43.1	42.8
DB00-138	42.2	43.3	40.8	36.5	44.5	42.1	41.7	42.4
DB00-170	39.3	39.6	41.4	35.2	43.2	40.5	42.3	41.1
DB00-173	39.8	41.5	41.9	33.1	42.6	40.1	42.3	41.4
JTN-5103	41.0	41.8	41.0	42.5	43.9	41.3	41.2	41.7
JTN-5203	40.9	40.9	40.4	37.5	42.5	40.6	39.0	40.7
JTN-5303	41.3	41.0	39.3	35.7	42.4	40.7	40.1	40.8
JTN-5403	39.3	41.3	39.8	35.7	42.1	39.2	39.9	40.3
JTN-5503	40.2	40.9	40.2	36.7	41.3	40.2	40.8	40.6
K1608RR	38.4	41.2	38.6	36.3	41.0	38.0	40.2	39.6
K1609RR	40.8	40.8	39.0	40.4	42.6	38.4	40.4	40.3
K1610	41.2	42.7	41.8	35.0	43.3	41.9	43.0	42.3
K1611	39.8	41.6	40.7	35.0	42.3	39.2	43.5	41.2
K1612	39.9	41.7	39.7	38.1	41.3	38.7	41.0	40.4
Md 99-0700-2 RR	40.6	41.6	42.6	39.8	42.3	42.2	43.8	42.2
Md 99-1051-2 RR	40.5	40.4	40.9	38.7	43.2	39.3	42.0	41.1
Md 99-1411-1 RR	37.7	38.6	39.1	35.1	41.8	37.4	40.1	39.1
Md 00-5159	39.9	40.9	41.0	40.2	41.7	41.0	40.8	40.9
Md 00-6015	38.7	36.5	35.8	34.5	41.0	35.0	39.0	37.7
N98-7018	36.9	38.8	38.3	31.5	42.2	36.0	40.8	38.8
N98-7056	39.4	39.5	37.7	34.1	43.5	38.7	42.0	40.1
N98-7165	38.2	40.7	39.4	36.7	43.6	38.0	42.2	40.4
Cavi ness-RR	41.6	41.4	40.5	38.5	45.3	41.7	42.4	42.2
R99-1858	40.3	40.6	40.5	38.4	43.0	36.6	41.8	40.5
R99-3326	40.2	39.6	41.2	36.3	44.0	40.0	42.6	41.3
R00-507	40.8	40.6	41.8	34.0	44.0	38.8	40.8	41.1
R00-877	40.4	42.3	41.4	38.5	45.3	39.3	42.5	41.9
S00-9970-09	40.0	40.0	41.6	33.6	42.6	41.1	41.4	41.1
S01-10091RR	41.5	39.4	41.2	43.0	41.9	40.4	40.5	40.8
S02-604CR RR	41.7	40.6	41.4	36.2	42.2	39.8	41.9	41.3
S02-611CR RR	36.8	39.1	39.9	32.6	41.4	37.7	38.6	38.9
S02-683CR RR	43.0	43.1	42.6	37.4	43.5	42.3	42.8	42.9
TN01-331-RR	42.5	41.2	43.1	31.7	45.4	40.9	44.2	42.9
TN01-340-RR	39.0	40.9	40.6	37.6	44.4	39.7	41.1	41.0
TN01-184	39.8	40.5	39.4	37.9	41.2	40.6	39.3	40.1
TN03-349	42.9	39.2	42.5	42.1	46.7	42.6	43.0	42.8
TN03-350	43.1	45.0	44.3	42.0	43.0	44.1	43.9	43.9
V99-0005	42.6	44.4	42.6	35.3	43.5	43.8	43.7	43.4
V99-0053	41.4	42.8	42.3	35.6	43.9	41.6	42.3	42.4
V99-1525	39.9	41.5	41.8	38.2	44.3	40.8	41.9	41.7
V99-1613	40.5	42.2	42.7	32.8	42.5	41.7	43.2	42.1
V00-1988	42.2	40.4	40.6	41.8	44.3	40.7	42.2	41.7

\*Data not included in mean

**TABLE 31 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2003**

STRAIN/ VARIETY	PINE		PORTAGE-		QUEENS-		STONE-		ULLIN IL	WARSAW VA	MEAN
	JACKSON TN	MCCUNE KS	TREE AR	PLYMOUTH NC	VILLE MO(A)	TOWN MD	ROHWER AR	VILLE MS			
MANOKIN	13.0	11.3	14.8	12.5	10.0	13.1	10.8	12.8	13.5	12.1	12.4
5601T	13.5	11.6	16.3	13.2	11.4	13.3	12.7	14.5	14.0	12.5	13.3
AG5603 (RR)	11.5	14.2	16.0	12.6	10.3	14.0	12.4	15.4	12.4	11.7	13.0
P9594	15.5	14.4	18.6	14.1	14.0	17.1	14.2	15.1	16.9	14.7	15.4
5002T	14.0	12.1	17.5	14.1	13.1	14.7	14.9	17.3	16.6	13.8	14.8
DB00-4	15.0	12.4	15.1	13.9	12.0	14.3	13.5	14.6	13.3	12.7	13.7
DB00-56	14.5	13.9	18.3	16.0	14.8	17.0	15.2	16.3	17.3	15.8	15.9
DB00-138	13.5	13.4	15.3	12.4	10.3	13.3	13.2	13.9	15.5	12.6	13.3
DB00-170	14.5	14.9	16.0	13.9	13.8	16.6	13.9	16.5	16.4	15.4	15.2
DB00-173	12.0	11.3	15.7	12.4	12.3	13.1	11.9	13.0	14.2	13.7	13.0
JTN-5103	11.5	11.4	15.6	11.4	9.8	11.7	11.9	12.2	12.9	11.5	12.0
JTN-5203	12.5	11.7	15.4	12.3	11.0	12.8	11.6	14.3	12.9	11.4	12.6
JTN-5303	14.5	14.1	17.6	14.8	11.5	14.2	15.2	16.9	16.5	14.3	15.0
JTN-5403	14.0	12.0	17.2	14.8	13.3	15.8	14.0	15.3	16.2	13.8	14.6
JTN-5503	13.0	12.0	16.7	13.7	12.8	15.9	14.9	15.0	15.1	14.4	14.3
K1608RR	10.5	12.2	14.9	13.5	11.3	13.4	11.1	11.6	11.5	12.3	12.2
K1609RR	11.0	13.6	14.4	12.5	10.7	14.3	11.1	12.2	12.9	12.4	12.5
K1610	12.5	12.5	15.9	15.0	11.7	15.4	14.0	14.8	14.2	12.9	13.9
K1611	12.0	11.6	15.3	13.1	11.4	12.8	11.7	12.0	13.1	11.7	12.5
K1612	12.5	12.0	16.0	11.8	11.3	12.9	10.8	12.9	12.5	11.4	12.4
Md 99-0700-2 RR	12.0	11.6	16.3	12.3	11.3	12.9	11.0	12.6	14.0	11.8	12.6
Md 99-1051-2 RR	13.0	13.0	15.4	12.5	12.9	14.0	12.4	12.3	13.1	13.8	13.2
Md 99-1411-1 RR	11.5	12.1	14.3	10.6	9.6	12.4	11.5	11.4	12.7	10.5	11.7
Md 00-5159	11.5	11.4	13.9	10.2	11.4	12.9	11.1	10.8	11.4	11.2	11.6
Md 00-6015	14.5	11.7	16.0	13.6	11.8	14.3	14.1	13.6	14.6	12.1	13.6
N98-7018	14.0	13.1	15.0	11.9	11.0	13.2	15.2	15.2	15.7	12.3	13.7
N98-7056	15.0	14.1	16.9	13.4	14.6	14.7	14.9	15.0	16.1	14.3	14.9
N98-7165	12.5	12.0	14.6	10.7	12.2	12.3	13.3	12.6	13.6	12.2	12.6
Caviness-RR	13.5	13.4	15.7	12.9	12.0	13.0	12.9	15.5	15.0	12.8	13.7
R99-1858	12.0	13.0	15.3	11.9	14.0	14.4	14.0	13.1	14.8	13.2	13.6
R99-3326	11.5	12.4	15.1	11.2	11.9	12.3	11.7	12.7	13.6	11.6	12.4
R00-507	12.5	14.3	15.8	10.9	12.4	14.4	13.0	10.9	14.7	13.2	13.2
R00-877	14.0	13.0	16.3	12.7	10.8	13.6	12.5	12.4	12.3	13.2	13.1
S00-9970-09	12.5	13.9	16.3	14.0	14.3	14.6	13.4	15.0	14.6	13.5	14.2
S01-10091RR	13.0	13.6	15.1	12.7	11.7	13.6	11.7	12.0	12.4	12.5	12.8
S02-604CR RR	14.0	13.9	16.4	12.4	13.9	14.9	13.6	12.1	15.5	14.1	14.1
S02-611CR RR	12.0	13.4	15.6	11.5	12.4	12.9	13.2	13.0	13.3	12.1	12.9
S02-683CR RR	15.5	14.6	18.7	14.8	15.5	17.0	14.5	14.8	15.1	16.0	15.6
TN01-331-RR	13.5	12.2	15.2	11.4	11.0	12.5	11.8	12.1	11.9	11.2	12.3
TN01-340-RR	13.0	14.2	16.3	12.5	10.5	13.0	12.3	14.5	16.2	12.7	13.5
TN01-184	13.5	14.7	15.1	11.6	11.3	12.4	12.7	18.7	14.3	11.7	13.6
TN03-349	19.5	18.9	22.2	19.2	20.5	19.8	21.6	19.7	21.7	18.8	20.2
TN03-350	13.5	14.1	16.8	13.7	12.3	15.3	15.4	13.2	14.4	13.7	14.2
V99-0005	11.0	12.2	16.5	14.0	11.2	12.7	12.0	11.4	12.3	11.2	12.4
V99-0053	13.0	12.6	16.1	14.1	13.6	16.3	13.0	14.2	14.9	13.7	14.1
V99-1525	14.5	12.9	17.9	15.2	13.4	16.4	13.9	17.4	16.7	13.7	15.2
V99-1613	13.5	14.2	14.2	14.2	12.4	13.5	13.8	14.5	13.7	12.3	13.6
V00-1988	14.5	13.7	16.5	13.6	13.0	14.2	15.7	14.9	16.0	13.4	14.5



TABLE 32 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2003

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	MCCUNE KS	PINE TREE AR	PORTAGE- VILLE MO(A)	PROSPER* TX	QUEENS- TOWN MD	ROHWER AR	STONE- VILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	28	31	34	29	30	16	18	26	24	36	31	29
5601T	26	31	35	36	34	13	22	30	24	39	32	31
AG5603 (RR)	25	26	31	34	35	12	23	30	18	36	32	29
P9594	30	33	37	36	36	22	23	35	30	40	35	33
5002T	24	27	31	30	25	15	17	20	16	32	29	25
DB00-4	27	33	37	34	36	16	16	29	28	37	32	31
DB00-56	23	22	27	24	30	12	18	25	18	31	26	24
DB00-138	27	28	34	41	32	18	12	33	24	36	26	29
DB00-170	27	29	33	35	37	20	18	28	24	39	33	30
DB00-173	26	31	34	34	36	18	14	35	30	39	33	31
JTN-5103	25	27	29	30	34	11	19	25	20	33	30	27
JTN-5203	26	25	28	31	27	13	16	24	16	34	29	25
JTN-5303	31	27	30	29	33	13	11	26	22	36	30	27
JTN-5403	28	35	34	29	36	15	20	30	24	40	32	31
JTN-5503	25	31	32	27	36	16	22	26	24	38	34	29
K1608RR	30	21	29	30	29	13	19	23	22	33	29	26
K1609RR	26	25	29	24	32	16	22	25	24	36	31	27
K1610	21	19	25	23	29	14	17	24	18	33	27	23
K1611	25	21	27	29	30	15	19	23	24	34	27	26
K1612	25	27	30	34	30	14	17	23	20	31	30	27
Md 99-0700-2 RR	25	21	31	28	33	18	17	24	20	38	27	26
Md 99-1051-2 RR	30	35	29	33	43	36	28	42	50	41	42	37
Md 99-1411-1 RR	23	25	27	33	34	14	23	26	18	35	27	27
Md 00-5159	23	24	32	32	30	16	19	27	22	34	29	27
Md 00-6015	20	20	26	27	28	13	18	21	12	29	24	22
N98-7018	23	22	28	28	32	17	19	28	18	36	28	26
N98-7056	28	27	33	36	37	23	26	34	24	36	37	32
N98-7165	25	26	30	31	38	18	19	31	24	41	31	29
Caviness-RR	29	30	34	35	39	19	16	29	26	38	32	31
R99-1858	27	25	29	33	36	18	22	32	28	35	34	30
R99-3326	26	29	32	33	36	17	14	29	24	40	28	29
R00-507	26	26	32	30	35	18	23	23	30	36	30	29
R00-877	25	27	31	29	37	21	27	30	30	36	31	30
S00-9970-09	27	27	31	35	35	15	19	25	22	38	31	29
S01-10091RR	23	28	27	37	36	14	14	25	24	34	26	27
S02-604CR RR	36	38	36	40	43	27	26	42	42	47	37	39
S02-611CR RR	32	33	33	33	32	17	22	30	32	38	38	32
S02-683CR RR	35	36	31	37	44	25	32	43	36	45	40	38
TN01-331-RR	25	22	29	31	33	14	19	28	24	35	31	28
TN01-340-RR	25	28	31	35	35	17	17	34	24	37	32	30
TN01-184	23	22	30	31	37	11	18	22	18	35	27	26
TN03-349	23	24	29	34	35	16	20	22	22	36	28	27
TN03-350	22	22	25	29	33	16	19	24	16	33	26	25
V99-0005	31	33	30	30	43	30	26	42	48	41	34	36
V99-0053	34	39	33	40	46	29	33	42	50	43	40	40
V99-1525	24	27	32	33	34	14	19	27	18	37	29	28
V99-1613	23	23	32	30	30	11	12	23	12	36	25	25
V00-1988	22	22	30	37	34	20	14	25	22	37	30	27

\*Data not included in mean

**TABLE 33 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2003**

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	MCCUNE KS	PINE		PORTAGE- VILLE MO(A)	QUEENS- TOWN MD	ROHWER AR	STONE-		ULLIN IL	WARSAW VA	MEAN
				TREE AR	PLYMOUTH NC				VILLE MS				
MANOKIN	1.0	1.0	2.0	.	3.8	2.5	3.0	1.0	2.0	2.0	3.4	2.2	
5601T	1.0	1.0	1.5	.	3.0	1.5	1.8	1.0	2.0	2.0	2.3	1.7	
AG5603 (RR)	1.0	1.0	1.0	.	3.0	1.0	2.5	1.0	2.0	1.0	1.8	1.5	
P9594	1.5	1.5	3.0	.	3.5	2.0	2.8	1.0	2.0	2.0	2.7	2.2	
5002T	1.0	1.0	1.5	1.5	3.3	1.0	2.3	1.0	2.0	2.0	3.4	1.8	
DB00-4	1.0	1.0	2.5	2.5	3.5	1.0	2.5	1.7	2.0	4.0	3.4	2.3	
DB00-56	1.0	1.0	1.0	.	3.8	1.0	2.5	1.0	2.0	1.0	2.5	1.7	
DB00-138	.	1.0	1.0	2.0	3.8	1.0	1.8	1.0	2.0	2.5	1.8	1.8	
DB00-170	1.0	1.0	1.0	.	3.0	1.0	2.3	1.0	2.0	1.0	2.2	1.5	
DB00-173	1.0	1.0	1.5	3.5	4.0	3.0	2.3	1.0	2.0	4.0	2.9	2.4	
JTN-5103	1.0	1.0	1.0	3.0	3.3	1.0	1.8	1.0	2.0	2.5	2.4	1.8	
JTN-5203	1.0	1.0	1.0	.	3.0	1.0	1.5	1.0	2.0	3.0	2.2	1.7	
JTN-5303	1.0	1.0	1.0	2.5	3.3	1.0	1.5	1.0	2.0	3.5	3.3	1.9	
JTN-5403	1.5	2.0	1.5	2.0	3.5	1.5	2.3	1.0	2.0	2.0	3.4	2.1	
JTN-5503	2.0	1.5	1.0	3.5	3.0	1.5	3.0	1.0	2.0	3.0	3.5	2.3	
K1608RR	1.0	1.0	1.0	.	3.0	1.0	1.8	1.0	2.0	1.0	1.9	1.5	
K1609RR	.	1.0	1.0	.	3.3	1.0	2.0	1.0	2.0	1.0	2.0	1.6	
K1610	.	1.0	1.0	.	3.5	1.0	1.3	1.0	2.0	1.0	2.0	1.5	
K1611	1.0	1.0	1.0	.	3.0	1.0	2.0	1.0	2.0	1.0	2.0	1.5	
K1612	1.5	1.0	1.0	2.0	3.0	1.5	1.5	1.0	2.0	2.0	2.6	1.7	
Md 99-0700-2 RR	1.0	1.0	1.0	.	3.8	1.0	2.0	1.0	2.0	1.5	1.9	1.6	
Md 99-1051-2 RR	1.0	2.0	1.0	.	4.0	3.0	3.0	1.7	5.0	1.0	2.9	2.5	
Md 99-1411-1 RR	1.0	1.0	1.0	.	2.8	1.0	1.8	1.0	2.0	1.0	2.1	1.5	
Md 00-5159	1.0	1.0	1.0	.	3.3	1.0	2.0	1.0	2.0	3.0	2.4	1.8	
Md 00-6015	.	1.0	1.0	.	3.5	1.5	2.3	1.0	2.0	1.0	1.9	1.7	
N98-7018	1.0	1.0	1.0	.	2.8	1.5	1.8	1.0	2.0	2.5	2.5	1.7	
N98-7056	1.5	1.0	1.0	.	3.5	2.0	3.0	1.0	2.0	2.5	2.9	2.0	
N98-7165	1.0	1.0	1.0	3.0	3.0	1.0	2.3	1.0	2.0	2.0	2.0	1.8	
Cavi ness-RR	1.0	1.0	1.0	2.5	3.0	1.0	1.3	1.0	2.0	3.0	2.3	1.7	
R99-1858	1.0	1.5	1.0	.	3.5	2.0	2.5	1.3	2.0	3.5	2.8	2.1	
R99-3326	1.0	1.0	1.0	.	3.3	2.0	1.5	1.0	2.0	3.5	2.5	1.9	
R00-507	1.0	1.0	1.0	.	3.0	1.5	2.8	1.0	2.0	1.5	2.2	1.7	
R00-877	1.0	1.0	1.0	.	4.0	2.0	3.5	1.0	2.0	4.0	3.0	2.3	
S00-9970-09	1.0	1.0	1.0	2.0	3.0	1.0	1.8	1.0	2.0	3.5	2.5	1.8	
S01-10091RR	1.0	1.0	1.0	2.5	2.8	1.0	1.0	1.0	2.0	1.5	1.7	1.5	
S02-604CR RR	1.5	1.0	1.0	3.0	3.5	3.0	2.5	2.0	4.0	3.5	2.3	2.5	
S02-611CR RR	2.5	1.0	1.5	3.5	3.5	2.0	2.8	1.0	2.0	3.5	3.3	2.4	
S02-683CR RR	2.0	1.0	1.0	.	3.3	2.0	3.0	1.0	2.0	2.5	3.0	2.1	
TN01-331-RR	1.0	1.0	1.0	3.0	3.5	1.0	2.3	1.0	3.0	2.0	2.4	1.9	
TN01-340-RR	1.0	1.0	1.0	.	3.5	1.0	2.0	1.0	2.0	2.5	2.4	1.7	
TN01-184	1.0	1.0	1.0	.	3.0	1.0	1.8	1.0	2.0	1.0	2.3	1.5	
TN03-349	1.0	2.0	1.0	1.5	3.5	2.0	2.8	1.0	2.0	1.0	2.4	1.8	
TN03-350	1.0	1.0	1.0	.	3.0	1.0	2.0	1.0	2.0	1.0	2.0	1.5	
V99-0005	1.0	2.0	1.0	.	3.5	1.5	2.8	1.3	3.0	1.5	2.3	2.0	
V99-0053	2.0	2.0	1.0	.	4.0	2.0	3.3	2.3	3.0	2.0	3.3	2.5	
V99-1525	1.0	1.0	1.0	.	3.5	1.0	1.8	1.0	2.0	1.5	3.3	1.7	
V99-1613	.	1.0	1.0	.	3.0	1.0	1.3	1.0	2.0	1.5	2.0	1.5	
V00-1988	.	1.0	1.0	2.5	2.5	1.0	1.5	1.0	2.0	1.0	2.1	1.6	

TABLE 34 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2003

STRAIN/ VARIETY	JACKSON	MCCUNE	PINE		PORTAGE-	QUEENS-	STONE-			WARSAW	MEAN
	TN	KS	TREE AR	PLYMOUTH NC	VILLE MO(A)	TOWN MD	ROHWER AR	VILLE MS	ULLIN IL		
MANOKIN	2.5	2.0	1.0	1.5	3.0	1.0	2.0	2.0	1.0	1.2	1.7
5601T	1.8	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.5	1.6
AG5603 (RR)	1.8	2.0	1.0	1.0	2.0	1.0	1.5	2.0	1.0	1.2	1.4
P9594	1.5	2.0	1.0	1.0	2.0	1.0	2.5	2.0	1.0	1.5	1.6
5002T	2.0	2.0	1.3	1.0	2.0	1.0	2.0	2.0	1.0	1.2	1.5
DB00-4	2.3	2.0	1.0	2.0	2.0	1.0	2.0	2.0	1.0	1.5	1.7
DB00-56	2.3	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.2	1.5
DB00-138	2.0	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.4	1.6
DB00-170	2.5	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	2.1	1.7
DB00-173	2.3	2.0	1.0	2.0	2.0	1.0	1.5	2.0	1.0	1.5	1.6
JTN-5103	1.8	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.2	1.5
JTN-5203	2.0	2.0	1.3	1.5	2.0	1.0	1.5	2.0	1.0	1.5	1.6
JTN-5303	2.5	2.0	1.3	1.5	3.0	1.0	1.5	2.0	1.0	1.7	1.7
JTN-5403	2.5	2.0	1.0	1.0	3.0	1.0	1.5	2.0	1.0	1.2	1.6
JTN-5503	2.3	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.5	1.6
K1608RR	2.3	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.2	1.5
K1609RR	2.3	2.0	0.6	1.5	2.0	1.0	2.0	2.0	1.0	1.4	1.6
K1610	2.5	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.2	1.6
K1611	2.8	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.5	1.7
K1612	2.3	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.7	1.6
Md 99-0700-2 RR	2.3	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.5	1.6
Md 99-1051-2 RR	1.5	2.0	0.8	1.5	2.0	1.0	2.0	2.0	1.0	1.2	1.5
Md 99-1411-1 RR	2.0	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.4	1.6
Md 00-5159	1.8	2.0	0.8	1.5	3.0	1.0	1.5	2.0	1.0	1.4	1.6
Md 00-6015	2.5	2.0	1.0	1.0	2.0	1.0	1.5	2.0	1.0	1.4	1.5
N98-7018	2.3	2.0	1.5	1.0	2.0	1.0	2.0	2.0	1.0	1.2	1.6
N98-7056	2.0	2.0	1.3	1.0	2.0	1.0	1.5	2.0	1.0	1.4	1.5
N98-7165	2.3	2.0	1.0	1.5	3.0	1.0	1.5	2.0	1.0	1.7	1.7
Cavi ness-RR	2.0	2.0	1.0	2.0	2.0	1.0	1.5	2.0	1.0	1.5	1.6
R99-1858	2.0	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.5	1.6
R99-3326	1.8	2.0	1.0	2.0	3.0	1.0	2.0	2.0	1.0	1.9	1.8
R00-507	2.0	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.4	1.5
R00-877	2.5	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.5	1.7
S00-9970-09	2.5	2.0	1.0	1.5	3.0	1.0	2.0	2.0	1.0	1.8	1.8
S01-10091RR	2.5	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.4	1.6
S02-604CR RR	3.0	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.4	1.7
S02-611CR RR	3.0	2.0	1.5	2.0	3.0	1.0	2.0	2.0	1.0	1.9	1.9
S02-683CR RR	2.0	2.0	1.0	1.5	3.0	1.0	2.0	2.0	1.0	1.1	1.7
TN01-331-RR	2.0	2.0	1.0	1.5	3.0	1.0	1.5	2.0	1.0	1.4	1.6
TN01-340-RR	1.8	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.1	1.5
TN01-184	2.0	2.0	0.8	1.5	3.0	1.0	2.5	2.0	1.0	1.5	1.7
TN03-349	2.5	2.0	1.3	1.5	2.0	1.0	1.5	2.0	1.0	1.0	1.6
TN03-350	2.3	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.7	1.6
V99-0005	3.0	2.0	1.3	1.5	2.0	1.0	2.0	2.0	1.0	1.2	1.7
V99-0053	2.3	2.0	1.0	1.5	2.0	1.0	2.5	2.0	1.0	1.4	1.7
V99-1525	2.3	2.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	1.4	1.6
V99-1613	2.3	3.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.2	1.6
V00-1988	2.0	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.8	1.6

## **UNIFORM GROUP VI**

**2003**

**Uniform Group VI nurseries were planted at 19 locations. Data were obtained from 17 of these locations. The parentage for each strain is reported in Table 35. Table 36 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 37 - 42.**

**TABLE 35 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2003**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. DILLON	Centennial × Young	
2. BOGGS	G81-152 × Coker 6738	
3. NC-ROY	Holladay × Brim	
4. N96-6755	N90-7202 × N7001	F4
5. N97-9812	N7001 × N91-7254	F4
6. R96-1559	A6297 × A5403	
7. R97-1053	P9592 × NK S59-60	
8. R97-1801	Manokin × A6297	
9. R98-209	A6297 × Clifford	
10. R99-1888	MD92-5769 × P9641	
11. SC97-1770	NK'S S83-30 × (Hutcheson × D87-4429)	
12. SC00-1741	DILLON × N94-199	
13. VS20-394	[PI 159319×Essex (2)]×[L76-0132×Essex (2)]	F6
14. VS20-402	[PI 159319×Essex (2)]×[L76-0132×Essex (2)]	F6
15. VS20-405	[PI 96089×Essex (2)]×[L76-0132×Essex (2)]	F6
16. VS20-406	[PI 96089×Essex (2)]×[L76-0132×Essex (2)]	F6
17. VS20-412	[PI 159319×Essex (2)]×[PI 96089×Essex (2)]	F6

**TABLE 36 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN  
IN UNIFORM GROUP VI, 2003**

STRAIN/ VARIETY	RANK	AVERAGE RANK	YIELD*			PROTEIN			OIL		
			2003	02-03	01-03	2003	02-03	01-03	2003	02-03	01-03
DILLON	4	7	46.9	43.3	44.2	41.8	42.2	41.5	19.4	19.6	19.9
BOGGS	8	8	45.1	41.4	43.2	42.8	42.2	41.5	19.4	19.6	19.9
NC-ROY	2	5	48.0	44.2	.	43.0	42.3	.	18.6	18.8	.
N96-6755	9	9	44.9	41.3	.	41.2	40.9	.	19.5	19.9	.
N97-9812	13	11	41.9	39.2	40.5	40.0	39.4	39.0	20.2	20.8	21.2
R96-1559	3	6	47.0	43.2	44.6	40.2	40.4	40.2	19.3	19.6	19.9
R97-1053	12	11	42.8	39.7	42.3	41.5	41.8	41.2	19.4	20.0	20.2
R97-1801	7	7	46.0	42.4	44.0	39.6	39.5	39.1	19.8	20.6	20.8
R98-209	1	5	48.2	.	.	40.9	.	.	19.4	.	.
R99-1888	6	7	46.4	.	.	39.1	.	.	20.4	.	.
SC97-1770	5	6	46.6	43.4	44.4	41.6	41.2	40.8	19.0	19.2	19.5
SC00-1741	11	9	43.7	.	.	43.3	.	.	19.6	.	.
VS20-394	10	7	44.7	.	.	41.4	.	.	19.2	.	.
VS20-402	15	13	38.7	.	.	43.5	.	.	18.9	.	.
VS20-405	16	14	38.2	.	.	44.1	.	.	18.7	.	.
VS20-406	14	13	39.3	.	.	42.5	.	.	18.6	.	.
VS20-412	17	13	38.0	.	.	43.8	.	.	18.9	.	.

\*Data not included in mean: **2003 - Rohwer, AR; Tallassee, AL**  
**2002 - Belle Mina, AL; Tallassee, AL**  
**2001 - Florence, SC; Tifton, GA**

TABLE 36 ~ Continued

BOTANICAL TRAITS								
STRAIN/ VARIETY	MAT. INDEX	LOGGING	HEIGHT	SEED QUALITY	SEED SIZE	FL COLOR	PUB. COLOR	POD COLOR
DILLON	10/13	1.6	33	1.6	14.6	P	G	T
BOGGS	3+	2.1	30	1.7	13.2	W	T	T
NC-ROY	5+	2.1	31	1.7	13.2	W	G	Br
N96-6755	1+	1.6	29	1.8	14.5	P	G	
N97-9812	5+	2.3	29	1.9	13.8	P	G	
R96-1559	3+	1.4	31	2.3	12.7	P	G	
R97-1053	0	1.6	32	1.8	14.3	W	T	
R97-1801	1+	1.5	27	1.8	12.3	W	G	
R98-209	3+	1.6	33	2.1	14.2	P	G	
R99-1888	1+	1.7	28	2.2	16.0	P	G	
SC97-1770	7+	2.0	34	1.7	13.3	P	G	T
SC00-1741	9+	1.6	35	1.6	14.6	P	G	T
VS20-394	6+	1.7	33	2.0	15.1	P	T	
VS20-402	6+	2.0	31	1.7	11.6	W	G	
VS20-405	6+	1.9	30	1.7	11.6	W	G	
VS20-406	1-	1.8	30	2.1	12.6	P	G	
VS20-412	6+	2.1	31	1.7	11.5	W	G	





**TABLE 37 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY  
GROWN IN UNIFORM GROUP VI, 2003**

STRAIN/ VARIETY	EAST				MEAN
	FLORENCE SC	PETERSBURG VA	PLYMOUTH NC	WARSAW VA	
DILLON	35.7	59.1	35.8	55.0	46.4
BOGGS	33.4	54.9	37.2	52.1	44.4
NC-ROY	39.7	60.0	39.8	52.7	48.1
N96-6755	32.0	60.9	32.5	52.2	44.4
N97-9812	31.5	51.6	28.4	43.2	38.7
R96-1559	33.6	53.6	32.6	50.5	42.6
R97-1053	28.1	48.2	33.5	48.7	39.6
R97-1801	33.9	57.3	28.8	53.6	43.4
R98-209	29.6	69.0	36.7	52.0	46.8
R99-1888	32.6	52.4	32.0	51.6	42.2
SC97-1770	33.2	62.9	37.4	51.5	46.2
SC00-1741	29.8	50.9	34.8	47.8	40.8
VS20-394	37.3	56.8	34.3	53.0	45.3
VS20-402	30.9	46.3	22.6	47.5	36.8
VS20-405	30.8	43.8	24.6	49.0	37.0
VS20-406	22.0	50.4	27.4	54.1	38.5
VS20-412	29.9	49.2	22.7	45.9	36.9
L. S. D. (0.05)	4.4	5.2	5.7	5.1	.
C. V. (%)	8.2	5.8	10.8	6.1	.

TABLE 37 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACK- VILLE SC(A)	CALHOUN GA	FAIR- HOPE AL	STARK- VILLE MS	SUFFOLK VA	TALLASSEE*	TIFTON GA	MEAN
DILLON	44.4	37.5	51.3	41.0	51.1	43.4	45.9	49.8	50.6	45.7
BOGGS	54.3	39.0	43.0	33.0	54.3	45.9	45.9	53.6	34.9	43.8
NC-ROY	49.3	47.8	51.2	40.9	50.6	24.3	38.6	55.6	56.9	44.9
N96-6755	49.0	36.0	44.8	53.0	49.9	26.5	33.4	54.2	58.2	43.8
N97-9812	47.6	40.9	46.5	40.6	52.7	26.2	29.2	49.9	39.9	40.4
R96-1559	52.3	43.3	48.7	43.7	50.3	43.9	47.2	44.7	39.7	46.1
R97-1053	52.3	32.4	44.6	38.6	52.9	29.9	42.7	52.3	44.7	42.3
R97-1801	49.0	34.8	47.2	45.9	56.1	39.7	47.9	45.5	49.1	46.2
R98-209	54.1	38.1	50.0	46.4	55.9	34.2	40.7	50.6	59.4	47.4
R99-1888	48.0	39.1	46.2	44.7	48.9	45.1	47.8	44.3	42.7	45.3
SC97-1770	53.6	45.1	46.3	46.4	54.9	41.4	46.0	54.4	55.1	48.6
SC00-1741	46.7	44.5	50.2	43.7	48.6	20.5	40.8	44.5	55.3	43.8
VS20-394	58.3	39.0	50.7	45.9	51.2	35.4	46.2	59.7	39.4	45.8
VS20-402	46.7	36.0	46.6	39.3	49.5	16.7	41.2	41.5	38.6	39.3
VS20-405	46.2	33.6	46.6	35.5	49.7	12.4	40.1	47.8	39.3	37.9
VS20-406	46.0	34.5	27.5	36.2	47.9	28.3	37.3	36.2	46.3	38.0
VS20-412	42.2	37.5	49.7	35.2	49.5	11.2	32.0	47.8	41.5	37.4
L. S. D. (0.05)	5.9	6.5	6.0	9.4	6.5	7.8	12.0	16.7	10.0	.
C. V. (%)	7.2	10.1	7.8	13.5	7.6	15.2	16.9	20.5	12.9	.

\*Data not included in mean

TABLE 37 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PINE TREE AR	ROHWER* AR	STONEVILLE MS	
DILLON	48.8	55.6	69.1	59.0
BOGGS	41.5	42.4	55.6	48.6
NC-ROY	49.2	58.0	47.6	48.4
N96-6755	44.2	48.1	66.0	55.1
N97-9812	49.2	49.1	57.8	53.5
R96-1559	44.7	54.6	68.8	56.8
R97-1053	50.2	43.9	60.2	55.2
R97-1801	46.5	49.3	67.4	56.9
R98-209	51.8	58.7	65.5	58.7
R99-1888	49.2	50.2	64.2	56.7
SC97-1770	49.0	55.6	40.2	44.6
SC00-1741	44.5	57.7	46.2	45.4
VS20-394	33.1	39.5	50.7	41.9
VS20-402	35.1	32.6	38.6	36.9
VS20-405	36.1	37.5	36.2	36.1
VS20-406	38.1	45.7	53.1	45.6
VS20-412	34.4	32.7	37.5	36.0
L. S. D. (0.05)	7.5	15.8	9.2	.
C. V. (%)	10.2	20.0	10.2	.

\*Data not included in mean

TABLE 37 ~ Continued

STRAIN/ VARIETY	WEST			MEAN
	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	
DILLON	36.5	42.7	48.6	42.6
BOGGS	46.3	45.3	49.7	47.1
NC-ROY	59.8	49.0	59.1	56.0
N96-6755	31.8	39.5	53.3	41.5
N97-9812	34.1	41.6	51.5	42.4
R96-1559	41.3	45.2	59.8	48.8
R97-1053	35.7	41.8	43.1	40.2
R97-1801	36.8	41.2	45.9	41.3
R98-209	37.5	45.4	53.2	45.4
R99-1888	45.0	46.3	53.1	48.1
SC97-1770	34.5	43.3	51.7	43.2
SC00-1741	40.8	43.1	55.0	46.3
VS20-394	32.3	42.8	53.2	42.8
VS20-402	36.5	39.4	46.1	40.7
VS20-405	35.5	40.1	49.3	41.6
VS20-406	45.3	33.9	39.6	39.6
VS20-412	37.1	37.3	53.4	42.6
L. S. D. (0.05)	10.2	5.4	9.8	.
C. V. (%)	15.6	7.7	11.5	.

TABLE 38 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2003

## OIL PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	BLACKVILLE SC(A)	CALHOUN GA	FAIRHOPE AL	FLORENCE SC	PETERSBURG VA	PLYMOUTH NC	ROHWER* AR	STONEVILLE MS	SUFFOLK VA	TALLASSEE* AL	TIFTON GA	WARSAW VA	MEAN
DI LLON	19.4	18.3	.	.	19.2	.	.	20.1	.	20.5	.	19.7	.	18.6	19.4
BOGGS	19.5	19.0	.	.	19.9	.	.	19.9	.	20.7	.	20.2	.	17.4	19.4
NC-ROY	18.9	18.1	.	.	18.7	.	.	18.7	.	19.5	.	19.0	.	17.4	18.6
N96-6755	19.9	18.6	.	.	19.4	.	.	19.2	.	21.3	.	20.8	.	18.5	19.5
N97-9812	20.4	19.9	.	.	20.3	.	.	19.9	.	21.8	.	22.7	.	18.7	20.2
R96-1559	19.6	18.9	.	.	19.7	.	.	19.8	.	20.1	.	20.5	.	17.8	19.3
R97-1053	19.1	18.1	.	.	20.4	.	.	19.0	.	21.2	.	21.2	.	18.4	19.4
R97-1801	19.7	19.1	.	.	20.4	.	.	20.2	.	20.9	.	21.9	.	18.4	19.8
R98-209	19.6	18.8	.	.	19.8	.	.	19.1	.	20.8	.	19.8	.	18.4	19.4
R99-1888	21.0	19.0	.	.	20.9	.	.	20.5	.	21.6	.	21.5	.	19.1	20.4
SC97-1770	19.1	18.3	.	.	19.5	.	.	19.1	.	19.9	.	19.7	.	18.0	19.0
SC00-1741	19.8	19.3	.	.	19.3	.	.	20.6	.	20.0	.	19.8	.	18.8	19.6
VS20-394	19.7	18.7	.	.	19.0	.	.	19.5	.	20.0	.	19.8	.	18.5	19.2
VS20-402	18.9	18.9	.	.	19.0	.	.	18.6	.	20.2	.	19.2	.	17.6	18.9
VS20-405	18.9	18.6	.	.	18.9	.	.	18.8	.	19.9	.	19.7	.	17.3	18.7
VS20-406	19.5	17.8	.	.	18.5	.	.	18.6	.	19.6	.	19.5	.	17.8	18.6
VS20-412	19.1	18.6	.	.	18.9	.	.	19.1	.	20.5	.	19.6	.	17.4	18.9

\*Data not included in mean

TABLE 38 ~ Continued

## PROTEIN PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	BLACKVILLE SC(A)	CALHOUN GA	FAIRHOPE AL	FLORENCE SC	PETERSBURG VA	PLYMOUTH NC	ROHWER* AR	STONEVILLE MS	SUFFOLK VA	TALLASSEE* AL	TIFTON GA	WARSAW VA	MEAN
DILLON	41.9	40.9	.	.	45.8	.	.	39.4	.	41.0	.	43.8	.	42.0	41.8
BOGGS	43.8	39.0	.	.	44.4	.	.	42.8	.	42.9	.	44.8	.	44.0	42.8
NC-ROY	43.0	41.6	.	.	46.3	.	.	40.2	.	41.6	.	44.4	.	45.2	43.0
N96-6755	41.3	40.0	.	.	43.2	.	.	41.5	.	38.7	.	43.2	.	42.4	41.2
N97-9812	40.2	37.3	.	.	42.5	.	.	40.1	.	38.5	.	39.8	.	41.1	40.0
R96-1559	40.7	38.6	.	.	42.7	.	.	38.1	.	39.0	.	42.3	.	42.1	40.2
R97-1053	41.4	39.7	.	.	45.0	.	.	40.3	.	39.6	.	41.7	.	42.7	41.5
R97-1801	39.9	37.9	.	.	41.5	.	.	36.6	.	39.4	.	41.6	.	42.1	39.6
R98-209	41.3	40.3	.	.	43.0	.	.	39.7	.	38.2	.	42.3	.	42.9	40.9
R99-1888	39.0	38.1	.	.	41.8	.	.	37.7	.	36.6	.	40.1	.	41.5	39.1
SC97-1770	41.9	38.8	.	.	43.4	.	.	40.9	.	41.4	.	43.5	.	43.2	41.6
SC00-1741	43.9	41.8	.	.	46.9	.	.	39.2	.	43.4	.	44.6	.	44.8	43.3
VS20-394	41.8	39.9	.	.	43.1	.	.	39.7	.	42.1	.	43.3	.	41.9	41.4
VS20-402	44.7	40.4	.	.	44.8	.	.	43.1	.	42.3	.	44.7	.	45.6	43.5
VS20-405	43.5	41.4	.	.	47.4	.	.	43.4	.	42.5	.	45.0	.	46.4	44.1
VS20-406	42.2	40.7	.	.	44.6	.	.	41.2	.	41.5	.	44.3	.	45.0	42.5
VS20-412	43.2	40.9	.	.	48.1	.	.	43.2	.	41.4	.	44.3	.	45.9	43.8

\*Data not included in mean

TABLE 38 ~ Continued

## GRAMS PER 100 SEED

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	BLACKVILLE SC(A)	CALHOUN GA	FAIRHOPE AL	FLORENCE SC	PETERSBURG VA	PLYMOUTH NC	ROHWER* AR	STONEVILLE MS	SUFFOLK VA	TALLASSEE* AL	TIFTON GA	WARSAW VA	MEAN
DILLON	13.8	.	15.9	13.1	16.5	16.3	14.7	12.5	15.2	13.0	14.2	14.4	17.6	13.6	14.6
BOGGS	13.2	.	15.0	12.7	15.3	13.5	13.0	13.7	11.2	10.9	12.1	13.2	14.0	12.0	13.2
NC-ROY	12.2	.	13.8	11.6	14.8	14.8	13.0	12.2	12.9	11.3	12.5	13.6	17.5	11.7	13.2
N96-6755	14.1	.	16.4	12.9	16.7	14.6	14.3	13.8	14.4	14.5	13.9	15.7	16.4	12.3	14.5
N97-9812	12.6	.	14.7	11.4	17.0	15.5	14.0	12.4	13.3	12.1	11.9	14.6	18.2	12.0	13.8
R96-1559	12.0	.	15.3	10.8	15.2	15.1	12.0	10.7	17.8	11.5	11.5	13.1	14.1	11.9	12.7
R97-1053	14.9	.	17.4	11.9	17.0	16.0	13.7	12.2	13.8	12.3	14.0	14.2	15.4	12.6	14.3
R97-1801	11.9	.	13.7	9.8	15.1	13.4	12.0	9.9	12.0	12.1	12.1	11.9	13.9	11.0	12.3
R98-209	13.0	.	16.3	12.4	16.7	16.8	13.7	12.6	14.9	11.6	13.3	14.7	17.1	12.8	14.2
R99-1888	15.0	.	18.9	13.8	20.5	18.0	14.7	13.6	16.5	14.0	14.1	17.3	18.4	14.6	16.0
SC97-1770	13.6	.	14.7	12.1	15.6	13.2	13.7	12.3	13.1	11.9	12.7	13.8	15.2	11.9	13.3
SC00-1741	14.5	.	14.6	14.1	15.5	16.2	15.0	11.5	13.7	13.8	14.7	14.5	16.7	13.9	14.6
VS20-394	15.8	.	16.3	13.4	17.1	15.7	14.3	14.1	12.4	12.4	15.3	14.4	18.0	14.1	15.1
VS20-402	12.0	.	14.0	10.3	15.1	12.0	10.0	8.9	9.6	10.2	10.6	12.4	13.6	10.8	11.6
VS20-405	11.7	.	14.0	10.0	14.9	12.0	10.0	10.0	9.4	10.1	10.9	12.3	13.4	10.9	11.6
VS20-406	11.7	.	14.0	10.6	15.1	13.1	11.7	11.2	11.6	11.4	11.6	12.7	16.2	11.8	12.6
VS20-412	12.0	.	13.6	9.5	15.1	11.7	10.7	10.0	8.9	9.6	10.1	13.0	13.2	10.6	11.5

\*Data not included in mean

**TABLE 39 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN DILLON, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2003**

**EAST**

STRAIN/ VARIETY	FLORENCE SC	PETERSBURG VA	PLYMOUTH NC	WARSAW VA	MEAN
DILLON	10/20	10/24	10/17	10/17	10/19
BOGGS	1	-5	6	8	3
NC-ROY	5	5	6	5	6
N96-6755	0	-5	4	0	0
N97-9812	1	1	6	7	4
R96-1559	0	1	0	5	2
R97-1053	-1	-6	0	-1	-1
R97-1801	0	-5	-1	4	0
R98-209	1	-5	3	5	1
R99-1888	0	5	-1	0	2
SC97-1770	2	10	6	7	7
SC00-1741	9	5	7	9	8
VS20-394	3	1	6	7	5
VS20-402	1	10	6	7	6
VS20-405	0	10	6	7	6
VS20-406	-6	-5	0	1	-2
VS20-412	1	10	6	7	7



TABLE 39 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACK- VILLE SC(A)	CALHOUN GA	FAIR- HOPE AL	STARK- VILLE MS	SUFFOLK VA	TALLASSEE* AL	TIFTON GA	MEAN
DILLON	10/01	10/10	10/20	10/04	10/09	.	10/23	09/30	09/30	10/10
BOGGS	10	4	5	5	10	.	5	8	-2	5
NC-ROY	9	9	2	11	0	.	5	13	5	5
N96-6755	3	0	2	4	2	.	2	1	7	2
N97-9812	10	7	3	7	6	.	7	11	9	7
R96-1559	8	6	4	-1	4	.	5	0	5	4
R97-1053	2	0	7	-3	3	.	0	5	3	1
R97-1801	6	4	-1	-2	7	.	0	3	2	2
R98-209	9	10	3	3	7	.	5	7	4	5
R99-1888	1	0	3	0	0	.	0	3	6	1
SC97-1770	11	10	5	11	8	.	7	14	8	8
SC00-1741	14	14	6	14	9	.	12	14	10	11
VS20-394	12	10	4	7	8	.	10	13	5	7
VS20-402	12	6	7	4	8	.	5	13	4	6
VS20-405	11	7	7	6	9	.	5	11	4	7
VS20-406	1	0	-2	-1	3	.	5	2	-1	0
VS20-412	12	7	6	3	8	.	5	10	4	6

\*Data not included in mean

TABLE 39 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PINE TREE AR	ROHWER* AR	STONEVILLE MS	
DILLON	10/07	10/02	09/27	10/02
BOGGS	5	5	-1	2
NC-ROY	9	6	2	5
N96-6755	-1	2	3	1
N97-9812	3	5	4	4
R96-1559	6	1	3	5
R97-1053	5	2	-1	2
R97-1801	3	2	-1	1
R98-209	3	5	1	2
R99-1888	-1	2	1	0
SC97-1770	13	8	5	9
SC00-1741	13	8	9	11
VS20-394	11	7	4	8
VS20-402	13	6	3	8
VS20-405	10	7	0	5
VS20-406	5	4	0	3
VS20-412	11	7	0	6

\*Data not included in mean

TABLE 39 ~ Continued

STRAIN/ VARIETY	WEST			MEAN
	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	
DILLON	11/01	.	10/09	10/20
BOGGS	-12	.	6	-2
NC-ROY	0	.	10	6
N96-6755	-6	.	4	-1
N97-9812	4	.	9	7
R96-1559	1	.	3	2
R97-1053	-9	.	1	-3
R97-1801	0	.	7	4
R98-209	0	.	8	5
R99-1888	-1	.	1	1
SC97-1770	-3	.	11	5
SC00-1741	2	.	12	7
VS20-394	-2	.	12	6
VS20-402	-3	.	11	4
VS20-405	-4	.	11	4
VS20-406	-11	.	8	-1
VS20-412	-1	.	10	5

**TABLE 40 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VI, 2003**

STRAIN/ VARIETY	EAST			MEAN
	FLORENCE SC	PETERSBURG VA	WARSAW VA	
DILLON	39	39	38	38
BOGGS	34	38	36	36
NC-ROY	36	39	35	37
N96-6755	34	31	33	33
N97-9812	34	32	33	33
R96-1559	33	36	36	35
R97-1053	35	30	35	33
R97-1801	29	30	32	30
R98-209	38	40	36	38
R99-1888	32	32	34	33
SC97-1770	39	43	39	40
SC00-1741	35	45	38	40
VS20-394	37	42	37	39
VS20-402	34	35	33	34
VS20-405	33	32	33	33
VS20-406	36	30	35	34
VS20-412	33	34	31	33

TABLE 40 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS	BELLE	BLACK-	CALHOUN	FAIR-	STARK-	SUFFOLK	TALLASSEE*	TIFTON	MEAN
	GA	AL	VILLE SC(A)	GA	HOPE AL	VILLE MS	VA	AL	GA	
DILLON	34	38	31	35	26	21	36	35	36	32
BOGGS	33	34	28	30	27	23	32	32	37	30
NC-ROY	33	32	32	28	26	14	38	33	33	29
N96-6755	27	30	28	32	23	18	27	31	33	27
N97-9812	27	29	26	27	25	18	29	31	33	27
R96-1559	33	35	29	36	23	19	34	24	36	31
R97-1053	30	36	32	33	27	19	32	32	37	31
R97-1801	27	32	24	30	22	19	30	24	32	27
R98-209	33	36	32	36	27	18	37	32	35	32
R99-1888	29	31	26	29	21	19	31	28	31	27
SC97-1770	34	33	31	35	27	20	41	36	38	32
SC00-1741	40	35	33	40	28	24	43	38	37	35
VS20-394	32	36	31	35	25	22	37	33	34	32
VS20-402	30	34	31	33	27	16	36	31	29	30
VS20-405	30	33	31	33	27	16	35	29	33	30
VS20-406	28	32	29	31	26	17	31	32	34	29
VS20-412	28	34	29	35	27	18	35	31	31	30

\*Data not included in mean

TABLE 40 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PINE TREE AR	ROHWER* AR	STONEVILLE MS	
DILLON	33	40	30	32
BOGGS	26	37	26	26
NC-ROY	32	37	26	29
N96-6755	30	32	28	29
N97-9812	31	34	30	31
R96-1559	37	38	32	34
R97-1053	37	35	33	35
R97-1801	30	32	24	27
R98-209	32	39	36	34
R99-1888	32	29	26	29
SC97-1770	37	41	20	28
SC00-1741	40	38	28	34
VS20-394	41	39	28	34
VS20-402	35	37	26	31
VS20-405	35	36	24	29
VS20-406	36	33	26	31
VS20-412	33	34	26	30

\*Data not included in mean

TABLE 40 ~ Continued

STRAIN/ VARIETY	WEST			MEAN
	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	
DILLON	37	29	27	31
BOGGS	33	26	24	28
NC-ROY	38	31	30	33
N96-6755	33	27	24	28
N97-9812	36	27	25	29
R96-1559	33	27	23	28
R97-1053	35	28	25	29
R97-1801	27	25	22	25
R98-209	35	30	28	31
R99-1888	30	25	22	26
SC97-1770	39	33	29	33
SC00-1741	38	31	31	33
VS20-394	34	31	27	31
VS20-402	37	25	26	29
VS20-405	36	26	24	29
VS20-406	36	26	27	30
VS20-412	39	27	28	32

**TABLE 41 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VI, 2003**

STRAIN/ VARIETY	EAST				MEAN
	FLORENCE SC	PETERSBURG VA	PLYMOUTH NC	WARSAW VA	
DILLON	1.7	2.0	2.8	2.2	2.2
BOGGS	2.7	3.0	3.3	3.2	3.1
NC-ROY	3.0	2.7	4.0	2.8	3.1
N96-6755	2.7	2.0	3.3	2.4	2.6
N97-9812	3.3	3.3	4.0	2.5	3.3
R96-1559	1.0	2.0	2.5	2.1	1.9
R97-1053	2.0	2.3	3.0	2.2	2.4
R97-1801	1.0	2.7	3.3	2.4	2.4
R98-209	1.7	2.0	3.0	2.6	2.3
R99-1888	2.0	2.7	3.0	2.5	2.5
SC97-1770	2.3	3.3	3.8	3.0	3.1
SC00-1741	1.0	2.3	3.0	2.8	2.3
VS20-394	1.7	3.0	3.0	2.7	2.6
VS20-402	3.7	2.7	4.0	2.5	3.2
VS20-405	3.0	2.7	3.3	2.8	2.9
VS20-406	3.7	3.0	3.2	2.7	3.1
VS20-412	3.7	2.7	3.3	2.6	3.1



TABLE 41 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS	BELLE	BLACK-	CALHOUN	FAIR-	STARK-	SUFFOLK	TALLASSEE*	TIFTON	MEAN
	GA	AL	SC(A)	GA	AL	MS	VA	AL	GA	
DILLON	1.7	1.0	1.8	1.3	1.0	1.0	2.2	1.0	1.3	1.4
BOGGS	1.0	2.3	2.2	2.7	1.0	1.0	3.7	1.3	1.0	1.9
NC-ROY	2.0	1.7	3.0	1.7	1.0	1.0	2.8	1.0	2.0	1.9
N96-6755	1.0	1.0	1.7	1.0	1.0	1.0	2.3	1.0	1.0	1.3
N97-9812	1.7	1.7	3.3	2.7	1.0	1.0	3.0	1.0	2.0	2.0
R96-1559	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.1
R97-1053	1.7	1.3	1.0	1.0	1.0	1.0	2.7	1.0	1.0	1.3
R97-1801	1.0	1.0	1.0	1.0	1.0	1.0	2.2	1.0	1.0	1.1
R98-209	2.0	1.3	1.7	1.0	1.0	1.0	2.5	1.0	2.0	1.6
R99-1888	1.7	1.0	1.3	1.7	1.0	1.0	2.7	1.0	1.3	1.5
SC97-1770	2.0	1.3	2.2	1.3	1.0	1.0	2.7	1.0	1.0	1.6
SC00-1741	1.7	1.3	1.7	1.0	1.0	1.0	2.2	1.0	1.0	1.4
VS20-394	1.3	1.0	1.3	1.7	1.0	1.0	2.7	1.0	1.3	1.4
VS20-402	2.0	1.7	2.5	1.0	1.0	1.0	2.5	1.0	1.3	1.6
VS20-405	1.3	2.0	2.0	1.3	1.0	1.0	2.5	1.0	1.0	1.5
VS20-406	1.0	1.0	2.0	1.0	1.0	1.0	3.3	1.0	1.0	1.4
VS20-412	1.3	2.3	2.3	1.0	1.0	1.0	2.7	1.0	1.0	1.6

\*Data not included in mean

**TABLE 41 ~ Continued**

STRAIN/ VARIETY	DELTA			MEAN
	PINE TREE AR	ROHWER* AR	STONEVILLE MS	
DILLON	2.5	1.0	2.0	2.3
BOGGS	3.8	1.0	2.0	2.9
NC-ROY	4.0	1.0	2.0	3.0
N96-6755	3.7	1.0	2.0	2.8
N97-9812	3.2	1.3	2.0	2.6
R96-1559	3.5	1.0	2.0	2.8
R97-1053	3.2	1.0	2.0	2.6
R97-1801	3.2	1.0	2.0	2.6
R98-209	2.0	1.0	2.0	2.0
R99-1888	3.5	1.0	2.0	2.8
SC97-1770	3.8	1.0	2.0	2.9
SC00-1741	3.3	1.0	2.0	2.7
VS20-394	3.7	1.0	2.0	2.8
VS20-402	3.7	1.0	2.0	2.8
VS20-405	3.5	1.0	2.0	2.8
VS20-406	3.2	1.0	2.0	2.6
VS20-412	3.8	1.0	2.0	2.9

\*Data not included in mean

TABLE 41 ~ Continued

STRAIN/ VARIETY	WEST			MEAN
	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	
DILLON	.	1.0	1.7	1.3
BOGGS	1.0	1.0	1.3	1.1
NC-ROY	.	1.0	1.0	1.0
N96-6755	1.0	.	1.0	1.0
N97-9812	2.3	1.0	1.3	1.6
R96-1559	.	.	1.0	1.0
R97-1053	.	1.0	1.0	1.0
R97-1801	.	1.0	1.0	1.0
R98-209	.	1.0	1.0	1.0
R99-1888	1.0	1.0	1.3	1.1
SC97-1770	2.0	1.0	1.0	1.3
SC00-1741	.	.	1.3	1.3
VS20-394	.	1.0	1.0	1.0
VS20-402	1.3	1.0	1.0	1.1
VS20-405	1.5	1.0	1.0	1.2
VS20-406	1.0	1.0	1.3	1.1
VS20-412	1.7	1.0	2.0	1.6

**TABLE 42 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VI, 2003**

STRAIN/ VARIETY	EAST			MEAN
	PETERSBURG VA	PLYMOUTH NC	WARSAW VA	
DILLON	2.0	1.5	1.1	1.5
BOGGS	2.3	2.0	1.1	1.8
NC-ROY	2.5	1.5	1.2	1.7
N96-6755	2.5	1.5	1.1	1.7
N97-9812	2.5	2.0	1.1	1.9
R96-1559	3.2	2.5	1.5	2.4
R97-1053	2.3	2.5	1.1	2.0
R97-1801	2.5	2.0	1.2	1.9
R98-209	2.5	2.5	1.2	2.1
R99-1888	2.7	2.5	1.2	2.1
SC97-1770	2.2	2.5	1.2	2.0
SC00-1741	2.2	1.5	1.0	1.6
VS20-394	2.7	1.5	1.1	1.8
VS20-402	2.0	2.5	1.2	1.9
VS20-405	2.2	2.5	1.2	2.0
VS20-406	2.3	3.0	1.2	2.2
VS20-412	2.3	2.5	1.2	2.0

TABLE 42 ~ Continued

STRAIN VARIETY	SOUTH						MEAN
	ATHENS GA	CALHOUN GA	FAIRHOPE AL	SUFFOLK VA	TALLASSEE AL	TIFTON GA	
DILLON	1.5	1.0	1.0	1.7	1.0	2.3	1.5
BOGGS	1.5	2.0	1.0	1.0	1.0	3.0	1.7
NC-ROY	1.5	1.7	1.0	1.7	1.0	2.0	1.6
N96-6755	1.5	1.0	1.0	1.0	1.0	3.3	1.6
N97-9812	1.5	1.7	1.0	1.3	1.0	3.3	1.8
R96-1559	1.7	1.0	2.0	1.7	1.0	4.0	2.1
R97-1053	1.5	1.0	1.0	1.3	1.0	3.0	1.6
R97-1801	1.5	1.3	1.0	1.0	1.0	2.7	1.5
R98-209	1.5	1.7	1.0	2.0	1.0	3.0	1.8
R99-1888	1.5	2.0	1.0	2.0	1.0	4.3	2.2
SC97-1770	1.5	1.3	1.0	1.0	1.0	1.7	1.3
SC00-1741	1.5	1.3	1.0	1.0	1.0	2.0	1.4
VS20-394	1.5	1.3	2.0	1.3	1.0	3.7	2.0
VS20-402	1.5	1.3	1.0	1.0	1.0	2.3	1.4
VS20-405	1.5	1.0	1.0	1.0	1.0	2.0	1.3
VS20-406	1.5	1.0	2.0	2.3	1.0	2.7	1.9
VS20-412	1.5	1.3	1.0	1.0	1.0	2.0	1.4

TABLE 42 ~ Continued

VARIETY	DELTA		MEAN
	ROHWER*	STONEVILLE	
	AR	MS	
DILLON	2.0	2.0	2.0
BOGGS	1.5	2.0	2.0
NC-ROY	2.0	2.0	2.0
N96-6755	2.0	2.0	2.0
N97-9812	2.0	2.0	2.0
R96-1559	2.0	2.0	2.0
R97-1053	2.0	2.0	2.0
R97-1801	2.0	2.0	2.0
R98-209	2.0	2.0	2.0
R99-1888	2.0	2.0	2.0
SC97-1770	2.5	2.0	2.0
SC00-1741	4.0	2.0	2.0
VS20-394	2.0	2.0	2.0
VS20-402	2.0	2.0	2.0
VS20-405	2.0	2.0	2.0
VS20-406	1.5	2.0	2.0
VS20-412	2.0	2.0	2.0

\*Data not included in mean

TABLE 42 ~ Continued

STRAIN/ VARIETY	WEST
	BEAUMONT TX
DILLON	2.3
BOGGS	1.3
NC-ROY	2.0
N96-6755	2.7
N97-9812	2.8
R96-1559	3.0
R97-1053	2.2
R97-1801	2.8
R98-209	3.3
R99-1888	3.2
SC97-1770	2.5
SC00-1741	2.2
VS20-394	3.0
VS20-402	2.3
VS20-405	2.3
VS20-406	2.5
VS20-412	2.5

## **PRELIMINARY GROUP VI**

**2003**

**Preliminary Group VI nurseries were planted at 6 locations. Data were obtained from 5 of these locations. The parentage for each strain is reported in Table 43. Table 44 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 45 - 51.**



**TABLE 43 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2003**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. DILLON	Centennial × Young	
2. BOGGS	G81-152 × Coker 6738	
3. NC-ROY	Holladay × Brim	
4. G00-360	Boggs × G92-1306	F5d
5. G00-4391	G3-9201 × K1276	F7d
6. G00-4395	G3-9201 × K1276	F7d
7. R99-541	KY8804080 × G89-2223	
8. R99-1069	PI424376 × NK S59-60	
9. R99-1554	N90-516 × P9641	
10. R99-2005	MD92-5769 × P9641	
11. R99-2725	Caviness × DP3478	
12. TCPPR-01-163	Dillon × Tamahikari	F4
13. VS21-420	VS94-11 × Manokin	F6
14. VS21-441	Hutcheson × VS94-11	F6
15. VS21-443	Hutcheson × VS94-11	F6
16. VS21-446	Hutcheson × VS94-11	F6
17. VS21-449	VS94-18 × Hutcheson	F6

**TABLE 44 ~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2003 ~ MEAN OF 5 LOCATIONS**

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----	STEM CANKER	SCN 2	SCN 3	SCN 14	FL COLOR	PUB. COLOR	POD COLOR	
DILLON	47.9	6	5	10/11	1.6	34	2.0	13.1	40.8	19.4	R	5.0	5.0	5.0	P	G	T
BOGGS	47.8	7	5	2+	2.2	32	2.0	12.3	41.4	19.7	R	5.0	1.0	5.0	W	T	T
NC-ROY	53.7	1	4	5+	1.9	32	2.1	11.6	41.6	18.5-	R	5.0	5.0	5.0	W	G	Br
G00-360	50.0	4	4	12+	2.0	31	2.1	13.7	42.1	19.1	R	5.0	1.0	5.0	W	T	T
G00-4391	43.7	13	6	6+	1.6	31	2.6	12.3	37.8-	20.3+	R	5.0	2.0	5.0	W	T	T
G00-4395	45.7	10	5	7+	1.6	33	2.3	12.3	38.0-	20.4+	R	5.0	2.0	5.0	W	T	T
R99-541	51.4	2	4	1-	1.9	27	2.4	13.2	41.1	19.3	R	5.0	5.0	5.0		T	
R99-1069	45.6	11	6	4-	2.1	29	2.6	15.5	40.6	19.4	S	5.0	2.0	5.0	P	T	
R99-1554	46.9	9	5	1+	2.1	28	2.9	13.7	39.3-	19.6	R	5.0	5.0	5.0	P	G	
R99-2005	47.2	8	5	4-	1.8	31	2.8	13.3	37.7-	20.3+	S	5.0	5.0	5.0		G	
R99-2725	49.9	5	5	7+	2.0	32	2.6	14.3	40.9	19.8	R	5.0	1.0	5.0	P	G	
TCPPR-01-163	50.2	3	5	5+	1.7	36	1.9	12.9	40.5	19.4	MS	5.0	5.0	5.0	P	G	
VS21-420	35.7-	17	7	12-	3.0	43	2.6	14.3	40.6	20.2+	R	4.0	1.0	5.0	W	T	
VS21-441	43.2	14	6	6+	3.4	46	2.4	12.9	40.0	18.3-	R	3.0	5.0	5.0	W	T	
VS21-443	45.4	12	6	8-	1.5	26	2.0	14.2	40.1	19.9	R	5.0	5.0	5.0	W	G	
VS21-446	37.5-	16	7	11-	2.0	29	2.3	12.0	39.4	19.9	S	5.0	1.0	5.0	W	G	
VS21-449	41.1	15	7	4+	1.6	25	2.3	16.6	40.4	19.2	R	5.0	5.0	5.0	P	G	
OVERALL MEAN	46.1								40.1	19.6							
LSD (.05)	10.2								1.5	0.7							
C. V.	18%								3%	2%							

**TABLE 45 ~ SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2003**

STRAIN/ VARIETY	BEAUMONT TX	BIXBY OK	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE* AL	MEAN
DILLON	26.3	46.1	65.7	35.1	66.3	60.2	47.9
BOGGS	31.9	50.8	64.3	34.3	57.4	52.5	47.8
NC-ROY	51.3+	49.9	62.1	42.3	62.8	56.8	53.7
G00-360	34.4	51.1	62.6	39.6	62.3	46.9	50.0
G00-4391	24.8	54.0	60.0	33.5	46.2-	55.7	43.7
G00-4395	32.0	51.5	55.3	36.4	53.1	54.3	45.7
R99-541	34.6	52.1	61.2	38.9	70.1	58.0	51.4
R99-1069	29.6	43.4	56.6	31.9	66.2	50.6	45.6
R99-1554	33.8	46.1	52.8-	28.9	73.0	51.4	46.9
R99-2005	34.2	47.2	67.8	21.7-	65.2	51.1	47.2
R99-2725	38.7+	49.0	65.4	37.4	58.8	43.0	49.9
TCPPR-01-163	32.8	49.3	68.3	30.3	70.2	55.5	50.2
VS21-420	18.8	45.6	55.7	18.3-	40.1-	32.5-	35.7-
VS21-441	37.8	46.5	71.8	41.9	18.2-	41.4	43.2
VS21-443	32.8	42.1	60.4	37.4	54.4	48.7	45.4
VS21-446	28.1	48.9	54.8	8.7-	46.9-	36.2-	37.5-
VS21-449	32.4	47.1	43.3-	35.0	47.5-	46.7	41.1
L. S. D. (0.05)	11.5	8.5	11.8	12.4	15.1	20.7	10.2
C. V. (%)	16.6	8.3	9.2	18.1	12.7	19.7	17.5

\*Data not included in mean

**TABLE 46 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VI, 2003**

STRAIN/ VARIETY	BIXBY OK	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE* AL	MEAN
DILLON	18.0	18.7	20.5	20.4	18.6	19.4
BOGGS	19.0	18.3	20.4	20.9	20.4	19.7
NC-ROY	18.1	17.3	18.4	20.0	18.8	18.5
G00-360	18.9	18.2	19.6	19.8	19.3	19.1
G00-4391	19.6	19.0	20.5	22.1	20.8	20.3
G00-4395	19.5	19.5	20.5	22.2	21.3	20.4
R99-541	18.4	18.4	19.5	20.7	19.9	19.3
R99-1069	18.4	18.8	20.0	20.4	19.7	19.4
R99-1554	18.5	19.2	20.4	20.2	20.0	19.6
R99-2005	19.2	19.6	21.2	21.0	21.0	20.3
R99-2725	18.6	18.8	20.7	21.1	21.1	19.8
TCPPR-01-163	18.5	18.0	20.3	20.6	19.1	19.4
VS21-420	19.0	19.2	21.2	21.4	21.1	20.2
VS21-441	17.6	18.0	19.1	18.3	18.6	18.3
VS21-443	19.0	19.5	20.7	20.4	20.5	19.9
VS21-446	19.0	19.3	20.5	20.7	21.2	19.9
VS21-449	17.9	19.1	19.0	20.7	19.7	19.2

**\*Data not included in mean**

**TABLE 47 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VI, 2003**

STRAIN/ VARIETY	BIXBY OK	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE* AL	MEAN
DILLON	40.9	42.2	38.5	41.7	40.9	40.8
BOGGS	39.5	43.2	41.6	41.4	43.9	41.4
NC-ROY	41.2	43.3	41.3	40.4	41.9	41.6
G00-360	41.9	42.5	41.7	42.1	44.6	42.1
G00-4391	37.1	40.1	36.7	37.4	42.7	37.8
G00-4395	36.5	40.1	37.7	37.5	40.1	38.0
R99-541	39.3	42.8	41.8	40.3	44.2	41.1
R99-1069	39.9	40.9	41.2	40.2	42.9	40.6
R99-1554	38.4	40.4	39.9	38.6	41.4	39.3
R99-2005	38.2	38.5	36.7	37.3	41.0	37.7
R99-2725	41.8	42.6	39.3	39.9	43.1	40.9
TCPPR-01-163	39.6	42.8	38.4	41.1	45.0	40.5
VS21-420	39.6	41.0	39.5	42.1	42.3	40.6
VS21-441	38.2	39.8	40.5	41.5	41.8	40.0
VS21-443	39.9	40.9	40.6	39.1	41.0	40.1
VS21-446	37.2	41.2	39.1	40.0	42.6	39.4
VS21-449	39.7	40.3	41.5	39.9	41.5	40.4

**\*Data not included in mean**

**TABLE 48 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2003**

STRAIN/ VARIETY	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE* AL	MEAN
DILLON	14.5	12.2	12.6	16.2	13.1
BOGGS	12.5	13.4	10.9	12.1	12.3
NC-ROY	12.0	11.6	11.3	13.7	11.6
G00-360	15.0	14.3	11.8	14.3	13.7
G00-4391	13.0	11.2	12.8	14.3	12.3
G00-4395	13.0	11.1	12.8	14.3	12.3
R99-541	13.5	12.7	13.5	14.0	13.2
R99-1069	15.5	16.6	14.5	17.2	15.5
R99-1554	14.5	12.9	13.7	15.2	13.7
R99-2005	14.5	12.2	13.3	17.3	13.3
R99-2725	14.5	13.1	15.4	15.5	14.3
TCPPR-01-163	13.5	11.8	13.5	13.7	12.9
VS21-420	15.5	13.3	14.1	15.4	14.3
VS21-441	14.5	13.8	10.3	15.7	12.9
VS21-443	14.0	14.7	14.0	16.6	14.2
VS21-446	13.0	10.3	12.6	12.4	12.0
VS21-449	18.0	15.2	16.7	18.8	16.6

**\*Data not included in mean**

**TABLE 49 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2003**

STRAIN/ VARIETY	BEAUMONT TX	BIXBY OK	PETERSBURG VA	STONEVILLE MS	TALLASSEE* AL	MEAN
DILLON	34	32	42	28	36	34
BOGGS	30	29	38	33	27	32
NC-ROY	34	31	43	20	27	32
G00-360	31	26	37	30	29	31
G00-4391	32	34	38	20	31	31
G00-4395	38	33	43	20	33	33
R99-541	33	26	28	20	28	27
R99-1069	29	28	32	28	25	29
R99-1554	29	27	28	28	25	28
R99-2005	33	27	35	30	31	31
R99-2725	32	27	34	34	21	32
TCPPR-01-163	35	33	44	34	31	36
VS21-420	38	36	47	54	35	43
VS21-441	48	37	53	48	45	46
VS21-443	26	24	30	24	24	26
VS21-446	32	28	33	24	28	29
VS21-449	27	23	31	20	27	25

**\*Data not included in mean**

**TABLE 50 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2003**

STRAIN VARIETY	BEAUMONT TX	BIXBY OK	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE* AL	MEAN
DILLON	.	1.0	2.0	3.0	2.0	1.0	2.0
BOGGS	1.0	1.0	3.5	4.5	2.0	1.0	2.4
NC-ROY	.	1.0	2.5	4.0	2.0	1.0	2.4
G00-360	.	1.0	4.0	3.0	2.0	1.5	2.5
G00-4391	.	1.0	2.5	3.0	2.0	1.0	2.1
G00-4395	.	1.0	2.5	3.0	2.0	1.0	2.1
R99-541	.	1.5	2.5	3.5	2.0	1.0	2.4
R99-1069	.	1.0	3.5	4.0	2.0	1.0	2.6
R99-1554	.	1.0	3.5	4.0	2.0	1.0	2.6
R99-2005	.	1.0	3.5	3.0	2.0	1.0	2.4
R99-2725	.	1.0	3.0	4.0	2.0	1.0	2.5
TCPPR-01-163	.	1.0	2.5	3.0	2.0	1.0	2.1
VS21-420	.	2.5	4.0	4.5	4.0	1.5	3.8
VS21-441	3.0	3.5	3.5	3.5	5.0	1.5	3.7
VS21-443	.	.	2.5	2.8	2.0	1.0	2.4
VS21-446	.	1.5	2.0	4.3	2.0	1.0	2.4
VS21-449	.	.	2.5	3.3	2.0	1.0	2.6

**\*Data not included in mean**



**TABLE 51 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2003**

STRAIN/ VARIETY	BEAUMONT TX	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE* AL	MEAN
DILLON	2.3	1.8	2.0	2.0	1.0	2.0
BOGGS	1.5	2.0	2.5	2.0	1.0	2.0
NC-ROY	2.0	2.3	2.0	2.0	1.0	2.1
G00-360	2.3	2.3	2.0	2.0	1.0	2.1
G00-4391	3.0	2.8	2.5	2.0	1.0	2.6
G00-4395	2.8	2.3	2.0	2.0	2.0	2.3
R99-541	2.3	3.0	2.5	2.0	1.0	2.4
R99-1069	2.8	2.5	3.0	2.0	2.0	2.6
R99-1554	3.5	2.5	3.5	2.0	3.0	2.9
R99-2005	2.8	2.8	3.5	2.0	2.0	2.8
R99-2725	3.0	2.3	3.0	2.0	1.0	2.6
TCPPR-01-163	2.8	1.0	2.0	2.0	1.0	1.9
VS21-420	3.3	1.5	3.5	2.0	2.0	2.6
VS21-441	2.5	2.0	3.0	2.0	2.0	2.4
VS21-443	1.8	1.3	3.0	2.0	1.0	2.0
VS21-446	2.8	1.5	3.0	2.0	1.0	2.3
VS21-449	2.8	1.5	3.0	2.0	1.0	2.3

**\*Data not included in mean**

## UNIFORM GROUP VII

2003

Uniform Group VII nurseries were planted at 12 locations. Data were obtained from 10 of these locations. The parentage for each strain is reported in Table 52. Table 53 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 54 - 59.

**TABLE 52 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VII, 2003**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	Hutcheson × Coker 6738	
2. HASKELL	Johnston × Braxton	
3. Au99-2729	N92-727 × Au90-585	
4. G98-1420	Boggs × Doles	F5d
5. G99-2604	Pri chard × NKS75-55	F5d
6. G99-2678	Pri chard × NKS75-55	F5d
7. G99-2721	Pri chard × NKS75-55	F5d
8. G99-2982	Pri chard × NKS75-55	F5d
9. G02-G176376 RR	G91-151(5) × RR	BC5
10. N97-9658	N7001 × COOK	F4
11. N97-9693	N7001 × COOK	F4
12. N99-8137	N7001 × Graham	F4
13. N00-370	Au92-916 × N90-845	F4
14. SC97-2010	SC89-181 × Pearl	
15. SC98-318	Hutcheson × SC89-551	
16. SC98-1063	SC89-147 × G93-9223	
17. SC99-605	SC89-147 × G89-2223	
18. HASKELL RR	Haskell ( ) × RR	

**TABLE 53 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN  
IN UNIFORM GROUP VII, 2003**

STRAIN/ VARIETY	RANK	AVERAGE RANK	YIELD*			PROTEIN			OIL		
			2003	02-03	01-03	2003	02-03	01-03	2003	02-03	01-03
BENNING	3	8	53.2	45.6	46.1	41.2	40.3	40.1	19.6	20.0	20.4
HASKELL	6	10	52.6	44.9	45.9	40.6	40.1	39.6	19.3	19.4	19.8
Au99-2729	16	12	50.0	.	.	42.6	.	.	19.7	.	.
G98-1420	12	11	51.6	45.3	.	42.3	40.9	.	20.1	20.5	.
G99-2604	13	10	51.3	.	.	43.6	.	.	19.4	.	.
G99-2678	2	6	54.4	.	.	41.6	.	.	19.2	.	.
G99-2721	1	6	54.8	.	.	40.2	.	.	19.5	.	.
G99-2982	11	11	51.6	.	.	43.4	.	.	19.1	.	.
G02-G176376 RR	14	10	50.9	.	.	42.5	.	.	19.4	.	.
N97-9658	4	8	53.2	47.6	49.0	42.9	41.7	41.0	19.0	19.3	19.7
N97-9693	7	9	52.5	47.2	.	42.6	41.0	.	19.8	20.1	.
N99-8137	5	8	52.8	.	.	40.9	.	.	20.3	.	.
N00-370	9	9	51.9	.	.	43.6	.	.	20.2	.	.
SC97-2010	18	15	47.5	.	.	42.1	.	.	18.3	.	.
SC98-318	10	8	51.6	44.6	.	40.5	40.0	.	19.5	19.6	.
SC98-1063	17	13	49.3	43.8	.	42.3	41.5	.	19.2	19.3	.
SC99-605	15	11	50.4	.	.	43.4	.	.	18.7	.	.
HASKELL RR	8	9	52.0	.	.	41.3	.	.	19.3	.	.

**\*Data not included in mean: 2003 - Beaumont, TX; Jackson Springs, NC  
2001 - Florence, SC**

TABLE 53 ~ Continued

BOTANICAL TRAITS								
STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL COLOR	PUB. COLOR	POD COLOR
BENNING	10/19	1.5	34	1.4	16.2	P	T	T
HASKELL	3+	2.2	33	1.5	16.7	P	T	T
Au99-2729	4+	1.3	32	1.6	14.9	P	G	T
G98-1420	0	1.4	33	1.5	14.1	W	T	T
G99-2604	3+	1.4	34	1.5	15.6	W	T	T
G99-2678	3+	1.8	35	1.5	15.5	W	T	T
G99-2721	3+	1.9	36	1.5	14.0	P	T	T
G99-2982	3+	1.4	32	1.5	14.9	W	T	T
G02-G176376 RR	1-	1.4	35	1.3	13.3	W	T	T
N97-9658	2+	1.7	34	1.6	14.1	P	G	
N97-9693	2+	1.7	33	1.5	15.8	P	G	
N99-8137	1+	1.5	30	1.5	16.1	P	G	
N00-370	0	2.4	34	1.6	17.2	P	G	
SC97-2010	3+	1.7	32	1.4	9.1	W	G	T
SC98-318	2+	1.1	30	1.5	15.3	W	T	T
SC98-1063	0	1.8	32	1.4	14.7	W	T	T
SC99-605	1+	2.1	34	1.5	14.3	W	G	T
HASKELL RR	2+	2.0	36	1.4	15.8	P	T	T

TABLE 53 ~ Continued

STRAIN/ VARIETY	PEST REACTIONS						
	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER
BENNING	5.0	1.0	5.0	2.0	1.0	R	R
HASKELL	5.0	5.0	5.0	2.3	1.0	S	R
Au99-2729	5.0	3.0	5.0	4.3	5.0	R	R
G98-1420	5.0	2.0	5.0	2.3	1.0	R	R
G99-2604	5.0	2.0	5.0	5.0	2.3	R	R
G99-2678	5.0	1.0	5.0	4.5	1.3	R	R
G99-2721	5.0	1.0	5.0	4.8	1.3	R	R
G99-2982	5.0	1.0	5.0	4.5	2.0	R	R
G02-G176376 RR	5.0	1.0	5.0	5.0	1.0	R	
N97-9658	5.0	5.0	5.0	4.0	2.0	R	S
N97-9693	5.0	5.0	5.0	4.8	3.5	R	S
N99-8137	5.0	5.0	5.0	5.0	5.0	R	R
N00-370	5.0	5.0	5.0	5.0	4.5	R	R
SC97-2010	5.0	1.0	5.0	4.3	1.0	S?	R
SC98-318	5.0	1.0	5.0	5.0	2.3	R	R
SC98-1063	5.0	1.0	5.0	4.0	1.0	R	S
SC99-605	5.0	1.0	5.0	5.0	4.5	R	R
HASKELL RR	5.0	5.0	5.0	2.3	2.5	S	R

**TABLE 54 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY  
GROWN IN UNIFORM GROUP VII, 2003**

STRAIN/ VARIETY	EAST		MEAN
	FLORENCE SC	JACKSON SPRINGS* NC	
BENNING	38.1	32.0	38.1
HASKELL	39.9	32.7	39.9
Au99-2729	41.1	28.3	41.1
G98-1420	39.0	34.1	39.0
G99-2604	42.4	31.0	42.4
G99-2678	41.4	38.5	41.4
G99-2721	44.4	39.1	44.4
G99-2982	36.7	40.0	36.7
G02-G176376 RR	38.0	33.8	38.0
N97-9658	42.0	30.8	42.0
N97-9693	42.5	32.7	42.5
N99-8137	41.1	28.4	41.1
N00-370	43.1	39.4	43.1
SC97-2010	39.1	32.9	39.1
SC98-318	43.9	38.2	43.9
SC98-1063	40.5	33.1	40.5
SC99-605	43.8	42.3	43.8
HASKELL RR	43.5	45.5	43.5
L. S. D. (0.05)	7.4	13.5	.
C. V. (%)	10.8	23.1	.

**\*Data not included in mean**

TABLE 54 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS	ATHENS	BLACKVILLE	CALHOUN	FAIRHOPE	PLAINS	TALLASSEE	TIFTON	MEAN
	GA	GA(L)	SC(A)	GA	AL	GA	AL	GA	
BENNING	60.9	51.5	51.7	46.8	52.6	49.7	53.5	65.4	54.0
HASKELL	58.4	51.0	59.7	45.3	53.9	46.9	49.2	55.4	52.5
Au99-2729	51.5	43.0	52.6	44.3	47.5	55.4	50.2	57.4	50.2
G98-1420	60.5	46.3	48.8	42.8	50.4	57.2	60.8	56.1	52.9
G99-2604	58.9	47.5	45.1	49.0	52.5	54.5	53.7	52.6	51.7
G99-2678	63.0	57.1	50.4	52.2	57.6	48.3	54.6	58.5	55.2
G99-2721	60.7	48.3	51.4	52.6	54.7	52.8	59.6	55.9	54.5
G99-2982	59.7	46.2	57.6	48.3	51.3	47.9	57.9	53.8	52.8
G02-G176376 RR	52.3	49.1	56.5	47.7	49.3	48.9	53.6	56.4	51.7
N97-9658	61.4	48.3	59.5	51.6	54.3	45.9	43.4	58.2	52.8
N97-9693	50.3	50.4	56.4	45.3	49.0	50.5	48.3	59.3	51.2
N99-8137	56.8	50.2	46.9	47.4	56.0	48.0	53.8	60.9	52.5
N00-370	52.4	50.1	43.5	44.2	61.4	48.1	47.2	62.1	51.1
SC97-2010	52.4	46.0	51.7	46.3	49.7	46.6	40.6	53.6	48.4
SC98-318	61.0	51.6	54.4	43.5	54.3	58.1	53.1	55.6	54.0
SC98-1063	56.2	48.1	52.5	51.7	52.5	41.9	45.2	52.8	50.1
SC99-605	49.6	40.9	50.9	50.8	52.8	46.3	53.6	56.6	50.2
HASKELL RR	50.6	48.7	54.7	41.2	57.6	51.4	50.3	55.8	51.3
L. S. D. (0.05)	5.6	8.3	7.3	9.3	8.2	8.3	11.3	5.3	.
C. V. (%)	6.0	10.3	8.4	11.9	9.3	10.0	13.2	5.6	.



TABLE 54 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	BEAUMONT*	BOSSIER CITY	
	TX	LA	
BENNING	45.9	62.2	62.2
HASKELL	45.7	66.6	66.6
Au99-2729	42.3	56.5	56.5
G98-1420	36.0	54.2	54.2
G99-2604	27.0	56.6	56.6
G99-2678	33.0	60.9	60.9
G99-2721	45.5	67.5	67.5
G99-2982	28.1	56.8	56.8
G02-G176376 RR	31.7	57.7	57.7
N97-9658	45.2	66.9	66.9
N97-9693	37.1	72.8	72.8
N99-8137	46.2	67.5	67.5
N00-370	43.4	67.1	67.1
SC97-2010	27.3	49.6	49.6
SC98-318	34.3	41.0	41.0
SC98-1063	36.3	52.1	52.1
SC99-605	39.0	59.3	59.3
HASKELL RR	34.9	66.0	66.0
L. S. D. (0.05)	12.1	10.9	.
C. V. (%)	19.3	10.9	.

\*Data not included in mean

**TABLE 55 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2003**

**OIL PERCENTAGES**

STRAIN/ VARIETY	ATHENS		BLACK- VILLE		CALHOUN	FAIRHOPE	FLORENCE	JACKSON*		PLAINS	TALLASSEE	TIFTON	MEAN
	GA	GA(L)	SC(A)	GA	GA	AL	SC	SPRINGS NC	GA	AL	GA		
BENNING	19.9	19.7	.	.	.	19.5	.	21.0	20.3	18.8	.	.	19.6
HASKELL	19.2	18.3	.	.	.	19.3	.	20.1	20.2	19.3	.	.	19.3
Au99-2729	19.4	18.6	.	.	.	19.3	.	20.5	20.7	20.6	.	.	19.7
G98-1420	19.7	19.5	.	.	.	20.2	.	21.8	21.1	19.9	.	.	20.1
G99-2604	19.9	19.6	.	.	.	19.1	.	20.4	19.2	19.2	.	.	19.4
G99-2678	19.1	18.2	.	.	.	19.3	.	19.8	20.2	19.2	.	.	19.2
G99-2721	19.0	19.3	.	.	.	19.4	.	19.7	20.9	18.8	.	.	19.5
G99-2982	18.8	19.1	.	.	.	18.7	.	20.0	20.0	18.8	.	.	19.1
G02-G176376 RR	18.5	18.6	.	.	.	19.8	.	20.1	20.2	20.1	.	.	19.4
N97-9658	19.1	18.6	.	.	.	19.2	.	20.4	19.6	18.5	.	.	19.0
N97-9693	19.6	19.3	.	.	.	20.3	.	20.7	20.5	19.2	.	.	19.8
N99-8137	20.4	19.7	.	.	.	20.4	.	21.7	21.0	19.9	.	.	20.3
N00-370	20.4	20.0	.	.	.	19.6	.	21.1	21.0	20.2	.	.	20.2
SC97-2010	17.8	18.2	.	.	.	18.4	.	19.9	19.5	17.4	.	.	18.3
SC98-318	19.7	18.9	.	.	.	19.7	.	20.8	20.1	18.9	.	.	19.5
SC98-1063	18.9	18.4	.	.	.	19.4	.	20.2	19.9	19.2	.	.	19.2
SC99-605	18.3	17.7	.	.	.	19.0	.	19.1	19.9	18.4	.	.	18.7
HASKELL RR	19.5	18.6	.	.	.	19.5	.	19.5	19.8	19.3	.	.	19.3

**\*Data not included in mean**

TABLE 55 ~ Continued

## PROTEIN PERCENTAGES

STRAIN/ VARIETY	ATHENS		BLACK- VILLE		CALHOUN	FAIRHOPE	FLORENCE	JACKSON*		PLAINS	TALLASSEE	TIFTON	MEAN
	GA	GA(L)	SC(A)	GA	GA	AL	SC	SPRINGS NC	GA	AL	GA		
BENNING	39.2	40.1	.	.	.	44.5	.	39.4	39.8	42.5	.	41.2	
HASKELL	39.6	39.2	.	.	.	42.6	.	38.7	39.8	41.9	.	40.6	
Au99-2729	41.2	41.8	.	.	.	46.1	.	41.2	41.0	42.8	.	42.6	
G98-1420	41.6	41.2	.	.	.	44.5	.	39.3	41.4	42.6	.	42.3	
G99-2604	42.0	41.8	.	.	.	46.6	.	42.2	41.1	46.3	.	43.6	
G99-2678	40.6	39.0	.	.	.	44.2	.	40.4	40.1	44.0	.	41.6	
G99-2721	38.3	37.9	.	.	.	44.8	.	38.1	38.1	41.7	.	40.2	
G99-2982	41.6	40.4	.	.	.	47.4	.	43.0	42.8	45.0	.	43.4	
G02-G176376 RR	41.5	40.2	.	.	.	45.6	.	40.0	41.2	44.1	.	42.5	
N97-9658	41.7	40.5	.	.	.	45.4	.	39.5	41.5	45.5	.	42.9	
N97-9693	40.9	40.1	.	.	.	44.8	.	40.1	41.8	45.3	.	42.6	
N99-8137	40.8	39.3	.	.	.	41.6	.	37.6	40.2	42.5	.	40.9	
N00-370	42.2	41.4	.	.	.	45.3	.	38.8	41.8	47.3	.	43.6	
SC97-2010	40.2	40.4	.	.	.	44.9	.	37.0	39.2	45.6	.	42.1	
SC98-318	39.2	40.4	.	.	.	42.5	.	38.6	38.8	41.7	.	40.5	
SC98-1063	43.2	39.9	.	.	.	43.2	.	40.3	40.7	44.4	.	42.3	
SC99-605	42.2	40.8	.	.	.	45.8	.	40.3	42.1	46.1	.	43.4	
HASKELL RR	40.3	40.3	.	.	.	43.2	.	39.8	38.9	43.8	.	41.3	

\*Data not included in mean

TABLE 55 ~ Continued

## GRAMS PER 100 SEED

STRAIN/ VARIETY	BLACK-			JACKSON*								MEAN
	ATHENS GA	ATHENS GA(L)	VILLE SC(A)	CALHOUN GA	FAIRHOPE AL	FLORENCE SC	SPRINGS NC	PLAINS GA	TALLASSEE AL	TIFTON GA		
BENNING	15.8	15.5	15.8	14.5	17.7	17.2	13.8	15.0	17.1	17.4	16.2	
HASKELL	16.3	16.2	15.5	15.6	18.4	16.2	14.6	16.2	16.6	19.2	16.7	
Au99-2729	14.3	13.9	14.1	14.1	16.9	15.0	13.1	15.3	14.1	16.4	14.9	
G98-1420	13.4	15.0	12.2	15.3	14.2	14.4	11.4	13.5	13.8	15.5	14.1	
G99-2604	15.1	14.8	14.6	14.2	17.8	14.9	13.6	15.7	16.5	16.6	15.6	
G99-2678	15.6	15.2	14.8	14.7	17.2	15.1	14.1	14.9	14.8	17.1	15.5	
G99-2721	14.6	14.2	12.6	11.9	14.4	14.0	13.9	13.9	15.0	15.0	14.0	
G99-2982	15.1	14.0	13.3	14.8	15.8	14.6	13.1	15.3	14.5	16.3	14.9	
G02-G176376 RR	13.6	12.9	12.8	13.7	13.2	13.2	12.2	13.3	12.9	13.6	13.3	
N97-9658	13.8	13.7	14.3	14.3	14.3	13.8	10.9	13.4	13.7	15.7	14.1	
N97-9693	14.5	14.0	15.2	15.2	16.5	16.1	12.6	16.3	16.3	18.3	15.8	
N99-8137	15.5	15.3	16.3	14.4	17.7	15.0	13.3	16.0	16.7	18.0	16.1	
N00-370	16.4	17.1	18.2	15.8	17.1	18.8	12.8	16.7	16.6	18.2	17.2	
SC97-2010	8.9	8.0	8.3	10.2	9.6	10.0	9.2	8.9	9.6	8.5	9.1	
SC98-318	14.0	14.3	15.8	12.5	17.7	15.1	13.3	15.0	16.4	17.0	15.3	
SC98-1063	15.5	13.9	14.2	15.3	15.4	14.1	12.9	13.7	15.0	15.3	14.7	
SC99-605	14.0	13.4	13.3	13.4	14.8	14.3	13.1	14.1	15.6	15.7	14.3	
HASKELL RR	15.4	15.9	15.0	15.4	16.0	16.7	15.2	14.9	16.0	17.2	15.8	

\*Data not included in mean

**TABLE 56 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BENNING, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2003**

**EAST**

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS*	MEAN
	SC	NC	
BENNING	10/25	10/17	10/25
HASKELL	4	6	4
Au99-2729	5	1	5
G98-1420	2	2	2
G99-2604	5	5	5
G99-2678	5	11	5
G99-2721	5	11	5
G99-2982	6	5	6
G02-G176376 RR	1	1	1
N97-9658	4	0	4
N97-9693	5	2	5
N99-8137	4	-2	4
N00-370	1	-4	1
SC97-2010	5	10	5
SC98-318	5	3	5
SC98-1063	0	10	0
SC99-605	3	5	3
HASKELL RR	5	10	5

\*Data not included in mean

TABLE 56 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS	ATHENS	BLACKVILLE	CALHOUN	FAIRHOPE	PLAINS	TALLASSEE	TIFTON	MEAN
	GA	GA(L)	SC(A)	GA	AL	GA	AL	GA	
BENNING	10/14	10/19	10/26	10/23	10/16	.	10/15	10/10	10/17
HASKELL	4	4	3	-2	4	.	3	4	3
Au99-2729	2	3	11	0	4	.	2	3	4
G98-1420	2	3	0	-8	3	.	0	-4	0
G99-2604	2	2	5	-3	5	.	2	1	3
G99-2678	3	3	6	-5	6	.	2	5	3
G99-2721	4	4	2	0	5	.	3	4	4
G99-2982	4	3	5	-2	4	.	2	5	3
G02-G176376 RR	1	1	1	-4	-1	.	0	-7	-1
N97-9658	3	3	3	0	1	.	2	1	3
N97-9693	2	3	2	0	2	.	2	3	3
N99-8137	1	-3	2	-3	1	.	3	0	1
N00-370	1	2	5	-4	2	.	0	-4	1
SC97-2010	6	4	2	-3	4	.	2	4	3
SC98-318	0	2	3	-7	4	.	1	3	1
SC98-1063	4	2	1	-3	0	.	0	1	1
SC99-605	1	5	0	-4	1	.	2	-2	1
HASKELL RR	3	4	4	-4	5	.	2	1	3

TABLE 56 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	BEAUMONT*	BOSSIER CITY	
	TX	LA	
BENNING	11/05	10/21	10/21
HASKELL	10	4	4
Au99-2729	9	4	4
G98-1420	8	3	3
G99-2604	10	5	5
G99-2678	7	4	4
G99-2721	-1	2	2
G99-2982	8	5	5
G02-G176376 RR	4	-1	-1
N97-9658	11	4	4
N97-9693	14	1	1
N99-8137	14	4	4
N00-370	13	0	0
SC97-2010	-15	2	2
SC98-318	4	5	5
SC98-1063	6	-1	-1
SC99-605	10	0	0
HASKELL RR	11	3	3

\*Data not included in mean

**TABLE 57 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VII, 2003**

STRAIN/ VARIETY	EAST		MEAN
	FLORENCE SC	JACKSON SPRINGS* NC	
BENNING	37	33	37
HASKELL	36	31	36
Au99-2729	37	32	37
G98-1420	35	32	35
G99-2604	38	33	38
G99-2678	33	35	33
G99-2721	36	36	36
G99-2982	34	33	34
G02-G176376 RR	38	33	38
N97-9658	37	33	37
N97-9693	36	31	36
N99-8137	36	28	36
N00-370	37	31	37
SC97-2010	35	33	35
SC98-318	31	26	31
SC98-1063	36	28	36
SC99-605	38	32	38
HASKELL RR	40	36	40

**\*Data not included in mean**



TABLE 57 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS	ATHENS	BLACKVILLE	CALHOUN	FAIRHOPE	PLAINS	TALLASSEE	TIFTON	MEAN
	GA	GA(L)	SC(A)	GA	AL	GA	AL	GA	
BENNING	37	29	32	37	26	39	39	35	34
HASKELL	36	31	33	37	22	36	39	33	34
Au99-2729	36	27	32	33	18	38	38	35	32
G98-1420	37	30	34	35	24	33	39	35	33
G99-2604	39	32	33	38	24	38	40	35	35
G99-2678	41	34	32	36	29	38	42	37	36
G99-2721	41	35	36	38	26	42	39	38	37
G99-2982	38	30	31	35	24	37	34	34	33
G02-G176376 RR	37	30	34	35	26	41	40	35	35
N97-9658	37	34	31	36	25	37	39	35	34
N97-9693	31	30	32	31	28	37	33	36	32
N99-8137	33	27	28	35	21	32	38	30	30
N00-370	34	35	31	35	27	33	36	36	33
SC97-2010	38	31	34	33	22	36	37	33	33
SC98-318	34	29	29	33	20	33	34	31	31
SC98-1063	37	32	30	32	25	39	35	33	33
SC99-605	35	30	33	36	25	36	40	38	34
HASKELL RR	42	33	37	33	26	40	41	35	36

TABLE 57 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	BEAUMONT*	BOSSIER CITY	
	TX	LA	
BENNING	38	30	30
HASKELL	34	27	27
Au99-2729	35	24	24
G98-1420	33	25	25
G99-2604	29	26	26
G99-2678	34	27	27
G99-2721	35	30	30
G99-2982	33	25	25
G02-G176376 RR	34	28	28
N97-9658	36	26	26
N97-9693	34	32	32
N99-8137	33	24	24
N00-370	36	31	31
SC97-2010	34	25	25
SC98-318	28	19	19
SC98-1063	30	21	21
SC99-605	40	25	25
HASKELL RR	40	34	34

\*Data not included in mean

**TABLE 58 ~ PLANT LODGING FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VII, 2003**

STRAIN/ VARIETY	EAST		MEAN
	FLORENCE SC	JACKSON SPRINGS* NC	
BENNING	2.3	1.5	2.3
HASKELL	3.0	2.5	3.0
Au99-2729	1.7	1.5	1.7
G98-1420	2.0	1.2	2.0
G99-2604	2.0	1.5	2.0
G99-2678	1.7	2.2	1.7
G99-2721	2.3	2.2	2.3
G99-2982	1.3	1.7	1.3
G02-G176376 RR	2.0	1.5	2.0
N97-9658	2.7	1.3	2.7
N97-9693	2.7	1.2	2.7
N99-8137	2.3	1.3	2.3
N00-370	4.0	1.7	4.0
SC97-2010	2.0	2.0	2.0
SC98-318	1.0	1.3	1.0
SC98-1063	3.3	1.7	3.3
SC99-605	2.7	1.8	2.7
HASKELL RR	2.3	2.5	2.3

\*Data not included in mean

TABLE 58 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA	ATHENS GA(L)	BLACKVILLE SC(A)	CALHOUN GA	FAIRHOPE AL	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	1.3	1.3	1.7	2.0	1.0	1.7	1.7	1.0	1.5
HASKELL	3.0	2.3	3.0	2.3	1.0	3.0	1.0	1.0	2.1
Au99-2729	1.3	1.0	1.3	1.7	1.0	2.3	1.0	1.0	1.3
G98-1420	2.0	1.3	1.3	1.0	1.0	2.0	1.0	1.0	1.3
G99-2604	2.0	1.3	1.0	1.3	1.0	2.0	1.0	1.0	1.3
G99-2678	2.3	2.0	2.0	3.3	1.0	2.0	1.3	1.0	1.9
G99-2721	2.7	2.0	2.2	2.0	1.0	2.7	1.3	1.3	1.9
G99-2982	2.3	1.0	1.3	2.3	1.0	2.0	1.0	1.0	1.5
G02-G176376 RR	2.0	1.3	1.7	1.0	1.0	2.0	1.0	1.0	1.4
N97-9658	2.3	2.0	2.0	1.7	1.0	2.0	1.0	1.0	1.6
N97-9693	1.3	2.0	2.3	1.0	1.0	2.0	1.0	1.7	1.5
N99-8137	1.3	1.7	2.0	1.0	1.0	1.7	1.0	1.0	1.3
N00-370	2.0	2.7	4.2	3.3	1.0	2.0	1.0	1.0	2.1
SC97-2010	2.7	1.7	1.7	2.3	1.0	2.0	1.0	1.0	1.7
SC98-318	1.3	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.1
SC98-1063	2.7	1.7	1.7	2.0	1.0	2.0	1.0	1.0	1.6
SC99-605	2.7	1.7	2.7	2.3	1.0	2.0	3.0	1.7	2.1
HASKELL RR	2.0	2.3	2.5	2.7	1.0	2.7	1.0	1.3	1.9

TABLE 58 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	BEAUMONT*	BOSSIER CITY	
	TX	LA	
BENNING	.	1.0	1.0
HASKELL	.	2.0	2.0
Au99-2729	1.0	1.0	1.0
G98-1420	.	1.0	1.0
G99-2604	.	1.3	1.3
G99-2678	.	1.3	1.3
G99-2721	.	1.7	1.7
G99-2982	.	1.0	1.0
G02-G176376 RR	.	1.0	1.0
N97-9658	.	1.0	1.0
N97-9693	1.0	2.0	2.0
N99-8137	.	1.7	1.7
N00-370	.	2.7	2.7
SC97-2010	1.0	1.7	1.7
SC98-318	1.0	1.3	1.3
SC98-1063	1.0	1.3	1.3
SC99-605	2.0	1.3	1.3
HASKELL RR	.	1.7	1.7

\*Data not included in mean

**TABLE 59 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VII, 2003**

**SOUTH**

STRAIN/ VARIETY	ATHENS GA	ATHENS GA(L)	CALHOUN GA	FAIRHOPE AL	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	1.5	1.5	1.0	1.5	1.8	1.0	1.7	1.4
HASKELL	1.5	1.5	1.7	1.0	1.7	1.0	2.0	1.5
Au99-2729	1.5	1.5	1.3	2.0	1.8	1.0	2.0	1.6
G98-1420	1.5	1.5	1.3	1.0	1.8	1.0	2.3	1.5
G99-2604	1.5	1.7	1.3	1.0	2.0	1.0	2.0	1.5
G99-2678	1.5	1.7	1.3	1.0	2.0	1.0	2.3	1.5
G99-2721	1.5	1.5	1.3	1.0	1.8	1.0	2.0	1.5
G99-2982	1.5	1.5	1.7	1.0	2.2	1.0	2.0	1.5
G02-G176376 RR	1.5	1.5	1.0	1.0	1.5	1.0	1.7	1.3
N97-9658	1.5	1.5	2.0	1.0	2.0	1.0	2.0	1.6
N97-9693	1.5	1.5	1.3	1.5	1.8	1.0	2.0	1.5
N99-8137	1.5	1.5	1.0	1.5	2.0	1.0	2.3	1.5
N00-370	1.5	1.5	1.7	1.5	1.8	1.0	2.0	1.6
SC97-2010	1.5	1.5	1.3	1.0	1.7	1.0	2.0	1.4
SC98-318	1.5	1.5	1.3	1.0	1.7	1.0	2.7	1.5
SC98-1063	1.5	1.5	1.0	1.0	1.8	1.0	2.0	1.4
SC99-605	1.7	1.8	1.0	1.0	2.0	1.0	2.0	1.5
HASKELL RR	1.5	1.5	1.3	1.0	1.7	1.0	2.0	1.4

**PRELIMINARY GROUP VII****2003**

**Preliminary Group VII nurseries were planted at 6 locations. Data were obtained from 5 of the locations. The parentage for each strain is reported in Table 60. Table 61 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 62 - 68.**

**TABLE 60 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII,  
2003**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	Hutcheson × Coker 6738	
2. HASKELL RR	Haskell ( ) × RR	
3. Au00-255	SC91-2007 × N94-537	
4. Au00-1147	SC92-902 × Au92-763	
5. Au00-1170	SC92-902 × Au92-763	
6. G00-3093	N7001 × Boggs	F7d
7. G00-3209	N7001 × Boggs	F7d
8. G00-3213	N7001 × Boggs	F7d
9. G00-3257	N7001 × Boggs	F7d
10. G00-3322	N7001 × Boggs	F7d
11. G00-3880	G3-9201 × Cook	F7d
12. G00-3908	G3-9201 × Cook	F7d
13. SC00-559RR	SC92-2482/[Benning/(Hagood/BC1Resni kRR)]	
14. SC00-577RR	SC92-2482/[Hagood(2)/BC1Resni kRR]	
15. SC00-579RR	SC92-2482/[Hagood(2)/BC1Resni kRR]	
16. SC00-601RR	SC92-2482/[Hagood(2)/BC1Resni kRR]	
17. SC00-603RR	SC92-2482/[Hagood(2)/BC1Resni kRR]	
18. SC00-610RR	SC92-2482/[Hagood(2)/BC1Resni kRR]	
19. SC00-613RR	SC92-2482/[Hagood(2)/BC1Resni kRR]	



**TABLE 61 ~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2003 ~ MEAN OF 5 LOCATIONS**

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LOGGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----	STEM CANKER	SCN 2	SCN 3	SCN 14	FL COLOR	PUB. COLOR	POD COLOR	
BENNING	47.4	9	6	10/19	2.0	33	1.8	16.4	41.3	19.9	R	5.0	1.0	5.0	P	T	T
HASKELL RR	49.1	6	5	3+	2.4	40	1.6	15.1	41.8	19.6	R	5.0	5.0	5.0	P	T	T
Au00-255	39.7-	18	7	5+	1.9	34	1.6	15.4	40.5	20.2	R	5.0	5.0	.	P	T	
Au00-1147	40.5	16	7	7+	1.9	33	1.6	12.3	41.4	19.3	R	4.0	1.0	5.0	W	T	
Au00-1170	43.0	11	7	6+	2.1	26	1.6	12.8	39.0-	20.3	R	5.0	1.0	5.0	W	T	
G00-3093	51.9	5	4	2+	2.2	35	1.6	15.5	41.7	19.2	R	5.0	1.0	5.0	W	T	T
G00-3209	52.7	2	4	2+	2.0	34	1.5	14.6	42.8	19.1-	R	5.0	1.0	5.0	W	T	T
G00-3213	55.1+	1	3	0	1.7	35	1.6	15.2	43.0+	19.6	S	5.0	1.0	5.0	W	T	T
G00-3257	48.4	7	5	2-	2.1	32	1.5	12.6	42.5	19.7	R	5.0	1.0	5.0	W	T	T
G00-3322	52.1	4	4	1+	1.7	34	1.7	14.5	42.6	19.3	S	5.0	1.0	5.0	W	T	T
G00-3880	52.1	4	4	5+	1.9	37	1.6	15.1	41.1	19.6	S	5.0	2.0	5.0	P	T	T
G00-3908	47.4	9	5	8+	1.9	37	1.9	16.6	41.1	18.8-	S	5.0	3.0	4.0	W	T	T
SC00-559RR	41.7	14	6	4+	2.4	45	1.5	15.0	42.8	19.2	R	5.0	1.0	5.0	W	G	T
SC00-577RR	42.2	13	6	1+	2.2	43	1.5	14.4	43.6+	19.4	S	5.0	1.0	5.0	W	G	T
SC00-579RR	39.1-	19	7	2+	2.2	43	1.6	14.1	43.4+	19.4	S	5.0	1.0	5.0	W	G	T
SC00-601RR	47.3	10	5	4+	2.3	41	1.4	14.5	43.7+	18.7-	R	5.0	1.0	5.0	W	G	T
SC00-603RR	42.4	12	7	5+	2.1	39	1.6	14.5	43.7+	18.6-	R	5.0	1.0	5.0	W	G	T
SC00-610RR	40.4-	17	7	3+	2.1	38	1.6	14.2	43.8+	19.3	S	4.0	1.0	5.0	W	G	T
SC00-613RR	41.5	15	7	4+	2.2	42	1.5	14.3	43.1+	19.3	R	4.0	.	5.0	W	G	T
OVERALL MEAN	46.0								42.3	19.4							
LSD (.05)	7.0								1.6	0.7							
C. V.	12%								3%	3%							

**TABLE 62 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2003**

STRAIN/ VARIETY	BEAUMONT*	BLACKVILLE	JACKSON SPRINGS	PLAINS	STONEVILLE	TALLASSEE	MEAN
	TX	SC(A)	NC	GA	MS	AL	
BENNING	37.6	60.3	36.5	47.4	47.7	45.3	47.4
HASKELL RR	47.4	55.9	37.0	58.6+	45.3	48.6	49.1
Au00-255	31.8	45.3-	30.3	58.5+	22.2-	42.2	39.7-
Au00-1147	30.3	48.1-	27.4	51.5	22.4-	53.0	40.5
Au00-1170	43.5	44.0-	33.7	59.6+	28.1-	49.5	43.0
G00-3093	50.9	59.5	42.0	59.7+	46.3	51.8	51.9
G00-3209	50.8	64.4	42.7	61.7+	43.3	51.4	52.7
G00-3213	43.4	58.9	40.5	64.9+	46.2	65.2+	55.1+
G00-3257	37.1	58.5	41.9	53.8+	28.3-	59.5	48.4
G00-3322	46.9	60.8	36.6	60.9+	34.2-	67.8+	52.1
G00-3880	49.7	63.7	38.4	53.7+	52.0	52.7	52.1
G00-3908	38.0	55.5	36.0	51.4	36.4	57.5	47.4
SC00-559RR	40.7	54.4	30.8	53.8+	21.3-	47.9	41.7
SC00-577RR	38.8	53.1-	32.6	51.8	19.9-	53.4	42.2
SC00-579RR	45.5	54.4	27.2	48.6	16.1-	49.4	39.1-
SC00-601RR	36.4	56.5	31.5	54.1+	34.3-	60.5	47.3
SC00-603RR	42.7	48.2-	36.8	51.2	26.6-	49.2	42.4
SC00-610RR	40.0	46.3-	31.0	53.4+	21.5-	49.5	40.4
SC00-613RR	40.7	51.3-	33.8	45.3	26.4-	50.6	41.5
L. S. D. (0.05)	16.8	7.0	9.8	5.0	12.9	15.8	7.0
C. V. (%)	19.2	6.1	13.3	4.3	19.2	14.2	12.1

**\*Data not included in mean**

**TABLE 63 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VII, 2003**

STRAIN/ VARIETY	JACKSON SPRINGS NC	PLAINS GA	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	19.7	20.0	20.5	19.4	19.9
HASKELL RR	18.6	19.9	20.6	19.4	19.6
Au00-255	20.0	20.6	20.1	19.9	20.2
Au00-1147	17.8	19.5	20.6	19.3	19.3
Au00-1170	19.4	21.0	20.8	20.1	20.3
G00-3093	18.5	18.6	20.7	18.9	19.2
G00-3209	18.2	19.7	19.7	18.7	19.1
G00-3213	18.3	20.2	20.4	19.6	19.6
G00-3257	18.6	20.3	20.5	19.5	19.7
G00-3322	17.5	19.7	20.4	19.4	19.3
G00-3880	19.0	19.8	20.2	19.2	19.6
G00-3908	18.0	19.0	19.6	18.4	18.8
SC00-559RR	18.2	20.0	19.2	19.2	19.2
SC00-577RR	18.8	19.7	19.7	19.3	19.4
SC00-579RR	19.2	20.5	18.9	18.9	19.4
SC00-601RR	18.6	19.1	18.4	18.6	18.7
SC00-603RR	18.3	19.0	18.7	18.3	18.6
SC00-610RR	18.8	20.1	19.4	18.7	19.3
SC00-613RR	19.4	19.6	18.9	19.3	19.3

**TABLE 64 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VII, 2003**

STRAIN/ VARIETY	JACKSON SPRINGS NC	PLAINS GA	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	41.1	41.8	40.4	41.9	41.3
HASKELL RR	40.6	41.1	41.1	44.2	41.8
Au00-255	39.4	39.7	41.6	41.1	40.5
Au00-1147	41.9	41.3	40.5	41.7	41.4
Au00-1170	39.2	37.3	38.6	41.0	39.0
G00-3093	41.6	40.6	41.2	43.2	41.7
G00-3209	42.7	42.2	43.6	42.7	42.8
G00-3213	44.3	42.5	41.3	43.8	43.0
G00-3257	42.1	42.0	41.8	44.2	42.5
G00-3322	43.6	41.1	41.5	44.2	42.6
G00-3880	38.7	40.1	40.0	45.4	41.1
G00-3908	40.6	39.4	40.6	43.8	41.1
SC00-559RR	42.2	41.7	43.0	44.3	42.8
SC00-577RR	41.9	42.7	45.3	44.4	43.6
SC00-579RR	42.4	42.1	43.8	45.4	43.4
SC00-601RR	41.9	43.6	43.8	45.4	43.7
SC00-603RR	40.7	42.8	44.2	47.2	43.7
SC00-610RR	41.5	43.4	44.1	46.1	43.8
SC00-613RR	42.2	43.0	43.2	43.9	43.1

**TABLE 65 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2003**

STRAIN/ VARIETY	BLACKVILLE SC(A)	JACKSON SPRINGS NC	PLAINS GA	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	18.1	14.1	18.3	13.6	18.0	16.4
HASKELL RR	15.6	13.4	16.8	13.4	16.3	15.1
Au00-255	15.2	13.5	17.9	14.1	16.2	15.4
Au00-1147	11.9	11.0	14.7	10.3	13.7	12.3
Au00-1170	13.1	11.6	14.9	10.7	13.5	12.8
G00-3093	16.9	13.7	16.1	13.3	17.3	15.5
G00-3209	16.1	12.4	15.2	13.7	15.8	14.6
G00-3213	16.4	13.3	16.5	13.8	15.9	15.2
G00-3257	13.7	10.6	12.7	12.8	13.5	12.6
G00-3322	15.4	12.1	15.9	12.4	16.7	14.5
G00-3880	16.2	12.8	17.5	14.5	14.3	15.1
G00-3908	16.7	14.8	19.4	14.0	17.9	16.6
SC00-559RR	15.8	13.7	16.4	12.0	17.3	15.0
SC00-577RR	15.2	12.8	17.3	10.4	16.3	14.4
SC00-579RR	15.2	13.0	15.6	10.4	16.1	14.1
SC00-601RR	15.4	12.3	17.6	11.1	16.1	14.5
SC00-603RR	14.9	13.2	15.9	11.8	16.9	14.5
SC00-610RR	14.5	13.1	16.0	10.9	16.7	14.2
SC00-613RR	14.8	14.0	15.4	10.9	16.2	14.3

**TABLE 66 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2003**

STRAIN/ VARIETY	BEAUMONT* TX	BLACKVILLE SC(A)	PLAINS GA	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	36	34	42	14	41	33
HASKELL RR	40	34	43	30	52	40
Au00-255	29	31	39	30	38	34
Au00-1147	36	28	39	30	37	33
Au00-1170	26	22	33	16	35	26
G00-3093	35	35	43	24	38	35
G00-3209	33	31	40	24	40	34
G00-3213	36	31	42	22	43	35
G00-3257	33	31	39	20	37	32
G00-3322	35	33	40	24	38	34
G00-3880	40	34	38	28	46	37
G00-3908	37	33	40	30	46	37
SC00-559RR	46	36	47	46	49	45
SC00-577RR	46	37	45	38	52	43
SC00-579RR	44	39	41	42	50	43
SC00-601RR	43	36	38	40	49	41
SC00-603RR	44	37	42	36	42	39
SC00-610RR	42	36	42	24	51	38
SC00-613RR	47	37	42	36	51	42

**\*Data not included in mean**

**TABLE 67 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2003**

STRAIN/ VARIETY	BEAUMONT* TX	BLACKVILLE SC(A)	JACKSON SPRINGS NC	PLAINS GA	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	.	1.5	2.0	2.0	2.0	2.5	2.0
HASKELL RR	.	2.0	3.5	3.0	2.0	1.5	2.4
Au00-255	.	1.0	2.0	3.5	2.0	1.0	1.9
Au00-1147	1.0	1.5	2.5	2.5	2.0	1.0	1.9
Au00-1170	2.0	1.0	2.5	4.0	2.0	1.0	2.1
G00-3093	.	2.8	3.0	2.0	2.0	1.0	2.2
G00-3209	.	1.8	3.0	2.0	2.0	1.0	2.0
G00-3213	.	1.0	2.5	2.0	2.0	1.0	1.7
G00-3257	.	2.0	3.0	2.5	2.0	1.0	2.1
G00-3322	.	1.0	3.0	1.5	2.0	1.0	1.7
G00-3880	.	1.0	2.5	3.0	2.0	1.0	1.9
G00-3908	.	2.3	2.0	2.0	2.0	1.0	1.9
SC00-559RR	.	2.0	3.3	2.5	2.0	2.0	2.4
SC00-577RR	.	2.3	2.5	2.5	2.0	1.5	2.2
SC00-579RR	.	1.8	3.0	2.5	2.0	1.5	2.2
SC00-601RR	.	2.0	3.0	2.5	2.0	2.0	2.3
SC00-603RR	.	2.0	2.5	3.0	2.0	1.0	2.1
SC00-610RR	.	2.3	3.0	2.0	2.0	1.0	2.1
SC00-613RR	.	2.0	3.0	3.0	2.0	1.0	2.2

**\*Data not included in mean**

**TABLE 68 ~ SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VII, 2003**

STRAIN/ VARIETY	BEAUMONT*	JACKSON SPRINGS	PLAINS	STONEVILLE	TALLASSEE	MEAN
	TX	NC	GA	MS	AL	
BENNING	2.3	1.5	1.5	2.0	2.0	1.8
HASKELL RR	2.0	1.5	1.8	2.0	1.0	1.6
Au00-255	2.3	1.5	1.8	2.0	1.0	1.6
Au00-1147	2.3	2.0	1.5	2.0	1.0	1.6
Au00-1170	2.0	1.5	1.8	2.0	1.0	1.6
G00-3093	1.5	1.5	1.8	2.0	1.0	1.6
G00-3209	1.3	1.5	1.5	2.0	1.0	1.5
G00-3213	2.3	1.5	1.8	2.0	1.0	1.6
G00-3257	2.0	1.5	1.5	2.0	1.0	1.5
G00-3322	2.0	2.0	1.8	2.0	1.0	1.7
G00-3880	2.0	1.5	2.0	2.0	1.0	1.6
G00-3908	3.0	1.5	2.0	2.0	2.0	1.9
SC00-559RR	1.5	1.5	1.5	2.0	1.0	1.5
SC00-577RR	2.0	1.5	1.5	2.0	1.0	1.5
SC00-579RR	1.8	1.5	1.8	2.0	1.0	1.6
SC00-601RR	2.3	1.0	1.5	2.0	1.0	1.4
SC00-603RR	2.0	1.5	1.8	2.0	1.0	1.6
SC00-610RR	2.5	1.5	1.8	2.0	1.0	1.6
SC00-613RR	1.8	1.5	1.5	2.0	1.0	1.5

**\*Data not included in mean**



**UNIFORM GROUP VIII****2003**

**Uniform Group VIII nurseries were planted in 9 locations. Data were obtained from all of these locations. The parentage for each strain is reported in Table 69. Table 70 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 71 - 76.**

**TABLE 69 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2003**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. PRICHARD RR	Pri chard ( ) × RR	
2. COOK	Braxton × Young	
3. Au99-1977	SC91-2007 × Au90-585	
4. G99-1166	G91-2244 × Benni ng	F5d
5. G99-1308	G91-2244 × Benni ng	F5d
6. G99-2172	V91-3036 × Dol es	F5d
7. G99-3211	G91-2244 × Dol es	F5d
8. G02-G42164 RR	G92-2167(5) × RR	BC5
9. N96-6752	N91-7202 × N7001	F4
10. N97-9612	N7001 × Cook	F4
11. N97-9677	N7001 × Cook	F4
12. N97-10074	N7001 × N91-8005	F4
13. N98-7961	N7001 × NTCPR93-283	F4
14. SC97-1746	NK' S S83-30 × (Hutcheson × D87-4429)	
15. SC98-469	Hutcheson × NK' SS75-55	
16. SC98-679	Stonewall I × NK' SS75-55	
17. SC99-615	SC89-147 × G89-2223	

**TABLE 70 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN  
IN UNIFORM GROUP VIII, 2003**

STRAIN/ VARIETY	RANK	AVERAGE RANK	YIELD*			PROTEIN			OIL		
			2003	02-03	01-03	2003	02-03	01-03	2003	02-03	01-03
PRICHARD RR	15	12	43.9	.	.	43.4	.	.	18.8	.	.
COOK	8	8	47.7	41.6	41.9	42.9	42.1	41.6	19.2	19.0	19.4
Au99-1977	11	10	45.8	.	.	41.1	.	.	20.6	.	.
G99-1166	3	7	49.0	.	.	42.1	.	.	19.0	.	.
G99-1308	2	6	50.0	.	.	41.0	.	.	18.9	.	.
G99-2172	6	7	47.9	.	.	40.3	.	.	19.8	.	.
G99-3211	1	3	52.0	.	.	41.3	.	.	19.9	.	.
G02-G42164 RR	16	13	43.4	.	.	40.5	.	.	19.6	.	.
N96-6752	13	11	44.9	41.1	43.2	40.4	39.6	39.3	19.4	19.4	20.0
N97-9612	10	9	46.8	43.8	45.9	41.9	41.3	40.9	18.8	18.5	19.0
N97-9677	4	7	49.0	44.5	.	41.6	40.9	.	19.7	19.7	.
N97-10074	14	12	44.6	39.1	41.3	39.9	39.4	38.8	20.3	20.0	20.7
N98-7961	12	11	45.5	39.7	.	40.7	40.0	.	20.5	20.7	.
SC97-1746	9	9	47.2	43.3	43.9	42.6	42.4	41.7	19.2	19.6	19.9
SC98-469	7	8	47.7	42.9	.	41.4	41.1	.	20.1	20.4	.
SC98-679	17	13	41.3	39.4	.	41.8	41.1	.	19.7	20.1	.
SC99-615	5	7	48.5	.	.	41.6	.	.	19.6	.	.

**\*Data not included in mean: 2002 - Blackville, SC(B); Tallassee, AL(B)  
2001 - Florence, SC; Clinton, NC; Tallassee, AL(L)**

TABLE 70 ~ Continued

BOTANICAL TRAITS								
STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL COLOR	PUB. COLOR	POD COLOR
PRI CHARD RR	10/28	2.0	36	1.4	13.2	W	G	T
COOK	6-	1.8	34	1.7	16.4	P	T	T
Au99-1977	6-	1.4	32	1.7	14.0	P	G	
G99-1166	3-	1.5	36	1.5	15.9	P	T	T
G99-1308	4-	1.8	35	1.4	13.0	P	T	T
G99-2172	2-	2.2	37	1.4	13.4	W	T	T
G99-3211	2-	1.6	36	1.4	14.8	W	T	T
G02-G42164 RR	4-	1.5	34	1.6	11.8	W	G	T
N96-6752	5-	1.7	30	1.6	14.8	P	G	
N97-9612	7-	1.6	34	1.4	14.9	P	G	
N97-9677	4-	1.8	34	1.6	16.5	P	G	
N97-10074	7-	1.9	32	1.4	15.1	P	G	
N98-7961	5-	1.5	31	1.3	14.8	P	G	
SC97-1746	5-	1.8	34	1.5	16.4	W	G	T
SC98-469	4-	1.6	35	1.4	15.8	W	T	T
SC98-679	7-	1.6	34	1.6	16.2	W	T	T
SC99-615	4-	2.4	35	1.4	14.6	W	T	T

TABLE 70 ~ Continued

STRAIN/ VARIETY	PEST REACTIONS						
	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER
PRI CHARD RR	5.0	3.0	5.0	4.3	1.0	R	R
COOK	5.0	5.0	5.0	4.3	2.5	R	R
Au99-1977	5.0	1.0	5.0	5.0	2.8	R	R
G99-1166	5.0	1.0	5.0	4.0	2.3	R	R
G99-1308	5.0	1.0	5.0	3.3	1.0	R	S
G99-2172	5.0	1.0	5.0	4.5	1.0	R	S
G99-3211	5.0	1.0	5.0	5.0	1.3	R	R
G02-G42164 RR	5.0	1.0	5.0	4.0	1.0	R	
N96-6752	5.0	5.0	5.0	5.0	4.8	R	R
N97-9612	5.0	5.0	5.0	4.8	1.5	R	R
N97-9677	5.0	5.0	5.0	4.3	5.0	R	S
N97-10074	5.0	5.0	5.0	4.5	4.8	R	R
N98-7961	5.0	5.0	5.0	4.8	3.3	R	R
SC97-1746	5.0	1.0	5.0	4.5	1.0	R	R
SC98-469	5.0	1.0	3.0	4.5	1.5	R	R
SC98-679	5.0	2.0	4.0	5.0	1.3	S	S
SC99-615	5.0	1.0	4.0	5.0	5.0	R	R

**TABLE 71 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY  
GROWN IN UNIFORM GROUP VIII, 2003**

**EAST**

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
PRICHARD RR	41.5	48.1	44.8
COOK	45.2	43.9	44.5
Au99-1977	39.5	40.1	39.8
G99-1166	44.2	42.4	43.3
G99-1308	40.4	48.1	44.2
G99-2172	43.0	39.2	41.1
G99-3211	46.4	43.5	44.9
G02-G42164 RR	38.5	34.2	36.3
N96-6752	41.3	47.2	44.2
N97-9612	40.5	44.1	42.3
N97-9677	43.0	55.5	49.2
N97-10074	42.8	42.4	42.6
N98-7961	39.4	43.7	41.6
SC97-1746	42.5	38.3	40.4
SC98-469	40.0	47.9	43.9
SC98-679	34.2	34.8	34.5
SC99-615	41.3	50.2	45.7
L. S. D. (0.05)	4.7	11.0	.
C. V. (%)	6.9	15.2	.

TABLE 71 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA	ATHENS GA(L)	FAIRHOPE AL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
PRICHARD RR	51.9	43.2	48.6	40.2	41.0	33.6	46.7	43.6
COOK	48.9	52.7	59.0	46.7	42.8	33.3	56.5	48.6
Au99-1977	53.8	50.3	46.3	55.7	37.4	32.4	57.1	47.6
G99-1166	51.6	44.1	57.8	53.6	54.1	38.6	54.6	50.6
G99-1308	53.7	45.3	55.1	55.7	51.8	38.1	61.8	51.7
G99-2172	55.6	44.8	55.1	53.0	54.4	40.1	45.6	49.8
G99-3211	58.0	55.1	62.4	52.6	55.0	38.4	56.8	54.0
G02-G42164 RR	55.4	40.3	47.1	49.3	42.9	30.4	52.4	45.4
N96-6752	41.5	44.1	53.1	47.2	43.1	32.9	54.1	45.1
N97-9612	44.3	48.7	58.4	51.1	38.0	36.4	59.6	48.1
N97-9677	53.2	47.6	60.6	47.2	40.3	37.0	56.6	48.9
N97-10074	43.7	47.8	51.8	45.2	44.4	31.1	52.5	45.2
N98-7961	48.8	48.6	52.5	51.0	38.9	29.4	57.3	46.6
SC97-1746	52.1	55.0	50.8	51.6	50.6	30.5	53.6	49.2
SC98-469	57.7	51.2	54.3	45.4	46.5	38.4	48.1	48.8
SC98-679	47.6	45.7	52.1	39.9	39.5	38.9	38.9	43.2
SC99-615	49.2	48.3	56.9	49.0	46.6	40.8	54.0	49.3
L. S. D. (0.05)	6.7	7.8	7.1	5.4	9.8	6.3	5.3	.
C. V. (%)	8.0	9.9	7.8	6.6	13.1	10.7	6.0	.

**TABLE 72 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2003**

STRAIN/ VARIETY	OIL PERCENTAGES									MEAN
	ATHENS GA	ATHENS GA(L)	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	
PRICHARD RR	19.2	19.2	18.6	.	18.7	19.3	18.2	18.1	.	18.8
COOK	19.5	18.4	18.9	.	19.6	19.0	19.4	19.5	.	19.2
Au99-1977	21.3	19.9	20.9	.	20.5	19.8	20.9	21.0	.	20.6
G99-1166	19.2	18.6	19.7	.	19.0	18.4	19.0	19.4	.	19.0
G99-1308	19.7	18.0	19.2	.	18.8	19.1	18.3	19.4	.	18.9
G99-2172	20.6	19.6	20.2	.	20.1	20.1	19.8	17.9	.	19.8
G99-3211	20.3	19.2	20.7	.	20.3	19.2	20.4	19.5	.	19.9
G02-G42164 RR	19.5	19.0	19.9	.	20.0	19.2	19.4	20.0	.	19.6
N96-6752	19.9	18.5	19.3	.	19.5	19.4	19.4	19.9	.	19.4
N97-9612	19.0	18.1	18.7	.	19.2	18.6	18.7	19.1	.	18.8
N97-9677	20.2	19.5	19.9	.	20.0	19.3	19.6	19.4	.	19.7
N97-10074	20.6	19.6	20.0	.	21.2	20.1	20.2	20.4	.	20.3
N98-7961	20.5	19.6	20.9	.	20.1	20.3	21.4	20.5	.	20.5
SC97-1746	19.3	18.9	19.7	.	19.6	18.8	19.2	18.7	.	19.2
SC98-469	20.1	19.5	20.5	.	20.9	19.1	20.2	20.1	.	20.1
SC98-679	19.1	19.3	19.4	.	20.7	19.1	19.6	20.5	.	19.7
SC99-615	20.8	19.4	19.6	.	19.6	19.0	18.9	19.8	.	19.6



TABLE 72 ~ Continued

STRAIN/ VARIETY	PROTEIN PERCENTAGES									MEAN
	ATHENS GA	ATHENS GA(L)	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	
PRICHARD RR	43.3	39.7	47.7	.	40.1	41.0	46.2	45.8	.	43.4
COOK	43.0	42.5	44.5	.	41.9	41.6	43.4	43.2	.	42.9
Au99-1977	39.7	40.4	42.5	.	41.5	40.1	42.1	41.3	.	41.1
G99-1166	42.1	39.2	44.2	.	41.6	40.8	43.7	43.3	.	42.1
G99-1308	39.8	38.6	41.3	.	41.0	39.6	44.5	42.0	.	41.0
G99-2172	40.5	38.8	41.5	.	39.1	39.2	43.3	39.7	.	40.3
G99-3211	40.9	39.4	41.6	.	40.5	40.4	43.3	43.0	.	41.3
G02-G42164 RR	40.4	38.5	42.5	.	38.5	39.9	43.2	40.2	.	40.5
N96-6752	40.5	40.9	42.2	.	38.2	39.3	41.3	40.3	.	40.4
N97-9612	40.4	41.5	43.0	.	41.3	41.1	44.5	41.3	.	41.9
N97-9677	40.1	40.2	43.8	.	39.3	40.6	43.8	43.1	.	41.6
N97-10074	38.4	40.4	42.0	.	37.3	40.1	40.9	40.4	.	39.9
N98-7961	39.9	40.9	42.7	.	38.1	39.8	41.9	41.7	.	40.7
SC97-1746	41.9	41.6	43.5	.	42.4	42.7	44.0	42.1	.	42.6
SC98-469	39.6	39.0	43.1	.	40.2	40.9	44.0	43.2	.	41.4
SC98-679	40.8	40.0	44.0	.	40.3	40.7	45.1	41.9	.	41.8
SC99-615	41.2	40.5	43.3	.	40.6	41.7	41.7	42.3	.	41.6

TABLE 72 ~ Continued

STRAIN/ VARIETY	GRAMS PER 100 SEED									
	ATHENS GA	ATHENS GA(L)	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
PRICHARD RR	13.0	12.4	13.7	13.3	12.8	12.0	13.3	13.6	14.5	13.2
COOK	14.9	15.1	17.1	16.6	14.2	16.8	15.9	15.1	21.8	16.4
Au99-1977	13.1	12.8	15.5	14.3	11.8	13.8	14.1	15.2	15.5	14.0
G99-1166	15.1	14.0	16.9	16.1	14.3	14.9	17.2	15.9	19.1	15.9
G99-1308	12.8	11.5	14.2	12.8	11.6	12.2	12.6	13.3	16.1	13.0
G99-2172	12.5	12.7	14.8	12.7	12.0	13.1	13.7	14.7	14.7	13.4
G99-3211	14.1	14.3	16.0	14.9	12.5	14.3	14.7	15.4	17.1	14.8
G02-G42164 RR	12.3	11.1	11.9	11.5	11.2	10.8	12.1	12.2	13.3	11.8
N96-6752	13.4	13.9	16.0	14.8	13.1	15.1	14.6	14.5	17.7	14.8
N97-9612	14.1	14.1	15.5	14.4	13.3	14.5	14.2	14.8	19.1	14.9
N97-9677	15.2	15.0	17.9	15.6	14.7	15.8	15.4	17.0	21.9	16.5
N97-10074	14.0	14.5	16.2	15.5	13.4	14.7	15.0	14.9	17.4	15.1
N98-7961	14.4	14.7	15.4	15.0	13.4	13.4	13.1	15.5	18.6	14.8
SC97-1746	15.7	14.8	15.9	16.8	15.3	16.3	17.3	16.3	19.5	16.4
SC98-469	15.6	15.4	17.6	16.6	14.2	14.2	15.7	17.2	16.0	15.8
SC98-679	16.1	14.9	17.8	16.7	14.3	16.7	13.7	16.8	18.7	16.2
SC99-615	13.7	12.9	15.8	13.5	13.7	14.3	14.8	14.8	18.1	14.6

**TABLE 73 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN PRICHARD RR, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2003**

**EAST**

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
PRICHARD RR	11/04	10/31	11/02
COOK	-4	-13	-8
Au99-1977	-4	-13	-9
G99-1166	-1	-4	-2
G99-1308	-1	-4	-2
G99-2172	-1	-2	-1
G99-3211	0	-3	-2
G02-G42164 RR	-3	-3	-3
N96-6752	-4	-10	-7
N97-9612	-5	-13	-9
N97-9677	-2	-12	-7
N97-10074	-4	-14	-9
N98-7961	-4	-4	-4
SC97-1746	-4	-4	-4
SC98-469	-5	-3	-4
SC98-679	-9	-12	-11
SC99-615	-4	-4	-4

TABLE 73 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA	ATHENS GA(L)	FAIRHOPE AL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
PRICHARD RR	10/26	10/27	10/26	.	10/25	11/06	10/17	10/26
COOK	-9	-6	-6	.	-9	-2	0	-5
Au99-1977	-9	-4	-7	.	-9	-2	-4	-5
G99-1166	-4	-1	-4	.	-7	-2	0	-3
G99-1308	-6	-3	-3	.	-7	-2	-3	-4
G99-2172	-2	0	-1	.	-6	0	-2	-1
G99-3211	-4	0	-2	.	-7	-1	2	-2
G02-G42164 RR	-4	-3	-7	.	-9	-1	-2	-4
N96-6752	-9	-4	-5	.	-7	-2	2	-4
N97-9612	-9	-4	-5	.	-9	-2	-6	-5
N97-9677	-7	-3	-4	.	-5	-1	3	-2
N97-10074	-9	-4	-8	.	-8	-2	-7	-6
N98-7961	-6	-5	-6	.	-8	-2	-3	-5
SC97-1746	-6	-3	-8	.	-7	-2	-5	-5
SC98-469	-4	-3	-3	.	-9	-1	-2	-3
SC98-679	-6	-5	-3	.	-10	-2	-9	-6
SC99-615	-5	-3	-4	.	-7	-1	0	-3

**TABLE 74 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VIII, 2003**

**EAST**

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
PRICHARD RR	38	38	38
COOK	38	38	38
Au99-1977	34	36	35
G99-1166	38	37	37
G99-1308	39	37	38
G99-2172	40	37	38
G99-3211	38	35	37
G02-G42164 RR	34	36	35
N96-6752	37	31	34
N97-9612	37	37	37
N97-9677	37	39	38
N97-10074	36	34	35
N98-7961	33	33	33
SC97-1746	37	35	36
SC98-469	37	40	39
SC98-679	35	38	37
SC99-615	36	36	36

TABLE 74 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA	ATHENS GA(L)	FAIRHOPE AL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
PRICHARD RR	42	36	27	38	35	30	39	35
COOK	36	33	31	35	37	29	33	33
Au99-1977	38	33	24	35	32	27	32	32
G99-1166	37	35	28	40	40	30	39	36
G99-1308	32	34	25	38	37	29	39	34
G99-2172	42	33	31	36	44	31	39	36
G99-3211	41	35	29	39	39	29	38	36
G02-G42164 RR	43	31	29	37	38	25	38	34
N96-6752	31	29	23	29	34	24	34	29
N97-9612	36	35	29	34	35	26	37	33
N97-9677	34	35	26	33	38	29	33	33
N97-10074	31	32	27	32	31	25	37	31
N98-7961	33	32	20	34	36	24	33	30
SC97-1746	36	37	26	36	37	26	38	34
SC98-469	37	34	28	38	38	28	39	35
SC98-679	37	33	22	36	38	28	35	33
SC99-615	39	34	25	36	41	30	36	34

**TABLE 75 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VIII, 2003**

**EAST**

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
PRICHARD RR	2.3	3.0	2.7
COOK	2.3	2.5	2.4
Au99-1977	1.0	2.0	1.5
G99-1166	1.0	2.5	1.8
G99-1308	2.0	2.8	2.4
G99-2172	3.0	2.5	2.8
G99-3211	1.3	1.8	1.6
G02-G42164 RR	1.0	1.5	1.3
N96-6752	2.3	2.2	2.3
N97-9612	1.7	2.0	1.8
N97-9677	3.0	2.2	2.6
N97-10074	3.0	2.0	2.5
N98-7961	1.7	2.0	1.8
SC97-1746	2.7	1.8	2.3
SC98-469	1.3	2.0	1.7
SC98-679	2.0	1.8	1.9
SC99-615	2.0	2.7	2.3

TABLE 75 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA	ATHENS GA(L)	FAIRHOPE AL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
PRICHARD RR	3.0	3.0	1.0	2.0	1.0	1.0	1.7	1.8
COOK	2.3	2.0	1.0	2.0	1.0	1.0	1.7	1.6
Au99-1977	2.0	1.7	1.0	2.0	1.0	1.0	1.3	1.4
G99-1166	2.3	1.3	1.0	2.0	1.0	1.0	1.3	1.4
G99-1308	2.0	2.7	1.0	2.0	1.7	1.0	1.3	1.7
G99-2172	2.3	3.3	1.0	2.3	1.3	1.0	3.0	2.0
G99-3211	2.0	2.7	1.0	2.0	1.0	1.0	1.3	1.6
G02-G42164 RR	2.0	1.0	1.0	1.7	1.0	1.0	3.0	1.5
N96-6752	1.7	2.7	1.0	2.0	1.0	1.0	1.3	1.5
N97-9612	2.3	2.0	1.0	2.0	1.0	1.0	1.7	1.6
N97-9677	2.3	2.7	1.0	1.7	1.3	1.0	1.0	1.6
N97-10074	2.3	3.3	1.3	2.0	1.0	1.0	1.0	1.7
N98-7961	1.7	2.7	1.0	1.7	1.0	1.0	1.0	1.4
SC97-1746	2.7	2.0	1.0	2.3	1.0	1.0	1.3	1.6
SC98-469	2.3	2.3	1.0	2.0	1.0	1.0	1.7	1.6
SC98-679	2.3	2.3	1.0	2.0	1.0	1.0	1.3	1.6
SC99-615	3.0	4.0	1.0	3.0	2.0	1.0	3.3	2.5



**TABLE 76 ~ SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN  
UNIFORM GROUP VIII, 2003**

STRAIN/ VARIETY	EAST	
	JACKSON SPRINGS	
	NC	
PRICHARD RR	1.0	
COOK	1.5	
Au99-1977	2.0	
G99-1166	1.0	
G99-1308	1.0	
G99-2172	1.0	
G99-3211	1.0	
G02-G42164 RR	1.0	
N96-6752	1.5	
N97-9612	1.0	
N97-9677	1.5	
N97-10074	1.0	
N98-7961	1.0	
SC97-1746	1.5	
SC98-469	1.0	
SC98-679	1.5	
SC99-615	1.0	

TABLE 76 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA	ATHENS GA(L)	FAIRHOPE AL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
PRICHARD RR	1.5	1.5	1.0	1.5	1.0	1.0	2.7	1.5
COOK	1.5	1.5	1.5	2.0	2.0	1.0	2.7	1.7
Au99-1977	1.5	1.7	2.0	1.5	1.5	1.0	2.7	1.7
G99-1166	1.5	1.5	1.0	2.0	1.0	1.0	2.7	1.5
G99-1308	1.5	1.5	1.0	1.5	1.0	1.0	2.3	1.4
G99-2172	1.5	1.5	1.0	1.8	1.0	1.0	2.3	1.5
G99-3211	1.5	1.5	1.0	1.7	1.0	1.0	2.7	1.5
G02-G42164 RR	1.5	1.5	2.0	1.5	1.0	1.0	3.3	1.7
N96-6752	1.5	1.5	1.0	1.8	1.0	1.0	3.7	1.6
N97-9612	1.5	1.5	1.0	1.7	1.5	1.0	2.3	1.5
N97-9677	1.5	1.5	1.0	1.7	1.0	1.0	3.3	1.6
N97-10074	1.5	1.5	1.0	1.8	1.0	1.0	2.3	1.5
N98-7961	1.5	1.5	1.0	1.5	1.0	1.0	2.0	1.4
SC97-1746	1.5	1.5	1.0	1.7	1.0	1.0	2.7	1.5
SC98-469	1.5	1.5	1.0	1.7	1.0	1.0	2.3	1.4
SC98-679	1.5	1.5	1.5	1.5	1.0	1.0	3.3	1.6
SC99-615	1.5	1.5	1.0	1.5	1.0	1.0	3.0	1.5

**PRELIMINARY GROUP VIII****2003**

**Preliminary Group VIII nurseries were planted at 5 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 77. Table 78 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 79 - 85.**

**TABLE 77 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2003**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. PRICHARD RR	Coker 82-622 × Howard	
2. COOK	Braxton × Young	
3. Au00-307	SC91-2007 × N94-537	
4. Au00-611	SC93-827 × Au92-916	
5. Au00-1154	SC92-902 × Au92-763	
6. Au00-1259	SC92-902 × Au92-763	
7. Au00-1424	NC Roy × SC93-2082	
8. G00-888	Dol es × Benni ng	F5d
9. G00-1309	G92-1306 × Benni ng	F5d
10. G00-1986	Boggs × G92-2739	F5d
11. G00-3083	N7001 × Benni ng	F7d
12. G00-3234	N7001 × Boggs	F7d
13. G00-3364	N7001 × Boggs	F7d
14. G00-4071	G3-9201 × Cook	F7d
15. TCPPR-01-118	Di ll on × Si hromeyutaka	F4
16. TCPPR-01-126	Di ll on × Toyoshi rome	F4
17. TCPPR-01-154	Di ll on × Mi suzu Di azu	F4
18. TCPPR-01-155	Di ll on × Mi suzu Di azu	F4
19. SC00-620RR	SC92-2482/[Hagood(2)/BC1Resni kRR]	
20. SC00-625RR	SC92-3091/[Benni ng/(Hagood/BC1Resni kRR)]	
21. SC00-643RR	SC92-3091/[Benni ng/(Hagood/BC1Resni kRR)]	
22. SC00-646RR	SC92-3091/[Benni ng/(Hagood/BC1Resni kRR)]	
23. SC00-649RR	SC92-3091/[Benni ng/(Hagood/BC1Resni kRR)]	
24. SC00-661RR	SC92-3091/[Benni ng/(Hagood/BC1Resni kRR)]	
25. SC00-693RR	SC92-3091/[Maxcy(2)/BC1Resni kRR]	
26. SC00-695RR	SC92-3091/[Maxcy(2)/BC1Resni kRR]	

**TABLE 78 ~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2003 ~ MEAN OF 5 LOCATIONS**

STRAIN/ VARIETY	SEED YIELD	AVG. RANK	MAT. RANK	INDEX	LOGGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----	STEM CANKER	SCN 2	SCN 3	SCN 14	FL COLOR	PUB. COLOR	POD COLOR	
PRICHARD RR	45.2	15	7	10/31	2.6	41	1.7	12.8	42.6	18.8	R	5.0	3.0	5.0	W	G	T
COOK	48.4	10	6	7-	2.0	38	2.0	16.2	42.6	18.9	R	5.0	5.0	5.0	P	T	T
Au00-307	51.7+	4	4	5-	1.9	35	1.8	15.4	41.0-	19.0	S	4.0	5.0	5.0	P	T	
Au00-611	51.2+	5	4	5-	2.1	34	1.8	16.3	40.9-	19.7+	R	5.0	5.0	5.0	P	G	
Au00-1154	42.6	20	8	1-	3.2	40	2.3	12.0	41.1-	18.7	S	5.0	1.0	5.0	W	G	
Au00-1259	49.6	7	5	5-	2.1	32	1.8	12.4	39.8-	19.7+	S	5.0	2.0	5.0	W	T	
Au00-1424	46.5	13	6	2-	2.2	35	1.6	14.3	40.9-	18.8	S	5.0	5.0	5.0	W	T	
G00-888	50.4	6	5	6-	1.9	39	1.8	12.3	40.1-	19.5+	S	5.0	1.0	5.0	P	T	T
G00-1309	49.0	8	5	6-	2.3	34	2.1	15.2	41.5	19.9+	S	5.0	2.0	5.0	W	T	T
G00-1986	47.9	11	5	2-	2.4	39	1.6	14.9	41.0-	20.0+	R	5.0	5.0	5.0	W	T	T
G00-3083	48.8	9	6	2-	1.7	38	1.6	16.4	41.7	19.0	R	5.0	1.0	5.0	P	T	T
G00-3234	52.7+	2	4	5-	1.6	37	1.6	14.4	42.5	19.0	S	5.0	1.0	5.0	P	T	T
G00-3364	54.0+	1	3	5-	1.7	36	1.5	14.7	43.8	18.8	S	5.0	1.0	5.0	W	T	T
G00-4071	51.9+	3	4	4-	2.4	37	1.9	14.1	41.3-	19.2	S	5.0	1.0	5.0	P	T	T
TCPPR-01-118	40.8	24	9	3-	2.0	40	1.8	18.0	41.3-	18.2-	R	5.0	5.0	5.0	P	G	
TCPPR-01-126	40.5	25	9	3-	2.6	40	2.3	20.2	43.6	17.7-	S	5.0	5.0	5.0	P	G	
TCPPR-01-154	40.2	26	10	8-	2.0	36	1.8	16.4	40.0-	18.0-	R	5.0	5.0	5.0	P	G	
TCPPR-01-155	42.1	22	9	4-	2.3	39	2.1	17.7	43.2	17.8-	R	5.0	5.0	5.0	W	G	
SC00-620RR	42.5	21	8	3-	2.2	40	2.1	14.5	43.4	18.9	S	5.0	1.0	5.0	W	G	T
SC00-625RR	42.8	18	8	0	2.4	42	1.6	13.4	42.6	19.4	S	4.0	1.0	5.0	P	T	T
SC00-643RR	47.1	12	6	4-	1.7	35	1.6	15.1	43.6	19.4	S	5.0	1.0	5.0	W	T	T
SC00-646RR	43.4	17	8	3-	2.4	41	1.6	15.0	41.9	19.3	S	4.0	1.0	5.0	W	T	T
SC00-649RR	45.8	14	7	7-	1.9	38	2.0	13.2	41.3-	19.3	S	5.0	1.0	5.0	W	G	T
SC00-661RR	42.6	20	9	2-	2.6	42	1.9	13.4	42.8	19.2	S	5.0	1.0	5.0	P	G	T
SC00-693RR	41.3	23	9	1-	2.3	38	1.9	14.7	41.2-	17.9-	R	5.0	1.0	5.0	P	T	T
SC00-695RR	44.8	16	7	3-	2.5	37	1.9	14.1	41.3-	19.2	R	5.0	1.0	5.0	P	T	T
OVERALL MEAN	46.3								41.8	19.0							
LSD (.05)	5.5								1.2	0.6							
C. V.	9%								2%	2%							

**TABLE 79 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY  
GROWN IN PRELIMINARY GROUP VIII, 2003**

STRAIN VARIETY	ATHENS GA	BLACKVILLE SC(A)	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	MEAN
PRI CHARD RR	50.1	53.6	23.9	53.2	45.4	45.2
COOK	50.2	59.7	38.0+	45.9	48.3	48.4
Au00-307	59.8	44.9	32.8+	60.5	60.6	51.7+
Au00-611	55.3	56.2	35.4+	57.2	51.8	51.2+
Au00-1154	51.2	35.7-	27.7	53.1	45.4	42.6
Au00-1259	58.3	51.1	29.8+	60.0	48.8	49.6
Au00-1424	51.5	49.1	27.3	59.0	45.7	46.5
G00-888	57.2	51.2	35.2+	57.3	51.3	50.4
G00-1309	58.8	51.6	31.5+	52.8	50.5	49.0
G00-1986	52.1	52.2	25.7	55.4	54.3	47.9
G00-3083	55.9	56.9	32.1+	54.8	44.5	48.8
G00-3234	59.2	56.6	31.2+	56.1	60.2	52.7+
G00-3364	59.4	59.6	30.2+	61.7+	58.9	54.0+
G00-4071	55.4	51.1	32.0+	59.8	61.3	51.9+
TCPPR-01-118	43.9	51.8	28.2	41.3-	38.8	40.8
TCPPR-01-126	43.8	42.2-	32.7+	50.1	33.5	40.5
TCPPR-01-154	44.1	44.5	24.6	43.4-	44.1	40.2
TCPPR-01-155	41.3	51.7	27.1	45.4	45.0	42.1
SC00-620RR	46.3	47.5	25.2	50.4	43.2	42.5
SC00-625RR	46.7	41.2-	27.4	47.1	51.9	42.8
SC00-643RR	57.2	45.2	31.6+	53.0	48.4	47.1
SC00-646RR	56.2	41.3-	29.3	50.9	39.3	43.4
SC00-649RR	51.7	48.0	28.6	47.5	53.3	45.8
SC00-661RR	45.1	45.0	29.7+	47.6	45.5	42.6
SC00-693RR	49.7	44.7	23.0	42.7-	46.4	41.3
SC00-695RR	47.3	52.6	27.4	46.4	50.1	44.8
L. S. D. (0.05)	10.7	11.3	5.7	8.0	16.8	5.5
C. V. (%)	10.1	11.1	9.4	7.4	16.8	9.4

**TABLE 80 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VIII, 2003**

STRAIN/ VARIETY	ATHENS GA	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	MEAN
PRI CHARD RR	19.0	18.1	19.5	18.4	18.8
COOK	19.1	18.1	19.0	19.2	18.9
Au00-307	18.9	19.1	18.6	19.5	19.0
Au00-611	19.6	19.3	20.2	19.7	19.7
Au00-1154	19.3	17.7	19.3	18.4	18.7
Au00-1259	19.3	18.6	20.6	20.3	19.7
Au00-1424	18.0	18.5	19.5	19.3	18.8
G00-888	19.3	18.9	19.9	19.8	19.5
G00-1309	19.9	19.2	20.6	19.7	19.9
G00-1986	19.4	19.1	20.8	20.7	20.0
G00-3083	18.6	18.4	19.7	19.2	19.0
G00-3234	18.3	18.3	19.6	19.8	19.0
G00-3364	17.9	17.5	20.1	19.5	18.8
G00-4071	19.0	18.3	19.8	19.6	19.2
TCPPR-01-118	17.8	17.4	19.3	18.1	18.2
TCPPR-01-126	17.7	17.3	18.8	17.1	17.7
TCPPR-01-154	17.2	17.2	18.9	18.5	18.0
TCPPR-01-155	17.8	17.0	18.6	17.6	17.8
SC00-620RR	19.1	17.9	19.6	19.0	18.9
SC00-625RR	19.1	18.5	20.0	20.0	19.4
SC00-643RR	19.2	18.7	20.2	19.4	19.4
SC00-646RR	19.2	18.7	20.1	19.2	19.3
SC00-649RR	19.1	18.6	19.9	19.6	19.3
SC00-661RR	19.1	18.4	20.2	19.0	19.2
SC00-693RR	17.8	17.2	18.6	17.9	17.9
SC00-695RR	19.0	18.9	20.1	18.8	19.2

**TABLE 81 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VIII, 2003**

STRAIN/ VARIETY	ATHENS GA	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	MEAN
PRI CHARD RR	40.4	42.1	42.4	45.5	42.6
COOK	40.9	43.1	42.9	43.6	42.6
Au00-307	41.7	40.7	39.6	42.0	41.0
Au00-611	38.9	41.1	41.0	42.7	40.9
Au00-1154	39.8	41.9	40.0	42.5	41.1
Au00-1259	38.4	40.3	39.7	40.8	39.8
Au00-1424	38.6	41.7	41.1	42.0	40.9
G00-888	38.8	40.6	39.2	41.8	40.1
G00-1309	40.3	42.3	40.0	43.5	41.5
G00-1986	39.4	41.7	40.0	42.7	41.0
G00-3083	41.4	43.2	40.3	41.9	41.7
G00-3234	41.0	44.0	41.6	43.2	42.5
G00-3364	42.4	44.7	43.1	45.0	43.8
G00-4071	40.3	41.7	40.9	42.2	41.3
TCPPR-01-118	40.4	42.0	38.6	44.1	41.3
TCPPR-01-126	41.7	44.0	43.2	45.5	43.6
TCPPR-01-154	38.9	41.0	40.0	40.0	40.0
TCPPR-01-155	40.8	45.0	41.8	45.3	43.2
SC00-620RR	41.9	43.0	43.1	45.5	43.4
SC00-625RR	41.1	43.2	41.4	44.6	42.6
SC00-643RR	43.8	42.5	42.0	46.1	43.6
SC00-646RR	40.3	40.9	41.5	44.9	41.9
SC00-649RR	39.5	41.9	41.1	42.7	41.3
SC00-661RR	41.0	43.5	41.2	45.5	42.8
SC00-693RR	38.6	42.5	40.2	43.3	41.2
SC00-695RR	40.5	41.3	40.4	42.9	41.3



**TABLE 82 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2003**

STRAIN VARIETY	ATHENS GA	BLACKVILLE SC(A)	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	MEAN
PRI CHARD RR	13.2	13.8	11.8	12.6	12.7	12.8
COOK	15.2	18.0	13.1	18.2	16.4	16.2
Au00-307	15.5	16.7	13.4	15.8	15.7	15.4
Au00-611	16.5	17.0	14.6	16.9	16.5	16.3
Au00-1154	13.1	11.6	11.1	12.6	11.7	12.0
Au00-1259	13.2	12.7	11.0	13.1	12.1	12.4
Au00-1424	14.7	14.5	12.3	15.6	14.5	14.3
G00-888	12.0	12.7	11.9	11.7	13.2	12.3
G00-1309	13.9	15.6	13.8	16.5	16.0	15.2
G00-1986	14.6	15.7	13.9	15.2	15.1	14.9
G00-3083	16.5	17.8	15.9	15.7	16.1	16.4
G00-3234	14.7	15.8	12.3	14.7	14.6	14.4
G00-3364	15.0	15.9	13.3	14.4	15.0	14.7
G00-4071	14.5	14.4	11.9	15.1	14.9	14.1
TCPPR-01-118	18.4	19.9	16.4	17.6	17.6	18.0
TCPPR-01-126	20.1	21.0	18.6	20.2	21.4	20.2
TCPPR-01-154	16.4	17.0	14.5	17.0	17.0	16.4
TCPPR-01-155	17.3	19.5	15.2	18.1	18.4	17.7
SC00-620RR	14.8	15.4	12.3	15.2	14.8	14.5
SC00-625RR	14.0	13.9	12.5	12.9	14.0	13.4
SC00-643RR	15.8	14.2	13.3	16.3	15.9	15.1
SC00-646RR	15.6	15.3	13.1	15.5	15.4	15.0
SC00-649RR	13.0	12.8	11.3	13.4	15.5	13.2
SC00-661RR	14.3	14.7	12.1	12.8	13.2	13.4
SC00-693RR	15.2	14.4	13.5	14.3	16.0	14.7
SC00-695RR	14.9	14.0	12.7	14.2	14.6	14.1

**TABLE 83 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2003**

STRAIN VARIETY	ATHENS GA	BLACKVILLE SC(A)	PLAINS GA	TALLASSEE AL	MEAN
PRI CHARD RR	43	38	43	40	41
COOK	38	36	38	42	38
Au00-307	40	27	38	35	35
Au00-611	37	29	35	35	34
Au00-1154	46	38	39	38	40
Au00-1259	35	26	35	32	32
Au00-1424	39	31	38	34	35
G00-888	41	38	42	37	39
G00-1309	37	33	37	29	34
G00-1986	37	37	36	45	39
G00-3083	43	32	42	37	38
G00-3234	39	30	42	39	37
G00-3364	34	36	37	36	36
G00-4071	38	32	39	41	37
TCPPR-01-118	42	36	43	39	40
TCPPR-01-126	36	36	44	46	40
TCPPR-01-154	38	32	41	35	36
TCPPR-01-155	40	34	42	42	39
SC00-620RR	42	37	43	40	40
SC00-625RR	44	40	46	41	42
SC00-643RR	35	32	41	34	35
SC00-646RR	43	36	43	42	41
SC00-649RR	39	36	42	36	38
SC00-661RR	48	37	45	37	42
SC00-693RR	44	38	30	42	38
SC00-695RR	38	37	39	35	37

**TABLE 84 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2003**

STRAIN VARIETY	ATHENS GA	BLACKVILLE SC(A)	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	MEAN
PRI CHARD RR	3.0	3.3	3.5	2.0	1.0	2.6
COOK	2.0	2.0	3.0	2.0	1.0	2.0
Au00-307	2.0	1.0	3.5	2.0	1.0	1.9
Au00-611	2.0	2.0	3.5	2.0	1.0	2.1
Au00-1154	3.5	4.0	4.0	3.5	1.0	3.2
Au00-1259	2.5	1.5	3.0	2.5	1.0	2.1
Au00-1424	3.0	2.3	2.5	2.0	1.0	2.2
G00-888	2.0	2.0	2.5	2.0	1.0	1.9
G00-1309	2.5	2.3	2.5	2.5	1.5	2.3
G00-1986	2.5	2.5	4.0	2.0	1.0	2.4
G00-3083	2.0	1.0	3.0	1.5	1.0	1.7
G00-3234	1.5	1.0	2.5	2.0	1.0	1.6
G00-3364	1.5	1.8	2.5	1.5	1.0	1.7
G00-4071	2.5	2.3	3.0	3.0	1.0	2.4
TCPPR-01-118	2.5	2.0	2.5	2.0	1.0	2.0
TCPPR-01-126	3.0	3.3	2.5	3.0	1.0	2.6
TCPPR-01-154	2.5	2.3	2.0	2.0	1.0	2.0
TCPPR-01-155	3.5	2.3	2.5	2.0	1.0	2.3
SC00-620RR	2.0	2.5	3.0	2.5	1.0	2.2
SC00-625RR	2.5	3.0	3.5	2.0	1.0	2.4
SC00-643RR	2.0	1.0	2.5	2.0	1.0	1.7
SC00-646RR	2.5	3.0	3.5	2.0	1.0	2.4
SC00-649RR	2.0	2.0	2.5	2.0	1.0	1.9
SC00-661RR	3.0	3.0	3.5	2.5	1.0	2.6
SC00-693RR	2.5	3.0	2.5	2.5	1.0	2.3
SC00-695RR	3.0	2.5	3.5	2.5	1.0	2.5

**TABLE 85 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2003**

STRAIN/ VARIETY	ATHENS	JACKSON SPRINGS	PLAINS	TALLASSEE	MEAN
	GA	NC	GA	AL	
PRI CHARD RR	1.8	2.0	2.0	1.0	1.7
COOK	1.5	2.5	2.0	2.0	2.0
Au00-307	1.5	2.5	2.0	1.0	1.8
Au00-611	1.5	2.5	2.0	1.0	1.8
Au00-1154	1.5	3.0	3.5	1.0	2.3
Au00-1259	1.5	2.0	2.5	1.0	1.8
Au00-1424	1.5	2.0	2.0	1.0	1.6
G00-888	1.5	2.5	2.0	1.0	1.8
G00-1309	1.5	2.5	2.5	2.0	2.1
G00-1986	1.5	2.0	2.0	1.0	1.6
G00-3083	1.5	2.5	1.5	1.0	1.6
G00-3234	1.5	2.0	2.0	1.0	1.6
G00-3364	1.5	2.0	1.5	1.0	1.5
G00-4071	1.5	2.0	3.0	1.0	1.9
TCPPR-01-118	1.5	2.5	2.0	1.0	1.8
TCPPR-01-126	1.5	2.5	3.0	2.0	2.3
TCPPR-01-154	1.5	2.5	2.0	1.0	1.8
TCPPR-01-155	1.5	3.0	2.0	2.0	2.1
SC00-620RR	1.5	2.5	2.5	2.0	2.1
SC00-625RR	1.5	2.0	2.0	1.0	1.6
SC00-643RR	1.5	2.0	2.0	1.0	1.6
SC00-646RR	1.5	2.0	2.0	1.0	1.6
SC00-649RR	1.5	2.5	2.0	2.0	2.0
SC00-661RR	1.5	2.5	2.5	1.0	1.9
SC00-693RR	1.5	2.5	2.5	1.0	1.9
SC00-695RR	1.5	2.5	2.5	1.0	1.9