

# UNIFORM SOYBEAN TESTS

## SOUTHERN STATES

### 2004

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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: AG 4201(RR), LN97-15076, DK4868(RR), 5002T, 5601T, Boggs RR, 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, 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
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- 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:

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

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  $(DI \times DS)/9$ . 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 - 2004

STRAIN	FEMALE PARENT X MALE PARENT	NOTES
5002T (Exp. TN96-68)	Holladay x Manokin	
5601T (Exp. TN96-58)	Hutcheson x TN89-39	
A72-512	Amsoy x Wayne	
A94-774021	Jacques J285 x Northrup King S29-39	
Anand	Holladay x Hartwig	
Arksoy-2913	Selection out of Arksoy	
Asmara (Exp. VS96-239)	PI 417288 x T135 x PI 83945-4	
Au82-211	N73-693 x F76-8757	
Au82-589	N74-1572 x (Govan x Davis) x F76-8846	
Au85-1088	Wright x Coker Co79-501	
Au90-585	Hutcheson x Au82-589	
Au92-763	G83-198 x Au85-1088	
Au92-916	N85-574 x Haskell	
Bay (Exp. V72-580)	York x R62-550	
Bedford (Exp. J74-46)	Forrest(2) x (D68-18 x PI 88788)	
Benning (Exp. G88-3266)	Hutcheson x Coker 6738	
Boggs (Exp. G89-2223)	G81-152 x Coker 6738	
Bolivar (Exp. DT95-15091)	A5979 x DP3589	
Bragg (Exp. F58-3786)	Jackson x D49-2491	
Bryan (Exp. G81-234)	Centennial x Bedford	
C1069	C985	
C985	Lincoln x Ogden	
Caviness	Hutcheson x A5403	
Centennial (Exp. D70-3185)	D64-4636 x Pickett 71 off-type (tawny pubescent type)	
Coker 237	Hutton x N63-858	
Coker 485	Centennial x (Hampton 266 x Bragg) x Hutton	
Coker Co72-211	Hampton 266 x Bragg	
Coker Co79-501	Coker Co72-211 x Centennial	
Coker Co82-622 (Rel. as Northrup King S83)	Braxton x Coker 368	
Colquitt (Exp. G or GA80-1011)	Wright x Braxton	
Columbus (Exp. K62-7221)	C1069 x Clark	
Cook (Exp. G83-266)	Braxton x Young	
Crawford (Exp. K1019)	Williams x Columbus	
D49-2491 (sib of Lee)	S-100 x CNS	
D49-2525 (sib of Lee)	S-100 x CNS	
D49-2573	Roanoke x N45-745	
D51-4877 (sib of Hood)	Roanoke x N45-745	
D52-810	N48-1101 x	
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 L Narrow leaf into D49-2491)	
D63-215	Haberlandt x Dunfield	
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 Phytophthora resistant D67-B5=narrow leaf Lee res. To P.R.	
D68-18	Dyer x Bragg	
D68-216	Dyer x Bragg	D68-216 = same parentage as Forrest

STRAIN	FEMALE PARENT X MALE PARENT	NOTES
D68-8847	Tawny pubescent type from the same cross as Pickett 71	
D70-3001	D64-4636 × D68-8847	D70-3001=same parentage as Centennial
D74-7741	Forrest × D70-3001	
D74-7824	Forrest × D70-3001	
D77-6103	Centennial × J74-49	
D79-6058	Tracy × Centennial	
D91-4657	Epps × Sharkey	
Dare (Exp. N59-6972)	Hill × D52-810	
Davis (Exp. R54-171-1)	D49-2573 × N45-1497	
Derry	[(Wilson (6) × Forrest) × (Perry × (Williams × PI 229358))] × Tracy M	
Dillon (Exp. SC84-931)	Centennial × Young	
Doles (Exp. G83-198)	D74-7741 × Young	
DR-1 = breeding line or unofficially released cultivar from Egypt. (pedigree unknown but traces to US materials).		
DT95-15091 (Rel. as Bolivar)	A5979 × DP3589	
DT96-6840	Hutcheson × Pioneer P9641	
Epps (Exp. D77-5090)	[Pickett 71(2) × (Dare(2) × PI 96983)] × J74-47	
Essex (Exp. V66-180)	Lee × S55-7075	
F76-8757	Centennial × [Forrest × (Cobb × D68-216)]	
F76-8846	Centennial × [Forrest × (Cobb × D68-216)]	
F77-1797	Centennial × Forrest × (Cobb × D68-216)	
F77-6903	Forrest × Cobb × D68-216	
F81-2815	Centennial × Cobb × Hood	
Forrest (Exp. D68-128)	Dyer × Bragg	
Fowler (Exp. J94-7)	Hartwig × Holladay	
G00-3880	G93-9201 × Cook	
G03-548RR	G95-346 × H7242 RR	
G03-695RR	G94-3117 × H7242 RR	
G03-G1126RR	G93-1749(6) × RR	
G03-G113169RR	G90-R1151E(5) × RR	
G80-1515	Pickett 71 × Bedford	
G81-152	D74-7741 × Coker 237	
G83-198 (Rel. as Doles)	D74-7741 × Young	
G83-559	D77-6103 × F77-6903	
G85-3343	PI 361064 × PI 407710	
G85-373	Gordon × Braxton	
G86-1434	D79-6058 × Twigg	
G86-2734	PI 424195B × PI 361066A	
G87-1968	Thomas × Gordon	
G89-2223 (Rel. as Boggs)	G81-152 × Coker 6738	
G90-R1151E	Coker 82-622 × Howard	
G91-2244	F81-2815 × Colquitt	
G93-1749	G85-373 × Coker 6727	
G93-9201	G83-559 × G80-1515 (2) × PI 230977	
G94-3117	G86-1434 × Hagood	
G95-346	G86-1434 × G87-1968	
Gasoy 17	Bragg × Hood	
Govan (Exp. D66-8666)	Bragg × Semmes	
H7242 RR	Bennig(4) × RR	
Hampton	Majos × Lee	Derived as a selection from Coker Hampton
Hampton 266	Selection from Hampton	
Hartwig (Exp. S88-2036)	Forrest(3) × PI 437654	
Haskell (Exp. G-84-3185)	Johnston × Braxton	
Hawkeye (Exp. A43-107 or 108)	Mukden × Richland	
Hill (Exp. D53-526)	D63-215 × D49-2525	
Holladay (Exp. N85-578)	N77-179 × Johnston	



STRAIN	FEMALE PARENT X MALE PARENT	NOTES
Hood (Exp. D51-4888)	Roanoke x N45-745	
HS 89-3261	LG 82-8379 x ASG A2943	
Hutcheson (Exp. V78-184)	V68-1034 x Essex	
Hutton	F55-822 x Roanoke x CNS-4	
J 74-5	Forrest x D68-18 x PI 88788	
J22	L37-1355 x Arksoy-2913	
J74-45	Forrest (2) x D68-18 x PI 88788	same parentage as Bedford
J74-47	Forrest(2) x (D68-18 x PI 88788)	same parentage as Bedford
J74-49	Forrest (2) x D68-18 x PI 88788	same parentage as Bedford
Jackson (Exp. N47-3479)	Volstate(2) x Palmetto	
Johnston (Exp. N76-1507)	N70-2173 x Hutton	
JTN-5104	Fowler x S95-1908	
JTN-5303	R93-171 x Anand	
K1044	Tracy x Williams	
K1191 (Rel. as KS4694)	Sherman x Toano	
K1192 (Rel. as KS4895)	Sherman x Bay	
K1235	Hutcheson x A3427	
K1276	Coker 425 x A3427	
K1364	Rhodes x Holladay	
K1393	KS5292 x Hutcheson	
K97-132	K1235 x K97-34	
K97-134	K1276 x K97-38	
K97-138	Hartwig x K97-40	
K97-34	K1235 x RR	
K97-38	K1276 x RR	
K97-40	Stressland x RR	
KS4694 (Exp. K1191)	Sherman x Toano	
KS4895 (Exp. K1192)	Sherman x Bay	
KS4997	Pioneer P5482 x Asgrow A3127	
KS5292 (Exp. K81-27-278)	Essex x Forrest	
KS5502N	Hartwig x KS4895	
KY84-1616	K1044 x Williams	
KY88-4080	K1099 x Hutcheson	
KY90-1208	A3935 x V78-184	
KY91-11114	Asgrow A3935 x KY84-1616	
KY91-1214	P9391 x KY84-1616	
L15 (Exp. L65-4059)	Wayne(6) x Clark63	L15 contains Rps 1
L37-1355	Rouge out of PI 810x	
L46-5679	Lincoln x Richland	
L49-4091	(Lincoln(2) x Richl x (Lincoln x CNS)	
L57-0034	Clark x Adams	
L70L-3048	L15 (Wayne Rps) x D64-3146	
L75-8020	Corsoy type resistant to phytophthora rot	
L76-0132	Beeson x PI 171451	
L77-443	Union x L75-8020	
L77-906	Corsoy type resistant to phytophthora rot	
L77-994	Williams (2) x PI 88788	
L80-4349	Williams (2) x PI 88788	
Lee (Exp. D49-2524)	S-100 x CNS	
Leflore (Exp. D77-6166)	Centennial x J74-47	
LG93-8169	G85-3343 x G86-2734	
Lincoln (Exp. L36-685)	Unknown x	
LS 78-W245	Franklin x J 74-5	
LS 84-920	LS 78-W245 x Fayette	
LS92-4137	Flyer x Pyramid	
Majos	Tokyo x Yelrado	

STRAIN	FEMALE PARENT X MALE PARENT	NOTES
Manokin (Exp. Md 83-5008)	L70L-3408 × D74-7824	
Md 01-709 RR	Md 95-5358 × Md92-5850(2) × (Stressland × ResnikRR)	
Md 01-848 RR	Md 93-5581 × Manokin(3) × ResnikRR	
MD 4900 (Exp. Md 92-5769)	N85-578 × Ripley	
Md 83-5008 (Rel. as Manokin)	L70L-3048 × D74-7824	
Md 87-5669	L80-4349 × Egyptian	
Md 92-5769 (Rel. as MD 4900)	N85-578 × Ripley	
Md 92-5850	Hamilton × Bass	
Md 93-5298	Md 87-5669 × Edison	
Md 93-5581	LS 84-920 × Manokin	
MD 94-5332	Clifford × Corsica	
Md 94-5396	Ripley × Clifford	
Md 95-5358	S 88-19561 × Corsica	
MD83-5008 (Rel. as Manokin)	L70L-3048 × D74-7824	
N00-370	Au92-916 × N90-845	
N01-10974	N6201 × N95-7390	
N01-110665-1	N94-7460 × N7101	
N01-11136	NTCPR94-5157 × N96-7031	
N01-11777	Graham × N96-7031	
N01-11985	Graham × LG93-8169	
N02-7084	Cook × Anand	
N44-92	Haberlandt × Ogden	
N45-1497	Ral soy × Ogden	
N45-745	Ogden × CNS	N45-745 is res to BP
N474	N88-431(2) × (N90-2013 X C1726)	
N48-1101	Roanoke × Ogden	
N48-1248	Roanoke × N45-745	
N48-1867	Roanoke × N45-745	
N55-3818	(N45-2994 × Ogden) × (N44-92 × N48-1867)	
N55-3831	(N45-2994 × Ogden) × (N44-92 × N48-1867)	
N55-5931	Roanoke × D49-2491	
N6201 (Exp. NTCPR92-40)	Young × Nakasennari	
N63-858	D58-3358 × D59-9289	
N64-2430 (Rel. as Ransom)	(N55-5931 × N55-381) × D56-1185	
N64-2451	(N55-5931 × N55-381) × D56-1185	sib of Ransom
N7001 (Exp. N90-7199)	N77-114 × PI 416937	
N70-1501	Dare × D65-6765	
N70-1549	Dare × D65-6765	grown in 1974
N70-2173	Hampton × Ransom	
N70-2205	Hampton × Ransom	
(N70-3001, N70-3010, N70-3019, N70-3432, N70-3433, N70-3436)	T260H(N69-2774)(ms1ms1) × PI 90406 × PI 92567	
N7101 (Exp. NTCPR92-100)	Vance × Jizuka	
N7102 (Exp. NTCPR92-115)	Vance × Jizuka	
N7103 (Exp. N94-7441)	NTCPR90-143 × Pearl	
N72-3213	D67-B5 × N64-2451	pedigree of N72-3213 in Buckshot and Clifford published in Crop Science is incorrect
N72-40	D64-3253 × D65-3168	
N73-1102	Tracy × Ransom	
N73-520	Tracy × Ransom	
N73-538	Tracy × Ransom	
N73-693	D68-216 × Ransom	
N74-1572	Govan × Davis	
N77-114	Essex × N70-2173	
N77-1602	Hutton × N70-2205	
N77-179	N70-1549 × N72-3213	
N77-940	N70-1549 × Centennial	
N78-2245	N69-2774 (ms1ms1) × PI 90409 or PI92567	N78-2245 from recurrent sel. Program

STRAIN	FEMALE PARENT X MALE PARENT	NOTES
N79-2077	N69-2774 (ms1ms1) × 6 F3 lines (N70-3001, N70-3010, N70-3019, N70-3432, N70-3433, N70-3436)	
N79-2077-12	selection from N79-2077	
N79-491	N70-1501 × Centennial	
N79-491	N70-1501 × Centennial	
N80-777	N70-1501 × N72-40 × N73-538	
N82-2037	N73-1102 × 330-26-29-4	
N83-1014	Gasoy 17 × N77-940	
N84-1299	RS4 - Cycle 1 ×	
N85-574 (sib of Holladay)	N77-179 × Johnston	
N85-578 (sib of Holladay)	N77-179 × Johnston	
N85-67	N77-179 × Epps	
N86-491	N77-1602 × F77-1797	
N87-2117-3	N78-2245 × PI 123440	
N87-2120-3	N78-2077 × PI 123440	
N87-325	N77-114 × N77-179	
N87-539	N79-491 × Gasoy 17	
N88-431	N84-1299 × N82-2037	
N90-2013	PI 123440 × N79-2077-12	
N90-516	Hutcheson × N83-1014	
N90-541	Hutcheson × N83-1014	
N90-7199 (Rel. as N7001)	N77-114 × PI 416937	
N90-7202	N77-114 × PI 416937	
N90-7241	Gasoy × PI 416937	
N90-845	Brim × N80-777	
N93-132 (Rel. as Soyola)	Brim × N87-2117-3 × Brim	
N93-54	N85-67 × Holladay	
N94-199	Brim (3) × N87-2120-3	
N94-3405	N87-539 × Hartwig	
N94-537	Cook × Clifford	
N94-7440 (sib of N7103)	NTCPR90-143 × Pearl	
N94-7441 (Rel. as N7103)	NTCPR90-143 × Pearl	
N94-7460 (sib of N7103)	NTCPR90-143 × Pearl	
N95-7390	Young × Fukuyataka	
N96-6752	N90-7202 × N7001	
N96-7031	N7001 × N90-7241	
N97-8935	Hutcheson × PI 407948	
N97-9612	N7001 × Cook	
N97-9658	N7001 × Cook	
N97-9677	N7001 × Cook	
N97-9693	N7001 × Cook	
N98-7961	N7001 × NTCPR93-283	
N99-8137	N7001 × Graham	
NC Roy	Holladay × Brim	
Northrup King S83-30 (Exp. Coker 82-622)		
NTCPR01-42	DR-1 × Brim	
NTCPR90-143	Gasoy × Vance	
NTCPR90-172 (Rel. as Pearl)	G80-1515 × Vance	
NTCPR92-100 (Rel. as N7101)	Vance × Jizuka	
NTCPR92-115 (Rel. as N7102)	Vance × Jizuka	
NTCPR92-40 (Rel. as N6201)	Young × Nakasennari	
NTCPR93-283	Young × Suzuyataka	
NTCPR94-5157	Davis × N73-1102	
Ogden	Tokyo × PI 54610	
Pearl (Exp. NTCPR90-172)	G80-1515 × Vance	
Perry (Exp. C612)	Patoka × L37-1355	
Prichard (Exp. G90-1551)	Coker Co 82-622 × Howard	

STRAIN	FEMALE PARENT X MALE PARENT	NOTES
R62-550	Essex x G. Soja	
R89-332	Pershing x Narow	
R92-1258	Hutcheson x Walters	
R92-1294	Hutcheson x Walters	
R93-171	Hutcheson x ASG A5403	
R93-174	A5403 x Hutcheson	
R96-1083	Hamilton x Coker 6955	
R96-2361	PI 507098 x N86-491	
R96-2660	A6297 x IA 2007	
Randolph (Exp. VS 20-418)	PI 417288 x T135 x PI 83945-4	
Ransom (Exp. N64-2430)	N55-5931 x N55-3818 x D56-1185	
Ripley (Exp. HC77-2204)	Hodgson x V68-1034	
Roanoke (Exp. N41-90)	Rouge in 'Nanking' (PI 71597)	
S88-19561	Forrest (3) x PI 437654	
S00-9970-09	S94-1867 x Anand	
S02-166RR	SG 498 x SS94-7482	
S02-182RR	S95-1908 x SG 498	
S02-18932RR	S97-1753 x DP 5960	
S02-19698RR	S96-2692 x DP 5960	
S02-256CR (RR)	SG 498 x S96-2692	
S02-750RR	SS94-7546 x S86-4499(4) x RR	
S55-7075	N48-1248 x Perry	
S76-2229	Forrest x V71-480	
S85-1009	Bradley x Essex	
S86-4499	L77-443 x L77-906	
S86-4499RR	S86-4499RR x RR	
S88-19561	Forrest (3) x PI 437654	
S91-1381	Hartz 5370 x Hartwig	
S91-1839	Hartwig x Coker 485	
S92-1069	MD83-5008 x Hartwig	
S94-1867	P9592 x S91-1693	
S94-1956	Holladay x Hartwig	
S94-7546	P9341 x S86-4499	
S95-1908	S92-1492 x NK S59-60	
S96-2692	Manokin x S91-1839	
S97-1753	H5545 x S91-1381	
S98-3940-43RR	S86-4499RR x Del soy 5500	
SC01-173	SC91-1791 x SC95-96	
SC01-778RR	Musen x SC92-2482 x [Bennig x (Hagood x BC1Resni kRR)]	
SC01-832RR	SC92-3091 x SC92-2482 x [Bennig x (Hagood x BC1Resni kRR)]	
SC02-122	Maxcy x (Maxcy x N474) x N94-199	
SC84-931 (Rel. as Dillon)	Centennial x Young	
SC89-147	Hutcheson x Leflore	
SC89-551	A6785 x Coker 6738	
SC91-1791	Coker 6847 x Stonewall	
SC91-2007	Northrup King S83-3 x Hutcheson	
SC92-2482	Coker 6847 x Hagood	
SC92-3091	Hagood x Coker 6738	
SC92-902	Brim x Coker 82-622	
SC93-2082	Coker 6738 x G83-198	
SC93-3091	Hagood x Coker 6738	
SC95-96	BARC-8 x Md 87L-1320	
Sharkey (D79-6162)	Tracy x Centennial	
Sherman (Exp. HW8067)	A72-512 x Pelia	
Shore (Exp. V69-156)	PI 80837 x Hood	

STRAIN	FEMALE PARENT X MALE PARENT	NOTES
Soyola (Exp. N93-132)	Brim x N87-2117-3 x Brim	
SS91-7138	Pioneer P9442 x Pioneer P9461	
SS94-7482	P9341 x S86-4499	
Stressland	HC80-1946 x Asgrow 3127	
TC02AXB-717	N94-7440 x N7101	
TCPPR-01-163	Dillon x Tamahikari	
TCPR01-139	Graham x Misuzu Diazu	
TN 93-87	TN85-55 x TN82-268	
TN01-056	TN93-88 x MD 4900	
TN02-06-RR	Md 94-5396 x TN95-53 x Monsanto-RR	
TN02-241	TN94-213 x MD94-5396	
TN4-86	Crawford x Bedford	
TN77-46	Forrest x Mitchell	
TN82-268	Essex x Bay x N73-520	
TN83-67	J74-45 x Mitchell	
TN84-87	V75-345 x S76-2229	
TN85-55	TN77-46 x Fayette	
TN90-03 (Rel. as TN4-94)	TN4-86 x TN84-87	
TN93-142-17	Hutcheson x TN85-55 x TN83-26	
TN93-87	TN85-55 x TN82-268	
TN93-88	TN85-55 x TN82-268	
TN93-99	is a registerd germplasm (GP-280) in 2003 Crop Sci. 43:1137	
TN94-213	S85-1009 x Hutcheson	
TN95-268	Cordell x Hutcheson	
TN95-53	TN4-86 x Kunitz	
TX 72821	TN 93-87 x MD 94-5332	
Tyrone	[(Wilson (6) x Forrest) x (Perry x (Williams x PI 229358))] x Ripley	
U94-2306	Holt x Dairyland DSR 304	
V63-76	Hill (5) x D53-354	
V66-318	D53-184 x J22	
V68-183	Lee x S55-7075	
V68-1034	York x PI 71506	
V71-480	V63-76 x V66-318	
V73-1899	prob. V68-183 x V66-318	
V73-76	Hill x D53-354	
V75-345	Essex x Shore	
V78-184 (Rel. as Hutcheson)	V68-1034 x Essex	
V79-2856	Hodgson x V73-1899	
V79-881	Essex x Ransom	
V83-2298	Will x Essex	
V84-1790	Epps x L77-994	
V84-1805	Epps x L77-994	
V87-299	Essex x V79-2856	
V88-466	Coker 237 x Toano	
V88-494	V79-881 x Toano	
V90-0798	Hutcheson x P9441	
V90-1012	Hutcheson x (FFR 561 x Toano)	
V91-0731	Chesapeake x P9441	
V91-2935	Hutcheson(2) x V84-1805	
V91-3036	Hutcheson x V84-1790	
V92-0254	Hutcheson x V83-2298	
V92-0570	Hutcheson (2) x V84-1805	
V92-0974	Hutcheson x FFR 561	
Vance	Essex x unknown wild (Glycine soja, Sieb. and Zucc.) or semi-wild soybean	
VS 20-418 (Rel. as Randolph)	PI 417288 x T135 x PI 83945-4	
VS21-441	Hutcheson x VS94-11	

STRAIN	FEMALE PARENT X MALE PARENT	NOTES
VS21-449	VS94-18 × Hutcheson	
VS22-451	Akiyoshi × VS95-76	
VS94-11	L760049 × Essex	
VS94-18	York × PI 416937	
VS95-76	L760132 × Essex (2)	
VS96-239 (Rel. as Asmara)	PI 417288 × T135 x PI 83945-4	
Wayne (Exp. L57-2222)	L49-4091 × Clark	
Williams (Exp. L66L-108)	Wayne × L57-0034	
Young (Exp. N75-2213)	Davis × Essex	

## **UNIFORM GROUP IV-S**

**2004**

**Uniform Group IV-S nurseries were planted at 19 locations. Data were obtained from 16 of the 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, 2004**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. 5002T	Holiday x Manokin	
2. DK 4868 (RR)		
3. DT98-7278	Hutcheson x (D91-4657 x Pioneer P9592)	F6
4. DT98-9102	N90-516 x Pioneer P9592	F6
5. DT99-17400	UARK 5798 x Bolivar	F6
6. K1603RR	KS4895 x (KS4895 x (Resnik2/40-3-2))	F5
7. LS00-1755	K1307 x LS92-4357	
8. Md 00-5020	S92-1069 x Md 93-5298	F5
9. Md 00-5024	S92-1069 x Md 93-5298	F5
10. Md 00-5326	KY91-11114 X Croton 3.9	F5
11. Md 99-1098-2 RR	MD 92-5769 (2) x Resnik RR	F5
12. Md 99-1353-2 RR	Manokin (2) x Resnik RR	F5
13. R00-155	NK RA-452 x R89-332	
14. R00-859	N92-195 X DELSOY 5500	
15. R96-1689F	A4715 x HS89-3261	
16. R98-1817	Hartz 5545 x KS4895	
17. R98-2390F	KY88-4080 x DP3478	
18. S00-9925-10	K1393 x Anand	F5
19. S02-750RR	SS94-7546 x S86-4499(4) x RR	F5
20. S99-2281	N90-516 x S92-1069	F5
21. TN00-60	MD 4900 x Fillmore	
22. TN01-056	TN93-88 x MD 4900	
23. V99-0025	KS4895 x Tn90-03	



**TABLE 2 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2004**

STRAIN/ VARIETY	RANK	AVERAGE RANK	YIELD*			PROTEIN			OIL		
			2004	03-04	02-04	2004	03-04	02-04	2004	03-04	02-04
5002T	1	7	56.6	55.0	.	39.8	40.1	.	19.8	19.6	.
DK4868 (RR)	2	7	56.3	51.9	.	39.2	39.9	.	19.7	20.1	.
DT98-7278	14	14	50.9	50.7	.	40.9	41.0	.	19.6	19.4	.
DT98-9102	19	16	49.7	48.5	.	39.3	39.1	.	20.3	20.0	.
DT99-17400	8	10	53.7	45.8	.	39.4	39.8	.	19.8	19.5	.
K1603RR	21	16	49.1	.	.	40.7	.	.	19.6	.	.
LS00-1755	12	12	52.2	.	.	39.9	.	.	19.4	.	.
Md 00-5020	13	12	51.8	.	.	39.5	.	.	20.5	.	.
Md 00-5024	11	12	52.4	.	.	39.8	.	.	20.1	.	.
Md 00-5326	4	9	54.5	.	.	40.2	.	.	20.4	.	.
Md 99-1098-2 RR	22	14	48.8	48.3	.	37.2	37.8	.	20.5	20.0	.
Md 99-1353-2 RR	17	15	50.0	.	.	39.4	.	.	20.7	.	.
R00-155	20	16	49.2	.	.	40.3	.	.	19.6	.	.
R00-859	23	17	48.2	.	.	39.7	.	.	19.3	.	.
R96-1689F	15	13	50.8	47.6	.	39.1	40.1	.	20.3	20.2	.
R98-1817	6	8	54.1	51.8	50.1	40.7	41.0	41.5	18.7	18.9	19.0
R98-2390F	16	14	50.6	.	.	40.4	.	.	20.9	.	.
S00-9925-10	3	9	55.4	54.2	.	39.1	39.8	.	19.7	19.5	.
S02-750RR	7	9	53.9	.	.	39.0	.	.	20.6	.	.
S99-2281	9	11	53.1	52.9	50.5	39.0	39.4	39.9	19.6	19.2	19.5
TN00-60	5	9	54.4	52.4	.	38.1	38.2	.	21.0	20.6	.
TN01-056	18	14	49.7	.	.	40.4	.	.	19.7	.	.
V99-0025	10	10	52.9	.	.	40.9	.	.	20.0	.	.

**\*Data not included in mean: 2004 - Prosper, TX; Queenstown, MD; Springfield, TN  
2003 - Prosper, TX; Starkville, MS  
2002 - Orange, VA**

TABLE 2 ~ Continued

## BOTANICAL TRAITS

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL COLOR	PUB. COLOR	POD COLOR
5002T	09/30	1.8	29	1.7	15.3			
DK4868 (RR)	9-	1.5	35	2.4	14.6			
DT98-7278	1-	2.3	30	2.0	16.7	W	T	T
DT98-9102	1-	2.0	34	2.1	15.5	W	G	T
DT99-17400	2-	1.9	32	1.8	15.4	P	T	T
K1603RR	6-	2.0	35	2.5	15.7			
LS00-1755	4-	1.8	31	2.1	13.8			
Md 00-5020	7-	1.5	28	1.8	13.1			
Md 00-5024	1-	2.3	42	2.2	14.0			
Md 00-5326	3-	1.5	37	2.2	14.6			
Md 99-1098-2 RR	2-	1.3	24	1.8	13.0			
Md 99-1353-2 RR	3-	1.7	27	1.8	12.2			
R00-155	1+	2.7	33	1.8	13.8			
R00-859	2-	2.2	33	1.9	14.5			
R96-1689F	8-	1.8	35	2.2	12.7			
R98-1817	3-	2.0	32	1.8	12.2			
R98-2390F	2-	2.5	38	2.1	14.6			
S00-9925-10	0	2.3	29	2.1	13.3	W		
S02-750RR	7-	1.7	36	2.3	15.1	P		
S99-2281	1-	2.1	33	1.9	13.6	W		
TN00-60	3-	2.0	36	2.0	15.6			
TN01-056	4-	1.9	28	2.0	15.0			
V99-0025	6-	1.7	38	2.0	13.1			

TABLE 2 ~ Continued

STRAIN/ VARIETY	PEST REACTIONS						
	SCN 2	SCN 3	M. A. GA	M. I. GA	SMV	SDS VDX	SDS CDX
5002T	5.0	5.0	4.0	5.0	S	6	4
DK4868 (RR)	5.0	5.0	4.3	5.0	S	7	3
DT98-7278	5.0	5.0	4.3	1.5	R	12	10
DT98-9102	5.0	5.0	2.8	5.0	S	16	6
DT99-17400	5.0	5.0	5.0	4.3	M	11	11
K1603RR	5.0	5.0	3.8	5.0	R	26	12
LS00-1755	5.0	4.0	2.3	5.0	S	2	1
Md 00-5020	3.0	2.0	3.0	2.5	S	2	1
Md 00-5024	5.0	3.0	3.3	5.0	S	4	2
Md 00-5326	5.0	5.0	5.0	5.0	S	31	14
Md 99-1098-2 RR	5.0	5.0	5.0	5.0	R	22	9
Md 99-1353-2 RR	5.0	5.0	3.5	1.8	S	7	1
R00-155	5.0	2.0	4.8	5.0	S	31	8
R00-859	5.0	5.0	5.0	5.0	R	39	13
R96-1689F	5.0	4.0	4.3	5.0	S	20	4
R98-1817	5.0	5.0	3.5	5.0	S	11	8
R98-2390F	5.0	5.0	4.8	5.0	S	9	8
S00-9925-10	5.0	5.0	5.0	2.3	S	11	2
S02-750RR	5.0	5.0	5.0	5.0	S	5	2
S99-2281	1.0	1.0	2.8	3.0	S	1	5
TN00-60	5.0	5.0	5.0	5.0	R	7	13
TN01-056	5.0	5.0	4.8	5.0	S	13	10
V99-0025	5.0	5.0	2.8	5.0	S	6	2

**TABLE 3 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2004**

STRAIN/ VARIETY	EAST				MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN* MD	WARSAW VA	
5002T	62.2	53.1	38.9	73.2	62.8
DK4868 (RR)	69.8	47.4	37.2	60.6	59.3
DT98-7278	54.0	46.4	50.6	61.3	53.9
DT98-9102	52.4	43.2	26.2	57.2	50.9
DT99-17400	59.4	50.4	14.4	62.1	57.3
K1603RR	59.5	38.8	29.7	59.2	52.5
LS00-1755	62.6	48.8	46.3	65.4	59.0
Md 00-5020	62.9	44.5	41.6	62.9	56.7
Md 00-5024	68.6	36.5	48.4	57.9	54.4
Md 00-5326	69.4	46.3	25.6	68.5	61.4
Md 99-1098-2 RR	57.5	45.0	37.2	64.4	55.6
Md 99-1353-2 RR	50.7	50.8	34.0	56.7	52.7
R00-155	52.6	47.8	48.9	58.6	53.0
R00-859	60.0	44.1	36.8	55.5	53.2
R96-1689F	67.7	38.5	47.6	65.6	57.3
R98-1817	55.2	49.6	40.6	65.4	56.7
R98-2390F	65.8	34.4	30.4	60.6	53.6
S00-9925-10	54.0	53.5	45.1	62.5	56.7
S02-750RR	65.8	46.1	38.2	64.2	58.7
S99-2281	65.1	42.8	40.3	68.2	58.7
TN00-60	59.7	41.4	23.1	63.6	54.9
TN01-056	60.5	45.1	31.4	66.5	57.4
V99-0025	59.2	38.7	34.8	67.2	55.0
L. S. D. (0.05)	7.6	7.5	13.0	4.8	.
C. V. (%)	7.6	10.2	21.5	4.6	.

\*Data not included in mean

TABLE 3 ~ Continued

STRAIN/ VARIETY	SOUTH						MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD* TN	STARKVILLE MS	ULLIN IL	
5002T	62.9	67.6	65.9	48.6	41.3	43.6	56.3
DK4868 (RR)	66.6	64.6	73.2	51.4	34.2	55.7	58.8
DT98-7278	55.1	62.4	63.3	48.7	36.4	48.4	53.1
DT98-9102	50.7	61.3	54.9	48.9	36.0	53.2	51.3
DT99-17400	51.6	70.7	65.8	46.3	42.3	48.4	55.8
K1603RR	40.9	65.9	67.8	39.3	32.9	41.1	49.7
LS00-1755	54.9	73.1	60.2	46.6	33.4	48.4	54.0
Md 00-5020	65.0	58.6	66.6	52.2	27.7	58.1	55.2
Md 00-5024	51.9	67.0	65.1	39.3	48.7	43.6	55.3
Md 00-5326	62.7	63.4	69.6	51.3	40.5	43.6	56.0
Md 99-1098-2 RR	55.7	64.4	61.1	60.0	25.8	46.0	50.6
Md 99-1353-2 RR	55.1	59.9	62.5	41.5	39.3	41.1	51.6
R00-155	37.8	62.1	52.5	36.9	33.3	46.0	46.3
R00-859	38.4	63.0	56.0	39.2	35.4	48.4	48.2
R96-1689F	53.2	64.5	67.5	50.0	26.8	46.0	51.6
R98-1817	52.3	68.5	64.9	43.8	39.8	50.8	55.3
R98-2390F	53.7	62.2	69.9	35.9	39.6	38.7	52.8
S00-9925-10	69.0	63.1	58.9	43.7	43.8	62.9	59.5
S02-750RR	51.3	64.7	70.3	44.7	35.9	55.7	55.6
S99-2281	71.6	62.9	53.9	45.3	37.6	53.2	55.9
TN00-60	51.2	67.7	69.5	41.9	45.5	50.8	57.0
TN01-056	46.4	66.8	57.3	55.3	36.5	36.3	48.6
V99-0025	54.0	63.3	68.1	46.0	35.3	50.8	54.3
L. S. D. (0.05)	10.3	7.1	6.0	20.1	10.8	13.6	.
C. V. (%)	11.5	6.6	5.8	25.5	16.8	17.1	.

\*Data not included in mean

TABLE 3 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
5002T	59.1	72.0	62.8	64.6
DK4868 (RR)	71.4	69.4	44.6	61.8
DT98-7278	57.1	57.2	58.8	57.7
DT98-9102	52.9	62.7	56.7	57.4
DT99-17400	55.0	61.6	59.4	58.7
K1603RR	54.0	60.4	48.7	54.4
LS00-1755	58.1	53.7	51.5	54.4
Md 00-5020	57.2	49.7	43.6	50.2
Md 00-5024	56.0	62.1	54.1	57.4
Md 00-5326	64.9	70.5	39.4	58.3
Md 99-1098-2 RR	55.6	43.5	41.3	46.8
Md 99-1353-2 RR	57.0	53.5	53.7	54.7
R00-155	57.7	61.2	67.8	62.2
R00-859	49.6	56.5	53.0	53.1
R96-1689F	65.8	61.9	33.9	53.9
R98-1817	65.5	58.3	55.7	59.9
R98-2390F	49.7	60.9	53.5	54.7
S00-9925-10	65.2	61.7	57.3	61.4
S02-750RR	62.9	66.6	46.5	58.7
S99-2281	64.5	56.6	41.2	54.1
TN00-60	56.9	61.7	55.3	58.0
TN01-056	58.3	56.8	47.7	54.3
V99-0025	64.8	59.4	51.4	58.5
L. S. D. (0.05)	6.7	6.6	8.0	.
C. V. (%)	6.9	6.7	9.5	.

TABLE 3 ~ Continued

STRAIN/ VARIETY	WEST			MEAN
	MCCUNE KS	PITTSBURG KS	PROSPER* TX	
5002T	30.7	40.7	21	35.7
DK4868 (RR)	31.1	43.2	28	37.2
DT98-7278	29.6	31.9	28	30.8
DT98-9102	31.4	33.5	24	32.5
DT99-17400	30.9	40.0	29	35.5
K1603RR	30.3	38.7	31	34.5
LS00-1755	31.2	37.1	22	34.2
Md 00-5020	32.9	43.4	18	38.2
Md 00-5024	30.7	38.8	31	34.7
Md 00-5326	30.3	39.9	27	35.1
Md 99-1098-2 RR	34.3	40.2	20	37.2
Md 99-1353-2 RR	30.0	40.2	17	35.1
R00-155	26.5	36.0	26	31.3
R00-859	30.6	35.7	20	33.1
R96-1689F	30.2	38.4	30	34.3
R98-1817	35.2	41.6	31	38.4
R98-2390F	33.4	35.9	21	34.7
S00-9925-10	25.5	42.1	28	33.8
S02-750RR	31.9	39.4	32	35.6
S99-2281	33.2	39.3	24	36.3
TN00-60	35.7	48.6	29	42.2
TN01-056	31.4	36.8	32	34.1
V99-0025	33.6	42.4	13	38.0
L. S. D. (0.05)	4.3	4.5	.	.
C. V. (%)	8.3	7.0	.	.

\*Data not included in mean

**TABLE 4 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2004****OIL PERCENTAGES**

STRAIN/ VARIETY	KNOX-	ORANGE VA	PITTS-		PORTAGE-	PORTAGE-	PRINCETON KY	PROSPER*	QUEENS-*	STONE-	ULLIN IL	WARSAW VA	MEAN
	VILLE TN		BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)			TOWN MD	VILLE MS			
5002T	19.6	19.5	20.1	18.4	20.7	.	19.7	22.5	18.3	.	20.4	19.9	19.8
DK4868 (RR)	19.5	19.3	20.6	20.4	20.1	.	19.1	20.9	18.6	.	19.8	18.4	19.7
DT98-7278	20.0	18.9	19.4	19.8	20.4	.	19.6	19.1	17.8	.	20.0	19.0	19.6
DT98-9102	21.0	19.7	20.7	20.4	20.8	.	20.0	20.8	18.8	.	20.4	19.6	20.3
DT99-17400	20.6	19.1	20.1	20.4	20.6	.	18.9	21.0	17.5	.	19.9	19.0	19.8
K1603RR	19.7	19.5	20.7	20.6	18.2	.	18.9	19.5	18.2	.	20.3	19.2	19.6
LS00-1755	19.4	18.2	20.0	20.1	19.7	.	19.2	21.4	17.8	.	19.8	18.4	19.4
Md 00-5020	20.6	20.1	20.6	21.4	20.8	.	19.7	21.1	19.1	.	20.9	19.8	20.5
Md 00-5024	21.0	19.3	19.8	20.8	20.5	.	19.7	21.0	18.2	.	20.5	19.0	20.1
Md 00-5326	21.2	20.4	21.3	21.4	20.3	.	19.3	22.0	18.3	.	19.0	20.2	20.4
Md 99-1098-2 RR	20.2	19.4	20.6	22.0	21.0	.	20.2	21.1	18.0	.	20.6	19.8	20.5
Md 99-1353-2 RR	20.9	19.6	20.3	22.2	21.2	.	20.0	23.3	19.0	.	21.1	20.1	20.7
R00-155	19.9	19.8	20.4	17.8	20.2	.	19.0	20.3	18.0	.	20.2	19.1	19.6
R00-859	19.6	19.4	19.8	19.7	19.6	.	18.6	20.5	16.9	.	20.0	17.9	19.3
R96-1689F	20.3	19.8	20.5	21.4	20.0	.	20.1	22.5	18.7	.	20.6	19.4	20.3
R98-1817	19.4	18.8	19.6	17.9	18.6	.	18.4	19.4	17.6	.	18.7	18.4	18.7
R98-2390F	20.9	20.2	21.6	21.8	21.7	.	20.5	20.2	19.3	.	20.5	20.1	20.9
S00-9925-10	19.6	19.0	19.8	19.2	20.4	.	20.3	20.1	18.0	.	20.4	19.0	19.7
S02-750RR	21.2	20.2	21.2	21.0	21.1	.	18.8	20.4	19.4	.	20.8	20.5	20.6
S99-2281	19.4	19.2	20.9	20.2	20.1	.	18.7	21.5	18.2	.	19.3	19.3	19.6
TN00-60	21.5	20.7	22.1	20.8	20.9	.	20.9	20.6	18.6	.	21.6	19.4	21.0
TN01-056	21.0	19.2	19.7	19.4	20.0	.	19.0	19.7	19.1	.	19.7	19.5	19.7
V99-0025	20.8	19.6	21.1	19.1	20.5	.	19.8	19.2	18.8	.	18.9	20.1	20.0

\*Data not included in mean



TABLE 4 ~ Continued

STRAIN/ VARIETY	PROTEIN PERCENTAGES												
	KNOX- VILLE TN	ORANGE VA	PITTS- BURG KS	PLYMOUTH NC	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	PRINCETON KY	PROSPER* TX	QUEENS-* TOWN MD	STONE- VILLE MS	ULLIN IL	WARSAW VA	MEAN
5002T	39.0	39.4	39.6	39.6	40.8	.	38.3	42.1	40.5	.	39.5	42.0	39.8
DK4868 (RR)	38.6	38.9	38.5	39.7	39.7	.	37.6	40.1	39.5	.	39.9	40.9	39.2
DT98-7278	39.6	38.9	41.4	42.2	40.9	.	39.8	42.1	42.8	.	40.6	43.8	40.9
DT98-9102	37.6	38.6	38.7	40.3	39.4	.	39.4	40.0	41.1	.	39.3	40.7	39.3
DT99-17400	36.7	39.1	39.3	40.1	38.7	.	39.9	40.8	44.2	.	40.2	41.5	39.4
K1603RR	39.2	39.4	40.5	41.7	41.3	.	40.2	40.1	42.7	.	40.3	42.8	40.7
LS00-1755	38.2	40.2	39.0	40.4	40.2	.	38.8	39.8	41.2	.	39.8	42.3	39.9
Md 00-5020	39.0	38.2	38.6	40.0	40.4	.	39.7	41.1	39.9	.	39.1	41.2	39.5
Md 00-5024	37.4	39.5	40.3	40.1	40.4	.	38.4	40.8	40.5	.	39.6	42.3	39.8
Md 00-5326	38.7	39.1	39.4	40.1	42.7	.	40.5	38.7	42.6	.	39.6	41.4	40.2
Md 99-1098-2 RR	35.7	37.4	39.1	35.0	36.9	.	36.3	37.0	39.5	.	37.6	39.6	37.2
Md 99-1353-2 RR	37.4	39.4	39.5	39.8	40.9	.	38.8	39.7	41.6	.	38.6	40.6	39.4
R00-155	37.9	39.0	40.4	40.9	40.6	.	40.9	40.7	41.4	.	39.2	43.1	40.3
R00-859	37.4	38.6	39.6	39.7	40.8	.	40.1	41.3	42.8	.	40.4	41.3	39.7
R96-1689F	37.2	39.2	38.4	38.3	39.3	.	38.4	38.8	41.0	.	39.4	42.6	39.1
R98-1817	38.4	40.0	38.9	42.6	41.2	.	40.6	40.4	42.1	.	41.6	42.3	40.7
R98-2390F	38.4	39.1	40.3	40.6	40.9	.	39.8	38.5	42.3	.	41.1	43.1	40.4
S00-9925-10	37.3	39.0	38.5	39.2	39.5	.	38.1	39.9	40.5	.	39.8	41.2	39.1
S02-750RR	38.6	38.0	38.3	39.7	40.0	.	36.5	38.0	41.1	.	38.9	42.1	39.0
S99-2281	38.4	38.0	36.3	39.1	39.9	.	40.3	39.1	41.2	.	39.3	40.7	39.0
TN00-60	37.1	36.6	37.0	38.9	39.2	.	38.0	39.0	42.6	.	37.8	40.4	38.1
TN01-056	38.8	40.2	39.8	40.5	41.0	.	40.0	41.4	41.5	.	40.6	42.0	40.4
V99-0025	40.4	40.9	40.0	41.3	42.8	.	40.0	41.2	45.2	.	38.4	43.4	40.9

\*Data not included in mean

TABLE 4 ~ Continued

STRAIN/ VARIETY	GRAMS PER 100 SEED													MEAN
	KNOX- VILLE TN	ORANGE VA	PITTS- BURG KS	PLYMOUTH NC	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	PRINCETON KY	PROSPER* TX	QUEENS-* TOWN MD	STONE- VILLE MS	ULLIN IL	WARSAW VA		
5002T	16.4	15.7	12.6	16.5	14.8	14.5	15.8	.	13.4	15.0	15.1	16.6	15.3	
DK4868 (RR)	16.7	14.6	14.2	14.0	12.5	14.4	16.1	.	13.5	14.0	14.2	14.8	14.6	
DT98-7278	17.5	18.6	14.9	17.5	15.3	14.9	18.5	.	17.0	15.9	16.2	17.7	16.7	
DT98-9102	16.6	17.8	14.7	15.5	14.7	14.2	16.6	.	14.3	13.4	16.1	15.7	15.5	
DT99-17400	14.6	16.0	14.6	16.0	12.7	15.1	17.9	.	13.0	15.8	15.4	16.1	15.4	
K1603RR	15.3	16.3	15.0	16.0	14.4	15.5	18.5	.	15.4	15.4	14.3	16.7	15.7	
LS00-1755	14.5	13.6	12.7	15.0	12.4	12.7	15.5	.	14.4	14.2	13.6	13.7	13.8	
Md 00-5020	15.1	12.9	11.9	14.0	11.8	13.2	14.1	.	12.5	11.1	13.6	13.5	13.1	
Md 00-5024	14.1	15.6	12.1	15.0	13.0	12.1	15.1	.	14.2	12.2	13.5	16.8	14.0	
Md 00-5326	16.9	14.8	14.8	13.0	12.5	13.8	17.4	.	14.2	14.3	12.3	16.2	14.6	
Md 99-1098-2 RR	13.5	13.1	13.1	12.0	12.0	12.0	14.3	.	12.7	12.8	13.9	13.2	13.0	
Md 99-1353-2 RR	11.8	12.2	11.3	13.5	10.7	11.4	14.0	.	11.8	12.3	12.4	12.5	12.2	
R00-155	11.9	15.3	13.2	15.0	12.2	12.8	14.5	.	15.4	15.2	13.5	14.4	13.8	
R00-859	12.9	15.7	12.8	15.6	14.2	13.3	14.7	.	15.3	13.8	15.5	16.2	14.5	
R96-1689F	13.9	12.8	11.2	12.0	11.1	11.6	14.7	.	12.7	12.1	12.7	14.3	12.7	
R98-1817	11.6	13.2	11.7	12.5	11.4	11.4	13.5	.	12.1	11.5	11.9	13.5	12.2	
R98-2390F	15.8	14.7	12.0	14.5	14.6	13.7	15.8	.	14.2	13.4	14.8	16.6	14.6	
S00-9925-10	13.8	13.6	11.6	15.0	12.3	12.7	14.8	.	14.5	11.5	13.9	13.8	13.3	
S02-750RR	16.4	15.6	13.8	15.0	13.6	14.3	17.7	.	15.9	13.9	14.3	16.1	15.1	
S99-2281	14.8	14.4	12.6	15.0	12.9	13.2	14.8	.	14.0	11.6	12.3	14.3	13.6	
TN00-60	18.0	15.6	15.1	16.0	14.8	14.6	16.1	.	15.7	13.4	15.4	17.0	15.6	
TN01-056	16.0	15.6	12.8	16.0	14.2	14.3	16.2	.	16.1	13.1	15.6	16.2	15.0	
V99-0025	13.9	13.6	12.0	12.0	13.0	12.3	14.5	.	13.7	11.9	13.2	14.6	13.1	

\*Data not included in mean

**TABLE 5 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN 5002T,  
FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2004**

STRAIN/ VARIETY	EAST					MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN* MD	WARSAW VA		
5002T	10/10	10/11	10/10	10/10	10/10	10/10
DK4868 (RR)	-7	-16	-4	-7	-10	-10
DT98-7278	-1	-1	0	-1	-1	-1
DT98-9102	1	-5	-1	-3	-2	-2
DT99-17400	1	-6	-1	-3	-2	-2
K1603RR	-3	-9	-2	-6	-6	-6
LS00-1755	-4	-11	-4	-7	-7	-7
Md 00-5020	-4	-16	-2	-7	-8	-8
Md 00-5024	1	-2	-1	-1	0	0
Md 00-5326	-1	-6	0	-4	-3	-3
Md 99-1098-2 RR	-4	-5	-1	-5	-4	-4
Md 99-1353-2 RR	-4	-12	-4	-6	-7	-7
R00-155	2	-1	3	1	1	1
R00-859	0	-1	0	-2	-1	-1
R96-1689F	-6	-16	-3	-7	-9	-9
R98-1817	-1	-10	-1	-3	-4	-4
R98-2390F	-1	-3	-2	-2	-2	-2
S00-9925-10	0	-3	2	-3	-1	-1
S02-750RR	-5	-6	-2	-6	-5	-5
S99-2281	3	-6	1	-1	-1	-1
TN00-60	0	-7	-2	-2	-3	-3
TN01-056	-2	-9	-2	-5	-5	-5
V99-0025	-5	-6	-3	-6	-6	-6

\*Data not included in mean

TABLE 5 ~ Continued

## SOUTH

STRAIN/ VARIETY	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD* TN	STARKVILLE MS	ULLIN IL	MEAN
5002T	09/24	.	.	10/07	.	09/27	09/25
DK4868 (RR)	-7	.	.	-10	.	-10	-8
DT98-7278	-1	.	.	0	.	0	0
DT98-9102	-2	.	.	0	.	0	-1
DT99-17400	-5	.	.	-1	.	-2	-3
K1603RR	-10	.	.	-9	.	-6	-7
LS00-1755	-3	.	.	-9	.	-3	-2
Md 00-5020	-8	.	.	-11	.	-7	-7
Md 00-5024	-1	.	.	-6	.	0	0
Md 00-5326	-4	.	.	-8	.	-4	-3
Md 99-1098-2 RR	-3	.	.	0	.	-3	-2
Md 99-1353-2 RR	-2	.	.	-7	.	1	0
R00-155	-4	.	.	2	.	-1	-2
R00-859	-6	.	.	1	.	-2	-4
R96-1689F	-12	.	.	-11	.	-5	-8
R98-1817	-5	.	.	-1	.	0	-2
R98-2390F	-3	.	.	-2	.	0	-1
S00-9925-10	1	.	.	1	.	-2	0
S02-750RR	-10	.	.	-10	.	-4	-6
S99-2281	0	.	.	2	.	-1	0
TN00-60	-5	.	.	1	.	-1	-3
TN01-056	-8	.	.	-1	.	-4	-5
V99-0025	-12	.	.	-10	.	-7	-9

\*Data not included in mean

TABLE 5 ~ Continued

STRAIN/ VARIETY	DELTA			
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
5002T	09/29	09/30	09/11	09/23
DK4868 (RR)	-7	-7	-12	-8
DT98-7278	-5	-2	-1	-2
DT98-9102	-1	-2	-1	-1
DT99-17400	-4	0	-1	-1
K1603RR	-8	-7	0	-5
LS00-1755	-7	-1	-2	-3
Md 00-5020	-8	-5	-3	-5
Md 00-5024	-2	0	-2	-1
Md 00-5326	-5	-1	-1	-2
Md 99-1098-2 RR	-3	1	1	0
Md 99-1353-2 RR	-3	0	0	-1
R00-155	4	3	1	3
R00-859	-2	-2	-2	-2
R96-1689F	-7	-8	-9	-8
R98-1817	-2	2	-5	-1
R98-2390F	-1	-5	-3	-3
S00-9925-10	-1	2	0	1
S02-750RR	-6	-8	-9	-7
S99-2281	1	-2	-3	-1
TN00-60	-1	-5	-2	-2
TN01-056	-4	-3	-2	-3
V99-0025	-6	-8	-2	-5

**TABLE 6 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S,  
2004**

STRAIN/ VARIETY	EAST			MEAN
	GEORGETOWN DE	QUEENSTOWN* MD	WARSAW VA	
5002T	34	29	29	32
DK4868 (RR)	37	32	37	37
DT98-7278	35	31	30	32
DT98-9102	38	29	35	37
DT99-17400	38	25	33	36
K1603RR	37	29	36	37
LS00-1755	37	27	30	34
Md 00-5020	33	29	29	31
Md 00-5024	45	39	41	43
Md 00-5326	40	31	40	40
Md 99-1098-2 RR	31	24	27	29
Md 99-1353-2 RR	32	27	30	31
R00-155	36	30	31	34
R00-859	37	29	33	35
R96-1689F	38	33	36	37
R98-1817	37	29	32	35
R98-2390F	40	31	37	39
S00-9925-10	38	32	28	33
S02-750RR	42	32	39	41
S99-2281	42	32	32	37
TN00-60	40	32	36	38
TN01-056	33	26	30	32
V99-0025	43	32	41	42

\*Data not included in mean

TABLE 6 ~ Continued

STRAIN/ VARIETY	SOUTH						MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD* TN	ULLIN IL		
5002T	31	36	34	33	25	32	
DK4868 (RR)	37	41	41	38	40	40	
DT98-7278	30	42	37	35	24	33	
DT98-9102	30	43	40	35	31	36	
DT99-17400	29	42	46	36	30	37	
K1603RR	34	41	41	39	37	38	
LS00-1755	34	38	39	38	29	35	
Md 00-5020	26	34	38	30	26	31	
Md 00-5024	43	47	48	47	44	46	
Md 00-5326	41	41	42	41	37	40	
Md 99-1098-2 RR	25	33	32	28	21	28	
Md 99-1353-2 RR	31	33	33	31	20	29	
R00-155	32	42	41	35	31	37	
R00-859	31	41	37	39	28	34	
R96-1689F	36	41	42	37	31	38	
R98-1817	31	39	39	31	32	35	
R98-2390F	43	41	42	41	37	41	
S00-9925-10	28	39	35	29	30	33	
S02-750RR	35	43	41	40	37	39	
S99-2281	28	43	43	36	32	36	
TN00-60	37	40	41	41	38	39	
TN01-056	29	37	34	31	24	31	
V99-0025	35	44	45	43	39	41	

\*Data not included in mean

TABLE 6 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
5002T	22	15	20	19
DK4868 (RR)	33	27	28	29
DT98-7278	24	16	26	22
DT98-9102	26	22	28	25
DT99-17400	25	18	22	22
K1603RR	35	26	30	30
LS00-1755	23	13	24	20
Md 00-5020	21	10	24	18
Md 00-5024	44	40	36	40
Md 00-5326	39	33	30	34
Md 99-1098-2 RR	15	1	20	12
Md 99-1353-2 RR	20	15	24	20
R00-155	26	24	26	25
R00-859	30	26	26	27
R96-1689F	33	30	30	31
R98-1817	26	20	24	23
R98-2390F	40	35	34	36
S00-9925-10	20	14	24	19
S02-750RR	37	27	28	31
S99-2281	32	16	22	23
TN00-60	40	32	30	34
TN01-056	19	17	20	19
V99-0025	38	34	30	34



TABLE 6 ~ Continued

STRAIN/ VARIETY	WEST			MEAN
	MCCUNE KS	PITTSBURG KS	PROSPER* TX	
5002T	28	40	15	34
DK4868 (RR)	28	38	22	33
DT98-7278	30	40	16	35
DT98-9102	31	46	19	38
DT99-17400	27	44	20	36
K1603RR	25	39	26	32
LS00-1755	29	43	17	36
Md 00-5020	26	38	12	32
Md 00-5024	33	45	30	39
Md 00-5326	28	37	27	33
Md 99-1098-2 RR	21	35	14	28
Md 99-1353-2 RR	24	38	16	31
R00-155	33	44	20	38
R00-859	29	42	19	36
R96-1689F	28	39	20	33
R98-1817	28	40	17	34
R98-2390F	28	39	31	34
S00-9925-10	26	38	16	32
S02-750RR	28	44	24	36
S99-2281	31	46	16	38
TN00-60	25	38	26	32
TN01-056	28	37	18	32
V99-0025	31	42	26	37

\*Data not included in mean

**TABLE 7 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP IV-S, 2004**

STRAIN/ VARIETY	EAST				MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN* MD	WARSAW VA	
5002T	1.7	2.0	2.8	2.5	2.1
DK4868 (RR)	0.7	2.7	2.2	1.9	1.7
DT98-7278	1.7	2.5	3.3	2.9	2.4
DT98-9102	1.0	2.7	1.8	2.8	2.2
DT99-17400	1.7	2.0	1.2	2.7	2.1
K1603RR	1.7	3.5	1.7	3.5	2.9
LS00-1755	1.5	2.2	2.7	1.7	1.8
Md 00-5020	1.2	2.2	2.7	1.6	1.7
Md 00-5024	1.5	3.7	3.5	3.8	3.0
Md 00-5326	0.7	2.5	1.5	2.4	1.9
Md 99-1098-2 RR	0.3	1.8	1.2	1.6	1.3
Md 99-1353-2 RR	0.8	2.0	2.3	2.1	1.6
R00-155	3.2	3.2	3.8	3.9	3.4
R00-859	1.3	3.7	2.7	3.6	2.9
R96-1689F	1.2	3.8	3.0	2.5	2.5
R98-1817	2.2	2.5	3.0	2.8	2.5
R98-2390F	1.7	3.5	2.5	3.8	3.0
S00-9925-10	2.3	3.0	3.0	3.2	2.9
S02-750RR	1.2	2.8	3.0	2.2	2.1
S99-2281	1.8	2.5	3.5	2.8	2.4
TN00-60	1.2	3.0	2.5	2.7	2.3
TN01-056	0.8	2.8	2.5	2.8	2.2
V99-0025	1.0	3.0	2.2	2.7	2.2

\*Data not included in mean

TABLE 7 ~ Continued

STRAIN/ VARIETY	SOUTH					MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD* TN	ULLIN IL	
5002T	2.3	2.2	3.2	2.7	1.0	2.2
DK4868 (RR)	2.3	1.4	1.5	1.7	1.0	1.6
DT98-7278	3.2	2.6	3.7	2.0	1.0	2.6
DT98-9102	2.5	2.3	3.7	3.3	1.0	2.4
DT99-17400	2.5	1.8	3.0	3.0	1.0	2.1
K1603RR	2.2	1.7	2.2	2.0	1.3	1.9
LS00-1755	2.7	1.7	3.3	2.3	1.0	2.2
Md 00-5020	2.8	1.3	2.3	1.3	1.0	1.9
Md 00-5024	2.5	1.9	2.7	4.0	2.0	2.3
Md 00-5326	2.0	1.0	2.0	1.3	1.0	1.5
Md 99-1098-2 RR	1.0	2.1	1.7	1.0	1.0	1.4
Md 99-1353-2 RR	2.8	2.1	3.5	3.0	1.0	2.4
R00-155	3.2	3.1	4.3	4.7	2.3	3.2
R00-859	1.7	2.4	4.0	4.7	1.0	2.3
R96-1689F	2.0	1.6	2.7	2.7	1.0	1.8
R98-1817	2.7	1.7	3.3	3.0	1.0	2.2
R98-2390F	3.7	1.6	3.2	4.3	3.7	3.0
S00-9925-10	3.0	2.7	3.3	3.3	1.0	2.5
S02-750RR	2.0	1.5	2.2	3.0	1.3	1.8
S99-2281	2.5	2.5	3.3	2.3	1.0	2.3
TN00-60	2.2	1.5	3.0	4.3	1.3	2.0
TN01-056	2.0	1.8	3.3	3.3	1.0	2.0
V99-0025	1.3	1.4	2.3	3.3	1.0	1.5

\*Data not included in mean

TABLE 7 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
5002T	1.0	1.0	2.0	1.3
DK4868 (RR)	1.0	1.0	2.0	1.3
DT98-7278	2.0	1.0	2.0	1.7
DT98-9102	2.0	1.0	2.0	1.7
DT99-17400	1.0	1.0	2.0	1.3
K1603RR	3.0	1.0	2.0	2.0
LS00-1755	1.0	1.0	2.0	1.3
Md 00-5020	1.0	1.0	2.0	1.3
Md 00-5024	3.5	1.5	2.0	2.3
Md 00-5326	1.5	1.0	2.0	1.5
Md 99-1098-2 RR	1.0	1.0	2.0	1.3
Md 99-1353-2 RR	1.0	1.0	2.0	1.3
R00-155	2.5	1.0	2.0	1.8
R00-859	2.5	1.0	2.0	1.8
R96-1689F	2.0	1.0	2.0	1.7
R98-1817	2.0	1.0	2.0	1.7
R98-2390F	4.0	1.0	2.0	2.3
S00-9925-10	1.5	1.0	2.0	1.5
S02-750RR	2.0	1.0	2.0	1.7
S99-2281	2.0	1.0	2.0	1.7
TN00-60	3.5	1.0	2.0	2.2
TN01-056	1.0	1.0	2.0	1.3
V99-0025	3.0	1.0	2.0	2.0

TABLE 7 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	MCCUNE KS	PITTSBURG KS	
5002T	1.0	2.0	1.5
DK4868 (RR)	1.0	1.0	1.0
DT98-7278	1.0	4.0	2.5
DT98-9102	1.0	2.0	1.5
DT99-17400	1.0	2.7	1.8
K1603RR	1.0	1.0	1.0
LS00-1755	1.0	2.3	1.7
Md 00-5020	1.0	1.0	1.0
Md 00-5024	1.0	1.3	1.2
Md 00-5326	1.0	1.0	1.0
Md 99-1098-2 RR	1.0	1.0	1.0
Md 99-1353-2 RR	1.0	1.3	1.2
R00-155	1.0	3.3	2.2
R00-859	1.0	1.7	1.3
R96-1689F	1.0	1.0	1.0
R98-1817	1.0	2.0	1.5
R98-2390F	1.0	1.0	1.0
S00-9925-10	1.0	3.0	2.0
S02-750RR	1.0	1.0	1.0
S99-2281	1.0	3.0	2.0
TN00-60	1.0	1.0	1.0
TN01-056	1.0	2.7	1.8
V99-0025	1.0	1.0	1.0

**TABLE 8 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S,  
2004**

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	QUEENSTOWN* MD	WARSAW VA	
5002T	2.2	1.2	1.5	1.8
DK4868 (RR)	3.0	1.3	2.6	2.8
DT98-7278	3.3	1.3	2.0	2.7
DT98-9102	3.3	1.8	2.1	2.7
DT99-17400	2.7	1.7	1.3	2.0
K1603RR	4.0	1.3	2.3	3.2
LS00-1755	2.7	1.0	1.5	2.1
Md 00-5020	2.3	1.0	1.6	2.0
Md 00-5024	4.0	1.0	2.5	3.3
Md 00-5326	2.7	1.3	1.9	2.3
Md 99-1098-2 RR	2.5	1.0	1.3	1.9
Md 99-1353-2 RR	2.0	1.0	1.5	1.8
R00-155	2.5	1.0	2.0	2.3
R00-859	3.2	1.0	1.8	2.5
R96-1689F	3.7	1.0	1.7	2.7
R98-1817	2.2	1.0	1.5	1.8
R98-2390F	3.2	1.2	2.5	2.8
S00-9925-10	2.8	1.0	1.6	2.2
S02-750RR	3.7	1.5	2.6	3.1
S99-2281	2.3	1.2	2.2	2.3
TN00-60	3.2	1.0	1.8	2.5
TN01-056	2.7	1.0	1.5	2.1
V99-0025	4.0	1.5	2.2	3.1

\*Data not included in mean

TABLE 8 ~ Continued

STRAIN/ VARIETY	SOUTH				MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	ULLIN IL	
5002T	1.0	1.1	2.0	1.7	1.5
DK4868 (RR)	2.0	1.4	2.0	2.0	1.9
DT98-7278	1.0	1.1	2.0	1.7	1.5
DT98-9102	2.0	1.1	2.0	2.7	2.0
DT99-17400	2.0	1.0	2.0	1.7	1.7
K1603RR	3.0	1.1	2.0	3.3	2.4
LS00-1755	2.0	1.2	2.0	3.0	2.0
Md 00-5020	1.0	1.1	1.0	2.0	1.3
Md 00-5024	3.0	1.1	2.0	2.3	2.1
Md 00-5326	2.0	1.2	2.0	1.7	1.7
Md 99-1098-2 RR	1.0	1.1	2.0	2.0	1.5
Md 99-1353-2 RR	1.0	1.1	2.0	1.3	1.4
R00-155	2.0	1.1	2.0	1.7	1.7
R00-859	2.0	1.1	1.0	1.3	1.4
R96-1689F	2.0	1.1	2.0	2.7	1.9
R98-1817	3.0	1.2	1.0	1.7	1.7
R98-2390F	2.0	1.3	2.0	2.3	1.9
S00-9925-10	3.0	1.0	2.0	2.3	2.1
S02-750RR	3.0	1.5	2.0	2.0	2.1
S99-2281	1.0	1.1	2.0	2.0	1.5
TN00-60	2.0	1.1	2.0	2.7	1.9
TN01-056	2.0	1.1	2.0	2.3	1.9
V99-0025	3.0	1.1	1.0	2.0	1.8

TABLE 8 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
5002T	2.0	1.5	2.0	1.8
DK4868 (RR)	2.0	2.0	4.0	2.7
DT98-7278	2.0	2.0	3.0	2.3
DT98-9102	2.0	1.5	2.0	1.8
DT99-17400	1.5	1.5	2.0	1.7
K1603RR	2.0	2.0	3.0	2.3
LS00-1755	2.0	1.5	2.0	1.8
Md 00-5020	2.0	2.0	3.0	2.3
Md 00-5024	2.0	1.5	2.0	1.8
Md 00-5326	2.0	2.0	4.0	2.7
Md 99-1098-2 RR	2.0	1.5	3.0	2.2
Md 99-1353-2 RR	2.0	2.0	3.0	2.3
R00-155	1.5	1.5	2.0	1.7
R00-859	2.0	1.5	3.0	2.2
R96-1689F	2.0	2.0	2.0	2.0
R98-1817	2.0	1.5	2.0	1.8
R98-2390F	1.5	2.0	2.0	1.8
S00-9925-10	2.0	2.0	2.0	2.0
S02-750RR	2.0	1.5	3.0	2.2
S99-2281	2.0	2.0	2.0	2.0
TN00-60	1.5	1.5	2.0	1.7
TN01-056	2.0	2.0	2.0	2.0
V99-0025	2.0	1.0	2.0	1.7



**TABLE 8 ~ Continued**

STRAIN/ VARIETY	WEST
	PITTSBURG KS
5002T	2.0
DK4868 (RR)	3.0
DT98-7278	2.0
DT98-9102	2.0
DT99-17400	2.0
K1603RR	2.0
LS00-1755	3.0
Md 00-5020	2.0
Md 00-5024	2.0
Md 00-5326	3.0
Md 99-1098-2 RR	2.0
Md 99-1353-2 RR	2.0
R00-155	2.0
R00-859	2.0
R96-1689F	3.0
R98-1817	2.0
R98-2390F	2.0
S00-9925-10	2.0
S02-750RR	2.0
S99-2281	2.0
TN00-60	2.0
TN01-056	2.0
V99-0025	2.0

## **PRELIMINARY GROUP IV-S EARLY**

**2004**

**Uniform Group IV-S Early (Relative Maturity 4.0-4.5) nurseries were planted at 12 locations. Data were obtained from 11 of the 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  
EARLY, 2004**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. AG 4201		
2. AG 4403		
3. AG 4603		
4. LN97-15076	Macon x Stressland	
5. S02-256CR (RR)	SG 498 x S96-2692	F5
6. S02-390CR (RR)	DP 5960RR x DP 3519S	F5
7. S02-677CR (RR)	DK-4762 x SG-498 (RR)	F5
8. S02-679CR (RR)	DK-4762 x SG-498 (RR)	F5
9. S98-3940-43RR	S86-4499RR x Del soy 5500	F6
10. TN02-06-RR	MD94-5396 x (TN95-53 x Monsanto-RR)	
11. TN02-16-RR	MD94-5396 x (TN95-53 x Monsanto-RR)	
12. TN02-19-RR	Anand x (TN95-53 x Monsanto-RR)	
13. TN02-21-RR	Anand x (TN95-53 x Monsanto-RR)	
14. V01-2647	V90-0798 X V91-0731	
15. V01-2817	KY91-1214 X Nemaha	
16. V01-2880	KY91-1214 X OdeI I	
17. V99-7139	Chesapeake x P9273	
18. V99-7786	V87-299 x P9171	

**TABLE 10 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP IV-S  
EARLY, 2004 ~ MEAN OF 10 LOCATIONS**

STRAIN/ VARIETY	SEED YIELD	AVG. RANK	MAT. RANK	INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----	SCN	SCN	FL COLOR	
									PROTEIN	OIL	2	3	
AG 4201	59.1	3	5	09/27	1.8	33	1.8	15.7	40.0	19.7	5.0	5.0	
AG 4403	61.1	1	4	1-	1.7	36	1.6	13.7	37.8-	21.4+	5.0	5.0	
AG 4603	59.2	2	4	2+	1.6	34	2.0	14.7	38.8-	19.3	5.0	5.0	
LN97-15076	55.6	5	8	4-	2.1	35	2.0	16.3	41.1	20.1	5.0	5.0	
S02-256CR	54.8	10	7	3+	1.9	34	2.1	15.3	41.7+	18.3-	5.0	5.0	W
S02-390CR	56.5	4	7	9+	1.9	42	1.8	18.3	41.8+	18.5-	5.0	5.0	W
S02-677CR (RR)	55.2	7	7	6+	2.0	40	1.9	16.2	41.4+	18.9-	5.0	5.0	W
S02-679CR	55.2	7	7	2+	1.8	38	1.8	14.3	41.4+	19.2	5.0	5.0	W
S98-3940-43RR	54.9	8	8	5+	2.2	40	1.7	14.2	41.3+	19.4	5.0	5.0	W
TN02-06-RR	49.7-	14	10	1+	3.4	41	1.7	14.3	41.3+	19.6	5.0	5.0	
TN02-16-RR	50.9-	12	9	2+	2.2	41	1.7	13.9	40.4	19.5	5.0	5.0	
TN02-19-RR	52.6-	11	9	0	2.1	37	1.6	13.4	42.6+	19.4	5.0	5.0	
TN02-21-RR	54.8	10	8	2+	2.4	44	1.7	13.2	39.8	20.6+	5.0	5.0	
V01-2647	47.3-	18	12	4+	2.7	38	1.7	13.2	42.3+	18.9-	5.0	5.0	
V01-2817	47.9-	17	11	2+	1.8	38	2.1	14.5	41.1	19.1	5.0	5.0	
V01-2880	48.3-	16	11	4+	2.3	37	2.1	14.0	40.8	19.9	5.0	5.0	
V99-7139	50.7-	13	10	4-	2.0	29	2.2	13.6	40.8	19.8	5.0	5.0	
V99-7786	49.1-	15	11	6-	2.4	35	2.1	14.6	39.2	19.6	5.0	5.0	
OVERALL MEAN	53.5								40.8	19.5			
LSD (.05)	4.9								1.2	0.8			
C. V.	10%								2%	3%			

**TABLE 11 ~ SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S  
EARLY, 2004**

STRAIN/ VARIETY	JACKSON TN	KNOXVILLE TN	ORANGE VA	PINE TREE AR	PORTAGEVILLE MO	PROSPER* TX	QUEENSTOWN MD	SPRINGFIELD TN	STONEVILLE MS	WARSAW VA	MEAN
AG 4201	59.0	54.6	62.1	63.3	61.1	19.0	58.6	47.4	59.1	66.4	59.1
AG 4403	61.3	56.2	65.5	70.0	60.3	18.0-	56.6	55.1	59.8	65.2	61.1
AG 4603	62.3	54.8	63.3	63.0	57.7	25.0+	63.9	53.4	57.2	57.2-	59.2
LN97-15076	51.6	42.6-	74.4+	72.9	51.9-	24.0+	58.7	37.8	53.4	57.2-	55.6
S02-256CR (RR)	48.4	53.0	60.2	64.8	56.1	27.0+	53.9	43.2	56.7	56.8-	54.8
S02-390CR (RR)	55.3	62.3	71.2	56.1	55.0	25.0+	51.9	53.4	47.2-	56.0-	56.5
S02-677CR (RR)	38.2-	57.8	70.8	58.0	56.1	27.0+	50.1-	47.9	56.1	61.7	55.2
S02-679CR (RR)	55.6	52.4	66.1	60.5	58.6	20.0+	48.7-	44.3	51.9-	59.0-	55.2
S98-3940-43RR	52.4	48.7	70.8	68.7	52.4-	26.0+	48.5-	45.4	46.9-	60.3	54.9
TN02-06-RR	53.2	47.6	50.4-	55.7	48.8-	18.0-	55.2	30.6-	49.6-	56.5-	49.7-
TN02-16-RR	39.4-	51.1	65.6	61.1	41.3-	25.0+	56.4	32.8-	49.8-	60.8	50.9-
TN02-19-RR	50.5	55.9	55.0	62.7	51.3-	19.0	50.3-	41.2	47.8-	58.5-	52.6-
TN02-21-RR	58.0	49.9	61.3	66.2	51.3-	20.0+	53.3	47.8	46.9-	58.2-	54.8
V01-2647	36.2-	46.0	53.3	54.4	45.5-	12.0-	48.2-	40.3	47.4-	54.7-	47.3-
V01-2817	31.5-	54.2	55.6	58.0	45.5-	27.0+	44.6-	46.7	45.0-	49.9-	47.9-
V01-2880	36.7-	59.8	59.2	44.2-	44.9-	23.0+	43.8-	45.9	47.3-	52.8-	48.3-
V99-7139	44.2-	53.9	55.3	60.6	50.5-	18.0-	53.3	45.1	49.5-	43.6-	50.7-
V99-7786	46.7-	43.2-	59.3	67.6	48.5-	26.0+	47.2-	39.4	45.5-	44.0-	49.1-
L. S. D. (0.05)	11.9	8.9	9.4	11.5	8.1	0.0	7.1	11.2	6.6	7.1	4.9
C. V. (%)	11.6	10.2	7.1	8.5	7.3	0.0	6.5	14.6	6.1	5.9	9.8

\*Data not included in mean

**TABLE 12 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S EARLY, 2004**

STRAIN/ VARIETY	KNOXVILLE TN	ORANGE VA	PORTAGEVILLE MO	PROSPER* TX	QUEENSTOWN MD	WARSAW VA	MEAN
AG 4201	21.4	19.7	20.2	22.0	18.8	18.3	19.7
AG 4403	23.8	21.3	21.1	23.4	19.7	20.9	21.4
AG 4603	20.5	19.2	19.4	19.1	18.5	18.8	19.3
LN97-15076	22.7	20.0	19.6	21.6	19.0	19.1	20.1
S02-256CR (RR)	20.2	18.3	18.1	20.3	17.0	17.8	18.3
S02-390CR (RR)	18.5	18.6	19.1	21.4	17.9	18.3	18.5
S02-677CR (RR)	19.6	18.4	19.4	22.0	18.4	18.9	18.9
S02-679CR (RR)	21.1	19.1	19.1	20.1	18.2	18.7	19.2
S98-3940-43RR	20.6	19.1	19.8	19.6	18.4	18.9	19.4
TN02-06-RR	21.0	20.2	19.7	20.9	18.2	19.0	19.6
TN02-16-RR	22.0	20.0	20.1	21.4	18.5	16.9	19.5
TN02-19-RR	19.7	19.8	20.3	22.1	18.2	18.9	19.4
TN02-21-RR	22.6	20.8	21.4	22.4	18.6	19.7	20.6
V01-2647	20.2	18.9	19.3	18.7	17.6	18.7	18.9
V01-2817	20.4	19.7	18.6	19.2	18.3	18.4	19.1
V01-2880	21.2	19.7	20.2	19.3	18.0	20.2	19.9
V99-7139	20.8	20.0	19.7	22.2	19.2	19.2	19.8
V99-7786	21.7	20.2	18.9	21.6	18.1	18.9	19.6

\*Data not included in mean

**TABLE 13 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S EARLY, 2004**

STRAIN/ VARIETY	KNOXVILLE TN	ORANGE VA	PORTAGEVILLE MO	PROSPER* TX	QUEENSTOWN MD	WARSAW VA	MEAN
AG 4201	37.5	38.8	41.1	38.2	41.2	41.3	40.0
AG 4403	32.0	35.7	39.5	40.1	40.4	41.2	37.8
AG 4603	35.1	38.4	39.9	41.5	39.7	40.9	38.8
LN97-15076	37.5	39.4	41.5	39.1	42.9	44.2	41.1
S02-256CR (RR)	39.0	40.2	43.0	41.0	43.3	43.2	41.7
S02-390CR (RR)	40.4	39.2	42.7	40.7	42.7	44.1	41.8
S02-677CR (RR)	41.1	40.3	42.2	42.7	41.5	42.1	41.4
S02-679CR (RR)	38.3	40.2	43.2	40.1	42.8	42.7	41.4
S98-3940-43RR	38.6	39.9	42.0	41.0	42.7	43.1	41.3
TN02-06-RR	37.8	39.0	42.3	41.8	42.8	44.7	41.3
TN02-16-RR	36.2	39.5	42.0	45.0	43.3	40.9	40.4
TN02-19-RR	41.0	39.7	42.7	40.4	44.2	45.2	42.6
TN02-21-RR	37.0	38.1	40.0	41.1	41.3	42.4	39.8
V01-2647	38.7	40.9	42.8	42.4	43.8	45.1	42.3
V01-2817	38.6	39.3	42.9	42.9	41.6	42.9	41.1
V01-2880	38.5	39.9	41.5	42.8	41.6	42.5	40.8
V99-7139	38.2	39.6	40.2	41.9	41.7	44.1	40.8
V99-7786	35.1	38.0	39.4	40.1	39.9	43.7	39.2

**\*Data not included in mean**

**TABLE 14 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S EARLY, 2004**

STRAIN/ VARIETY	JACKSON TN	KNOXVILLE TN	ORANGE VA	PINE TREE AR	PORTAGEVILLE MO	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
AG 4201	15.1	14.0	15.3	14.8	14.9	16.2	18.7	16.7	15.7
AG 4403	14.0	13.6	13.3	13.4	13.1	14.5	13.4	14.5	13.7
AG 4603	15.0	13.8	14.6	13.2	14.1	15.5	16.1	15.7	14.7
LN97-15076	16.1	14.8	16.3	15.1	13.5	17.6	18.4	18.6	16.3
S02-256CR (RR)	14.5	15.2	15.7	14.5	14.5	17.7	13.9	16.7	15.3
S02-390CR (RR)	19.6	20.1	19.1	15.4	17.8	21.4	14.5	18.7	18.3
S02-677CR (RR)	15.4	17.9	17.2	14.0	15.9	18.0	13.1	18.1	16.2
S02-679CR (RR)	14.4	13.9	14.2	12.8	14.5	15.3	14.1	15.6	14.3
S98-3940-43RR	14.9	14.0	15.4	12.4	13.8	15.2	12.0	15.7	14.2
TN02-06-RR	16.0	12.6	15.0	12.2	13.9	15.2	13.6	16.0	14.3
TN02-16-RR	13.9	14.0	14.8	12.2	14.2	15.8	11.8	14.6	13.9
TN02-19-RR	14.0	13.3	13.3	12.0	12.9	14.9	11.7	15.2	13.4
TN02-21-RR	14.5	13.6	13.0	11.0	12.3	15.4	11.0	15.3	13.2
V01-2647	13.3	12.1	12.8	13.9	12.1	15.6	11.3	14.8	13.2
V01-2817	12.9	12.9	14.6	15.9	14.5	16.8	12.8	15.4	14.5
V01-2880	13.4	15.7	13.8	14.3	12.9	15.7	12.0	14.2	14.0
V99-7139	13.5	13.2	12.8	12.3	11.1	13.9	17.1	15.2	13.6
V99-7786	15.0	13.2	14.1	12.4	12.8	15.8	16.0	17.3	14.6



**TABLE 15 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S EARLY, 2004**

STRAIN/ VARIETY	JACKSON TN	KNOXVILLE TN	ORANGE VA	PINE TREE AR	PORTAGEVILLE MO	QUEENSTOWN MD	SPRINGFIELD TN	STONEVILLE MS	WARSAW VA	MEAN
AG 4201	36	32	38	27	35	36	34	28	35	33
AG 4403	42	33	42	33	38	36	37	28	35	36
AG 4603	38	33	42	28	36	33	35	30	34	34
LN97-15076	39	33	41	36	32	36	36	26	35	35
S02-256CR (RR)	37	34	41	33	36	31	36	26	33	34
S02-390CR (RR)	49	42	52	36	42	43	43	32	42	42
S02-677CR (RR)	42	38	47	36	39	40	43	34	42	40
S02-679CR (RR)	43	38	45	36	35	35	43	28	38	38
S98-3940-43RR	42	40	45	40	38	40	43	30	39	40
TN02-06-RR	44	40	46	41	44	41	46	32	41	41
TN02-16-RR	44	38	49	38	44	40	44	38	38	41
TN02-19-RR	46	36	43	34	38	36	40	30	35	37
TN02-21-RR	47	40	51	45	43	43	48	34	41	44
V01-2647	34	36	44	41	44	40	39	32	37	38
V01-2817	37	35	44	41	40	39	38	28	38	38
V01-2880	35	42	46	28	40	40	38	30	39	37
V99-7139	27	29	36	24	30	29	32	22	30	29
V99-7786	37	30	44	33	33	39	35	28	36	35

**TABLE 16 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S EARLY, 2004**

STRAIN/ VARIETY	JACKSON TN	KNOXVILLE TN	ORANGE VA	PINE TREE AR	PORTAGEVILLE TX	PROSPER* MO	QUEENSTOWN MD	SPRINGFIELD TN	STONEVILLE MS	WARSAW VA	MEAN
AG 4201	1.5	2.2	2.8	1.3	1.0	1.7	2.5	1.0	2.0	1.9	1.8
AG 4403	1.5	1.7	1.4	1.8	1.5	1.9	2.5	1.0	2.0	2.2	1.7
AG 4603	1.5	1.6	1.5	1.1	1.0	1.9	2.5	1.0	2.0	2.2	1.6
LN97-15076	2.5	1.7	1.4	2.2	1.0	2.0	3.3	1.3	3.0	2.5	2.1
S02-256CR (RR)	1.5	1.5	2.6	1.1	1.5	2.0	3.3	1.3	2.0	2.0	1.9
S02-390CR (RR)	1.8	2.0	1.5	1.0	2.0	2.3	3.3	1.0	2.0	2.4	1.9
S02-677CR (RR)	2.0	1.7	1.5	1.4	1.0	2.2	3.5	1.3	2.0	3.3	2.0
S02-679CR (RR)	1.8	2.2	1.7	1.4	1.5	2.1	2.5	1.0	2.0	2.0	1.8
S98-3940-43RR	2.5	2.3	1.8	3.1	1.5	2.4	3.0	1.0	2.0	2.7	2.2
TN02-06-RR	3.5	3.2	3.2	3.1	3.5	2.4	3.3	5.0	3.0	3.0	3.4
TN02-16-RR	2.0	2.2	1.5	2.2	3.0	2.7	3.3	1.3	2.0	2.0	2.2
TN02-19-RR	3.0	1.4	2.0	1.3	1.5	2.1	3.3	2.0	2.0	2.4	2.1
TN02-21-RR	4.0	2.0	2.0	1.4	1.5	2.6	3.5	2.7	2.0	2.9	2.4
V01-2647	2.5	2.8	2.9	2.5	2.5	2.0	3.5	2.7	2.0	3.4	2.7
V01-2817	1.3	1.8	1.6	1.1	1.0	2.5	3.5	1.0	2.0	2.7	1.8
V01-2880	2.8	2.5	2.4	1.2	2.0	2.0	3.5	1.7	2.0	3.0	2.3
V99-7139	1.5	2.2	2.8	1.3	3.0	1.8	2.0	1.7	2.0	1.7	2.0
V99-7786	2.5	1.7	2.8	2.4	1.5	2.4	3.5	2.7	2.0	2.4	2.4

\*Data not included in mean

**TABLE 17 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S EARLY, 2004**

STRAIN/ VARIETY	JACKSON TN	KNOXVILLE TN	ORANGE VA	PINE TREE AR	PORTAGEVILLE MO	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
AG 4201	2.8	2.0	1.3	1.0	2.0	1.3	2.0	2.2	1.8
AG 4403	2.5	1.0	1.3	1.5	2.0	1.0	2.0	1.9	1.6
AG 4603	2.8	3.0	1.4	1.5	2.0	1.0	2.0	2.8	2.0
LN97-15076	2.8	2.0	1.3	2.3	1.5	1.3	2.0	3.1	2.0
S02-256CR (RR)	2.8	3.0	1.5	2.3	1.5	1.5	2.0	2.5	2.1
S02-390CR (RR)	3.0	1.0	1.1	2.0	2.0	1.0	2.0	2.7	1.8
S02-677CR (RR)	2.3	2.0	1.3	2.3	2.0	1.0	2.0	2.5	1.9
S02-679CR (RR)	2.3	2.0	1.3	2.8	1.5	1.0	2.0	1.7	1.8
S98-3940-43RR	2.8	1.0	1.3	1.3	2.0	1.0	2.0	2.0	1.7
TN02-06-RR	2.5	2.0	1.2	1.0	2.0	1.3	2.0	2.0	1.7
TN02-16-RR	2.8	1.0	1.2	1.5	2.0	1.0	2.0	1.8	1.7
TN02-19-RR	2.8	1.0	1.4	1.3	1.5	1.0	2.0	2.0	1.6
TN02-21-RR	2.5	2.0	1.4	1.3	1.5	1.0	2.0	1.8	1.7
V01-2647	2.5	2.0	1.4	1.0	2.0	1.0	2.0	2.1	1.7
V01-2817	3.0	3.0	1.4	1.5	2.0	1.0	2.0	2.5	2.1
V01-2880	2.5	2.0	1.5	2.3	2.0	1.3	3.0	2.5	2.1
V99-7139	3.3	2.0	1.8	2.0	2.0	1.3	2.0	3.3	2.2
V99-7786	2.8	2.0	1.6	2.3	1.5	1.3	2.0	3.4	2.1

## PRELIMINARY GROUP IV-S LATE

2004

**Preliminary Group IV-S Late (Relative Maturity 4.6-4.9) nurseries were planted at 13 locations. Data were obtained from 11 of the locations. The parentage for each strain is reported in Table 18. Table 19 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 20 - 26.**

**TABLE 18 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S  
LATE, 2004**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. 5002T	Holladay x Manokin	
2. DK 4868 (RR)		
3. DB99-17048	Freedom x Bolivar	F6
4. DB99-17145	Freedom x Bolivar	F6
5. DB99-17445	UARK5798 x Bolivar	F6
6. DB99-17531	UARK5798 x Bolivar	F6
7. K1632RR	K1235 x K97-132	F5
8. K1633RR	DELSOY 5500 x K97-132	F5
9. K1634RR	DELSOY 5500 x K97-132	F5
10. K1635RR	DELSOY 5500 x K97-132	F5
11. K1636RR	DELSOY 5500 x K97-132	F5
12. LS00-6996	TN91-55 x Dekalb 411	
13. LS01-0971	LS92-4173 x Dekalb 339c	
14. LS01-3659	LS93-0375 x Mustang	
15. Md 01-5866	K1364 x SS91-7138	F5
16. Md 01-709 RR	Md 95-5358 x Md92-5850(2) x Stressland x ResnikRR	F5
17. Md 01-751 RR	Manokin (4) x ResnikRR	F5
18. Md 01-777 RR	Manokin (4) x ResnikRR	F5
19. Md 01-848 RR	Md 93-5581 x Manokin(3) x ResnikRR	F5
20. R00-1178F	A4715 X DP 3478	
21. R00-1194F	A4715 X DP 3478	
22. R01-1025	HBK 4890 x R96-1083	
23. R01-1092	HBK 4890 x R96-1083	
24. R01-769	Jackson x KS4895	
25. S02-166RR	SG 498 x SS94-7482	F5
26. S02-182RR	S95-1908 x SG 498	F5
27. S02-258RR	SG 498 x S96-2692	F5
28. S02-3923RR	SG 498 x Anand	F5
29. S02-683RR	DK-4762 X SG-498 (RR)	F5
30. TN01-032	Caviness x Anand	
31. TN02-05-RR	MD94-5396 x (TN95-53 x Resnik-RR)	
32. TN02-169	Fowler x MD94-5396	
33. TN02-18-RR	MD94-5396 x (TN95-53 x Resnik-RR)	
34. TN02-226	Fowler x Anand	
35. TX 72821	TN 93-87 x MD 94-5332	
36. TX 74053	TN 94-213 x MD 94-5396	
37. V00-1366	Essex X Stressland	
38. V00-1380	Essex X Stressland	
39. V00-2275	KY88-4080 X FFR 493	
40. V00-2300	V90-798 X Stressland	
41. V00-2315	V90-798 X Stressland	

**TABLE 19 ~ GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP IV-S LATE, 2004 ~ MEAN OF 12 LOCATIONS**

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----	SCN	SCN	FL	PUB.	POD	
									PROTEIN	OIL	2	3	COLOR	COLOR	COLOR
5002T	59.9	1	14	09/29	2.2	29	1.7	15.1	39.4	19.4	5.0	5.0			
DK 4868 (RR)	57.3	3	16	8-	1.8	35	2.3	13.8	39.1	19.7	5.0	5.0			
DB99-17048	53.9-	15	20	2+	3.0	34	1.7	14.5	40.2	18.6	4.0	5.0	W	T	T
DB99-17145	52.3-	27	22	0	3.2	33	1.9	15.2	41.4+	18.3-	5.0	5.0	W	T	T
DB99-17445	52.9-	23	21	2+	2.5	32	1.9	13.0	40.2	18.7	5.0	5.0	W	T	T
DB99-17531	50.5-	32	24	3+	2.3	36	2.2	15.0	41.3+	19.0	5.0	5.0	P	T	T
K1632RR	51.9-	29	23	6-	2.0	35	2.3	16.0	41.4+	20.0	5.0	5.0			
K1633RR	49.2-	39	27	6-	2.0	32	2.1	16.1	41.7+	19.4	5.0	5.0			
K1634RR	50.0-	35	25	6-	1.8	32	2.0	16.2	41.2+	19.9	5.0	4.0			
K1635RR	50.7-	31	25	8-	2.0	35	2.2	14.7	41.5+	19.1	5.0	4.0			
K1636RR	52.3-	27	23	7-	2.3	34	2.0	13.9	40.7+	19.2	5.0	5.0			
LS00-6996	47.7-	40	29	7-	2.5	40	1.9	13.9	40.3	19.6	5.0	3.0			
LS01-0971	52.3-	27	22	9-	1.9	33	1.7	13.5	39.7	19.7	5.0	1.0			
LS01-3659	51.3-	30	23	8-	2.3	36	2.4	17.9	40.3	18.9	5.0	1.0			
Md 01-5866	58.9	2	15	5-	1.6	28	2.0	14.7	39.9	19.7	5.0	1.0			
Md 01-709 RR	46.7-	41	28	8-	2.1	35	2.8	17.5	41.0+	19.8	5.0	5.0			
Md 01-751 RR	49.9-	36	25	1-	2.4	35	1.6	11.4	39.3	19.6	5.0	4.0			
Md 01-777 RR	49.8-	37	26	1-	2.4	32	1.8	12.2	40.4	19.6	5.0	1.0			
Md 01-848 RR	50.3-	34	25	4-	1.8	31	1.9	11.5	40.4	19.4	5.0	1.0			
RO0-1178F	53.6-	18	21	5-	2.1	39	1.9	14.0	39.8	20.0	5.0	5.0			
RO0-1194F	56.7	6	17	3-	1.8	35	2.0	13.1	39.0	19.3	5.0	3.0			
R01-1025	53.8-	16	20	5-	2.1	40	2.0	15.6	40.5+	19.6	5.0	5.0			
R01-1092	54.0-	14	20	8-	1.4	29	1.6	12.9	39.0	19.2	5.0	4.0			
R01-769	55.1-	9	20	1-	1.5	27	1.9	13.7	38.8	19.5	5.0	5.0			
S02-166RR	55.0-	10	19	4-	2.2	37	2.5	18.0	41.3+	19.0	5.0	5.0	W		
S02-182RR	53.6-	18	21	3-	2.2	38	1.9	14.2	41.8+	18.8	5.0	5.0	W		
S02-258RR	52.7-	24	22	5-	2.1	35	2.0	15.5	41.3+	19.3	5.0	5.0	W		
S02-3923RR	52.4-	25	22	4-	2.3	38	1.9	14.7	41.2+	18.7	5.0	5.0	W		
S02-683RR	56.8	5	17	2-	2.3	40	2.1	17.1	42.3+	19.5	4.0	5.0	W		
TN01-032	53.3-	22	21	4-	1.9	29	2.0	14.0	40.6+	19.6	5.0	2.0			
TN02-05-RR	53.4-	21	21	4-	2.5	40	1.7	13.6	40.0	19.9	5.0	5.0			
TN02-169	55.6	7	18	0	1.7	31	1.9	14.7	39.7	19.1	5.0	5.0			
TN02-18-RR	49.4-	38	26	8-	2.5	41	2.2	15.9	40.4	19.8	5.0	3.0			
TN02-226	54.1-	13	20	1-	1.7	30	1.9	13.9	38.9	19.0	1.0	1.0			
TX 72821	54.3-	12	20	2-	2.0	32	1.6	13.0	40.3	18.8	5.0	1.0			
TX 74053	55.3-	8	19	2-	1.6	30	1.7	14.1	39.4	20.1	5.0	5.0			
V00-1366	54.3-	12	20	5-	1.4	26	1.6	12.1	40.8+	19.0	5.0	5.0			
V00-1380	53.4-	21	21	6-	1.6	26	1.8	12.8	41.0+	19.0	5.0	4.0			
V00-2275	56.9	4	17	9-	1.8	36	1.8	14.9	40.1	19.8	5.0	5.0			
V00-2300	53.6-	18	21	9-	2.0	36	1.7	12.5	41.0+	19.6	5.0	5.0			
V00-2315	50.4-	33	24	7-	2.2	39	2.1	12.9	41.9+	19.8	5.0	5.0			
OVERALL MEAN	53.1								40.5	19.4					
LSD (.05)	4.5								1.1	0.8					
C. V.	11%								2%	4%					

**TABLE 20 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S LATE, 2004**

STRAIN/ VARIETY	JACKSON TN	MCCUNE KS	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	ROHWER AR	STONEVILLE MS	ULLIN* IL	WARSAW VA	MEAN
5002T	71.4	34.3	58.9	42.6	74.0	72.2	19.0	52.0	61.5	62.8	50.8	69.6	59.9
DK 4868 (RR)	52.9-	32.7	61.6	50.8+	70.7	72.6	29.0+	57.0	65.3	43.9-	36.3	65.4	57.3
DB99-17048	55.1-	33.5	47.4	45.5	63.0-	63.8	30.0+	42.2	60.1	64.6	39.9	63.8	53.9-
DB99-17145	55.1-	33.3	54.0	40.2	59.9-	54.6-	17.0-	43.7	64.3	57.2	58.1	60.3-	52.3-
DB99-17445	55.3-	31.1	67.1	41.4	57.4-	61.6	18.0-	35.1-	52.9	62.3	36.3	64.3	52.9-
DB99-17531	54.5-	30.0	56.7	36.3-	47.6-	63.1	13.0-	43.0	59.4	56.1	47.2	58.1-	50.5-
K1632RR	46.7-	36.3	53.2	48.0+	64.9-	69.8	24.0+	38.4-	64.2	41.6-	36.3	55.8-	51.9-
K1633RR	39.3-	35.5	51.9	50.2+	54.5-	64.5	26.0+	45.3	54.1	43.2-	39.9	53.1-	49.2-
K1634RR	34.5-	31.9	55.7	44.9	60.8-	68.5	19.0	46.7	56.7	43.5-	47.2	57.3-	50.0-
K1635RR	42.5-	32.7	49.9	46.2	59.6-	71.3	23.0+	46.3	55.3	45.6-	50.8	58.0-	50.7-
K1636RR	50.8-	30.6	58.3	41.3	59.6-	71.9	25.0+	49.0	53.9	45.6-	47.2	62.2-	52.3-
LS00-6996	45.7-	36.1	53.2	42.9	50.2-	61.9	30.0+	42.6	45.8-	43.8-	39.9	54.2-	47.7-
LS01-0971	50.3-	33.5	60.6	50.7+	65.0	73.4	23.0+	46.6	45.9-	36.2-	39.9	60.5-	52.3-
LS01-3659	54.5-	28.0-	60.2	44.5	59.0-	68.2	11.0-	46.6	46.5-	42.7-	29.0-	62.5-	51.3-
Md 01-5866	60.6	33.2	63.2	46.8+	76.7	73.0	13.0-	55.3	61.5	52.1-	36.3	67.1	58.9
Md 01-709 RR	28.9-	31.7	58.9	46.5	63.8-	56.4-	30.0+	45.5	47.8-	33.8-	54.5	54.0-	46.7-
Md 01-751 RR	49.4-	32.6	56.4	35.3-	64.2-	55.1-	23.0+	43.3	60.5	47.6-	39.9	54.3-	49.9-
Md 01-777 RR	54.9-	33.8	46.1	38.6	61.4-	52.4-	12.0-	48.5	53.5	51.5-	47.2	57.2-	49.8-
Md 01-848 RR	48.5-	36.3	54.2	43.2	58.8-	63.0	13.0-	43.3	48.7-	47.0-	47.2	59.6-	50.3-
R00-1178F	54.4-	34.9	51.5	46.0	58.7-	72.7	23.0+	52.3	58.3	48.8-	43.6	58.7-	53.6-
R00-1194F	58.9	35.4	60.7	50.9+	76.4	66.0	22.0+	50.4	61.2	43.5-	36.3	63.8	56.7
R01-1025	60.8	31.3	60.1	43.5	60.1-	64.3	22.0+	46.4	59.9	48.4-	29.0-	63.4	53.8-
R01-1092	59.3	38.3	62.6	42.2	63.9-	67.1	26.0+	42.9	58.9	46.9-	32.7-	58.3-	54.0-
R01-769	47.6-	33.6	77.8+	47.3+	64.6-	60.9-	22.0+	43.0	56.7	50.1-	39.9	69.1	55.1-
S02-166RR	49.5-	33.4	58.8	50.0+	60.7-	71.2	17.0-	56.4	56.7	52.0-	39.9	61.0-	55.0-
S02-182RR	54.4-	35.7	56.3	47.0+	63.9-	66.1	21.0+	43.5	57.0	49.9-	43.6	61.7-	53.6-
S02-258RR	59.8	30.5	52.6	45.9	55.9-	70.9	18.0-	52.2	52.3	46.1-	43.6	60.7-	52.7-
S02-3923RR	62.5	29.8-	59.2	44.5	70.2	59.7-	.	43.0	53.8	44.6-	50.8	56.8-	52.4-
S02-683RR	61.3	33.9	65.4	48.0+	68.9	69.3	15.0-	57.3	57.5	47.8-	43.6	59.1-	56.8
TN01-032	58.9	37.8	56.1	46.9+	55.8-	65.5	21.0+	37.3-	68.1	45.6-	39.9	60.9-	53.3-
TN02-05-RR	62.8	29.3-	55.6	44.8	66.1	67.1	22.0+	49.3	54.4	45.7-	43.6	58.7-	53.4-
TN02-169	72.1	31.2	57.8	43.0	66.3	64.4	19.0	50.8	60.2	42.3-	39.9	67.7	55.6
TN02-18-RR	50.7-	31.9	48.1	42.6	63.2-	62.6	23.0+	46.1	56.1	38.3-	39.9	54.8-	49.4-
TN02-226	50.3-	32.6	63.2	45.7	67.1	65.6	21.0+	55.1	54.3	42.6-	50.8	64.7	54.1-
TX 72821	60.3	35.2	49.2	42.5	67.1	68.1	27.0+	39.7-	62.3	51.9-	32.7-	67.2	54.3-
TX 74053	42.0-	35.4	59.1	41.8	71.3	64.3	21.0+	53.4	66.0	53.9-	39.9	65.9	55.3-
V00-1366	46.3-	32.0	62.4	50.4+	65.2	71.4	21.0+	50.4	57.9	42.5-	47.2	64.4	54.3-
V00-1380	49.4-	34.4	60.1	43.6	62.3-	69.1	20.0+	55.7	46.6-	45.9-	54.5	67.0	53.4-
V00-2275	59.2	36.2	70.9	47.2+	57.3-	73.4	37.0+	60.2	55.2	41.3-	50.8	68.5	56.9
V00-2300	54.7-	37.5	58.5	48.2+	58.5-	72.8	21.0+	45.8	54.6	41.8-	43.6	63.6	53.6-
V00-2315	37.6-	34.1	52.2	39.8	61.7-	65.7	26.0+	49.5	58.9	42.7-	29.0-	62.0-	50.4-
L. S. D. (0.05)	16.1	4.4	16.1	4.1	9.0	11.3	0.0	10.2	12.1	6.8	17.0	6.4	4.5
C.V. (%)	15.1	6.5	13.8	4.5	7.1	8.5	0.0	10.7	13.0	7.1	19.9	5.2	10.7

\*Data not included in mean

**TABLE 21 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S LATE, 2004**

STRAIN/ VARIETY	PITTSBURG KS	PORTAGEVILLE MO	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	ULLIN* IL	WARSAW VA	MEAN
5002T	20.2	20.7	19.2	22.8	17.7	19.9	19.4	19.4
DK 4868 (RR)	21.5	19.3	20.1	20.8	18.5	19.5	19.0	19.7
DB99-17048	18.4	18.5	17.8	18.3	16.9	17.8	21.2	18.6
DB99-17145	18.7	19.7	18.3	18.8	17.4	19.3	17.4	18.3
DB99-17445	19.8	19.8	18.2	19.9	17.8	19.8	18.1	18.7
DB99-17531	19.5	20.3	18.3	.	17.9	20.0	18.8	19.0
K1632RR	22.1	19.2	20.2	20.5	18.6	21.2	19.9	20.0
K1633RR	19.9	20.1	19.6	20.5	18.3	20.7	19.3	19.4
K1634RR	21.3	20.0	19.6	20.8	19.1	20.6	19.6	19.9
K1635RR	21.2	18.7	19.5	21.7	17.5	20.0	18.6	19.1
K1636RR	20.2	19.9	19.4	20.5	18.5	19.5	17.9	19.2
LS00-6996	20.9	19.8	19.6	19.9	18.3	18.8	19.4	19.6
LS01-0971	22.2	20.5	19.1	21.7	18.0	20.6	18.9	19.7
LS01-3659	20.3	18.4	18.3	19.3	19.5	19.3	18.2	18.9
Md 01-5866	21.6	20.5	21.0	22.1	16.6	19.5	18.9	19.7
Md 01-709 RR	21.8	18.8	19.8	20.5	18.4	20.6	20.1	19.8
Md 01-751 RR	21.0	19.9	19.1	19.3	18.1	19.4	19.9	19.6
Md 01-777 RR	20.2	20.6	19.5	21.9	18.2	19.5	19.4	19.6
Md 01-848 RR	20.8	20.1	18.1	21.2	18.4	19.7	19.8	19.4
R00-1178F	21.3	20.5	20.2	20.6	18.5	19.8	19.7	20.0
R00-1194F	20.9	19.7	18.4	20.8	18.0	19.7	19.4	19.3
R01-1025	20.9	19.5	18.9	20.9	18.9	18.4	19.8	19.6
R01-1092	19.9	19.7	18.4	21.4	18.2	19.3	20.0	19.2
R01-769	20.7	19.1	19.8	21.0	18.3	20.1	19.8	19.5
S02-166RR	19.1	19.3	18.4	20.4	19.2	19.8	19.0	19.0
S02-182RR	20.0	19.5	19.2	20.5	17.5	19.5	18.0	18.8
S02-258RR	20.6	19.7	19.3	19.8	18.1	19.8	18.8	19.3
S02-3923RR	19.8	18.4	18.5	.	18.0	18.8	18.7	18.7
S02-683RR	21.8	20.0	19.2	20.0	18.0	20.0	18.3	19.5
TN01-032	22.0	20.0	19.3	19.8	17.7	18.4	19.2	19.6
TN02-05-RR	21.3	19.9	18.9	19.2	19.2	20.1	20.3	19.9
TN02-169	20.3	19.6	19.2	21.7	17.3	19.1	19.1	19.1
TN02-18-RR	21.6	20.6	18.9	20.9	18.1	20.5	19.8	19.8
TN02-226	20.6	19.5	19.0	21.1	17.5	18.9	18.6	19.0
TX 72821	19.7	19.6	18.1	20.7	17.5	19.3	19.0	18.8
TX 74053	21.4	21.0	20.0	20.0	18.5	20.1	19.8	20.1
V00-1366	21.4	19.8	18.9	19.8	18.2	18.8	16.8	19.0
V00-1380	20.7	19.9	17.8	19.7	18.5	19.1	18.3	19.0
V00-2275	21.0	19.7	19.4	20.9	18.7	20.3	20.0	19.8
V00-2300	20.7	19.6	19.9	20.4	18.1	18.9	19.6	19.6
V00-2315	21.3	20.1	18.8	20.9	19.1	20.0	19.7	19.8

\*Data not included in mean



**TABLE 22 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S LATE, 2004**

STRAIN/ VARIETY	PITTSBURG KS	PORTAGEVILLE MO	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	ULLIN* IL	WARSAW VA	MEAN
5002T	36.5	40.0	38.7	42.1	40.5	39.1	41.3	39.4
DK 4868 (RR)	36.6	40.2	37.2	39.7	40.5	40.6	41.2	39.1
DB99-17048	40.4	42.3	41.0	42.2	39.5	40.1	37.6	40.2
DB99-17145	40.5	41.1	39.3	41.0	42.2	40.5	43.9	41.4
DB99-17445	39.3	39.5	39.7	42.2	41.2	40.5	41.3	40.2
DB99-17531	41.0	41.1	41.4	.	41.4	41.4	41.6	41.3
K1632RR	39.4	41.7	40.2	42.6	42.3	40.4	43.6	41.4
K1633RR	40.4	42.5	39.8	44.0	42.1	41.2	43.8	41.7
K1634RR	39.7	41.9	39.8	43.1	41.5	40.2	42.9	41.2
K1635RR	39.0	42.1	39.9	39.7	43.5	41.7	43.1	41.5
K1636RR	39.9	41.9	39.1	42.2	40.6	41.1	41.8	40.7
LS00-6996	38.3	41.0	39.0	39.2	41.1	41.6	42.2	40.3
LS01-0971	36.4	38.2	40.0	41.5	41.0	36.7	42.7	39.7
LS01-3659	37.6	40.7	40.4	43.0	40.8	40.3	42.0	40.3
Md 01-5866	39.1	40.7	39.5	42.1	38.3	40.9	42.0	39.9
Md 01-709 RR	39.2	40.4	40.0	41.2	41.8	40.2	43.6	41.0
Md 01-751 RR	37.2	39.9	38.9	40.0	40.3	40.6	40.3	39.3
Md 01-777 RR	39.0	41.3	39.5	43.3	40.8	39.9	41.5	40.4
Md 01-848 RR	38.9	41.3	40.6	44.3	40.9	40.4	40.2	40.4
R00-1178F	37.9	40.8	38.0	40.4	40.9	41.3	41.3	39.8
R00-1194F	38.2	39.4	39.2	41.3	38.6	38.6	39.5	39.0
R01-1025	39.3	40.8	39.9	41.2	40.7	42.5	42.0	40.5
R01-1092	37.4	39.2	39.0	39.9	39.1	38.7	40.3	39.0
R01-769	37.0	39.6	37.8	38.6	39.4	37.8	40.1	38.8
S02-166RR	41.1	41.0	40.1	42.8	41.9	40.3	42.4	41.3
S02-182RR	39.9	41.9	39.2	44.2	43.0	40.9	45.0	41.8
S02-258RR	40.0	41.3	40.8	42.1	42.0	40.9	42.6	41.3
S02-3923RR	39.5	41.7	40.4	.	41.4	40.5	42.8	41.2
S02-683RR	40.7	42.6	41.8	43.9	42.5	41.6	43.9	42.3
TN01-032	37.8	40.5	38.8	41.7	42.5	42.2	43.4	40.6
TN02-05-RR	38.8	40.6	39.1	39.0	40.1	39.5	41.4	40.0
TN02-169	38.4	39.8	38.1	38.6	40.7	39.6	41.5	39.7
TN02-18-RR	39.6	39.9	39.7	38.8	40.9	39.8	41.7	40.4
TN02-226	36.7	38.6	39.0	36.9	39.0	40.2	41.1	38.9
TX 72821	39.5	39.5	40.1	38.5	41.2	38.1	41.1	40.3
TX 74053	37.5	39.0	38.4	39.6	40.4	38.7	41.9	39.4
V00-1366	39.9	40.8	41.6	41.7	40.7	40.8	41.1	40.8
V00-1380	39.3	41.7	40.8	41.5	40.9	42.2	42.4	41.0
V00-2275	38.2	40.3	39.6	42.0	40.5	39.8	41.9	40.1
V00-2300	38.8	42.0	39.7	41.7	42.0	41.8	42.5	41.0
V00-2315	40.4	41.8	41.7	41.1	42.4	40.9	43.2	41.9

\*Data not included in mean

**TABLE 23 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S LATE, 2004**

STRAIN/ VARIETY	JACKSON MS	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN* IL	WARSAW VA	MEAN
5002T	17.9	17.9	12.9	14.2	14.0	13.9	14.8	14.9	15.5	15.1
DK 4868 (RR)	13.9	13.6	14.3	13.0	13.5	13.0	13.6	13.1	15.8	13.8
DB99-17048	16.9	12.8	15.7	14.3	13.3	13.5	13.4	13.4	15.8	14.5
DB99-17145	18.9	14.0	14.1	13.8	17.0	14.5	12.1	15.3	17.2	15.2
DB99-17445	14.3	11.9	13.4	11.9	13.1	12.2	12.5	11.9	14.4	13.0
DB99-17531	15.9	15.1	14.4	14.0	16.0	14.2	14.1	15.0	16.7	15.0
K1632RR	16.4	16.8	15.6	15.2	15.5	15.1	15.8	14.7	17.3	16.0
K1633RR	15.4	15.5	16.8	16.9	17.0	16.8	13.1	16.6	17.3	16.1
K1634RR	14.9	16.3	16.2	16.2	16.4	17.4	14.8	17.2	17.5	16.2
K1635RR	13.9	14.9	13.6	14.6	15.0	16.3	13.5	14.8	16.1	14.7
K1636RR	14.9	13.9	12.3	13.7	14.0	14.6	12.9	14.0	15.2	13.9
LS00-6996	14.4	14.7	13.6	13.5	14.4	14.1	11.5	12.8	14.9	13.9
LS01-0971	13.4	14.3	14.2	11.8	14.0	13.7	11.9	11.8	14.9	13.5
LS01-3659	17.5	19.8	19.0	14.1	19.1	18.4	17.1	16.0	18.5	17.9
Md 01-5866	17.0	15.3	13.7	14.3	14.0	14.7	13.0	14.1	15.5	14.7
Md 01-709 RR	16.6	17.1	18.0	15.6	18.0	18.4	17.9	16.9	18.8	17.5
Md 01-751 RR	13.4	11.0	10.0	10.3	11.3	12.1	11.1	15.0	12.0	11.4
Md 01-777 RR	13.9	13.2	11.6	11.7	11.4	12.9	10.7	11.7	12.2	12.2
Md 01-848 RR	15.4	10.1	11.1	11.3	11.6	11.2	10.2	12.9	11.4	11.5
R00-1178F	14.5	12.7	14.0	13.7	13.6	15.7	12.0	13.9	16.1	14.0
R00-1194F	14.9	11.3	13.1	13.4	13.2	14.0	11.4	12.6	13.8	13.1
R01-1025	16.9	15.9	15.1	15.4	15.6	16.4	13.1	13.4	16.4	15.6
R01-1092	14.9	14.4	11.6	13.0	13.1	12.2	11.7	11.8	12.5	12.9
R01-769	16.0	14.2	12.8	13.5	12.9	14.6	10.8	14.6	14.6	13.7
S02-166RR	18.4	16.7	17.7	17.7	18.3	20.5	15.0	16.0	19.5	18.0
S02-182RR	15.0	13.8	13.9	14.0	14.6	15.2	11.8	14.3	15.8	14.2
S02-258RR	16.4	14.9	16.0	15.6	15.6	16.2	11.9	15.0	17.2	15.5
S02-3923RR	17.0	13.0	14.1	16.1	15.2	16.2	10.3	15.2	15.6	14.7
S02-683RR	18.0	15.1	17.1	17.0	17.5	19.6	14.3	16.1	18.4	17.1
TN01-032	18.6	12.9	12.7	13.1	14.2	13.8	12.3	15.3	14.8	14.0
TN02-05-RR	15.4	11.7	13.2	13.4	14.2	15.1	11.8	13.1	14.2	13.6
TN02-169	16.8	14.1	14.2	13.8	14.2	15.6	13.4	13.7	15.6	14.7
TN02-18-RR	17.0	14.2	17.2	15.1	17.1	16.3	13.8	16.6	16.5	15.9
TN02-226	16.0	14.0	12.7	13.0	14.6	14.4	11.4	14.0	15.4	13.9
TX 72821	15.4	11.4	12.3	12.5	12.7	13.7	12.5	13.1	13.6	13.0
TX 74053	17.4	11.8	13.6	13.8	13.5	14.7	12.7	14.6	15.3	14.1
V00-1366	14.9	13.3	10.7	11.4	12.2	11.3	11.8	11.9	11.4	12.1
V00-1380	14.9	12.9	12.3	12.9	12.6	12.7	12.0	13.8	12.4	12.8
V00-2275	16.0	16.0	13.5	14.0	14.1	14.7	14.7	14.5	15.9	14.9
V00-2300	13.4	12.0	12.7	11.2	12.8	13.0	11.2	12.7	13.9	12.5
V00-2315	13.9	13.3	12.4	12.4	12.3	14.1	10.3	12.7	14.6	12.9

\*Data not included in mean

**TABLE 24 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S LATE, 2004**

STRAIN/ VARIETY	JACKSON TN	MCCUNE KS	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	ROHWER AR	STONEVILLE MS	ULLIN* IL	WARSAW VA	MEAN
5002T	24	28	34	39	23	39	17	31	22	22	28	31	29
DK 4868 (RR)	40	28	37	39	36	42	23	39	31	28	34	37	35
DB99-17048	32	31	34	50	29	38	21	31	32	26	32	39	34
DB99-17145	27	31	30	43	32	47	16	31	27	26	27	35	33
DB99-17445	27	31	38	45	27	38	17	29	27	30	27	34	32
DB99-17531	34	33	37	48	30	44	20	34	29	33	34	37	36
K1632RR	38	28	33	41	33	43	25	35	35	28	33	37	35
K1633RR	32	25	31	37	32	42	19	34	28	28	30	33	32
K1634RR	31	26	27	37	34	42	18	36	27	30	33	34	32
K1635RR	37	28	25	41	35	44	25	39	33	30	38	38	35
K1636RR	39	27	27	38	35	43	25	36	32	28	35	36	34
LS00-6996	42	34	30	48	38	50	26	44	33	36	39	42	40
LS01-0971	37	29	30	39	32	40	.	38	30	26	36	35	33
LS01-3659	42	32	29	44	36	44	20	39	33	26	40	39	36
Md 01-5866	23	27	26	37	27	35	13	31	27	18	25	30	28
Md 01-709 RR	40	27	31	45	37	46	21	36	28	22	37	39	35
Md 01-751 RR	32	32	34	50	29	42	21	37	30	30	33	34	35
Md 01-777 RR	28	32	34	44	28	40	14	32	27	22	27	35	32
Md 01-848 RR	20	31	36	44	25	39	11	31	22	34	29	30	31
RO0-1178F	44	33	32	47	38	50	21	41	33	30	40	40	39
RO0-1194F	37	28	36	40	36	43	18	37	32	28	33	34	35
RO1-1025	46	31	34	47	42	51	10	42	35	30	40	40	40
RO1-1092	28	28	28	38	21	37	16	30	22	22	22	33	29
RO1-769	18	24	36	35	22	35	14	26	23	20	22	29	27
S02-166RR	41	27	32	43	38	46	.	38	31	34	36	39	37
S02-182RR	43	27	30	46	39	47	26	38	33	34	37	42	38
S02-258RR	41	28	31	39	38	48	22	35	28	32	36	35	35
S02-3923RR	44	32	33	46	41	43	.	40	30	32	39	38	38
S02-683RR	46	32	29	48	41	50	19	43	35	34	43	42	40
TN01-032	26	28	32	42	23	40	13	22	28	24	29	30	29
TN02-05-RR	46	31	32	44	44	49	29	40	40	34	42	41	40
TN02-169	28	29	32	41	27	43	20	34	25	24	27	34	31
TN02-18-RR	47	35	32	49	37	46	27	49	37	36	39	42	41
TN02-226	24	28	36	41	24	40	14	30	22	24	27	32	30
TX 72821	30	33	29	45	29	39	17	33	26	26	28	33	32
TX 74053	26	28	30	44	25	37	17	28	25	24	25	31	30
V00-1366	19	24	33	33	21	32	15	27	22	20	21	28	26
V00-1380	21	25	30	34	23	35	15	27	20	20	25	27	26
V00-2275	43	28	29	45	37	45	27	37	30	30	37	37	36
V00-2300	42	31	29	42	36	42	24	38	30	32	35	36	36
V00-2315	44	32	33	45	44	42	25	41	35	32	43	42	39

\*Data not included in mean

**TABLE 25 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S LATE, 2004**

STRAIN/ VARIETY	JACKSON TN	MCCUNE KS	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN* IL	WARSAW VA	MEAN
5002T	1.5	1.0	2.5	2.0	1.5	3.5	3.3	2.0	1.0	2.5	2.2
DK 4868 (RR)	1.8	1.0	1.5	1.0	2.0	1.5	3.3	2.0	1.0	1.9	1.8
DB99-17048	4.3	1.0	2.4	3.0	3.5	3.3	3.8	2.0	1.0	3.9	3.0
DB99-17145	4.0	1.0	4.0	3.0	2.5	4.8	3.8	2.0	1.0	3.9	3.2
DB99-17445	2.5	1.0	2.9	2.0	2.0	4.0	3.0	2.0	1.0	2.7	2.5
DB99-17531	2.3	1.0	1.0	2.0	1.5	4.5	3.3	2.0	1.0	3.2	2.3
K1632RR	2.3	1.0	1.0	1.0	2.5	1.8	2.8	2.0	1.0	3.4	2.0
K1633RR	1.0	1.0	2.5	1.0	2.5	2.0	3.3	2.0	1.0	2.5	2.0
K1634RR	1.0	1.0	1.5	1.0	2.5	2.3	3.0	2.0	1.0	2.3	1.8
K1635RR	2.0	1.0	1.0	1.0	2.5	2.5	3.5	2.0	2.0	2.5	2.0
K1636RR	2.8	1.0	1.5	1.0	3.5	2.5	3.3	2.0	1.0	2.8	2.3
LS00-6996	2.8	1.0	1.0	1.5	3.0	3.3	3.8	3.0	2.5	3.0	2.5
LS01-0971	1.5	1.0	1.5	1.0	2.5	1.5	3.5	3.0	1.0	2.0	1.9
LS01-3659	2.8	1.0	2.0	1.0	2.5	3.3	3.5	2.0	1.0	3.0	2.3
Md 01-5866	1.0	1.0	1.5	1.0	1.0	2.8	2.8	2.0	1.0	1.6	1.6
Md 01-709 RR	2.5	1.0	2.0	1.0	2.0	3.0	3.3	2.0	1.0	2.5	2.1
Md 01-751 RR	2.3	1.0	2.5	2.0	1.0	3.5	3.5	2.0	1.0	3.7	2.4
Md 01-777 RR	2.8	1.0	2.0	2.0	1.0	4.3	3.3	2.0	1.0	3.5	2.4
Md 01-848 RR	1.0	1.0	1.5	1.5	1.0	2.8	3.5	2.0	1.0	2.0	1.8
R00-1178F	2.0	1.0	2.0	1.0	2.5	2.3	3.3	2.0	1.5	2.8	2.1
R00-1194F	2.0	1.0	2.5	1.0	1.0	2.3	2.8	2.0	1.0	2.0	1.8
R01-1025	2.3	1.0	2.0	1.0	3.0	2.5	3.0	2.0	1.0	2.0	2.1
R01-1092	1.0	1.0	1.5	1.0	1.0	2.3	1.5	2.0	1.0	1.8	1.4
R01-769	1.3	1.0	1.0	1.0	1.0	2.5	1.8	2.0	1.0	2.3	1.5
S02-166RR	2.0	1.0	2.0	1.0	2.5	2.8	3.5	2.0	1.5	3.0	2.2
S02-182RR	2.3	1.0	2.0	1.0	2.0	2.8	3.5	2.0	1.0	3.1	2.2
S02-258RR	2.0	1.0	2.5	1.0	2.0	2.8	3.3	2.0	1.0	2.7	2.1
S02-3923RR	2.5	1.0	2.5	1.0	3.5	2.3	3.5	2.0	1.0	2.9	2.3
S02-683RR	2.5	1.0	2.0	1.0	2.5	3.0	3.3	2.0	1.0	3.3	2.3
TN01-032	1.0	1.0	2.0	3.0	1.0	3.0	1.8	2.0	1.0	2.5	1.9
TN02-05-RR	2.8	1.0	2.5	1.0	3.0	2.8	3.5	3.0	1.0	2.9	2.5
TN02-169	1.0	1.0	2.0	1.0	1.0	1.8	3.3	2.0	1.0	1.9	1.7
TN02-18-RR	3.0	1.0	2.0	1.0	3.0	3.0	4.0	3.0	1.0	2.9	2.5
TN02-226	1.0	1.0	1.0	1.0	1.0	2.8	2.5	2.0	1.0	2.7	1.7
TX 72821	1.3	1.0	2.0	2.0	1.0	3.3	3.0	2.0	1.5	2.4	2.0
TX 74053	1.0	1.0	1.5	1.0	1.0	2.5	2.5	2.0	1.0	1.7	1.6
V00-1366	1.0	1.0	2.0	1.0	1.0	1.3	1.8	2.0	1.0	1.5	1.4
V00-1380	1.0	1.0	3.0	1.0	1.0	2.0	1.8	2.0	1.0	1.2	1.6
V00-2275	1.8	1.0	2.5	1.0	1.5	1.8	2.8	2.0	1.0	1.9	1.8
V00-2300	2.5	1.0	2.0	1.0	2.0	2.5	2.8	2.0	1.0	2.2	2.0
V00-2315	2.3	1.0	2.0	1.0	3.0	2.5	3.3	2.0	1.5	2.8	2.2

\*Data not included in mean

**TABLE 26 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S LATE, 2004**

STRAIN/ VARIETY	JACKSON TN	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN*	WARSAW VA	MEAN
5002T	2.3	1.0	2.0	2.0	1.0	1.3	2.0	2.0	1.8	1.7
DK 4868 (RR)	3.5	1.5	2.0	2.0	2.0	1.3	4.0	2.5	2.5	2.3
DB99-17048	2.8	1.5	2.0	2.0	1.0	1.0	2.0	1.0	1.7	1.7
DB99-17145	2.5	2.0	2.0	2.0	2.0	1.0	2.0	2.0	1.9	1.9
DB99-17445	2.3	2.0	2.0	3.0	1.0	1.0	2.0	1.0	1.8	1.9
DB99-17531	3.3	2.0	2.0	3.5	2.0	1.0	2.0	2.0	1.8	2.2
K1632RR	2.8	2.5	2.0	2.0	2.0	1.0	3.0	2.5	3.0	2.3
K1633RR	3.0	2.0	2.0	2.0	2.0	1.3	2.0	3.0	2.5	2.1
K1634RR	3.3	1.0	2.0	2.0	2.0	1.3	2.0	3.0	2.7	2.0
K1635RR	3.0	1.5	3.0	2.0	1.0	1.0	3.0	2.5	2.8	2.2
K1636RR	3.0	1.5	2.0	2.0	1.0	1.0	3.0	2.0	2.3	2.0
LS00-6996	2.5	1.0	3.0	2.0	2.0	1.0	2.0	2.5	1.8	1.9
LS01-0971	2.5	1.5	2.0	2.0	1.0	1.0	2.0	2.5	1.9	1.7
LS01-3659	2.8	2.0	3.0	2.5	3.0	1.0	3.0	3.0	2.2	2.4
Md 01-5866	2.3	2.5	2.0	2.0	2.0	1.0	2.0	2.0	1.9	2.0
Md 01-709 RR	2.8	1.5	3.0	3.0	3.0	1.8	4.0	3.0	3.4	2.8
Md 01-751 RR	2.8	1.0	2.0	1.5	1.0	1.0	2.0	2.0	1.8	1.6
Md 01-777 RR	2.5	1.5	2.0	2.0	2.0	1.0	2.0	2.0	1.7	1.8
Md 01-848 RR	3.0	2.0	2.0	2.0	2.0	1.0	2.0	2.5	1.4	1.9
R00-1178F	2.5	2.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0	1.9
R00-1194F	3.3	2.0	2.0	2.0	2.0	1.0	2.0	2.0	2.1	2.0
R01-1025	2.8	1.0	3.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0
R01-1092	2.3	1.5	2.0	1.5	1.0	1.0	2.0	1.5	1.7	1.6
R01-769	2.3	2.5	2.0	2.5	1.0	1.0	2.0	1.5	1.9	1.9
S02-166RR	3.3	3.0	3.0	2.0	2.0	1.0	3.0	2.0	2.7	2.5
S02-182RR	2.5	2.5	2.0	1.5	1.0	1.0	2.0	2.0	2.4	1.9
S02-258RR	2.0	2.0	2.0	2.0	2.0	1.0	2.0	3.0	2.8	2.0
S02-3923RR	3.3	2.0	2.0	2.0	1.0	1.0	2.0	3.0	1.9	1.9
S02-683RR	3.0	1.5	3.0	2.0	2.0	1.0	2.0	2.0	2.5	2.1
TN01-032	3.8	1.5	2.0	2.0	2.0	1.0	2.0	2.5	2.1	2.0
TN02-05-RR	2.5	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.8	1.7
TN02-169	3.0	1.0	2.0	2.0	2.0	1.0	2.0	2.0	1.8	1.9
TN02-18-RR	3.3	1.5	3.0	2.0	2.0	1.0	3.0	2.0	2.0	2.2
TN02-226	2.5	1.5	2.0	2.5	2.0	1.0	2.0	2.5	2.0	1.9
TX 72821	2.3	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.2	1.6
TX 74053	2.5	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.9	1.7
V00-1366	2.3	1.5	2.0	1.5	1.0	1.0	2.0	2.0	1.8	1.6
V00-1380	3.0	1.0	2.0	1.5	1.0	1.0	3.0	1.5	1.5	1.8
V00-2275	2.5	1.0	3.0	2.0	1.0	1.0	2.0	2.0	2.1	1.8
V00-2300	2.3	2.0	2.0	1.5	1.0	1.0	2.0	2.0	2.2	1.7
V00-2315	3.0	2.5	2.0	2.0	1.0	1.5	2.0	2.5	2.8	2.1

\*Data not included in mean

## **UNIFORM GROUP V**

**2004**

**Uniform Group V nurseries were planted at 25 locations. Data were obtained from 23 of the locations. The parentage for each strain is reported in Table 27. Table 28 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 29 - 34.**

**TABLE 27 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2004**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. 5601T	Hutcheson x TN89-39	
2. 5002T	Holladay x Manokin	
3. AG 5501RR		
4. DT98-11850	A5979 x LA88-25723	F6
5. DT99-13005	UARK 5798 x HYP 574	F6
6. DT99-16864	NK S59-60 x Bolivar	F6
7. JTN-5303	R93-171 x Anand	
8. JTN-5503	Fowler x Manokin	
9. Md 00-6015	Md 92-5769 x N93-54	F5
10. Md 99-0687-3 RR	Wicomico x (Manokin x ResnikRR)	F5
11. Md 99-1411-1 RR	Md 92-5769 (2) x Resnik RR	F5
12. Md 99-6226	V91-2935 x Md 92-5769	F5
13. R00-1029	A5843 x Hartz 5545	
14. R00-1551	Hartz 4994 x ASG A5403	
15. R00-1940	Hartz 4994 x NK S59-60	
16. R97-1634	Pioneer P9592 x Holladay	
17. R98-1821	Hartz 5545 x KS4895	
18. S00-9970-09	S94-1867 x Anand	F5
19. S00-9985-03	HY 574 x Anand	F5
20. S02-611CR	DP 5960 x Anand	F5
21. TN04-616-RR	5601T[3] x TN93-99[3]-RR	
22. TN04-617-RR	5601T[3] x TN93-99[3]-RR	
23. V00-1988	V90-1012 x Clifford	
24. V98-2711	V88-466 x Pioneer P9461	

**TABLE 28 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN  
IN UNIFORM GROUP V, 2004**

STRAIN/ VARIETY	RANK	AVERAGE RANK	YIELD*			PROTEIN			OIL		
			2004	03-04	02-04	2004	03-04	02-04	2004	03-04	02-04
5601T	7	10	55.3	52.7	49.4	40.8	41.4	41.4	18.9	18.8	19.1
5002T	8	9	55.3	52.2	.	40.3	40.6	.	19.7	19.5	.
AG 5501RR	19	15	51.4	.	.	40.8	.	.	19.6	.	.
DT98-11850	20	16	51.1	.	.	38.8	.	.	19.7	.	.
DT99-13005	18	15	51.6	48.4	.	39.1	39.6	.	19.4	19.0	.
DT99-16864	14	12	53.5	49.6	.	40.5	41.1	.	18.8	18.5	.
JTN-5303	5	10	55.6	.	.	39.7	.	.	20.0	.	.
JTN-5503	13	13	53.7	.	.	39.0	.	.	19.0	.	.
Md 00-6015	9	11	54.7	.	.	37.6	.	.	19.8	.	.
Md 99-0687-3RR	22	17	50.0	48.0	.	40.6	40.9	.	19.3	19.1	.
Md 99-1411-1 RR	23	19	49.9	.	.	38.3	.	.	19.5	.	.
Md 99-6226	3	8	56.5	54.1	.	38.5	39.3	.	19.7	19.5	.
R00-1029	24	18	49.9	.	.	40.4	.	.	19.6	.	.
R00-1551	10	11	54.3	.	.	39.0	.	.	19.7	.	.
R00-1940	11	11	54.2	.	.	39.6	.	.	19.6	.	.
R97-1634	21	16	50.8	50.8	48.4	40.9	40.7	40.8	19.1	19.2	19.4
R98-1821	2	8	56.6	53.4	.	41.4	42.4	.	19.0	18.7	.
S00-9970-09	1	8	56.9	.	.	40.3	.	.	19.0	.	.
S00-9985-03	12	13	54.1	51.7	.	38.2	38.6	.	19.9	19.6	.
S02-611CR	16	14	53.0	.	.	38.5	.	.	19.8	.	.
TN04-616-RR	15	12	53.5	.	.	39.9	.	.	19.5	.	.
TN04-617-RR	17	15	52.3	.	.	40.6	.	.	18.9	.	.
V00-1988	6	10	55.6	.	.	39.9	.	.	19.9	.	.
V98-2711	4	10	55.8	52.0	.	39.8	40.2	.	19.0	19.0	.

\*Data not included in mean: 2004 - Prosper, TX; Starkville, MS

2003 - Bossier City, LA; Prosper, TX; Rohwer, AR; Starkville, MS

2002 - Orange, VA; Prosper, TX



TABLE 28 ~Continued

## BOTANICAL TRAITS

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL COLOR	PUB. COLOR	POD COLOR
5601T	10/05	1.9	32	1.7	13.8			
5002T	4-	1.9	27	2.0	15.3			
AG 5501RR	2-	1.8	33	2.0	13.5			
DT98-11850	2-	2.1	31	1.7	13.0	P	T	T
DT99-13005	2-	2.2	32	1.8	15.8	S	T	T
DT99-16864	3+	2.4	32	1.9	14.3	P	G	T
JTN-5303	2-	2.0	29	2.2	15.2		T	
JTN-5503	1+	2.3	30	2.0	14.7	W	T	
Md 00-6015	5-	1.5	24	2.0	14.7			
Md 99-0687-3 RR	5-	1.7	30	2.0	14.6			
Md 99-1411-1 RR	3-	1.5	28	1.6	11.6			
Md 99-6226	3-	1.7	27	1.9	15.3			
R00-1029	0	1.7	32	1.9	14.3			
R00-1551	1-	1.7	34	1.9	13.7			
R00-1940	3-	2.3	32	2.0	13.3			
R97-1634	2+	2.2	32	1.8	15.9			
R98-1821	1-	1.6	29	1.8	12.7			
S00-9970-09	1-	1.8	32	2.2	14.9	P		
S00-9985-03	2-	2.6	34	1.9	15.2	P		
S02-611CR	2-	2.5	34	2.0	13.7	P		
TN04-616-RR	1+	2.1	36	1.8	13.3			
TN04-617-RR	1+	2.0	35	1.8	13.4			
V00-1988	1-	1.5	31	1.7	14.9			
V98-2711	2-	1.8	27	1.9	13.3			

TABLE 28 ~ Continued

STRAIN/ VARIETY	PEST REACTIONS						SDS	SDS
	SCN 2	SCN 3	M. A. GA	M. I. GA	SMV	VDX	CDX	
5601T	5.0	5.0	5.0	3.8	R	28	8	
5002T	5.0	5.0	3.0	5.0	S	10	4	
AG 5501RR	5.0	3.0	5.0	5.0	R	18	2	
DT98-11850	5.0	4.0	4.8	1.0	R	9	4	
DT99-13005	5.0	5.0	5.0	1.8	R	22	7	
DT99-16864	5.0	3.0	4.8	5.0	R	11	2	
JTN-5303	3.0	5.0	5.0	5.0	S	11	1	
JTN-5503	1.0	1.0	3.8	4.0	S	4	4	
Md 00-6015	5.0	5.0	5.0	5.0	R	26	13	
Md 99-0687-3 RR	5.0	4.0	5.0	4.8	S	12	3	
Md 99-1411-1 RR	5.0	5.0	5.0	5.0	R	33	12	
Md 99-6226	5.0	5.0	5.0	4.8	R	27	16	
R00-1029	5.0	5.0	3.8	5.0	S	19	11	
R00-1551	5.0	5.0	4.3	5.0	S	28	20	
R00-1940	5.0	3.0	4.3	5.0	S	35	7	
R97-1634	5.0	5.0	5.0	4.5	S	13	5	
R98-1821	5.0	5.0	4.8	5.0	S	12	15	
S00-9970-09	4.0	5.0	2.5	3.0	S	3	1	
S00-9985-03	5.0	5.0	4.8	2.3	R	7	1	
S02-611CR	2.0	5.0	4.8	5.0	R	1	0	
TN04-616-RR	5.0	5.0	5.0	3.0	R	21	18	
TN04-617-RR	5.0	5.0	5.0	2.3	R	27	18	
V00-1988	5.0	5.0	5.0	5.0	R	17	16	
V98-2711	5.0	5.0	4.0	4.8	S	19	22	

**TABLE 29 ~ SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2004**

STRAIN/ VARIETY	EAST			MEAN
	GEORGETOWN DE	QUEENSTOWN MD	WARSAW VA	
5601T	66.3	58.7	66.4	63.8
5002T	61.9	50.1	66.6	59.5
AG 5501RR	65.8	47.8	62.9	58.8
DT98-11850	56.8	50.8	58.8	55.5
DT99-13005	53.8	42.7	57.3	51.3
DT99-16864	60.9	54.7	64.3	60.0
JTN-5303	70.4	51.5	69.1	63.7
JTN-5503	63.4	47.2	69.6	60.1
Md 00-6015	59.7	53.0	61.2	58.0
Md 99-0687-3RR	61.4	49.0	57.9	56.1
Md 99-1411-1 RR	61.4	42.1	60.2	54.6
Md 99-6226	64.0	52.7	66.3	61.0
R00-1029	61.4	46.0	59.9	55.8
R00-1551	67.2	50.7	63.5	60.4
R00-1940	61.4	53.6	61.5	58.8
R97-1634	65.6	41.4	64.3	57.1
R98-1821	71.4	45.8	64.7	60.6
S00-9970-09	65.4	51.2	66.1	60.9
S00-9985-03	64.7	47.7	60.0	57.5
S02-611CR	62.4	45.6	56.6	54.9
TN04-616-RR	61.6	53.5	65.6	60.2
TN04-617-RR	63.8	43.2	64.3	57.1
V00-1988	65.0	50.5	69.9	61.8
V98-2711	67.9	53.9	68.3	63.3
L. S. D. (0.05)	4.8	10.0	3.7	.
C. V. (%)	4.6	12.3	3.6	.

TABLE 29 ~ Continued

## SOUTH

STRAIN/ VARIETY	ALEXANDRIA LA	BELLE MINA AL	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD TN	STARKVILLE* MS	SUFFOLK VA	ULLIN IL	MEAN
5601T	42.4	41.7	57.9	75.9	68.4	63.5	26.8	58.4	58.1	58.3
5002T	40.1	47.8	59.8	67.7	68.2	66.4	25.2	64.3	55.7	58.7
AG 5501RR	45.7	42.0	51.0	72.3	58.6	58.6	23.2	48.1	46.0	52.8
DT98-11850	31.0	39.9	47.7	57.5	59.9	60.5	19.2	57.0	48.4	50.3
DT99-13005	44.4	41.7	51.6	59.1	58.3	59.3	15.4	64.4	48.4	53.4
DT99-16864	46.5	41.4	55.6	62.2	65.3	62.3	32.6	66.6	46.0	55.7
JTN-5303	36.1	50.8	72.5	66.8	59.5	62.7	17.4	77.9	58.1	60.6
JTN-5503	37.4	50.2	66.1	63.6	58.7	62.2	19.5	66.4	53.2	57.2
Md 00-6015	39.9	46.9	57.6	65.3	67.5	70.2	16.9	65.2	50.8	57.9
Md 99-0687-3RR	39.1	41.1	46.0	65.9	60.4	64.7	16.7	60.5	43.6	52.7
Md 99-1411-1 RR	37.2	38.7	53.2	59.5	57.9	66.3	14.7	59.4	46.0	52.3
Md 99-6226	34.4	45.4	54.6	73.8	66.5	70.2	20.2	67.9	60.5	59.2
R00-1029	40.9	34.5	42.8	65.1	55.2	58.1	29.9	57.8	46.0	50.0
R00-1551	48.8	41.7	46.2	75.0	61.1	71.2	15.1	57.7	55.7	57.2
R00-1940	46.6	49.0	43.8	66.6	58.6	63.0	27.7	66.4	53.2	55.9
R97-1634	37.3	39.0	51.6	61.6	58.2	62.5	23.0	61.7	46.0	52.2
R98-1821	47.7	41.1	49.4	65.8	58.6	72.6	23.7	71.2	48.4	56.8
S00-9970-09	49.4	54.8	77.5	67.3	60.0	67.1	32.8	64.2	53.2	61.7
S00-9985-03	45.4	47.2	73.3	59.1	63.1	61.5	28.0	59.8	48.4	57.2
S02-611CR	42.7	48.7	70.1	67.4	53.5	66.3	28.3	57.2	50.8	57.1
TN04-616-RR	47.8	34.2	47.8	75.9	58.7	63.7	20.8	66.3	50.8	55.6
TN04-617-RR	50.3	45.7	44.0	77.7	65.6	55.5	23.1	54.1	50.8	55.5
V00-1988	40.3	43.3	46.7	86.1	64.1	75.6	24.7	62.7	50.8	58.7
V98-2711	38.2	36.9	69.2	71.7	67.9	69.8	16.1	61.6	46.0	57.6
L. S. D. (0.05)	9.6	6.3	13.5	8.3	6.1	11.4	9.2	8.0	6.6	.
C. V. (%)	13.9	8.8	13.7	7.5	6.0	10.8	24.9	7.8	8.0	.

\*Data not included in mean

TABLE 29 ~ Continued

STRAIN/ VARIETY	DELTA				MEAN
	PINE TREE AR	PORTAGEVILLE MO	ROHWER AR	STONEVILLE MS	
5601T	58.0	52.6	61.3	58.6	57.6
5002T	52.6	51.7	62.0	68.3	58.7
AG 5501RR	59.9	50.8	60.6	57.8	57.3
DT98-11850	61.5	49.1	68.8	64.5	61.0
DT99-13005	54.0	47.2	69.1	64.1	58.6
DT99-16864	55.8	49.3	62.4	58.6	56.5
JTN-5303	51.0	58.0	59.4	51.8	55.1
JTN-5503	58.1	50.0	60.3	48.5	54.2
Md 00-6015	59.1	47.6	63.4	56.1	56.5
Md 99-0687-3RR	60.1	43.1	46.7	50.9	50.2
Md 99-1411-1 RR	59.1	43.2	59.5	54.2	54.0
Md 99-6226	56.9	50.2	65.3	61.8	58.6
R00-1029	54.9	46.5	61.8	61.5	56.2
R00-1551	53.5	48.5	60.3	63.5	56.5
R00-1940	65.9	47.4	66.9	59.3	59.9
R97-1634	45.6	49.5	62.4	58.2	53.9
R98-1821	68.1	51.7	67.1	66.4	63.3
S00-9970-09	67.6	53.7	67.1	54.6	60.8
S00-9985-03	76.5	51.3	64.8	54.7	61.8
S02-611CR	70.3	52.8	63.6	47.9	58.7
TN04-616-RR	66.7	49.1	62.0	54.0	58.0
TN04-617-RR	68.9	45.0	60.4	55.0	57.3
V00-1988	69.4	47.6	62.5	61.9	60.4
V98-2711	63.9	47.8	66.2	58.8	59.2
L. S. D. (0.05)	16.2	5.2	6.9	7.1	.
C. V. (%)	12.9	6.4	6.7	7.5	.

TABLE 29 ~ Continued

STRAIN/ VARIETY	WEST				MEAN
	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	PROSPER* TX	
5601T	31.5	26.7	48.8	27	35.7
5002T	29.2	33.0	49.1	23	37.1
AG 5501RR	24.9	29.8	41.8	23	32.2
DT98-11850	35.2	29.2	42.9	30	35.8
DT99-13005	39.2	31.4	43.1	23	37.9
DT99-16864	34.8	31.4	45.9	30	37.4
JTN-5303	24.0	34.0	47.9	22	35.3
JTN-5503	36.1	32.0	43.1	31	37.1
Md 00-6015	35.2	36.6	49.6	22	40.5
Md 99-0687-3RR	31.9	35.4	42.6	25	36.6
Md 99-1411-1 RR	29.4	29.3	41.9	24	33.5
Md 99-6226	38.3	32.2	55.2	30	41.9
R00-1029	30.4	30.6	43.9	26	35.0
R00-1551	37.0	31.1	44.8	34	37.6
R00-1940	34.4	33.5	45.0	36	37.6
R97-1634	36.8	32.6	39.8	22	36.4
R98-1821	39.8	37.8	50.5	28	42.7
S00-9970-09	29.7	33.3	42.8	23	35.3
S00-9985-03	26.0	26.7	44.0	22	32.2
S02-611CR	25.6	29.2	42.6	38	32.5
TN04-616-RR	35.5	25.6	43.6	16	34.9
TN04-617-RR	28.6	25.0	43.1	20	32.2
V00-1988	29.1	31.2	43.3	30	34.5
V98-2711	34.9	32.1	49.1	35	38.7
L. S. D. (0.05)	8.4	4.2	4.3	.	.
C. V. (%)	15.7	8.3	5.8	.	.

\*Data not included in mean

**TABLE 30 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2004****OIL PERCENTAGES**

STRAIN/ VARIETY	KNOXVILLE TN	ORANGE VA	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	STONEVILLE MS	SUFFOLK VA	ULLIN IL	WARSAW VA	MEAN
5601T	19.0	18.4	.	20.0	19.1	19.3	19.8	18.1	.	.	19.1	18.5	18.9
5002T	18.4	19.2	.	21.0	20.8	19.2	21.9	18.3	.	.	20.5	20.5	19.7
AG 5501RR	19.5	19.3	.	19.9	20.5	19.2	20.6	18.4	.	.	20.5	19.5	19.6
DT98-11850	20.0	19.3	.	21.6	19.9	19.5	20.4	18.0	.	.	19.8	19.2	19.7
DT99-13005	19.5	19.8	.	20.3	20.2	19.0	21.0	17.9	.	.	19.8	18.6	19.4
DT99-16864	19.1	18.3	.	18.9	19.7	17.8	19.7	17.3	.	.	18.7	20.2	18.8
JTN-5303	20.4	19.9	.	21.2	21.3	19.8	21.4	18.5	.	.	20.4	18.8	20.0
JTN-5503	19.2	18.7	.	21.3	19.4	18.3	18.7	16.8	.	.	19.5	18.5	19.0
Md 00-6015	20.1	19.4	.	20.7	20.4	19.5	21.2	18.8	.	.	19.4	20.3	19.8
Md 99-0687-3RR	19.9	18.8	.	20.6	19.9	19.3	18.7	17.5	.	.	19.5	18.8	19.3
Md 99-1411-1 RR	20.6	19.7	.	20.7	19.7	18.9	20.7	17.3	.	.	20.0	19.1	19.5
Md 99-6226	20.2	19.5	.	20.6	20.1	20.5	19.7	18.0	.	.	19.9	19.1	19.7
R00-1029	20.2	19.5	.	20.6	20.7	19.3	20.0	17.7	.	.	20.5	18.3	19.6
R00-1551	20.6	19.2	.	20.4	20.6	19.4	20.7	17.9	.	.	20.2	19.1	19.7
R00-1940	20.0	19.3	.	20.1	20.1	18.6	19.5	18.6	.	.	20.9	19.5	19.6
R97-1634	20.1	19.0	.	19.2	19.5	18.9	19.0	17.8	.	.	19.0	19.5	19.1
R98-1821	20.1	19.3	.	20.4	18.4	18.8	20.4	17.0	.	.	19.1	18.5	19.0
S00-9970-09	20.8	18.7	.	19.4	19.4	19.1	19.9	16.8	.	.	19.2	18.6	19.0
S00-9985-03	20.0	20.7	.	20.1	20.6	19.9	20.6	18.1	.	.	21.2	18.3	19.9
S02-611CR	20.6	19.6	.	20.1	20.2	19.6	21.3	18.1	.	.	20.3	20.2	19.8
TN04-616-RR	20.2	19.3	.	20.5	19.6	19.5	19.3	17.9	.	.	20.2	18.7	19.5
TN04-617-RR	19.4	18.2	.	19.6	19.3	19.1	19.7	17.5	.	.	19.9	18.2	18.9
V00-1988	19.2	19.8	.	20.8	20.5	19.2	19.7	18.5	.	.	20.9	20.1	19.9
V98-2711	19.9	18.6	.	19.3	20.4	18.9	20.1	17.4	.	.	18.8	18.5	19.0

\*Data not included in mean

TABLE 30 ~ Continued

STRAIN/ VARIETY	PROTEIN PERCENTAGES												
	KNOXVILLE TN	ORANGE VA	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	STONEVILLE MS	SUFFOLK VA	ULLIN IL	WARSAW VA	MEAN
5601T	40.2	40.6	.	39.5	42.3	39.3	41.5	41.2	.	.	40.6	42.4	40.8
5002T	39.7	40.5	.	37.4	40.2	39.3	40.7	42.3	.	.	40.2	42.9	40.3
AG 5501RR	38.0	40.1	.	40.4	42.1	41.2	41.6	42.3	.	.	40.2	42.3	40.8
DT98-11850	35.4	38.8	.	37.0	39.2	38.1	40.2	40.6	.	.	40.6	40.3	38.8
DT99-13005	37.9	38.2	.	38.2	39.2	38.2	39.9	41.8	.	.	38.3	40.7	39.1
DT99-16864	38.3	40.7	.	39.5	40.7	40.7	41.6	41.3	.	.	41.7	40.9	40.5
JTN-5303	39.2	38.6	.	38.9	40.1	39.6	41.2	41.2	.	.	39.6	40.7	39.7
JTN-5503	38.4	38.8	.	34.6	40.1	39.7	40.2	41.2	.	.	38.9	40.2	39.0
Md 00-6015	35.0	37.7	.	37.2	37.8	36.6	37.4	39.5	.	.	38.7	38.0	37.6
Md 99-0687-3RR	38.6	39.8	.	39.4	40.9	39.5	42.5	43.4	.	.	41.3	42.0	40.6
Md 99-1411-1 RR	34.9	37.4	.	37.6	39.2	38.4	38.8	41.3	.	.	37.6	39.9	38.3
Md 99-6226	36.1	38.8	.	38.1	38.6	37.0	39.5	40.1	.	.	38.8	40.3	38.5
R00-1029	38.3	39.9	.	40.0	40.7	40.8	43.0	42.4	.	.	40.4	41.0	40.4
R00-1551	35.9	38.2	.	37.8	39.2	38.9	41.1	41.2	.	.	39.5	41.0	39.0
R00-1940	37.7	39.2	.	39.0	41.9	40.3	44.1	41.4	.	.	39.1	37.9	39.6
R97-1634	38.2	40.9	.	40.6	41.3	39.9	40.0	42.3	.	.	42.0	41.6	40.9
R98-1821	37.3	40.6	.	39.2	42.3	41.5	42.0	43.9	.	.	42.7	43.4	41.4
S00-9970-09	36.9	39.6	.	39.9	41.0	40.2	42.4	42.1	.	.	41.9	41.0	40.3
S00-9985-03	36.7	34.9	.	38.3	38.7	38.1	41.3	40.6	.	.	38.1	40.1	38.2
S02-611CR	35.2	37.3	.	38.7	39.7	38.2	39.0	40.7	.	.	38.6	39.7	38.5
TN04-616-RR	36.7	39.4	.	38.6	41.8	39.4	41.6	41.1	.	.	40.4	41.7	39.9
TN04-617-RR	37.8	40.4	.	39.5	41.1	40.4	40.5	42.0	.	.	40.9	43.0	40.6
V00-1988	37.8	39.2	.	39.7	41.1	40.7	41.9	40.2	.	.	39.7	40.6	39.9
V98-2711	37.0	38.8	.	39.6	39.3	39.7	41.0	41.5	.	.	40.6	41.7	39.8

\*Data not included in mean



TABLE 30 ~ Continued

## GRAMS PER 100 SEED

STRAIN/ VARIETY	KNOXVILLE TN	ORANGE VA	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	PROSPER* TX	QUEENSTOWN MD	STONEVILLE MS	SUFFOLK VA	ULLIN IL	WARSAW VA	MEAN
5601T	13.0	14.4	13.4	12.9	12.8	14.5	.	14.4	13.2	14.2	14.4	14.6	13.8
5002T	17.0	16.7	17.8	12.6	13.3	15.0	.	15.3	14.2	16.0	14.9	15.8	15.3
AG 5501RR	11.0	15.6	13.5	13.7	12.3	14.0	.	14.5	12.2	13.7	13.4	14.9	13.5
DT98-11850	11.0	15.4	12.0	13.5	11.7	13.8	.	13.7	11.5	13.5	13.1	13.3	13.0
DT99-13005	16.0	17.3	13.8	16.0	14.4	15.4	.	16.7	15.9	17.0	15.9	15.1	15.8
DT99-16864	14.0	16.2	13.7	13.9	13.5	14.3	.	15.0	12.1	15.4	14.0	14.9	14.3
JTN-5303	17.0	15.7	13.3	14.8	13.5	14.9	.	15.4	14.2	16.7	15.7	15.6	15.2
JTN-5503	16.0	15.4	14.3	13.7	13.8	15.3	.	13.4	14.0	15.5	14.5	15.6	14.7
Md 00-6015	16.0	15.7	15.6	16.0	12.5	15.8	.	13.4	12.6	15.1	14.7	13.9	14.7
Md 99-0687-3RR	15.0	15.2	16.2	14.6	13.1	15.1	.	13.8	14.2	14.6	13.7	14.6	14.6
Md 99-1411-1 RR	11.0	12.3	12.2	11.0	11.0	12.0	.	10.9	11.8	12.2	11.7	11.5	11.6
Md 99-6226	16.0	15.8	16.4	15.8	13.1	16.1	.	14.5	14.9	15.4	15.0	15.5	15.3
R00-1029	13.0	17.3	12.9	14.6	13.1	13.7	.	15.4	13.8	14.6	13.7	14.9	14.3
R00-1551	13.0	15.2	13.0	11.8	12.8	14.4	.	14.1	13.4	14.2	14.5	14.0	13.7
R00-1940	12.0	14.3	12.8	13.1	12.7	13.3	.	14.2	11.6	14.5	14.2	14.0	13.3
R97-1634	18.0	19.1	13.7	15.5	15.0	15.0	.	16.4	14.2	17.0	14.7	16.7	15.9
R98-1821	12.0	14.8	12.9	12.6	11.4	13.0	.	11.9	11.9	14.3	11.9	12.9	12.7
S00-9970-09	17.0	16.3	14.7	14.6	13.5	15.1	.	15.7	11.9	15.6	13.9	15.3	14.9
S00-9985-03	17.0	16.4	14.3	15.1	14.2	14.9	.	16.1	13.0	16.1	14.8	14.8	15.2
S02-611CR	16.0	15.0	12.8	11.9	13.4	14.7	.	14.6	11.8	14.1	13.1	13.8	13.7
TN04-616-RR	12.0	14.2	14.7	13.1	11.5	13.3	.	14.5	12.5	13.3	13.0	14.6	13.3
TN04-617-RR	10.0	15.2	15.6	12.9	11.2	14.0	.	13.7	13.4	13.8	13.4	14.1	13.4
VOO-1988	15.0	16.6	13.4	17.0	13.0	14.7	.	13.7	14.0	16.7	15.0	14.9	14.9
V98-2711	14.0	13.5	11.0	13.4	13.2	13.8	.	12.1	14.2	13.6	13.3	14.1	13.3

\*Data not included in mean

**TABLE 31 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN 5601T,  
FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2004**

**EAST**

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MD	VA	
5601T	10/19	10/19	10/10	10/16
5002T	-9	-7	-2	-6
AG 5501RR	-2	-5	2	-2
DT98-11850	-9	-1	0	-3
DT99-13005	-5	-6	-2	-5
DT99-16864	2	6	5	5
JTN-5303	-4	-6	0	-3
JTN-5503	2	-3	3	1
Md 00-6015	-14	-10	-8	-11
Md 99-0687-3RR	-9	-8	-6	-8
Md 99-1411-1 RR	-4	-3	-1	-3
Md 99-6226	-6	-9	-3	-6
R00-1029	1	0	1	1
R00-1551	1	5	0	2
R00-1940	-6	-5	-1	-4
R97-1634	-12	7	6	0
R98-1821	2	-5	1	-1
S00-9970-09	-6	-2	0	-3
S00-9985-03	-2	-4	-1	-2
S02-611CR	-6	-4	0	-3
TN04-616-RR	-12	6	6	0
TN04-617-RR	3	2	6	4
V00-1988	1	0	1	0
V98-2711	-8	-6	-3	-5

TABLE 31 ~ Continued

## SOUTH

STRAIN/ VARIETY	ALEXANDRIA	BELLE MINA	KNOXVILLE	ORANGE	PRINCETON	SPRINGFIELD	STARKVILLE*	SUFFOLK	ULLIN	MEAN
	LA	AL	TN	VA	KY	TN	MS	VA	IL	
5601T	09/17	09/26	09/24	10/19	.	10/17	.	10/21	09/29	10/05
5002T	0	-6	-3	1	.	0	.	-2	-2	-2
AG 5501RR	0	-2	-1	1	.	0	.	-2	0	-1
DT98-11850	0	-1	-2	0	.	-3	.	0	1	-1
DT99-13005	0	-2	-2	0	.	0	.	-2	0	-1
DT99-16864	14	1	6	1	.	2	.	4	3	4
JTN-5303	0	0	1	0	.	4	.	-2	-2	0
JTN-5503	14	1	2	0	.	3	.	0	-1	2
Md 00-6015	14	-9	-8	-1	.	-1	.	-2	-5	-2
Md 99-0687-3RR	0	-6	-4	-1	.	-8	.	-2	-4	-4
Md 99-1411-1 RR	0	-5	-2	0	.	-1	.	-2	-1	-2
Md 99-6226	0	-4	-6	1	.	3	.	-2	-2	-2
R00-1029	0	1	-2	2	.	-1	.	2	4	0
R00-1551	0	0	-3	2	.	-1	.	-2	3	0
R00-1940	0	-2	-3	0	.	-5	.	-2	1	-2
R97-1634	14	2	5	2	.	4	.	7	2	5
R98-1821	0	1	-2	2	.	-2	.	2	2	0
S00-9970-09	7	0	8	0	.	-1	.	-2	0	1
S00-9985-03	0	-2	6	0	.	-4	.	-2	0	-1
S02-611CR	0	0	9	1	.	-7	.	-2	-1	0
TN04-616-RR	7	2	-3	1	.	3	.	4	2	2
TN04-617-RR	0	1	1	1	.	3	.	4	3	2
V00-1988	0	1	0	0	.	-5	.	4	1	0
V98-2711	14	-3	1	0	.	3	.	-2	-1	1

\*Data not included in mean

TABLE 31 ~ Continued

STRAIN/ VARIETY	DELTA				
	PINE TREE AR	PORTAGEVILLE MO(A)	ROHWER AR	STONEVILLE MS	MEAN
5601T	10/06	10/02	09/25	09/12	09/26
5002T	-7	-3	-3	-2	-3
AG 5501RR	-1	-1	0	1	0
DT98-11850	-1	0	1	2	1
DT99-13005	-1	0	0	2	0
DT99-16864	0	6	3	2	3
JTN-5303	1	0	-1	0	0
JTN-5503	0	1	0	0	0
Md 00-6015	-2	-4	-2	-6	-3
Md 99-0687-3RR	-4	-4	-3	-1	-3
Md 99-1411-1 RR	-4	-4	1	1	-1
Md 99-6226	-2	-4	-1	-1	-2
R00-1029	-1	-1	1	3	1
R00-1551	-2	-3	0	1	-1
R00-1940	-3	-3	-1	-1	-2
R97-1634	1	5	2	2	3
R98-1821	-4	0	0	-2	-1
S00-9970-09	0	-1	-1	-1	0
S00-9985-03	-4	0	-1	-4	-2
S02-611CR	1	0	-2	-3	-1
TN04-616-RR	0	3	3	4	3
TN04-617-RR	-2	1	3	4	2
V00-1988	1	-1	2	1	1
V98-2711	-2	-2	-1	-1	-1

TABLE 31 ~ Continued

STRAIN/ VARIETY	WEST				MEAN
	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	PROSPER* TX	
5601T	10/03	.	.	10/05	10/03
5002T	-3	.	.	-10	-3
AG 5501RR	-7	.	.	1	-7
DT98-11850	-5	.	.	-6	-5
DT99-13005	0	.	.	-7	0
DT99-16864	-10	.	.	0	-10
JTN-5303	-13	.	.	-15	-13
JTN-5503	-1	.	.	-6	-1
Md 00-6015	-17	.	.	-29	-17
Md 99-0687-3RR	-13	.	.	-11	-13
Md 99-1411-1 RR	-9	.	.	-12	-9
Md 99-6226	-7	.	.	-17	-7
R00-1029	-5	.	.	-10	-5
R00-1551	-11	.	.	-7	-11
R00-1940	-9	.	.	-7	-9
R97-1634	-11	.	.	5	-11
R98-1821	-11	.	.	-7	-11
S00-9970-09	-8	.	.	-10	-8
S00-9985-03	-11	.	.	-2	-11
S02-611CR	-10	.	.	-7	-10
TN04-616-RR	1	.	.	3	1
TN04-617-RR	-3	.	.	2	-3
V00-1988	-10	.	.	-12	-10
V98-2711	-9	.	.	-9	-9

\*Data not included in mean

**TABLE 32 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V,  
2004**

STRAIN/ VARIETY	EAST			MEAN
	GEORGETOWN DE	QUEENSTOWN MD	WARSAW VA	
5601T	39	33	33	35
5002T	34	29	29	31
AG 5501RR	40	33	34	35
DT98-11850	37	30	30	32
DT99-13005	38	34	30	34
DT99-16864	36	30	32	33
JTN-5303	33	30	30	31
JTN-5503	36	34	32	34
Md 00-6015	29	25	26	27
Md 99-0687-3RR	38	33	31	34
Md 99-1411-1 RR	34	27	29	30
Md 99-6226	33	27	29	30
R00-1029	38	33	33	35
R00-1551	37	34	34	35
R00-1940	36	31	32	33
R97-1634	35	33	34	34
R98-1821	35	24	26	28
S00-9970-09	38	34	33	35
S00-9985-03	43	35	34	37
S02-611CR	40	36	34	37
TN04-616-RR	41	39	37	39
TN04-617-RR	38	37	37	37
V00-1988	34	27	31	31
V98-2711	31	28	29	30

TABLE 32 ~ Continued

STRAIN/ VARIETY	SOUTH								
	ALEXANDRIA LA	BELLE MINA AL	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD TN	SUFFOLK VA	ULLIN IL	MEAN
5601T	19	27	31	40	42	38	27	33	32
5002T	15	21	26	31	33	31	22	30	26
AG 5501RR	21	29	36	41	42	42	29	31	34
DT98-11850	18	24	31	38	38	36	27	29	30
DT99-13005	16	28	31	37	40	37	33	33	32
DT99-16864	20	27	31	39	42	37	30	34	32
JTN-5303	17	25	32	37	40	34	29	26	30
JTN-5503	21	23	27	39	40	33	31	29	30
Md 00-6015	18	20	27	27	33	29	22	22	25
Md 99-0687-3RR	19	25	31	35	40	36	27	31	31
Md 99-1411-1 RR	18	24	29	32	37	33	21	26	28
Md 99-6226	17	24	32	34	36	31	25	29	29
R00-1029	17	29	32	40	42	36	36	30	33
R00-1551	18	28	33	44	46	37	32	33	34
R00-1940	19	26	33	41	42	36	27	32	32
R97-1634	18	26	34	41	40	35	31	31	32
R98-1821	16	26	29	33	38	36	30	29	30
S00-9970-09	23	27	34	38	39	41	29	34	33
S00-9985-03	24	26	31	40	38	44	32	38	34
S02-611CR	22	24	29	43	40	42	30	35	33
TN04-616-RR	23	29	35	43	45	44	34	35	36
TN04-617-RR	23	31	35	43	47	40	36	32	36
V00-1988	17	30	31	37	40	40	29	31	32
V98-2711	16	24	29	36	35	32	21	25	27

TABLE 32 ~ Continued

STRAIN/ VARIETY	DELTA				MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	ROHWER AR	STONEVILLE MS	
5601T	37	26	29	30	30
5002T	35	20	22	22	25
AG 5501RR	33	30	32	30	31
DT98-11850	34	27	29	28	30
DT99-13005	36	34	29	28	32
DT99-16864	36	35	24	26	30
JTN-5303	31	26	26	24	27
JTN-5503	35	24	26	24	27
Md 00-6015	33	18	21	20	23
Md 99-0687-3RR	32	21	26	22	25
Md 99-1411-1 RR	34	22	26	28	27
Md 99-6226	26	22	23	22	23
R00-1029	33	33	28	32	31
R00-1551	32	35	31	32	32
R00-1940	36	26	29	26	29
R97-1634	32	27	30	28	29
R98-1821	36	20	26	24	27
S00-9970-09	31	32	29	26	30
S00-9985-03	35	32	33	30	33
S02-611CR	39	28	31	34	33
TN04-616-RR	37	31	33	32	33
TN04-617-RR	34	32	31	28	31
V00-1988	34	27	29	22	28
V98-2711	31	22	25	20	25



TABLE 32 ~ Continued

STRAIN/ VARIETY	WEST				MEAN
	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	PROSPER* TX	
5601T	20	30	49	17	33
5002T	18	27	39	17	28
AG 5501RR	22	29	46	19	32
DT98-11850	26	30	45	21	33
DT99-13005	22	26	44	18	31
DT99-16864	25	31	47	22	34
JTN-5303	19	26	41	17	29
JTN-5503	23	27	44	18	31
Md 00-6015	14	22	35	14	23
Md 99-0687-3RR	19	29	44	17	31
Md 99-1411-1 RR	17	25	39	15	27
Md 99-6226	19	25	38	16	27
R00-1029	24	26	43	19	31
R00-1551	25	31	47	20	34
R00-1940	21	31	44	21	32
R97-1634	22	30	46	18	32
R98-1821	24	27	42	18	31
S00-9970-09	20	31	44	18	31
S00-9985-03	27	32	43	19	34
S02-611CR	24	33	49	23	36
TN04-616-RR	24	33	50	20	36
TN04-617-RR	24	31	50	19	35
V00-1988	20	27	45	17	31
V98-2711	16	26	38	17	27

\*Data not included in mean

**TABLE 33 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V,  
2004**

STRAIN/ VARIETY	EAST			MEAN
	GEORGETOWN DE	QUEENSTOWN MD	WARSAW VA	
5601T	1.5	3.3	2.5	2.4
5002T	1.3	3.5	2.5	2.4
AG 5501RR	1.2	3.2	2.1	2.1
DT98-11850	2.0	3.3	2.3	2.5
DT99-13005	2.0	3.3	2.8	2.7
DT99-16864	1.8	3.3	3.4	2.9
JTN-5303	1.8	3.5	3.1	2.8
JTN-5503	2.2	3.7	3.2	3.0
Md 00-6015	1.0	2.0	1.5	1.5
Md 99-0687-3RR	1.5	3.2	1.9	2.2
Md 99-1411-1 RR	0.3	2.3	1.8	1.5
Md 99-6226	1.5	3.2	2.2	2.3
R00-1029	.	3.2	2.3	1.8
R00-1551	0.8	3.2	2.2	2.1
R00-1940	0.8	3.5	2.8	2.4
R97-1634	1.5	3.3	3.5	2.8
R98-1821	0.7	2.2	2.2	1.7
S00-9970-09	1.7	3.5	2.2	2.5
S00-9985-03	2.2	3.5	3.1	2.9
S02-611CR	1.8	3.7	3.2	2.9
TN04-616-RR	1.3	3.5	3.6	2.8
TN04-617-RR	1.0	3.3	3.3	2.6
V00-1988	0.3	2.2	1.8	1.4
V98-2711	0.8	3.3	2.4	2.2

TABLE 33 ~ Continued

STRAIN/ VARIETY	SOUTH								
	ALEXANDRIA LA	BELLE MINA AL	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SPRINGFIELD TN	SUFFOLK VA	ULLIN IL	MEAN
5601T	1.2	2.0	3.0	1.5	2.8	2.0	1.2	1.0	1.8
5002T	1.0	2.7	2.7	1.7	2.2	3.3	1.5	1.0	2.0
AG 5501RR	1.0	2.7	1.8	1.3	2.7	2.7	1.3	1.0	1.8
DT98-11850	1.0	2.3	2.0	2.7	3.5	3.3	1.5	1.0	2.2
DT99-13005	1.2	2.0	2.2	1.8	3.5	3.3	1.8	1.3	2.1
DT99-16864	1.0	2.7	2.8	2.1	3.7	3.3	1.8	2.3	2.5
JTN-5303	1.0	2.3	1.8	1.6	3.8	3.3	1.7	1.0	2.1
JTN-5503	1.0	3.0	3.2	1.8	4.2	3.0	1.7	1.0	2.3
Md 00-6015	1.0	2.3	1.7	1.7	1.7	1.7	1.3	1.0	1.5
Md 99-0687-3RR	1.0	2.7	2.5	1.1	2.5	2.7	1.5	1.0	1.9
Md 99-1411-1 RR	1.0	2.0	1.3	1.3	2.5	1.7	1.2	1.0	1.5
Md 99-6226	1.0	2.3	1.5	1.7	3.0	2.0	1.2	1.0	1.7
R00-1029	1.0	2.7	1.8	1.4	2.7	2.3	1.7	1.0	1.8
R00-1551	1.0	2.3	2.3	1.4	2.7	2.3	1.3	1.0	1.8
R00-1940	1.0	2.7	3.0	1.9	4.0	4.0	1.5	1.3	2.4
R97-1634	1.0	2.0	2.2	2.3	3.2	3.0	2.7	1.3	2.2
R98-1821	1.0	2.0	1.3	1.4	2.5	3.0	2.0	1.0	1.8
S00-9970-09	1.0	2.7	2.5	1.4	2.8	2.7	1.3	1.0	1.9
S00-9985-03	1.5	2.3	3.8	2.5	4.0	3.7	1.8	3.0	2.8
S02-611CR	1.0	3.0	4.0	1.8	4.2	3.7	2.0	1.7	2.7
TN04-616-RR	1.0	2.7	2.2	1.6	3.7	3.3	1.5	1.0	2.1
TN04-617-RR	1.0	2.7	2.3	1.5	3.0	2.7	1.3	1.0	1.9
V00-1988	1.0	2.0	2.0	1.3	2.2	2.3	1.2	1.0	1.6
V98-2711	1.0	2.0	1.7	2.4	4.0	1.7	1.0	1.0	1.8

TABLE 33 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	STONEVILLE MS	
5601T	3.2	1.0	2.0	2.1
5002T	2.5	1.0	2.0	1.8
AG 5501RR	2.3	1.5	2.0	1.9
DT98-11850	1.0	3.0	2.0	2.0
DT99-13005	3.8	3.0	2.0	2.9
DT99-16864	3.5	2.5	2.0	2.7
JTN-5303	1.8	1.0	2.0	1.6
JTN-5503	1.7	2.0	2.0	1.9
Md 00-6015	2.3	1.0	2.0	1.8
Md 99-0687-3RR	1.8	1.0	2.0	1.6
Md 99-1411-1 RR	2.7	1.0	2.0	1.9
Md 99-6226	2.5	1.0	2.0	1.8
R00-1029	1.3	2.0	2.0	1.8
R00-1551	1.8	1.5	2.0	1.8
R00-1940	3.7	2.0	2.0	2.6
R97-1634	2.2	2.0	2.0	2.1
R98-1821	1.8	1.0	2.0	1.6
S00-9970-09	1.2	1.0	2.0	1.4
S00-9985-03	2.8	3.0	2.0	2.6
S02-611CR	2.7	2.5	2.0	2.4
TN04-616-RR	2.0	2.0	2.0	2.0
TN04-617-RR	2.0	2.0	2.0	2.0
V00-1988	1.7	1.0	2.0	1.6
V98-2711	1.8	2.0	2.0	1.9

TABLE 33 ~ Continued

STRAIN/ VARIETY	WEST			MEAN
	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	
5601T	1.0	1.0	1.3	1.1
5002T	1.0	1.0	1.3	1.1
AG 5501RR	1.0	1.0	1.3	1.1
DT98-11850	1.7	1.0	2.0	1.6
DT99-13005	1.3	1.0	1.7	1.3
DT99-16864	1.0	1.0	2.3	1.4
JTN-5303	1.3	1.0	1.3	1.2
JTN-5503	1.7	1.0	2.3	1.7
Md 00-6015	1.0	1.0	2.0	1.3
Md 99-0687-3RR	1.0	1.0	1.3	1.1
Md 99-1411-1 RR	1.0	1.0	1.0	1.0
Md 99-6226	1.0	1.0	1.7	1.2
R00-1029	1.0	1.0	2.0	1.3
R00-1551	1.3	1.0	1.0	1.1
R00-1940	2.0	1.0	2.0	1.7
R97-1634	1.3	1.0	2.3	1.6
R98-1821	1.3	1.0	1.0	1.1
S00-9970-09	1.0	1.0	1.0	1.0
S00-9985-03	1.7	1.0	2.7	1.8
S02-611CR	1.3	1.0	2.7	1.7
TN04-616-RR	1.3	1.0	2.0	1.4
TN04-617-RR	1.3	1.0	2.0	1.4
V00-1988	1.0	1.0	1.0	1.0
V98-2711	1.0	1.0	1.3	1.1

**TABLE 34 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V,  
2004**

STRAIN/ VARIETY	EAST		MEAN
	QUEENSTOWN MD	WARSAW VA	
5601T	1.0	1.6	1.3
5002T	1.2	1.3	1.2
AG 5501RR	1.2	1.4	1.3
DT98-11850	1.0	1.3	1.2
DT99-13005	1.0	1.5	1.3
DT99-16864	1.0	1.5	1.3
JTN-5303	1.0	1.8	1.4
JTN-5503	1.0	1.5	1.3
Md 00-6015	1.0	1.3	1.2
Md 99-0687-3RR	1.5	1.3	1.4
Md 99-1411-1 RR	1.0	1.6	1.3
Md 99-6226	1.0	1.5	1.3
R00-1029	1.0	1.5	1.3
R00-1551	1.2	1.3	1.2
R00-1940	1.0	1.3	1.2
R97-1634	1.2	1.9	1.5
R98-1821	1.0	1.4	1.2
S00-9970-09	1.3	1.6	1.5
S00-9985-03	1.0	1.4	1.2
S02-611CR	1.0	1.4	1.2
TN04-616-RR	1.0	1.9	1.5
TN04-617-RR	1.0	1.9	1.5
V00-1988	1.0	1.3	1.2
V98-2711	1.0	1.5	1.3

TABLE 34 ~ Continued

STRAIN/ VARIETY	SOUTH					MEAN
	KNOXVILLE TN	ORANGE VA	PRINCETON KY	SUFFOLK VA	ULLIN IL	
5601T	1.0	1.0	2.0	1.3	1.0	1.3
5002T	1.0	1.3	2.0	2.7	2.3	1.9
AG 5501RR	3.0	1.1	2.0	1.0	1.7	1.8
DT98-11850	3.0	1.3	1.0	1.0	1.0	1.5
DT99-13005	1.0	1.0	1.0	2.0	2.0	1.4
DT99-16864	2.0	1.4	2.0	1.0	2.0	1.7
JTN-5303	2.0	1.1	3.0	3.0	2.3	2.3
JTN-5503	2.0	1.1	2.0	1.7	2.7	1.9
Md 00-6015	1.0	1.7	3.0	2.7	2.0	2.1
Md 99-0687-3RR	2.0	1.1	3.0	1.7	2.0	2.0
Md 99-1411-1 RR	2.0	1.1	1.0	1.0	1.3	1.3
Md 99-6226	2.0	1.4	2.0	1.7	1.3	1.7
R00-1029	1.0	1.1	2.0	1.0	1.7	1.4
R00-1551	3.0	1.1	2.0	1.0	1.3	1.7
R00-1940	3.0	1.1	3.0	1.7	2.7	2.3
R97-1634	2.0	1.3	2.0	1.0	1.3	1.5
R98-1821	2.0	1.2	2.0	1.0	1.0	1.4
S00-9970-09	3.0	1.2	3.0	1.7	2.7	2.3
S00-9985-03	2.0	1.3	2.0	1.7	1.7	1.7
S02-611CR	2.0	1.1	3.0	1.7	2.0	2.0
TN04-616-RR	3.0	1.3	1.0	1.0	1.0	1.5
TN04-617-RR	3.0	1.0	1.0	1.0	1.3	1.5
V00-1988	1.0	1.0	2.0	1.3	2.0	1.5
V98-2711	2.0	1.2	2.0	1.3	2.0	1.7

TABLE 34 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	STONEVILLE MS	
5601T	1.5	1.0	2.0	1.5
5002T	2.0	1.5	2.0	1.8
AG 5501RR	2.0	2.0	2.0	2.0
DT98-11850	1.5	1.5	2.0	1.7
DT99-13005	1.5	2.0	2.0	1.8
DT99-16864	2.0	1.5	2.0	1.8
JTN-5303	2.0	1.5	2.0	1.8
JTN-5503	2.0	1.5	2.0	1.8
Md 00-6015	2.5	1.5	2.0	2.0
Md 99-0687-3RR	2.5	1.5	2.0	2.0
Md 99-1411-1 RR	2.0	2.0	2.0	2.0
Md 99-6226	3.0	2.0	2.0	2.3
R00-1029	3.0	1.5	2.0	2.2
R00-1551	1.5	2.0	2.0	1.8
R00-1940	2.0	1.5	2.0	1.8
R97-1634	1.0	1.5	2.0	1.5
R98-1821	2.0	1.5	2.0	1.8
S00-9970-09	2.0	1.5	2.0	1.8
S00-9985-03	1.5	1.5	2.0	1.7
S02-611CR	2.0	1.5	2.0	1.8
TN04-616-RR	2.5	1.5	2.0	2.0
TN04-617-RR	2.0	1.5	2.0	1.8
V00-1988	1.5	1.5	2.0	1.7
V98-2711	2.5	2.0	2.0	2.2



TABLE 34 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	BOSSIER CITY LA	PITTSBURG KS	
5601T	4.3	2.0	3.2
5002T	5.0	2.0	3.5
AG 5501RR	4.7	2.0	3.3
DT98-11850	4.3	1.0	2.7
DT99-13005	4.0	2.0	3.0
DT99-16864	4.0	2.0	3.0
JTN-5303	3.7	3.0	3.3
JTN-5503	4.7	2.0	3.3
Md 00-6015	3.7	2.0	2.8
Md 99-0687-3RR	4.0	2.0	3.0
Md 99-1411-1 RR	3.7	1.0	2.3
Md 99-6226	3.3	2.0	2.7
R00-1029	5.0	2.0	3.5
R00-1551	4.0	2.0	3.0
R00-1940	4.3	1.0	2.7
R97-1634	3.8	2.0	2.9
R98-1821	4.3	2.0	3.2
S00-9970-09	5.0	2.0	3.5
S00-9985-03	4.7	2.0	3.3
S02-611CR	4.7	2.0	3.3
TN04-616-RR	4.0	2.0	3.0
TN04-617-RR	4.0	2.0	3.0
V00-1988	4.3	2.0	3.2
V98-2711	3.7	1.0	2.3

## PRELIMINARY GROUP V

2004

Preliminary Group V nurseries were planted at 13 locations. Data were obtained from 9 of the locations. The parentage for each strain is reported in Table 35. Table 36 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 37 - 43.

**TABLE 35 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V,  
2004**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. 5601T	Hutcheson x TN89-39	
2. 5002T	Holladay x Manokin	
3. AG 5501RR		
4. DB00 - 087	Freedom x NK S59-60	F6
5. DB00 - 138	Freedom x Bolivar	F6
6. DB00 - 141	Freedom x Bolivar	F6
7. DB00 - 155	Freedom x Bolivar	F6
8. DB00 - 173	R92-1294 x Bolivar	F6
9. JTN-5104	Fowler x S95-1908	
10. JTN-5204	Fowler x S95-1908	
11. K1637RR	K1276 x K97-134	F5
12. K1638RR	K1276 x K97-134	F5
13. K1639	R93-174 x NK S59-60	F5
14. K1640RR	KS4997 x K97-138	F5
15. K1641	KS5502N x PIONEER P9352	F5
16. Md 01-206 RR	Md 94-5396 x Manokin(2) x ResnikRR	F5
17. Md 01-278 RR	Md 94-5396 x Md 92-5850(2) x Stressland(2) x ResnikRR	F5
18. Md 01-283 RR	Md 94-5396 x Md 92-5850(2) x Stressland(2) x ResnikRR	F5
19. Md 01-5132	TN95-268 x A94-774021	F5
20. Md 01-6106	U94-2306 x S95-1908	F5
21. N01-11985	Graham x LG93-8169	
22. N97-8935	Hutcheson x PI 407948	
23. NTCPR01-139	Graham x Misuzu Diazu	
24. R00-1076	ASG A5843 x Hartz 5545	
25. R00-684	Md 92-5769 x N90-541	
26. R01-2373	V91-3036 x HBK 5990	
27. R01-330	R96-2660 x HBK 5990	
28. R99-2512	Pioneer P9611 x Caviness	
29. S02-18932RR	S97-1753 x DP 5960	F5
30. S02-19698RR	S96-2692 X DP 5960	F5
31. S02-20333RR	DP 5960 x Anand	F5
32. S02-3934RR	SG 498 x Anand	F5
33. S02-3982RR	Pioneer P95B33 x Anand type RR	F5
34. TN02-064-RR	Anand x (TN95-53 x Resnik-RR)	
35. TN02-131-RR	Anand x (TN95-53 x Resnik-RR)	
36. TN02-134-RR	Anand x (TN95-53 x Resnik-RR)	
37. TN02-241	TN94-213 x Md 94-5396	
38. TN02-283	Fowler x Anand	
39. TX 75603	V92-0254 x Anand	
40. V00-1242	Hutcheson X Graham	
41. V00-1630	V92-0570 X V88-494	
42. V00-2142	V90-1012 X Graham	
43. V01-0752RR	V92-0974 (2) x (Hutcheson (2) x RR)	
44. V01-1175RR	V90-1012 (2) x (Hutcheson x RR)	
45. Owen	PI 417288 x T145	

**TABLE 36 ~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2004 ~  
MEAN OF 11 LOCATIONS**

STRAIN/ VARIETY	SEED		AVG.	MAT.	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----		SCN 2	SCN 3	FL COLOR	PUB. COLOR	POD COLOR
	YIELD	RANK	RANK	INDEX					PROTEIN	OIL					
5601T	47.3	18	18	10/03	1.9	31	1.6	13.1	41.1	18.6	5.0	5.0			
5002T	50.2	2	16	2-	2.0	26	1.6	14.3	40.1	20.1+	5.0	5.0			
AG 5501RR	48.0	11	17	1+	1.8	30	1.5	13.0	40.9	19.4	5.0	5.0			
DB00 - 087	50.7	1	15	2+	2.8	32	1.6	12.8	40.7	18.3	5.0	5.0	P	T	T
DB00 - 138	45.6	24	21	0	2.0	29	1.6	13.2	40.3	18.8	5.0	5.0	P	T	T
DB00 - 141	48.6	9	16	5+	2.1	28	1.5	13.8	41.3	19.2	5.0	5.0	P	G	T
DB00 - 155	49.1	7	17	2+	2.1	27	1.4	15.1	42.0	18.0	5.0	5.0	P	G	T
DB00 - 173	47.4	15	18	0	2.2	34	1.5	13.4	41.0	19.1	5.0	5.0	W	T	T
JTN-5104	43.3	34	23	7+	2.1	32	1.6	13.8	39.5-	18.4	1.0	2.0			
JTN-5204	45.0	27	21	7+	2.1	32	1.8	13.9	39.6-	18.6	2.0	2.0			
K1637RR	40.7-	41	27	3-	1.4	25	1.7	12.7	39.2-	20.4+	5.0	5.0			
K1638RR	41.6-	39	26	4-	1.3	25	1.6	11.7	38.7-	20.7+	5.0	5.0			
K1639	43.6	33	22	3-	1.6	28	1.6	12.8	38.8-	19.1	5.0	3.0			
K1640RR	42.7	36	24	4-	1.8	28	1.6	11.1	38.2-	19.5+	5.0	5.0			
K1641	46.2	21	20	4-	1.3	26	1.6	12.1	39.3-	19.7+	5.0	2.0			
Md 01-206 RR	48.7	8	16	2-	1.5	28	1.7	12.4	39.3-	19.8+	5.0	5.0			
Md 01-278 RR	42.0	38	24	2-	1.4	26	1.5	13.1	40.4	20.1+	5.0	5.0			
Md 01-283 RR	42.5	37	24	1-	1.4	27	1.5	14.2	41.4	19.4	5.0	5.0			
Md 01-5132	46.2	21	19	3-	1.5	26	1.5	15.4	41.1	20.0+	5.0	5.0			
Md 01-6106	47.4	15	19	0	1.6	31	1.6	13.3	40.1	19.4	5.0	5.0			
N01-11985	38.6-	42	29	3-	1.8	27	1.7	10.7	39.2-	19.7+	5.0	5.0			
N97-8935	37.2-	44	31	1-	2.3	25	2.1	17.1	41.0	18.7	5.0	.			
NTCPR01-139	37.9-	43	30	1+	2.1	28	1.5	17.2	40.4	18.4	5.0	5.0			
R00-1076	44.6	30	21	3+	2.1	29	1.6	13.9	40.9	18.5	5.0	4.0			
R00-684	47.2	19	19	2-	1.6	26	1.8	15.4	40.6	20.1+	5.0	5.0			
R01-2373	47.5	12	18	5+	2.4	32	1.6	14.3	41.2	19.0	5.0	3.0			
R01-330	49.7	4	15	8+	1.9	33	1.5	16.9	40.7	19.3	5.0	5.0			
R99-2512	49.4	5	15	8+	2.4	33	1.5	14.9	41.0	18.6	5.0	5.0			
S02-18932RR	45.8	23	19	2+	2.6	34	1.6	13.4	40.2	18.6	5.0	4.0	W		
S02-19698RR	44.7	29	21	9+	1.7	34	1.6	13.3	39.1-	18.7	4.0	5.0	W		
S02-20333RR	45.2	26	21	6+	1.6	31	1.5	13.5	39.9	18.5	5.0	5.0	P		
S02-3934RR	47.4	15	17	0	2.2	34	1.5	13.2	39.1-	19.4	5.0	5.0	P		
S02-3982RR	47.4	15	17	6+	2.1	34	1.5	13.9	39.8-	19.3	4.0	5.0	P		
TN02-064-RR	42.7	36	24	3-	1.6	30	1.7	10.8	39.8-	19.2	5.0	5.0			
TN02-131-RR	45.5	25	20	1-	1.5	28	1.7	11.6	40.1	19.2	5.0	5.0			
TN02-134-RR	46.1	22	19	2-	1.7	29	1.6	12.1	40.4	19.3	5.0	5.0			
TN02-241	47.4	15	18	1-	1.5	29	1.4	13.0	40.8	19.2	5.0	5.0			
TN02-283	49.1	7	15	0	1.6	29	1.7	13.9	39.1-	19.0	3.0	4.0			
TX 75603	43.8	32	22	2-	2.0	28	1.7	12.0	38.1-	19.9+	5.0	5.0			
V00-1242	48.3	10	16	3+	1.8	29	1.6	13.2	41.0	19.1	5.0	5.0			
V00-1630	49.9	3	14	3-	1.3	23	1.6	15.6	39.3-	19.7+	5.0	5.0			
V00-2142	44.9	28	22	1-	1.6	27	1.7	13.5	38.9-	20.2+	5.0	5.0			
V01-0752RR	40.9-	40	26	7+	1.9	29	1.6	13.1	39.8-	18.8	5.0	5.0			
V01-1175RR	44.3	31	22	3+	2.3	30	1.7	13.0	40.5	20.5+	5.0	5.0			
Owen	19.4-	45	43	1+	3.5	27	2.3	19.7	40.8	17.3-	5.0	5.0			
OVERALL MEAN	44.9								40.1	19.2					
LSD (.05)	5.6								1.3	0.8					
C. V.	12%								2%	3%					

**TABLE 37 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2004**

STRAIN/ VARIETY	ALEXANDRIA	JACKSON*	MCCUNE	PINE TREE*	PITTSBURG	PORTAGEVILLE	PROSPER*	QUEENSTOWN	STONEVILLE	ULLIN*	WARSAW	MEAN
	LA	TN	KS	AR	KS	MO(A)	TX	MD	MS	IL	VA	
5601T	41.8	52.5	27.2	43.5	44.7	47.4	20.0	49.7	61.0	43.6	59.3	47.3
5002T	49.7	52.0	29.1	42.8	37.0-	47.1	29.0+	54.8	71.1+	50.8	62.2	50.2
AG 5501RR	49.2	54.3	26.7	42.2	40.7	42.7	30.0+	57.8	62.3	50.8	56.8	48.0
DB00 - 087	46.4	55.6	38.3+	26.3	35.8-	50.5	25.0+	57.2	70.9+	47.2	55.7	50.7
DB00 - 138	34.6	48.2	23.1	40.3	45.9	41.8	24.0+	49.7	69.0	50.8	54.9	45.6
DB00 - 141	53.1	46.9	24.4	34.4	42.8	45.7	35.0+	54.6	63.5	29.0	56.2	48.6
DB00 - 155	46.3	48.3	28.0	41.8	39.2-	44.9	27.0+	61.1+	65.8	43.6	58.3	49.1
DB00 - 173	54.2	28.3-	26.6	53.5	38.0-	45.7	37.0+	51.3	62.6	36.3	53.5	47.4
JTN-5104	39.6	40.1	22.9	32.2	39.8-	46.3	28.0+	43.3	55.1	54.5	56.4	43.3
JTN-5204	48.0	32.4-	26.9	46.4	36.7-	45.5	26.0+	51.2	49.4-	39.9	57.7	45.0
K1637RR	28.3-	34.2-	28.6	48.0	39.5-	42.7	19.0-	52.3	39.1-	32.7	54.9	40.7-
K1638RR	38.1	42.3	27.1	56.2	40.6	41.8	21.0+	45.7	44.0-	43.6	53.9	41.6-
K1639	34.6	38.6	26.2	32.4	38.5-	46.3	17.0-	51.3	54.9	36.3	53.6	43.6
K1640RR	43.3	31.6-	30.8	45.5	40.5-	31.5-	23.0+	47.1	50.2-	36.3	55.1	42.7
K1641	32.7	32.4-	33.3	62.0	45.9	44.1	24.0+	59.4	44.9-	39.9	63.3	46.2
Md 01-206 RR	58.6+	40.2	27.6	31.1	48.1	43.0	32.0+	45.6	57.6	47.2	60.5	48.7
Md 01-278 RR	29.5	44.8	25.7	39.0	38.6-	45.2	23.0+	52.8	44.4-	29.0	58.2	42.0
Md 01-283 RR	38.1	52.0	21.0	46.5	37.9-	38.5-	21.0+	49.5	53.6	36.3	58.8	42.5
Md 01-5132	43.8	43.3	26.3	37.9	42.5	43.8	20.0	58.6	50.1-	43.6	58.7	46.2
Md 01-6106	43.4	12.2-	33.4	36.7	42.2	41.6	22.0+	53.1	59.0	50.8	59.2	47.4
N01-11985	31.5	33.4-	26.7	28.6	43.6	32.6-	20.0	47.2	36.3-	25.4-	52.6-	38.6-
N97-8935	34.9	37.2	20.1-	38.5	37.9-	34.6-	10.0-	47.1	31.3-	21.8-	54.9	37.2-
NTCPR01-139	31.0	25.2-	26.8	49.0	32.2-	27.1-	18.0-	47.2	46.2-	29.0	54.7	37.9-
R00-1076	47.4	38.0	24.1	43.4	34.8-	43.0	21.0+	51.0	56.9	47.2	55.4	44.6
R00-684	35.8	45.9	25.2	25.0	42.5	47.1	24.0+	55.3	59.1	47.2	65.3	47.2
R01-2373	55.9+	47.9	20.7-	49.9	39.9-	43.5	31.0+	51.3	65.6	43.6	55.9	47.5
R01-330	53.4	52.6	28.9	45.2	41.2	48.5	30.0+	53.4	58.1	43.6	64.3	49.7
R99-2512	55.2+	33.4-	25.3	37.5	43.2	53.0	35.0+	49.9	63.0	36.3	56.4	49.4
S02-18932RR	47.8	26.0-	25.6	39.5	36.3-	45.2	24.0+	53.3	55.1	43.6	57.1	45.8
S02-19698RR	52.2	42.2	27.1	33.8	33.4-	43.0	31.0+	47.2	55.6	50.8	54.2	44.7
S02-20333RR	52.8	49.5	22.8	54.0	36.9-	43.8	23.0+	47.9	50.6-	36.3	61.9	45.2
S02-3934RR	52.4	50.3	26.6	46.7	44.1	49.1	25.0+	54.1	55.0	43.6	50.8-	47.4
S02-3982RR	54.1	39.1	24.5	34.9	41.4	48.3	28.0+	52.2	55.0	39.9	56.2	47.4
TN02-064-RR	44.0	46.5	28.0	33.9	41.1	46.6	28.0+	43.8	43.4-	29.0	52.4-	42.7
TN02-131-RR	49.5	39.0	28.1	33.5	41.3	48.8	24.0+	52.0	45.2-	43.6	53.5	45.5
TN02-134-RR	51.9	37.5	22.1	29.3	43.5	49.7	24.0+	51.6	44.3-	36.3	59.5	46.1
TN02-241	42.7	26.6-	30.3	41.2	44.1	47.1	25.0+	52.8	56.8	29.0	58.2	47.4
TN02-283	49.8	37.2	24.2	35.5	44.1	55.0+	22.0+	57.0	53.0	50.8	61.0	49.1
TX 75603	40.5	37.8	26.4	42.7	41.5	46.3	19.0-	47.5	49.6-	47.2	55.0	43.8
V00-1242	49.1	41.2	28.8	32.5	43.9	51.1	34.0+	50.3	60.1	39.9	55.0	48.3
V00-1630	48.2	30.6-	29.5	49.4	50.1+	52.2	27.0+	48.3	60.2	50.8	60.6	49.9
V00-2142	41.3	35.5-	30.8	43.3	43.4	40.7	22.0+	40.1	60.6	47.2	57.7	44.9
V01-0752RR	32.2	35.8	23.2	28.2	34.8-	39.9-	34.0+	44.5	56.5	29.0	55.0	40.9-
V01-1175RR	52.8	31.0-	25.6	35.4	39.7-	47.1	26.0+	39.3	51.8-	32.7	54.0	44.3
Owen	.	8.3-	3.2-	.	8.9-	7.0-	.	34.1-	20.6-	7.3-	42.9-	19.4-
L. S. D. (0.05)	13.3	16.8	6.3	31.0	4.2	6.9	0.0	11.2	8.9	17.9	6.0	5.6
C. V. (%)	14.5	21.0	11.9	36.2	5.3	7.8	0.0	11.0	8.2	21.7	5.3	11.8

\*Data not included in mean

**TABLE 38 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V,  
2004**

STRAIN VARIETY	PITTSBURG KS	PORTAGEVILLE MO(A)	PROSPER* TX	QUEENSTOWN MD	ULLIN* IL	WARSAW VA	MEAN
5601T	19.4	19.6	18.9	16.9	19.2	18.6	18.6
5002T	20.4	21.5	21.6	18.7	20.9	19.6	20.1
AG 5501RR	20.5	20.0	19.4	18.2	20.3	18.8	19.4
DB00 - 087	17.6	19.9	17.9	18.3	19.8	17.5	18.3
DB00 - 138	19.1	20.2	18.5	17.4	19.4	18.5	18.8
DB00 - 141	19.2	20.8	18.5	18.2	19.0	18.5	19.2
DB00 - 155	18.1	19.0	19.4	17.6	19.8	17.3	18.0
DB00 - 173	20.2	19.3	19.5	18.2	19.0	18.5	19.1
JTN-5104	19.3	19.0	19.6	17.0	18.9	18.4	18.4
JTN-5204	19.7	19.0	19.0	17.7	17.8	17.8	18.6
K1637RR	20.6	20.6	21.8	19.9	22.4	20.3	20.4
K1638RR	21.7	21.9	21.1	19.2	21.4	19.9	20.7
K1639	19.6	20.0	20.2	17.6	19.5	19.0	19.1
K1640RR	21.4	20.6	.	17.8	19.7	18.2	19.5
K1641	21.0	20.4	21.4	18.2	19.6	19.3	19.7
Md 01-206 RR	20.3	20.9	20.8	18.6	20.6	19.2	19.8
Md 01-278 RR	21.4	20.1	22.1	19.4	20.6	19.4	20.1
Md 01-283 RR	20.2	20.4	19.3	17.8	19.1	19.2	19.4
Md 01-5132	20.3	21.2	22.0	20.0	20.0	18.4	20.0
Md 01-6106	20.0	19.5	20.3	17.9	20.0	20.3	19.4
N01-11985	22.3	20.6	20.4	17.8	20.0	18.2	19.7
N97-8935	19.1	20.2	.	17.6	19.4	18.0	18.7
NTCPR01-139	19.0	19.1	18.9	17.1	19.2	18.5	18.4
R00-1076	19.4	19.7	21.1	17.6	20.0	17.4	18.5
R00-684	21.6	20.8	22.0	19.3	20.7	18.8	20.1
R01-2373	19.3	19.5	19.7	17.2	19.2	20.0	19.0
R01-330	20.5	20.2	20.5	18.7	19.6	17.9	19.3
R99-2512	18.4	19.4	.	17.4	19.2	19.2	18.6
S02-18932RR	19.3	19.7	19.9	17.5	18.6	17.8	18.6
S02-19698RR	19.0	19.6	.	17.8	18.4	18.5	18.7
S02-20333RR	19.2	19.1	.	17.1	18.2	18.6	18.5
S02-3934RR	20.0	20.5	19.6	18.5	19.4	18.5	19.4
S02-3982RR	19.8	19.8	20.3	18.2	18.9	19.4	19.3
TN02-064-RR	20.9	20.2	20.4	17.5	19.3	18.3	19.2
TN02-131-RR	20.3	19.8	17.9	17.6	19.6	19.0	19.2
TN02-134-RR	20.0	20.5	21.0	18.2	20.5	18.5	19.3
TN02-241	20.2	19.8	18.6	17.9	18.7	18.8	19.2
TN02-283	19.9	19.8	19.3	17.6	19.1	18.5	19.0
TX 75603	20.5	21.1	.	18.8	19.4	19.1	19.9
V00-1242	19.9	20.0	.	17.8	19.7	18.5	19.1
V00-1630	20.5	20.8	20.8	18.0	20.3	19.4	19.7
V00-2142	20.8	21.2	20.6	19.0	20.8	19.7	20.2
V01-0752RR	18.0	20.1	20.4	17.7	17.7	19.3	18.8
V01-1175RR	21.9	21.0	19.4	19.2	20.9	19.7	20.5
Owen	17.6	17.1	.	.	.	17.1	17.3

\*Data not included in mean

**TABLE 39 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2004**

STRAIN VARIETY	PITTSBURG KS	PORTAGEVILLE MO(A)	PROSPER* TX	QUEENSTOWN MD	ULLIN* IL	WARSAW VA	MEAN
5601T	39.6	41.4	42.7	41.6	41.6	41.7	41.1
5002T	39.2	39.3	41.7	40.3	39.6	41.5	40.1
AG 5501RR	39.2	41.2	41.5	41.3	41.0	41.9	40.9
DB00 - 087	41.5	41.5	42.0	38.8	39.4	41.1	40.7
DB00 - 138	39.0	40.6	42.0	40.7	42.6	41.0	40.3
DB00 - 141	40.3	42.0	43.5	40.5	42.7	42.2	41.3
DB00 - 155	40.8	43.3	41.0	41.7	42.1	42.3	42.0
DB00 - 173	39.9	40.7	41.1	41.3	41.4	42.1	41.0
JTN-5104	38.5	41.1	43.1	39.4	39.7	38.9	39.5
JTN-5204	37.8	40.4	40.3	39.0	42.4	41.0	39.6
K1637RR	38.8	39.3	40.1	39.3	38.0	39.2	39.2
K1638RR	36.9	38.7	40.4	39.2	37.8	39.9	38.7
K1639	37.6	39.1	40.7	39.6	37.7	38.9	38.8
K1640RR	36.6	38.1	.	39.1	39.2	38.8	38.2
K1641	37.4	38.2	37.0	42.7	38.9	38.9	39.3
Md 01-206 RR	39.9	39.3	40.9	38.1	39.7	40.0	39.3
Md 01-278 RR	39.6	40.7	41.1	41.2	40.6	40.1	40.4
Md 01-283 RR	41.5	40.8	41.5	41.1	41.7	42.3	41.4
Md 01-5132	39.6	41.5	42.4	41.4	40.6	41.8	41.1
Md 01-6106	39.3	39.9	43.0	39.3	38.1	41.9	40.1
N01-11985	37.0	38.7	40.3	40.9	38.5	40.2	39.2
N97-8935	43.5	41.3	.	40.2	41.9	38.8	41.0
NTCPR01-139	38.2	41.0	42.2	40.8	39.7	41.6	40.4
R00-1076	39.7	40.6	38.7	41.1	39.2	42.0	40.9
R00-684	40.3	40.7	40.7	40.4	41.0	40.9	40.6
R01-2373	39.5	41.5	43.8	41.8	40.7	41.9	41.2
R01-330	39.7	40.8	44.5	40.4	41.9	41.7	40.7
R99-2512	41.0	40.9	.	40.9	41.1	41.1	41.0
S02-18932RR	38.9	39.6	40.8	40.0	42.1	42.3	40.2
S02-19698RR	38.2	38.8	.	39.2	40.2	40.1	39.1
S02-20333RR	38.5	40.7	.	40.3	42.0	40.0	39.9
S02-3934RR	38.3	38.9	41.0	38.8	39.4	40.2	39.1
S02-3982RR	39.3	40.6	40.4	39.8	43.3	39.3	39.8
TN02-064-RR	39.6	39.1	39.6	40.0	39.7	40.3	39.8
TN02-131-RR	39.1	40.3	40.9	40.9	39.8	40.0	40.1
TN02-134-RR	40.9	39.0	39.9	40.2	38.5	41.5	40.4
TN02-241	39.0	40.4	43.6	42.5	41.2	41.1	40.8
TN02-283	39.1	38.5	40.2	39.3	38.8	39.4	39.1
TX 75603	36.8	37.6	.	38.8	39.1	39.0	38.1
V00-1242	41.5	39.7	.	41.5	40.7	41.1	41.0
V00-1630	38.5	38.8	40.1	41.2	39.8	38.8	39.3
V00-2142	39.1	38.1	38.1	39.5	37.5	38.8	38.9
V01-0752RR	40.0	40.2	38.9	40.4	43.5	38.5	39.8
V01-1175RR	40.0	40.7	41.3	40.6	40.4	40.7	40.5
Owen	40.6	40.7	.	.	.	41.0	40.8

\*Data not included in mean

**TABLE 40 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2004**

STRAIN/ VARIETY	JACKSON*	PINE TREE*	PITTSBURG	PORTAGEVILLE	QUEENSTOWN	STONEVILLE	ULLIN*	WARSAW	MEAN
	TN	AR	KS	MO(A)	MD	MS	IL	VA	
5601T	17.6	12.9	12.2	13.3	12.7	14.0	13.5	13.1	13.1
5002T	17.2	17.4	13.8	13.9	14.5	14.6	16.5	14.9	14.3
AG 5501RR	14.9	13.5	12.5	12.9	14.2	11.5	14.7	14.1	13.0
DB00 - 087	15.7	12.3	13.5	12.6	13.0	11.4	12.8	13.7	12.8
DB00 - 138	15.7	12.5	14.8	12.7	13.1	12.3	13.6	13.3	13.2
DB00 - 141	13.1	11.8	15.5	13.2	13.8	11.6	12.4	14.7	13.8
DB00 - 155	16.6	13.0	15.6	14.9	15.2	14.5	15.5	15.2	15.1
DB00 - 173	13.7	11.4	14.4	12.5	14.6	11.5	13.7	14.2	13.4
JTN-5104	15.1	13.3	14.8	13.6	13.6	12.6	14.8	14.3	13.8
JTN-5204	15.6	13.4	13.9	13.8	13.7	12.9	13.2	15.2	13.9
K1637RR	13.5	14.5	12.9	12.7	13.1	11.6	13.9	13.2	12.7
K1638RR	14.3	14.6	11.2	12.0	12.6	10.7	12.7	11.9	11.7
K1639	16.5	15.8	13.5	13.2	12.7	12.1	13.5	12.7	12.8
K1640RR	13.3	12.3	11.0	10.7	11.3	10.8	11.9	11.5	11.1
K1641	15.4	14.7	11.5	12.1	11.3	13.4	12.0	12.4	12.1
Md 01-206 RR	13.9	12.7	12.6	11.8	12.7	12.6	12.2	12.2	12.4
Md 01-278 RR	17.1	13.0	13.5	13.2	13.5	12.8	14.3	12.8	13.1
Md 01-283 RR	16.1	13.8	13.3	13.7	14.8	15.1	13.4	14.1	14.2
Md 01-5132	18.6	17.8	14.9	15.0	16.8	14.3	15.8	16.2	15.4
Md 01-6106	17.3	14.6	13.8	12.5	13.5	14.0	13.5	12.8	13.3
N01-11985	12.4	11.0	11.5	10.7	11.0	9.4	10.0	10.7	10.7
N97-8935	20.0	15.3	18.0	18.4	18.6	13.7	15.7	17.0	17.1
NTCPR01-139	18.3	15.3	17.7	15.8	18.7	17.2	17.3	16.7	17.2
R00-1076	14.2	12.4	14.5	13.2	14.8	12.9	14.6	14.0	13.9
R00-684	17.2	14.1	15.1	14.8	15.8	15.6	15.7	15.8	15.4
R01-2373	15.7	15.4	15.5	13.9	14.4	13.5	14.1	14.4	14.3
R01-330	17.6	17.6	18.0	15.9	17.4	15.7	15.7	17.6	16.9
R99-2512	16.8	15.5	16.5	14.0	15.7	12.8	15.7	15.4	14.9
S02-18932RR	15.0	12.8	14.2	12.2	14.4	13.0	13.0	13.4	13.4
S02-19698RR	14.7	12.3	13.9	13.2	14.1	11.4	13.0	13.8	13.3
S02-20333RR	14.5	12.3	13.7	12.5	14.7	12.1	13.2	14.4	13.5
S02-3934RR	15.2	11.7	14.0	12.9	14.3	12.0	12.5	12.6	13.2
S02-3982RR	15.9	12.7	13.9	13.3	15.4	12.9	13.1	14.2	13.9
TN02-064-RR	15.0	12.0	10.6	11.4	11.8	9.4	11.6	11.1	10.8
TN02-131-RR	13.7	12.5	11.3	11.6	12.9	9.9	12.2	12.3	11.6
TN02-134-RR	14.6	12.6	12.0	12.1	12.8	10.9	12.8	12.6	12.1
TN02-241	16.2	12.5	14.5	12.2	13.9	11.8	12.3	12.7	13.0
TN02-283	15.4	13.3	13.8	14.5	15.0	12.5	14.1	14.0	13.9
TX 75603	14.2	5.1	11.1	12.2	13.3	10.7	12.4	12.5	12.0
V00-1242	15.1	11.9	14.5	12.4	13.9	12.6	12.4	12.7	13.2
V00-1630	17.8	16.0	15.9	14.5	17.1	16.4	16.0	13.9	15.6
V00-2142	16.4	13.5	13.1	12.3	13.8	14.0	13.4	14.3	13.5
V01-0752RR	13.0	12.8	14.0	11.6	14.3	11.4	10.8	14.0	13.1
V01-1175RR	12.4	13.3	13.5	12.2	13.4	11.7	12.7	14.2	13.0
Owen	21.0	14.2	20.6	19.2	21.8	14.6	.	22.5	19.7

\*Data not included in mean



**TABLE 41 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V,  
2004**

STRAIN/ VARIETY	ALEXANDRIA LA	JACKSON* TN	MCCUNE KS	PINE* TREE AR	PITTS- BURG KS	PORTAGE- VILLE MO(A)	QUEENS- TOWN MD	STONE- VILLE MS	ULLIN* IL	WARSAW VA	MEAN
5601T	17	30	29	35	47	25	34	28	28	37	31
5002T	20	20	25	32	37	18	32	24	19	30	26
AG 5501RR	21	28	27	37	46	24	33	26	26	34	30
DB00 - 087	20	31	32	35	45	27	35	30	28	32	32
DB00 - 138	16	31	28	37	44	25	28	30	30	31	29
DB00 - 141	18	26	26	38	41	25	32	26	22	29	28
DB00 - 155	17	28	28	34	40	22	30	22	24	31	27
DB00 - 173	23	37	32	33	46	36	40	26	26	35	34
JTN-5104	15	26	32	41	51	35	34	24	28	34	32
JTN-5204	20	25	31	33	48	31	34	26	31	37	32
K1637RR	19	22	25	35	37	18	28	20	23	29	25
K1638RR	17	21	25	31	36	19	30	22	26	26	25
K1639	12	25	27	31	43	23	33	26	24	31	28
K1640RR	16	16	28	36	42	21	33	22	21	33	28
K1641	16	18	27	32	40	22	31	20	21	30	26
Md 01-206 RR	20	24	26	33	41	25	32	22	31	33	28
Md 01-278 RR	15	22	23	30	37	25	33	20	19	33	26
Md 01-283 RR	15	24	24	26	42	24	31	24	25	33	27
Md 01-5132	16	21	25	32	38	22	34	22	24	29	26
Md 01-6106	19	22	28	34	44	27	32	34	27	33	31
N01-11985	16	27	24	32	40	24	32	24	24	30	27
N97-8935	14	20	28	20	41	24	30	16	24	26	25
NTCPR01-139	14	19	28	31	43	23	34	24	24	29	28
R00-1076	15	30	30	34	44	30	31	20	39	34	29
R00-684	17	23	24	31	40	20	31	22	23	32	26
R01-2373	18	30	31	40	47	32	34	28	24	37	32
R01-330	20	35	30	32	47	34	35	28	30	35	33
R99-2512	21	28	32	32	47	33	38	28	21	34	33
S02-18932RR	21	26	35	34	53	32	37	28	34	34	34
S02-19698RR	19	36	32	36	53	27	40	32	33	39	34
S02-20333RR	18	30	26	30	45	31	35	28	26	31	31
S02-3934RR	20	28	32	35	46	35	36	30	31	37	34
S02-3982RR	24	31	31	36	47	35	36	26	32	37	34
TN02-064-RR	19	23	29	33	44	26	33	24	24	33	30
TN02-131-RR	14	21	29	34	45	26	34	20	25	32	28
TN02-134-RR	19	28	27	41	45	27	32	20	24	32	29
TN02-241	16	25	26	33	43	30	34	22	24	35	29
TN02-283	20	20	26	30	43	29	30	26	23	32	29
TX 75603	15	24	26	33	42	27	32	26	32	31	28
V00-1242	14	24	29	36	42	32	32	26	31	32	29
V00-1630	15	16	23	25	34	17	26	20	20	28	23
V00-2142	14	21	27	33	42	23	30	22	21	30	27
V01-0752RR	10	26	29	33	44	32	35	22	31	33	29
V01-1175RR	18	26	28	36	47	31	31	22	23	32	30
Owen	.	27	28	33	28	26	23	.	16	30	27

\*Data not included in mean

**TABLE 42 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2004**

STRAIN/ VARIETY	ALEXANDRIA LA	JACKSON* TN	MCCUNE KS	PINE TREE* AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PROSPER* TX	QUEENSTOWN MD	STONEVILLE MS	ULLIN* IL	WARSAW VA	MEAN
5601T	1.0	1.3	1.0	1.9	2.0	1.0	1.7	3.5	2.0	1.0	2.5	1.9
5002T	1.0	1.8	1.0	2.8	2.0	2.0	1.5	3.5	2.0	1.0	2.7	2.0
AG 5501RR	1.0	2.0	1.0	2.9	1.5	2.0	1.9	2.8	2.0	1.0	2.5	1.8
DB00 - 087	1.0	4.3	1.5	4.9	4.0	3.0	1.8	4.0	2.0	1.5	4.1	2.8
DB00 - 138	1.0	2.5	1.0	2.6	2.5	2.0	1.8	2.8	2.0	1.0	2.5	2.0
DB00 - 141	1.0	1.3	1.0	3.9	2.0	2.5	2.0	3.3	2.0	1.0	2.9	2.1
DB00 - 155	1.0	3.0	1.0	3.9	2.5	1.0	1.6	3.8	2.0	1.0	3.5	2.1
DB00 - 173	1.0	2.3	1.0	4.3	2.0	3.0	2.1	3.5	2.0	1.0	3.0	2.2
JTN-5104	1.0	2.0	1.0	3.9	2.5	2.0	1.9	3.5	2.0	1.0	2.8	2.1
JTN-5204	1.0	3.0	1.0	1.9	2.5	1.5	2.0	3.5	2.0	1.0	3.0	2.1
K1637RR	1.0	1.0	1.0	1.9	1.0	1.0	1.3	2.0	2.0	1.0	1.7	1.4
K1638RR	1.0	1.0	1.0	1.1	1.0	1.0	1.5	1.5	2.0	1.0	1.4	1.3
K1639	1.0	1.3	1.0	1.6	1.5	1.0	1.5	3.0	2.0	1.0	2.0	1.6
K1640RR	1.0	1.0	1.0	2.7	2.0	1.0	1.6	3.3	2.0	1.0	2.0	1.8
K1641	1.0	1.0	1.0	1.2	1.0	1.0	1.6	1.8	2.0	1.0	1.7	1.3
Md 01-206 RR	1.0	1.0	1.0	1.2	1.0	1.0	1.7	2.5	2.0	1.0	2.3	1.5
Md 01-278 RR	1.0	1.0	1.0	1.2	1.0	1.0	1.6	2.0	2.0	1.0	1.8	1.4
Md 01-283 RR	1.0	1.0	1.0	1.2	1.0	1.0	1.4	2.0	2.0	1.0	1.8	1.4
Md 01-5132	1.0	1.0	1.0	1.2	1.0	1.0	1.4	2.5	2.0	1.0	1.7	1.5
Md 01-6106	1.0	1.5	1.0	1.3	1.0	1.0	1.6	3.0	2.0	1.0	2.1	1.6
N01-11985	1.0	1.3	1.0	2.6	2.0	1.5	1.4	2.5	2.0	1.0	2.7	1.8
N97-8935	1.0	2.3	1.0	1.3	3.0	2.5	0.7	2.8	2.0	1.0	3.9	2.3
NTCPR01-139	1.0	2.0	1.0	2.4	2.5	2.0	1.3	3.3	2.0	1.0	2.7	2.1
ROO-1076	1.0	2.5	1.0	2.9	3.0	2.0	1.9	3.0	2.0	1.0	2.6	2.1
ROO-684	1.0	1.0	1.0	1.3	1.0	1.0	1.6	2.5	2.0	1.0	2.4	1.6
R01-2373	1.0	2.5	1.0	4.2	4.0	2.0	2.2	3.5	2.0	1.0	3.6	2.4
R01-330	1.0	2.0	1.0	3.4	2.5	1.0	2.0	3.5	2.0	1.0	2.2	1.9
R99-2512	1.5	2.5	1.0	3.6	2.5	3.0	2.0	3.5	2.0	1.0	3.1	2.4
S02-18932RR	1.0	3.0	1.0	2.9	3.5	3.5	1.9	3.5	2.0	3.5	3.7	2.6
S02-19698RR	1.0	2.3	1.0	4.0	2.0	1.0	2.0	2.5	2.0	1.0	2.3	1.7
S02-20333RR	1.0	1.0	1.0	3.2	1.0	1.0	1.4	3.0	2.0	1.0	2.1	1.6
S02-3934RR	1.0	2.3	1.0	3.8	3.0	2.0	2.2	3.8	2.0	1.0	2.8	2.2
S02-3982RR	1.0	2.5	1.0	1.6	2.5	2.0	1.6	3.3	2.0	1.0	2.9	2.1
TN02-064-RR	1.0	1.0	1.0	2.9	1.0	1.0	1.7	3.5	2.0	1.0	1.8	1.6
TN02-131-RR	1.0	1.0	1.0	2.6	1.0	1.0	1.7	2.5	2.0	1.0	1.9	1.5
TN02-134-RR	1.5	1.0	1.0	3.1	1.0	1.0	1.7	3.5	2.0	1.0	2.1	1.7
TN02-241	1.0	1.0	1.0	1.4	1.0	1.5	1.5	2.5	2.0	1.0	1.8	1.5
TN02-283	1.0	1.0	1.0	1.2	1.0	1.0	1.7	2.8	2.0	1.0	2.1	1.6
TX 75603	1.0	1.0	1.0	3.9	2.5	1.0	.	3.5	2.0	1.0	2.7	2.0
V00-1242	1.0	1.0	1.0	4.3	1.5	1.5	1.7	2.8	2.0	1.0	2.8	1.8
V00-1630	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.8	2.0	1.0	1.7	1.3
V00-2142	1.0	1.5	1.0	3.6	1.0	1.0	1.6	2.8	2.0	1.0	2.4	1.6
V01-0752RR	1.0	1.0	1.0	1.9	1.5	2.0	1.8	2.8	2.0	1.0	3.0	1.9
V01-1175RR	1.5	1.0	1.0	1.9	2.5	2.5	1.7	2.8	2.0	1.0	3.5	2.3
Owen	.	3.5	2.0	5.0	5.0	4.0	.	2.5	.	1.0	4.0	3.5

\*Data not included in mean

**TABLE 43 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V,  
2004**

STRAIN/ VARIETY	JACKSON*	PINE TREE*	PITTSBURG	PORTAGEVILLE	QUEENSTOWN	STONEVILLE	ULLIN*	WARSAW	MEAN
	TN	AR	KS	MO(A)	MD	MS	IL	VA	
5601T	2.8	2.0	2.0	1.5	1.0	2.0	1.0	1.5	1.6
5002T	3.0	2.0	2.0	1.5	1.0	2.0	1.5	1.5	1.6
AG 5501RR	2.5	2.0	2.0	1.0	1.0	2.0	1.0	1.5	1.5
DB00 - 087	3.0	2.0	2.0	1.5	1.0	2.0	1.5	1.5	1.6
DB00 - 138	2.8	1.5	2.0	1.5	1.0	2.0	1.0	1.4	1.6
DB00 - 141	2.0	1.5	2.0	1.0	1.0	2.0	1.0	1.4	1.5
DB00 - 155	2.3	1.5	2.0	1.0	1.0	2.0	1.0	1.2	1.4
DB00 - 173	2.8	2.5	2.0	1.5	1.0	2.0	1.0	1.2	1.5
JTN-5104	3.0	2.0	2.0	1.5	1.0	2.0	1.0	1.5	1.6
JTN-5204	3.0	2.5	2.0	2.0	1.0	2.0	1.5	1.9	1.8
K1637RR	2.3	2.0	2.0	2.0	1.0	2.0	1.0	1.4	1.7
K1638RR	2.5	2.0	2.0	1.5	1.0	2.0	1.0	1.4	1.6
K1639	3.3	1.5	2.0	1.5	1.0	2.0	2.0	1.7	1.6
K1640RR	3.0	1.5	2.0	1.5	1.0	2.0	1.0	1.7	1.6
K1641	3.3	1.0	2.0	1.5	1.0	2.0	1.0	1.5	1.6
Md 01-206 RR	2.5	1.5	2.0	1.5	1.3	2.0	1.0	1.5	1.7
Md 01-278 RR	2.8	1.5	2.0	1.5	1.0	2.0	1.5	1.2	1.5
Md 01-283 RR	2.5	2.5	2.0	1.5	1.0	2.0	1.0	1.2	1.5
Md 01-5132	3.0	2.5	2.0	1.0	1.0	2.0	1.0	1.4	1.5
Md 01-6106	3.5	2.0	2.0	1.5	1.0	2.0	1.0	1.4	1.6
N01-11985	2.8	2.0	2.0	2.0	1.0	2.0	1.0	1.5	1.7
N97-8935	3.3	2.5	3.0	2.0	1.8	2.0	2.0	1.5	2.1
NTCPR01-139	3.0	1.0	2.0	1.0	1.0	2.0	1.0	1.5	1.5
R00-1076	3.0	1.5	2.0	1.5	1.0	2.0	1.0	1.4	1.6
R00-684	2.5	1.5	2.0	1.5	1.5	2.0	1.0	1.8	1.8
R01-2373	2.5	1.5	2.0	1.5	1.0	2.0	1.0	1.4	1.6
R01-330	2.8	2.5	2.0	1.0	1.0	2.0	1.0	1.4	1.5
R99-2512	2.8	1.5	2.0	1.0	1.0	2.0	1.0	1.5	1.5
S02-18932RR	3.0	1.5	2.0	1.5	1.0	2.0	1.5	1.5	1.6
S02-19698RR	2.8	1.5	2.0	1.5	1.0	2.0	1.0	1.7	1.6
S02-20333RR	3.0	2.0	2.0	1.0	1.0	2.0	2.0	1.5	1.5
S02-3934RR	2.8	2.0	2.0	1.0	1.0	2.0	1.5	1.5	1.5
S02-3982RR	2.8	2.0	2.0	1.5	1.0	2.0	1.0	1.2	1.5
TN02-064-RR	3.0	2.0	2.0	2.0	1.0	2.0	1.0	1.4	1.7
TN02-131-RR	3.0	2.0	2.0	2.0	1.0	2.0	1.5	1.5	1.7
TN02-134-RR	2.5	2.5	2.0	1.5	1.0	2.0	1.5	1.5	1.6
TN02-241	2.8	1.5	2.0	1.0	1.0	2.0	1.0	1.2	1.4
TN02-283	3.8	1.5	2.0	1.5	1.0	2.0	2.0	1.8	1.7
TX 75603	3.0	1.0	2.0	1.5	1.5	2.0	1.5	1.4	1.7
V00-1242	2.5	1.5	2.0	1.0	1.0	2.0	1.0	1.8	1.6
V00-1630	3.0	1.5	2.0	1.5	1.0	2.0	1.0	1.5	1.6
V00-2142	2.5	2.5	2.0	1.5	1.0	2.0	2.0	1.8	1.7
V01-0752RR	2.8	2.0	2.0	1.5	1.0	2.0	1.0	1.6	1.6
V01-1175RR	2.5	2.0	2.0	1.5	1.0	2.0	1.0	1.8	1.7
Owen	4.0	2.5	3.0	2.0	2.0	2.0	.	2.5	2.3

\*Data not included in mean

## **UNIFORM GROUP VI**

**2004**

**Uniform Group VI nurseries were planted at 20 locations. Data were obtained from 19 of the locations. The parentage for each strain is reported in Table 44. Table 45 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 46 - 51.**

**TABLE 44 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2004**

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. DILLON	Centennial x Young	
2. BOGGS RR	(G81-152 x Coker 6738) x RR	
3. NC-ROY	Holladay x Brim	
4. Au99-1849	SC91-2007 x Au90-585	
5. Au99-2006	SC91-2007 x Au90-585	
6. NTCPPR-01-163	Dillon x Tamahikari	
7. R96-1559	A6297 x A5403	
8. R97-1801	Manokin x A6297	
9. R98-209	A6297 x Clifford	
10. R99-1888	Md 92-5769 x Pioneer P9641	
11. R99-541	KY88-4080 x G89-2223	
12. SC00-1741	Dillon x N94-199	F5
13. VS20-394	(PI 159319 x Essex (2) x (L76-0132 x Essex(2)	F6
14. VS20-402	(PI 159319 x Essex (2) x (L76-0132 x Essex(2)	F6
15. VS20-405	(PI 96089 x Essex (2) x (L76-0132 x Essex(2)	F6
16. VS21-441	Hutcheson x VS94-11	F6
17. VS21-443	Hutcheson x VS94-11	F6
18. VS21-449	VS94-18 x Hutcheson	F6

**TABLE 45 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2004**

STRAIN/ VARIETY	RANK	AVERAGE RANK	YIELD*			PROTEIN			OIL		
			2004	03-04	02-04	2004	03-04	02-04	2004	03-04	02-04
DILLON	8	8	44.3	45.6	43.7	41.3	41.5	41.9	19.6	19.5	19.6
BOGGS RR	10	10	41.9	.	.	41.2	.	.	19.7	.	.
NC-ROY	9	8	43.9	46.0	44.1	41.3	42.1	42.0	19.0	18.8	18.9
Au99-1849	15	13	37.7	.	.	41.7	.	.	18.7	.	.
Au99-2006	14	12	37.9	.	.	40.7	.	.	19.4	.	.
NTCPPR-01-163	6	7	45.2	.	.	40.6	.	.	19.9	.	.
R96-1559	2	6	47.7	47.4	44.7	39.9	40.1	40.2	19.3	19.3	19.5
R97-1801	4	6	46.7	46.3	43.8	39.3	39.5	39.4	20.0	19.9	20.4
R98-209	1	3	49.4	48.8	.	40.1	40.5	.	19.7	19.6	.
R99-1888	7	8	44.6	45.5	.	39.1	39.1	.	20.0	20.2	.
R99-541	5	7	45.7	.	.	41.1	.	.	19.5	.	.
SC00-1741	11	10	41.6	42.7	.	43.0	43.1	.	19.5	19.6	.
VS20-394	12	11	40.4	42.5	.	41.3	41.4	.	19.6	19.4	.
VS20-402	18	15	34.8	36.8	.	43.0	43.3	.	18.4	18.6	.
VS20-405	17	15	35.5	36.8	.	39.0	41.5	.	19.0	18.9	.
VS21-441	16	13	36.7	.	.	40.1	.	.	18.4	.	.
VS21-443	3	6	46.8	.	.	40.0	.	.	19.5	.	.
VS21-449	13	13	39.0	.	.	40.7	.	.	19.5	.	.

\*Data not included in mean: **2004 - Beaumont, TX**  
**2003 - Rohwer, AR; Tallassee, AL**  
**2002 - Belle Mina, AL; Tallassee, AL**

TABLE 45 ~ Continued

BOTANICAL TRAITS								
STRAIN/ VARIETY	MAT. INDEX	LOGGING	HEIGHT	SEED QUALITY	SEED SIZE	FL COLOR	PUB. COLOR	POD COLOR
Dillon	10/08	1.9	33	1.5	14.5			
Boggs RR	4+	3.4	32	1.6	11.5			
NC-ROY	4+	2.5	34	1.6	12.7			
Au99-1849	3+	2.0	28	1.5	11.7			
Au99-2006	6+	2.5	31	1.7	13.0			
NTCPPR-01-163	2+	1.9	34	1.6	14.2			
R96-1559	2+	1.8	34	1.9	12.2			
R97-1801	0	2.0	29	1.7	11.8			
R98-209	2+	2.1	34	2.0	13.6			
R99-1888	2-	2.7	31	1.9	15.7			
R99-541	1+	2.4	29	1.7	14.3			
SC00-1741	10+	2.2	36	1.6	14.5	P	G	T
VS20-394	6+	2.3	35	1.9	14.2	P	T	T
VS20-402	4+	2.3	32	1.6	10.6	W	G	T
VS20-405	4+	2.7	33	1.6	10.7	W	G	T
VS21-441	5+	3.6	43	1.9	14.4	W	T	T
VS21-443	5-	2.0	29	1.8	14.5	W	G	T
VS21-449	2-	1.8	28	2.0	16.7	P	G	T

TABLE 45 ~ Continued

STRAIN/ VARIETY	PEST REACTIONS				
	SCN 2	SCN 3	M. A. GA	M. I. GA	SMV
Dillon	5.0	5.0	5.0	2.3	R
Boggs RR	4.0	1.0	1.5	1.5	S
NC-ROY	5.0	5.0	5.0	5.0	R
Au99-1849	5.0	3.0	5.0	3.0	R
Au99-2006	5.0	3.0	4.8	1.8	R
NTCPPR-01-163	5.0	5.0	4.0	1.3	R
R96-1559	5.0	5.0	5.0	5.0	S
R97-1801	5.0	1.0	5.0	5.0	S
R98-209	5.0	5.0	4.3	5.0	S
R99-1888	5.0	5.0	5.0	5.0	S
R99-541	5.0	5.0	4.3	5.0	M
SC00-1741	5.0	5.0	5.0	4.5	R
VS20-394	5.0	4.0	5.0	4.3	R
VS20-402	5.0	5.0	5.0	5.0	S
VS20-405	5.0	5.0	5.0	5.0	S
VS21-441	5.0	5.0	5.0	5.0	R
VS21-443	5.0	5.0	4.5	5.0	R
VS21-449	5.0	5.0	4.3	5.0	R



**TABLE 46 ~ SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2004**

STRAIN/ VARIETY	EAST			MEAN
	FLORENCE SC	PETERSBURG VA	WARSAW VA	
DILLON	31.6	47.4	50.8	43.3
BOGGS RR	27.3	57.7	48.6	44.5
NC-ROY	45.9	39.9	54.1	46.6
Au99-1849	17.1	42.4	45.4	35.0
Au99-2006	25.2	33.2	51.4	36.6
NTCPPR-01-163	39.9	47.4	50.9	46.1
R96-1559	34.4	45.5	50.4	43.4
R97-1801	31.2	41.8	51.5	41.5
R98-209	36.4	42.3	57.3	45.3
R99-1888	44.1	34.5	49.5	42.7
R99-541	26.1	49.6	60.3	45.3
SC00-1741	41.4	57.0	50.6	49.7
VS20-394	33.7	32.1	53.3	39.7
VS20-402	33.9	26.3	50.7	37.0
VS20-405	26.9	29.7	50.4	35.7
VS21-441	31.6	44.3	49.3	41.8
VS21-443	27.8	49.3	52.9	43.3
VS21-449	31.1	36.8	43.7	37.2
L. S. D. (0.05)	7.5	12.3	4.8	.
C. V. (%)	14.0	17.6	5.7	.

TABLE 46 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA(A)	BELLE MINA AL	BLACKVILLE SC(A)	CALHOUN GA	FAIRHOPE AL	STARKVILLE MS	SUFFOLK VA	TALLASSEE AL(A)	TIFTON GA	MEAN
DILLON	50.6	37.2	45.3	39.9	47.4	19.7	59.6	30.4	48.6	42.1
BOGGS RR	33.9	24.2	41.3	41.9	38.1	24.0	57.5	35.7	51.0	38.6
NC-ROY	56.1	31.2	50.0	42.2	48.7	19.6	67.9	27.8	41.1	42.7
Au99-1849	43.5	37.5	37.2	31.0	38.4	14.9	53.1	31.6	46.4	37.1
Au99-2006	48.6	33.3	38.1	38.8	36.8	19.5	46.4	28.9	51.3	37.9
NTPPR-01-163	54.1	28.7	40.2	42.3	43.8	23.8	51.9	27.1	56.2	40.9
R96-1559	48.6	35.7	44.5	43.0	50.3	23.5	57.2	44.7	48.9	44.0
R97-1801	55.3	32.4	43.0	45.6	51.4	24.8	59.4	38.9	53.5	44.9
R98-209	52.5	33.0	51.1	50.8	53.7	25.2	65.0	49.3	61.4	49.1
R99-1888	52.0	26.9	41.2	41.5	45.7	24.6	62.6	22.7	57.1	41.6
R99-541	48.6	32.1	35.4	42.1	47.2	25.8	62.8	31.1	47.3	41.4
SC00-1741	39.8	24.8	41.8	45.7	43.2	18.3	60.4	24.8	49.1	38.7
VS20-394	46.0	23.0	37.3	36.9	47.0	23.9	62.2	41.7	44.6	40.3
VS20-402	40.2	13.3	37.9	34.4	30.1	.	46.1	18.9	45.2	33.3
VS20-405	44.6	13.6	39.0	30.1	31.9	.	45.8	20.1	44.0	33.6
VS21-441	46.7	20.6	34.6	27.6	39.9	24.5	55.1	25.4	44.7	35.5
VS21-443	49.3	33.0	38.6	44.3	51.4	14.6	61.2	35.8	56.0	42.7
VS21-449	43.4	25.7	34.6	37.1	48.9	15.6	49.7	22.1	45.9	35.9
L. S. D. (0.05)	9.2	5.0	8.1	8.1	5.0	5.9	10.4	7.2	10.3	.
C. V. (%)	11.7	10.7	12.0	12.2	6.8	17.0	10.9	13.8	12.5	.

TABLE 46 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PINE TREE AR	ROHWER AR	STONEVILLE MS	
DILLON	60.6	44.8	50.4	51.9
BOGGS RR	55.9	49.2	41.8	49.0
NC-ROY	51.7	54.0	28.3	44.7
Au99-1849	47.8	36.1	42.5	42.1
Au99-2006	40.6	39.8	37.3	39.2
NTCPPR-01-163	61.1	56.4	54.1	57.2
R96-1559	66.5	64.5	57.7	62.9
R97-1801	63.8	57.3	50.3	57.2
R98-209	66.6	66.2	30.0	54.3
R99-1888	60.5	61.5	45.0	55.7
R99-541	63.1	53.9	60.1	59.0
SC00-1741	47.3	38.5	.	42.9
VS20-394	57.8	37.0	29.0	41.3
VS20-402	43.9	32.0	.	38.0
VS20-405	49.1	36.3	.	42.7
VS21-441	46.4	44.0	16.3	35.6
VS21-443	64.5	55.6	67.0	62.4
VS21-449	54.7	43.4	51.8	50.0
L. S. D. (0.05)	9.9	8.5	6.3	.
C. V. (%)	10.7	10.5	8.5	.

**TABLE 47 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2004****OIL PERCENTAGES**

STRAIN/ VARIETY	ATHENS GA(A)	BLACKVILLE SC(A)	CALHOUN GA	FAIRHOPE AL	FLORENCE SC	PETERSBURG VA	PINE TREE AR	STONEVILLE MS	SUFFOLK VA	TALLASSEE AL(A)	TIFTON GA	WARSAW VA	MEAN
DILLON	19.1	19.6	.	19.0	20.5	.	.	.	.	20.6	.	18.7	19.6
BOGGS RR	20.4	19.9	.	19.4	21.5	.	.	.	.	18.9	.	18.0	19.7
NC-ROY	19.0	19.5	.	19.2	19.8	.	.	.	.	18.0	.	18.7	19.0
Au99-1849	18.1	19.2	.	18.0	20.2	.	.	.	.	18.5	.	18.0	18.7
Au99-2006	19.5	19.3	.	19.2	21.4	.	.	.	.	18.7	.	18.0	19.4
NTCPPR-01-163	20.7	19.9	.	18.9	20.3	.	.	.	.	21.2	.	18.4	19.9
R96-1559	19.3	19.6	.	19.0	20.4	.	.	.	.	19.4	.	18.0	19.3
R97-1801	19.3	20.4	.	20.1	20.1	.	.	.	.	21.6	.	18.7	20.0
R98-209	19.6	18.8	.	19.6	21.2	.	.	.	.	19.8	.	19.1	19.7
R99-1888	18.8	20.8	.	20.6	20.8	.	.	.	.	20.6	.	18.4	20.0
R99-541	19.2	18.6	.	20.1	20.5	.	.	.	.	19.5	.	18.9	19.5
SC00-1741	19.7	20.4	.	19.3	19.9	.	.	.	.	19.2	.	18.6	19.5
VS20-394	19.3	19.3	.	19.1	20.5	.	.	.	.	19.7	.	19.4	19.6
VS20-402	18.0	19.5	.	18.0	18.8	.	.	.	.	18.4	.	17.7	18.4
VS20-405	19.3	18.8	.	19.5	19.7	.	.	.	.	17.9	.	18.8	19.0
VS21-441	18.6	18.0	.	18.2	19.2	.	.	.	.	18.3	.	17.8	18.4
VS21-443	18.8	20.0	.	20.3	20.0	.	.	.	.	18.8	.	18.9	19.5
VS21-449	18.3	19.7	.	19.8	20.4	.	.	.	.	20.5	.	18.2	19.5

TABLE 47 ~ Continued

PROTEIN PERCENTAGES													
STRAIN/ VARIETY	ATHENS GA(A)	BLACKVILLE SC(A)	CALHOUN GA	FAIRHOPE AL	FLORENCE SC	PETERSBURG VA	PINE TREE AR	STONEVILLE MS	SUFFOLK VA	TALLASSEE AL(A)	TIFTON GA	WARSAW VA	MEAN
DILLON	39.6	41.5	.	42.8	38.8	.	.	.	.	42.7	.	42.1	41.3
BOGGS RR	38.4	42.4	.	45.5	36.1	.	.	.	.	43.0	.	42.0	41.2
NC-ROY	39.4	40.8	.	41.3	39.3	.	.	.	.	45.0	.	41.9	41.3
Au99-1849	41.4	41.6	.	44.2	36.9	.	.	.	.	43.4	.	42.8	41.7
Au99-2006	39.8	39.7	.	42.9	38.3	.	.	.	.	45.5	.	38.2	40.7
NTCPPR-01-163	37.9	40.9	.	43.2	38.6	.	.	.	.	41.6	.	41.4	40.6
R96-1559	38.1	39.4	.	41.1	37.8	.	.	.	.	41.6	.	41.6	39.9
R97-1801	37.8	38.5	.	41.1	38.2	.	.	.	.	40.7	.	39.7	39.3
R98-209	38.3	39.1	.	42.0	38.6	.	.	.	.	41.5	.	41.1	40.1
R99-1888	39.1	38.5	.	39.9	35.3	.	.	.	.	41.1	.	40.6	39.1
R99-541	39.7	41.2	.	42.2	37.8	.	.	.	.	44.1	.	41.4	41.1
SC00-1741	40.9	41.7	.	45.2	41.2	.	.	.	.	44.4	.	44.3	43.0
VS20-394	39.8	41.4	.	43.2	39.2	.	.	.	.	42.7	.	41.5	41.3
VS20-402	42.5	42.9	.	45.5	39.9	.	.	.	.	44.0	.	43.4	43.0
VS20-405	39.8	26.2	.	41.8	38.2	.	.	.	.	45.6	.	42.3	39.0
VS21-441	38.3	40.2	.	41.8	38.1	.	.	.	.	41.5	.	40.9	40.1
VS21-443	39.5	39.3	.	41.0	38.0	.	.	.	.	41.2	.	40.9	40.0
VS21-449	40.1	40.5	.	41.7	38.3	.	.	.	.	43.2	.	40.4	40.7

TABLE 47 ~ Continued

## GRAMS PER 100 SEED

STRAIN/ VARIETY	ATHENS GA(A)	BLACKVILLE SC(A)	CALHOUN GA	FAIRHOPE AL	FLORENCE SC	PETERSBURG VA	PINE TREE AR	STONEVILLE MS	SUFFOLK VA	TALLASSEE AL(A)	TIFTON GA	WARSAW VA	MEAN
DI LLON	15.2	15.9	15.6	14.4	13.0	16.4	14.4	12.0	15.9	13.1	13.2	14.7	14.5
BOGGS RR	11.7	12.0	14.0	9.8	10.5	13.8	11.6	8.9	12.0	10.1	10.9	12.5	11.5
NC-ROY	13.0	14.2	14.4	12.0	13.5	13.4	12.4	9.1	14.0	11.0	12.4	13.0	12.7
Au99-1849	11.6	13.7	13.7	11.3	9.7	12.9	11.8	9.6	12.3	11.1	11.4	11.6	11.7
Au99-2006	11.6	15.8	14.9	12.0	12.1	15.0	12.5	10.0	13.6	12.0	13.1	13.7	13.0
NTCPPR-01-163	14.8	15.2	15.4	14.1	14.9	16.8	12.0	11.9	15.2	12.4	13.4	14.7	14.2
R96-1559	11.4	12.8	13.0	12.1	12.0	14.0	10.4	11.5	13.1	11.9	11.2	12.6	12.2
R97-1801	11.4	12.8	12.2	11.3	11.7	12.6	12.2	10.4	11.7	11.6	11.2	12.2	11.8
R98-209	13.0	15.0	14.6	13.7	14.9	14.4	12.6	8.9	14.7	13.4	13.3	14.7	13.6
R99-1888	16.2	18.1	17.2	16.5	15.9	14.7	14.8	11.9	17.4	15.1	15.3	15.6	15.7
R99-541	13.6	18.0	15.7	14.2	12.5	15.7	13.7	13.0	15.1	12.9	13.2	14.3	14.3
SC00-1741	12.6	16.3	17.5	13.9	15.9	16.0	13.8	10.0	15.0	12.1	14.4	16.0	14.5
VS20-394	13.8	16.2	15.9	13.7	15.3	13.7	12.9	10.0	16.1	13.8	13.4	15.9	14.2
VS20-402	10.3	12.6	13.6	9.5	9.9	10.2	11.0	6.8	11.7	9.1	11.3	11.8	10.6
VS20-405	11.8	12.5	13.3	10.0	9.7	10.7	10.6	6.8	11.5	9.5	10.0	12.0	10.7
VS21-441	15.0	16.5	16.8	13.8	14.3	16.2	13.2	8.1	14.9	12.8	15.0	15.8	14.4
VS21-443	16.0	16.1	16.1	13.0	12.5	14.4	12.5	15.3	15.3	15.4	12.8	14.2	14.5
VS21-449	17.3	18.5	19.0	16.1	16.2	15.9	14.1	15.3	17.8	18.2	16.5	16.0	16.7

**TABLE 48 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN DILLON, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2004**

**EAST**

STRAIN/ VARIETY	FLORENCE	PETERSBURG	WARSAW	MEAN
	SC	VA	VA	
DILLON	10/13	10/21	10/20	10/18
BOGGS RR	-1	11	7	6
NC-ROY	4	5	1	3
Au99-1849	-3	9	-1	2
Au99-2006	1	11	7	6
NTCPPR-01-163	1	5	2	3
R96-1559	-1	7	2	3
R97-1801	-3	-8	0	-3
R98-209	3	4	2	3
R99-1888	0	-8	-3	-4
R99-541	0	4	-1	1
SC00-1741	11	11	13	11
VS20-394	4	6	6	6
VS20-402	0	2	7	3
VS20-405	-1	5	8	4
VS21-441	5	11	3	6
VS21-443	-5	-8	-11	-8
VS21-449	-2	-10	-6	-6

TABLE 48 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA (A)	BELLE MINA AL	BLACKVILLE SC (A)	CALHOUN GA	FAIRHOPE AL	STARKVILLE MS	SUFFOLK VA	TALLASSEE AL (A)	TIFTON GA	MEAN
DILLON	10/08	10/04	10/10	10/04	10/06	.	11/03	09/29	09/27	10/08
BOGGS RR	4	4	4	0	5	.	0	4	5	3
NC-ROY	0	0	5	3	6	.	0	7	14	4
Au99-1849	-1	1	2	-3	2	.	0	4	13	2
Au99-2006	3	4	7	-2	7	.	0	7	15	5
NTCPPR-01-163	-2	0	1	-1	1	.	0	0	11	1
R96-1559	-3	0	1	-1	6	.	0	0	5	1
R97-1801	-3	-7	0	-2	4	.	0	1	6	0
R98-209	-1	-1	5	-2	8	.	0	0	9	2
R99-1888	-5	-6	2	-6	0	.	0	0	2	-2
R99-541	-3	-4	4	-4	3	.	0	0	1	-1
SC00-1741	5	11	10	12	11	.	0	10	17	9
VS20-394	1	3	5	0	8	.	0	6	16	5
VS20-402	4	0	4	0	10	.	0	4	14	4
VS20-405	3	0	5	3	10	.	0	5	14	5
VS21-441	4	-2	7	-3	7	.	0	6	15	4
VS21-443	-5	-10	-7	-8	-2	.	0	0	-5	-5
VS21-449	-3	-8	0	-4	2	.	0	1	0	-2



TABLE 48 ~ Continued

STRAIN/ VARIETY	DELTA			
	PINE TREE AR	ROHWER AR	STONEVILLE MS	MEAN
DILLON	10/12	09/30	09/19	09/30
BOGGS RR	2	5	4	4
NC-ROY	1	4	4	3
Au99-1849	-4	5	13	5
Au99-2006	-2	5	13	6
NTCPPR-01-163	-1	2	2	1
R96-1559	-1	2	4	2
R97-1801	3	6	2	4
R98-209	3	4	-10	-1
R99-1888	0	2	-9	-2
R99-541	6	-1	-1	2
SC00-1741	5	6	12	8
VS20-394	3	6	11	7
VS20-402	2	6	-3	2
VS20-405	2	7	-11	0
VS21-441	0	2	14	6
VS21-443	0	-3	-8	-3
VS21-449	1	1	-2	0

**TABLE 49 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI,  
2004**

STRAIN/ VARIETY	EAST			MEAN
	FLORENCE SC	PETERSBURG VA	WARSAW VA	
DILLON	25	42	35	34
BOGGS RR	25	45	31	34
NC-ROY	29	41	36	35
Au99-1849	19	31	30	27
Au99-2006	25	34	34	31
NTCPPR-01-163	27	43	35	35
R96-1559	27	39	36	34
R97-1801	22	34	29	28
R98-209	28	41	35	35
R99-1888	25	39	31	32
R99-541	22	36	30	29
SC00-1741	29	46	35	37
VS20-394	31	43	36	37
VS20-402	28	39	33	33
VS20-405	27	41	32	33
VS21-441	44	52	43	46
VS21-443	21	32	28	27
VS21-449	21	36	29	29

TABLE 49 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA (A)	BELLE MINA AL	BLACKVILLE SC (A)	CALHOUN GA	FAIRHOPE AL	STARKVILLE MS	SUFFOLK VA	TALLASSEE AL (A)	TIFTON GA	MEAN
DILLON	36	35	40	36	31	19	36	36	34	34
BOGGS RR	36	20	39	39	32	16	33	36	33	32
NC-ROY	39	33	40	41	29	18	39	35	25	33
Au99-1849	33	26	32	29	20	20	31	32	23	27
Au99-2006	41	28	35	38	30	20	32	32	31	32
NTCPPR-01-163	40	36	40	37	33	20	33	35	33	34
R96-1559	37	27	37	39	29	21	35	35	35	33
R97-1801	33	22	34	31	27	16	28	31	25	27
R98-209	38	30	43	34	34	17	33	35	31	33
R99-1888	37	25	38	34	30	17	31	33	29	30
R99-541	33	24	35	31	25	17	29	30	27	28
SC00-1741	44	38	40	45	32	21	40	41	33	37
VS20-394	38	34	39	40	30	21	39	39	29	34
VS20-402	37	32	36	35	32	19	31	32	27	31
VS20-405	36	32	37	37	33	18	34	31	31	32
VS21-441	53	24	49	49	47	15	43	43	41	40
VS21-443	32	28	32	31	22	28	29	28	27	29
VS21-449	32	27	33	30	24	.	26	29	23	28

TABLE 49 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PINE TREE AR	ROHWER AR	STONEVILLE MS	
DILLON	39	30	28	32
BOGGS RR	40	28	28	32
NC-ROY	41	31	26	33
Au99-1849	39	27	24	30
Au99-2006	38	29	24	30
NTCP-01-163	36	32	32	33
R96-1559	40	35	32	36
R97-1801	41	29	28	33
R98-209	41	37	34	37
R99-1888	39	27	28	31
R99-541	39	28	28	32
SC00-1741	36	30	32	33
VS20-394	40	31	30	34
VS20-402	41	31	32	35
VS20-405	40	30	36	35
VS21-441	39	46	62	49
VS21-443	40	24	26	30
VS21-449	41	20	26	29

**TABLE 50 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI,  
2004**

STRAIN/ VARIETY	EAST			MEAN
	FLORENCE SC	PETERSBURG VA	WARSAW VA	
DILLON	1.0	1.7	2.1	1.6
BOGGS RR	3.0	5.0	4.3	4.1
NC-ROY	1.3	3.7	3.3	2.8
Au99-1849	1.0	2.3	2.2	1.9
Au99-2006	1.3	3.3	2.6	2.4
NTCPPR-01-163	1.0	1.3	2.1	1.5
R96-1559	1.0	1.3	2.0	1.4
R97-1801	1.0	3.0	2.2	2.1
R98-209	1.3	2.0	2.3	1.9
R99-1888	1.7	3.7	3.4	2.9
R99-541	1.0	3.7	3.0	2.6
SC00-1741	1.7	2.3	3.2	2.4
VS20-394	1.3	3.7	3.0	2.7
VS20-402	2.3	2.3	2.8	2.5
VS20-405	2.3	3.3	2.8	2.8
VS21-441	3.0	4.7	4.2	3.9
VS21-443	1.0	2.0	3.1	2.0
VS21-449	1.0	1.3	2.7	1.7

TABLE 50 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA (A)	BELLE MINA AL	BLACKVILLE SC (A)	CALHOUN GA	STARKVILLE MS	SUFFOLK VA	TALLASSEE AL (A)	TIFTON GA	MEAN
DILLON	3.0	2.0	2.8	1.7	1.0	2.5	1.0	1.3	1.9
BOGGS RR	5.0	4.0	3.5	4.0	1.0	3.2	4.0	2.7	3.4
NC-ROY	4.0	2.0	3.8	2.0	1.0	4.2	1.0	1.7	2.5
Au99-1849	3.3	2.0	2.0	1.7	1.0	3.0	1.3	1.3	2.0
Au99-2006	4.0	2.7	3.0	3.3	1.0	4.0	2.0	1.7	2.7
NTCPPR-01-163	3.7	2.0	3.7	1.3	1.0	2.5	1.0	1.3	2.1
R96-1559	3.0	2.7	2.3	1.3	1.0	2.3	1.0	1.3	1.9
R97-1801	3.0	3.0	2.7	2.0	1.0	2.2	1.0	1.0	2.0
R98-209	3.0	2.3	3.3	2.7	1.0	2.5	1.0	1.3	2.1
R99-1888	3.7	3.0	3.3	2.3	1.0	3.3	2.3	1.7	2.6
R99-541	4.0	2.7	3.8	2.0	1.0	2.5	1.7	1.7	2.4
SC00-1741	3.3	2.0	3.2	2.0	1.0	3.3	1.0	1.7	2.2
VS20-394	3.7	2.0	3.5	1.3	1.0	3.5	1.3	1.0	2.2
VS20-402	4.0	2.3	3.3	2.0	1.0	3.2	1.3	1.3	2.3
VS20-405	4.0	2.3	4.2	2.0	1.0	3.8	1.3	2.3	2.6
VS21-441	4.3	3.7	4.8	3.7	1.0	4.5	2.0	3.0	3.4
VS21-443	3.7	2.0	1.7	2.0	1.0	2.8	1.0	1.0	1.9
VS21-449	2.7	1.7	2.2	1.3	.	1.8	1.0	1.0	1.7

TABLE 50 ~ Continued

STRAIN/ VARIETY	DELTA		MEAN
	PINE TREE AR	STONEVILLE MS	
DILLON	3.0	2.0	2.5
BOGGS RR	2.2	2.0	2.1
NC-ROY	2.7	2.0	2.3
Au99-1849	2.3	2.0	2.2
Au99-2006	1.8	2.0	1.9
NTCPPR-01-163	2.2	2.0	2.1
R96-1559	2.7	2.0	2.3
R97-1801	2.2	2.0	2.1
R98-209	2.5	2.0	2.3
R99-1888	3.2	2.0	2.6
R99-541	2.2	2.0	2.1
SC00-1741	2.0	2.0	2.0
VS20-394	2.3	2.0	2.2
VS20-402	2.3	2.0	2.2
VS20-405	3.2	2.0	2.6
VS21-441	3.3	5.0	4.2
VS21-443	3.0	2.0	2.5
VS21-449	2.5	2.0	2.3

**TABLE 51~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI,  
2004****EAST**

STRAIN/ VARIETY	PETERSBURG		WARSAW		MEAN
	VA		VA		
DILLON	1.0		1.2		1.1
BOGGS RR	2.3		1.2		1.8
NC-ROY	1.0		1.6		1.3
Au99-1849	1.3		1.5		1.4
Au99-2006	1.7		1.8		1.7
NTCPPr-01-163	1.0		1.2		1.1
R96-1559	2.0		1.5		1.8
R97-1801	2.0		1.3		1.7
R98-209	2.0		1.5		1.8
R99-1888	2.3		1.5		1.9
R99-541	1.3		1.4		1.4
SC00-1741	2.3		1.3		1.8
VS20-394	2.7		1.5		2.1
VS20-402	2.0		1.3		1.7
VS20-405	1.3		1.5		1.4
VS21-441	2.3		1.8		2.1
VS21-443	1.0		1.7		1.3
VS21-449	1.7		1.9		1.8



TABLE 51 ~ Continued

STRAIN/ VARIETY	SOUTH						MEAN
	ATHENS GA(A)	CALHOUN GA	FAIRHOPE AL	SUFFOLK VA	TALLASSEE AL(A)	TIFTON GA	
DILLON	2.0	1.8	1.5	1.0	1.5	1.0	1.5
BOGGS RR	1.7	1.5	1.3	1.0	1.5	1.0	1.3
NC-ROY	1.8	1.7	1.5	1.3	1.5	1.2	1.5
Au99-1849	1.8	1.7	1.3	1.0	1.5	1.2	1.4
Au99-2006	2.0	1.8	1.5	1.0	1.5	1.2	1.5
NTCP-01-163	2.0	1.7	1.3	1.0	1.7	1.0	1.4
R96-1559	2.3	2.8	1.5	1.0	2.0	1.3	1.8
R97-1801	2.3	2.2	1.2	1.0	1.7	1.3	1.6
R98-209	2.3	2.3	1.5	2.0	1.7	2.0	2.0
R99-1888	2.2	2.3	1.5	1.7	2.0	1.0	1.8
R99-541	1.8	1.5	1.5	1.7	1.5	1.3	1.6
SC00-1741	1.5	1.3	1.5	1.0	1.5	1.5	1.4
VS20-394	2.0	2.0	1.3	1.7	1.7	1.7	1.7
VS20-402	2.0	1.5	1.2	1.0	1.5	1.2	1.4
VS20-405	2.0	1.5	1.2	1.0	1.5	1.5	1.4
VS21-441	1.7	1.8	1.5	2.0	1.7	2.0	1.8
VS21-443	1.7	3.3	1.2	1.0	1.7	2.0	1.8
VS21-449	2.2	3.3	1.3	1.3	1.7	2.0	2.0

TABLE 51 ~ Continued

STRAIN/ VARIETY	DELTA		MEAN
	PINE TREE AR	STONEVILLE MS	
DILLON	1.0	3.0	2.0
BOGGS RR	2.0	2.0	2.0
NC-ROY	2.5	2.0	2.3
Au99-1849	2.0	2.0	2.0
Au99-2006	2.0	3.0	2.5
NTCPPR-01-163	2.0	3.0	2.5
R96-1559	1.0	3.0	2.0
R97-1801	1.5	3.0	2.3
R98-209	1.5	3.0	2.3
R99-1888	1.5	3.0	2.3
R99-541	1.5	3.0	2.3
SC00-1741	1.5	3.0	2.3
VS20-394	1.5	3.0	2.3
VS20-402	1.5	3.0	2.3
VS20-405	1.5	3.0	2.3
VS21-441	1.5	3.0	2.3
VS21-443	1.5	3.0	2.3
VS21-449	1.5	3.0	2.3

**PRELIMINARY GROUP VI****2004**

**Preliminary Group VI nurseries were planted at 9 locations. Data were obtained from 8 of the locations. The parentage for each strain is reported in Table 52. Table 53 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 54 - 60.**

**TABLE 52 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI,  
2004**

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. DILLON	Centennial x Young	
2. BOGGS RR	(G81-152 x Coker 6738) x RR	
3. NC-ROY	Holladay x Brim	
4. Au00-027	R92-1258 x Au92-763	
5. Au00-058	R92-1258 x Au92-763	
6. Au00-1540	N93-132 x SC93-2082	
7. Au00-505	N94-3405 x N94-537	
8. G03-614RR	G95-346 x H7242 RR	F5d
9. N01-10974	N6201 X N95-7390	
10. NCC02-123-RR	Md 94-5396 x (TN95-53 x MONSANTO RR)	
11. NCC02-307	Anand x Md 94-5396	
12. NCC02-317	TN93-142-17 x FOWLER	
13. NCC02-329	TN93-99 x Anand	
14. NCC02-340	V92-0254 x FOWLER	
15. NTCPR01-42	DR-1 x Brim	
16. R00-654	Md 92-5769 x N90-541	
17. R01-2195	HBK 5990 x R96-2361	
18. R01-2346	V91-3036 x HBK 5990	
19. R01-2731F	Caviness x PI 592947	
20. R97-818	Hutcheson x A5885	
21. SC01-173	SC91-1791 x SC95-96	F5
22. SC01-669RR	Dillon x [Dillon x (Musen x BC1ResnikRR)]	F5
23. SC01-698RR	Musen x [SC89-147 x (Musen x BC1ResnikRR)]	F5
24. SC01-778RR	Musen x {SC92-2482 x [Bennig x (Hagood x BC1Resnik)]}	F5
25. VS22-451	Akiyoshi x VS95-76	F6
26. VS22-513	Essex x Forrest	F6
27. VS22-518	Essex x Forrest	F6
28. VS22-523	Forrest x Essex	F6
29. VS22-524	Forrest x Essex	F6
30. VS22-577	PI 416937 x Forrest	F6
31. Asmara	PI 417288 x (T135 x PI 83945-4)	
32. Derry	[(Wilson (6) x Forrest) x (Perry x (Williams x PI 229358))] x Tracy M	
33. Randolph	PI 417288 x (T135 x PI 83945-4)	

**TABLE 53 ~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2004 ~ MEAN OF 6 LOCATIONS**

STRAIN/ VARIETY	SEED	AVG.	MAT.	INDEX	LODGING	HEIGHT	QUALITY	SEED	----PERCENT----		SCN	SCN	FL	PUB.	POD
	YIELD	RANK	RANK					SIZE	PROTEIN	OIL	2	3	COLOR	COLOR	COLOR
DILLON	46.4	15	8	10/05	1.9	34	1.7	14.0	42.9	20.6	5.0	5.0			
BOGGS RR	47.4	11	7	6+	3.4	34	1.6	11.1	43.4+	20.3-	5.0	1.0			
NC-ROY	46.5	14	8	5+	2.0	35	2.1	11.2	45.1+	18.3-	5.0	5.0			
Au00-027	52.2	5	5	7+	2.1	36	1.7	12.5	40.5-	21.3+	5.0	5.0			
Au00-058	44.2	18	8	7+	2.1	37	1.9	11.8	43.8+	19.2-	5.0	5.0			
Au00-1540	36.6	29	12	6+	2.1	34	2.2	11.2	40.4-	20.5-	4.0	5.0			
Au00-505	37.1	28	11	4+	2.4	36	2.2	10.3	42.6-	18.5-	5.0	5.0			
G03-614RR	47.0	12	7	8+	2.1	35	1.9	12.5	43.4+	18.5-	5.0	5.0	P	T	T
N01-10974	46.7	13	7	4+	1.9	36	2.0	19.4	49.3+	19.1-	5.0	5.0			
NCC02-123-RR	39.3	20	11	1-	2.4	37	2.1	12.4	40.7-	21.3+	5.0	5.0			
NCC02-307	56.2	1	4	2-	1.6	34	2.1	14.8	41.9-	20.1-	4.0	4.0			
NCC02-317	55.7	2	4	0	1.8	32	2.1	16.6	42.4-	18.8-	5.0	2.0			
NCC02-329	50.0	8	6	4+	1.8	30	2.2	13.2	43.4+	20.4-	5.0	5.0			
NCC02-340	48.9	10	7	2-	1.9	31	1.9	15.6	40.7-	20.5-	5.0	5.0			
NTCPR01-42	43.3	19	9	6+	1.9	33	2.1	12.9	44.1+	18.4-	4.0	5.0			
R00-654	52.1	6	6	4-	1.6	31	2.1	15.8	42.9-	21.2+	5.0	5.0			
R01-2195	51.2	7	7	4-	1.9	32	2.1	16.6	45.2+	19.3-	5.0	5.0			
R01-2346	52.6	4	5	1-	2.1	32	1.7	14.1	43.2+	19.6-	5.0	4.0			
R01-2731F	49.1	9	8	2-	1.9	33	2.1	13.8	43.1+	20.7+	5.0	5.0			
R97-818	53.6	3	5	3-	1.8	33	2.2	16.0	43.3+	20.3-	5.0	5.0			
SC01-173	37.2	27	11	5+	1.8	37	2.3	13.1	51.6+	17.0-	5.0	4.0	W	T	T
SC01-669RR	36.4	30	11	3+	2.3	37	2.1	10.4	40.8-	20.4-	5.0	4.0	P	G	T
SC01-698RR	29.6-	31	15	8+	2.9	35	2.2	9.5	44.8+	18.3-	5.0	4.0	W	G	T
SC01-778RR	39.1	21	11	10+	2.3	35	1.9	9.9	42.7-	20.0-	5.0	4.0	W	G	T
VS22-451	37.3	26	11	6-	1.8	33	2.3	12.2	43.9+	21.4+	5.0	2.0	W	T	
VS22-513	39.0	22	11	6-	1.9	31	2.3	12.3	43.3+	20.2-	5.0	2.0	W	T	
VS22-518	38.1	24	11	6-	1.8	34	2.7	12.5	42.2-	21.2+	5.0	1.0	W	T	
VS22-523	44.8	17	8	5-	1.7	33	2.3	12.7	43.7+	20.6-	5.0	4.0	W	G	
VS22-524	45.8	16	8	6-	1.9	33	2.2	12.3	43.5+	21.0+	5.0	2.0	W	G	
VS22-577	38.8	23	11	6-	2.0	32	2.3	11.8	40.1-	22.0+	5.0	2.0	W	T	
Asmara	37.4	25	12	2+	1.8	31	2.5	17.4	43.8+	18.7-	5.0	5.0			
Derry	29.1-	32	14	0	2.8	51	2.1	12.6	44.2+	20.3-	5.0	5.0			
Randol ph	26.3-	33	16	3+	2.2	30	2.1	20.1	47.9+	17.6-	5.0	5.0			
OVERALL MEAN	43.5								43.5	19.9					
LSD (.05)	10.5								0.0	0.0					
C. V.	19%								0%	0%					

**TABLE 54 ~ SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2004**

STRAIN/ VARIETY	BEAUMONT* TX	PETERSBURG VA	PINE TREE AR	ROHWER AR	STONEVILLE MS	TALLASSEE A(A)	MEAN
DILLON	26.2	42.6	60.6	47.1	47.2	34.3	46.4
BOGGS RR	36.8+	58.1+	44.1-	47.3	42.5	45.1+	47.4
NC-ROY	43.5+	53.4	57.9	57.2	35.6-	28.2	46.5
Au00-027	32.1+	48.3	59.1	64.7+	49.6	39.0	52.2
Au00-058	40.7+	54.3	50.6	54.2	37.7	24.5-	44.2
Au00-1540	26.3+	39.2	46.1-	36.4	32.6-	28.5	36.6
Au00-505	37.5+	42.5	56.0	44.4	12.1-	30.5	37.1
G03-614RR	27.9+	53.4	56.0	47.4	38.5	39.8	47.0
N01-10974	35.6+	44.3	56.0	57.8	47.5	27.8	46.7
NCC02-123-RR	28.7+	27.5-	55.9	38.5	33.8-	40.7	39.3
NCC02-307	36.3+	43.1	67.2	59.8+	61.0+	50.1+	56.2
NCC02-317	27.8+	40.9	73.3+	62.9+	50.9	50.4+	55.7
NCC02-329	43.4+	49.5	65.2	59.2+	45.3	30.8	50.0
NCC02-340	39.4+	34.1	65.4	54.0	50.0	41.1	48.9
NTCPR01-42	34.1+	39.0	60.9	56.6	34.7-	25.3	43.3
R00-654	35.2+	48.7	70.8	62.2+	42.1	36.4	52.1
R01-2195	44.9+	34.9	71.1+	65.3+	47.9	37.0	51.2
R01-2346	34.1+	38.6	65.5	60.2+	51.8	46.8+	52.6
R01-2731F	22.9-	36.4	71.2+	60.2+	45.9	31.6	49.1
R97-818	39.4+	47.0	64.7	65.2+	50.6	40.3	53.6
SC01-173	20.3-	35.5	54.1	50.9	16.8-	28.5	37.2
SC01-669RR	29.2+	40.2	67.4	24.5-	8.6-	41.1	36.4
SC01-698RR	22.4-	27.3-	39.8-	30.3-	17.3-	33.4	29.6-
SC01-778RR	37.3+	35.6	58.8	46.3	22.2-	32.7	39.1
VS22-451	25.2-	47.9	53.8	31.6-	15.9-	37.6	37.3
VS22-513	40.0+	43.5	59.2	34.4-	22.0-	36.1	39.0
VS22-518	41.7+	48.9	55.4	33.1-	16.2-	36.9	38.1
VS22-523	27.3+	49.2	56.8	43.0	35.9-	39.3	44.8
VS22-524	31.9+	44.7	55.9	50.6	44.0	33.9	45.8
VS22-577	36.0+	47.0	55.7	35.0-	24.8-	31.7	38.8
Asmara	15.1-		42.3-	52.6	34.0-	20.7-	37.4
Derry	22.3-		45.9-	40.8	13.7-	16.1-	29.1-
Randolph	16.7-		34.4-	35.8-	21.9-	13.3-	26.3-
L. S. D. (0.05)	0.0	14.2	10.2	11.3	10.8	9.2	10.5
C. V. (%)	0.0	15.4	8.7	14.1	14.4	13.1	19.0

\*Data not included in mean

**TABLE 55 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2004**

STRAIN/ VARIETY	TALLASSEE AL (A)
DILLON	20.6
BOGGS RR	20.3
NC-ROY	18.3
Au00-027	21.3
Au00-058	19.2
Au00-1540	20.5
Au00-505	18.5
G03-614RR	18.5
N01-10974	19.1
NCC02-123-RR	21.3
NCC02-307	20.1
NCC02-317	18.8
NCC02-329	20.4
NCC02-340	20.5
NTCPR01-42	18.4
R00-654	21.2
R01-2195	19.3
R01-2346	19.6
R01-2731F	20.7
R97-818	20.3
SC01-173	17.0
SC01-669RR	20.4
SC01-698RR	18.3
SC01-778RR	20.0
VS22-451	21.4
VS22-513	20.2
VS22-518	21.2
VS22-523	20.6
VS22-524	21.0
VS22-577	22.0
Asmara	18.7
Derry	20.3
Randolph	17.6

**TABLE 56 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2004**

STRAIN/ VARIETY	TALLASSEE AL(A)
DILLON	42.9
BOGGS RR	43.4
NC-ROY	45.1
Au00-027	40.5
Au00-058	43.8
Au00-1540	40.4
Au00-505	42.6
G03-614RR	43.4
N01-10974	49.3
NCC02-123-RR	40.7
NCC02-307	41.9
NCC02-317	42.4
NCC02-329	43.4
NCC02-340	40.7
NTCPR01-42	44.1
R00-654	42.9
R01-2195	45.2
R01-2346	43.2
R01-2731F	43.1
R97-818	43.3
SC01-173	51.6
SC01-669RR	40.8
SC01-698RR	44.8
SC01-778RR	42.7
VS22-451	43.9
VS22-513	43.3
VS22-518	42.2
VS22-523	43.7
VS22-524	43.5
VS22-577	40.1
Asmara	43.8
Derry	44.2
Randolph	47.9



**TABLE 57 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI,  
2004**

STRAIN/ VARIETY	PETERSBURG VA	PINE TREE AR	STONEVILLE MS	TALLASSEE AL(A)	MEAN
DILLON	16.5	14.2	12.0	13.4	14.0
BOGGS RR	13.3	11.0	9.1	11.0	11.1
NC-ROY	14.2	11.5	8.4	10.9	11.2
Au00-027	15.6	11.3	10.9	12.1	12.5
Au00-058	14.5	12.0	9.7	11.0	11.8
Au00-1540	13.2	12.2	9.1	10.3	11.2
Au00-505	13.2	10.5	7.5	9.9	10.3
G03-614RR	14.8	12.9	9.9	12.6	12.5
N01-10974	24.1	17.2	17.2	19.2	19.4
NCC02-123-RR	14.1	12.7	10.5	12.3	12.4
NCC02-307	14.7	14.8	13.5	16.2	14.8
NCC02-317	18.5	15.2	15.4	17.5	16.6
NCC02-329	15.4	14.0	10.6	12.8	13.2
NCC02-340	15.4	16.1	14.1	16.7	15.6
NTCPR01-42	16.1	12.5	10.6	12.4	12.9
R00-654	16.8	16.5	13.2	16.5	15.8
R01-2195	18.6	17.9	13.1	16.9	16.6
R01-2346	13.8	14.6	12.4	15.8	14.1
R01-2731F	13.8	14.0	13.6	13.9	13.8
R97-818	16.5	16.7	14.8	16.0	16.0
SC01-173	16.2	11.7	9.6	15.0	13.1
SC01-669RR	14.0	10.1	6.1	11.6	10.4
SC01-698RR	12.1	10.0	5.0	10.9	9.5
SC01-778RR	12.1	10.3	6.5	10.9	9.9
VS22-451	15.0	12.2	8.5	12.9	12.2
VS22-513	14.4	11.5	10.7	12.7	12.3
VS22-518	14.6	11.6	10.7	13.3	12.5
VS22-523	14.3	11.6	10.8	14.2	12.7
VS22-524	14.2	11.4	10.6	12.9	12.3
VS22-577	14.5	11.7	9.4	11.5	11.8
Asmara	.	13.1	19.6	19.4	17.4
Derry	.	13.0	10.7	14.1	12.6
Randolph	.	11.8	22.4	26.2	20.1

**TABLE 58 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2004**

STRAIN/ VARIETY	BEAUMONT* TX	PETERSBURG VA	PINE TREE AR	ROHWER AR	STONEVILLE MS	TALLASSEE AL (A)	MEAN
DILLON	24	42	39	27	26	38	34
BOGGS RR	24	41	40	27	28	36	34
NC-ROY	26	43	39	28	28	38	35
Au00-027	27	43	40	29	32	39	36
Au00-058	30	44	41	31	30	40	37
Au00-1540	23	40	39	29	28	36	34
Au00-505	25	49	38	30	26	38	36
G03-614RR	21	45	36	32	26	39	35
N01-10974	26	42	40	31	32	35	36
NCC02-123-RR	24	45	41	32	30	37	37
NCC02-307	22	39	41	30	26	33	34
NCC02-317	23	37	39	26	26	32	32
NCC02-329	22	31	39	27	24	29	30
NCC02-340	20	39	36	27	24	32	31
NTCPR01-42	23	38	40	30	24	33	33
R00-654	21	32	41	26	26	28	31
R01-2195	20	35	40	29	26	32	32
R01-2346	20	30	39	30	26	33	32
R01-2731F	22	35	40	30	26	35	33
R97-818	23	35	41	31	26	34	33
SC01-173	24	43	39	30	32	41	37
SC01-669RR	25	49	40	28	30	36	37
SC01-698RR	27	40	40	29	28	37	35
SC01-778RR	25	43	39	33	26	34	35
VS22-451	23	38	38	29	24	36	33
VS22-513	24	36	35	30	26	31	31
VS22-518	26	40	36	32	26	35	34
VS22-523	20	38	40	25	28	35	33
VS22-524	23	39	38	29	26	33	33
VS22-577	24	36	36	27	26	36	32
Asmara	15	.	35	30	26	33	31
Derry	55	.	36	48	64	55	51
Randolph	20	.	35	31	26	27	30

\*Data not included in mean

**TABLE 59 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2004**

STRAIN/ VARIETY	PETERSBURG VA	PINE TREE AR	STONEVILLE MS	TALLASSEE AL(A)	MEAN
DILLON	2.0	2.8	2.0	1.0	1.9
BOGGS RR	5.0	2.5	2.0	4.0	3.4
NC-ROY	2.0	3.0	2.0	1.0	2.0
Au00-027	2.5	3.0	2.0	1.0	2.1
Au00-058	2.5	2.8	2.0	1.0	2.1
Au00-1540	2.5	3.0	2.0	1.0	2.1
Au00-505	3.5	2.5	2.0	1.5	2.4
G03-614RR	3.0	2.3	2.0	1.0	2.1
N01-10974	2.5	2.3	2.0	1.0	1.9
NCC02-123-RR	4.0	2.0	2.0	1.5	2.4
NCC02-307	1.0	2.3	2.0	1.0	1.6
NCC02-317	1.0	3.3	2.0	1.0	1.8
NCC02-329	1.0	3.3	2.0	1.0	1.8
NCC02-340	1.0	3.5	2.0	1.0	1.9
NTCPR01-42	1.5	3.3	2.0	1.0	1.9
R00-654	1.0	2.3	2.0	1.0	1.6
R01-2195	2.0	2.0	2.0	1.5	1.9
R01-2346	2.5	1.8	2.0	2.0	2.1
R01-2731F	2.0	2.3	2.0	1.5	1.9
R97-818	1.5	2.5	2.0	1.0	1.8
SC01-173	2.0	2.3	2.0	1.0	1.8
SC01-669RR	3.5	2.0	2.0	1.5	2.3
SC01-698RR	4.0	2.3	2.0	3.5	2.9
SC01-778RR	2.5	2.3	2.0	2.5	2.3
VS22-451	2.0	2.0	2.0	1.0	1.8
VS22-513	3.0	1.8	2.0	1.0	1.9
VS22-518	2.5	1.5	2.0	1.0	1.8
VS22-523	2.0	1.8	2.0	1.0	1.7
VS22-524	2.5	2.3	2.0	1.0	1.9
VS22-577	2.5	2.5	2.0	1.0	2.0
Asmara	.	2.0	2.0	1.5	1.8
Derry	.	2.3	5.0	1.0	2.8
Randol ph	.	2.5	2.0	2.0	2.2

**TABLE 60 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2004**

STRAIN/ VARIETY	BEAUMONT* TX	PETERSBURG VA	PINE TREE AR	STONEVILLE MS	TALLASSEE AL (A)	MEAN
DILLON	3.3	1.0	1.3	3.0	1.5	1.7
BOGGS RR	2.0	1.0	2.0	2.0	1.5	1.6
NC-ROY	2.3	1.5	2.3	3.0	1.5	2.1
Au00-027	2.3	1.5	2.3	2.0	1.0	1.7
Au00-058	2.5	2.0	2.0	2.5	1.0	1.9
Au00-1540	3.0	2.5	2.3	2.5	1.5	2.2
Au00-505	2.0	2.0	1.8	4.0	1.0	2.2
G03-614RR	2.5	2.0	2.3	2.0	1.5	1.9
N01-10974	2.8	1.0	2.5	3.0	1.5	2.0
NCC02-123-RR	2.5	2.0	2.5	3.0	1.0	2.1
NCC02-307	2.8	3.0	2.3	2.0	1.0	2.1
NCC02-317	3.0	2.0	2.0	3.0	1.5	2.1
NCC02-329	2.3	2.5	2.3	3.0	1.0	2.2
NCC02-340	2.8	1.5	2.3	3.0	1.0	1.9
NTCPR01-42	2.0	1.5	2.5	3.0	1.5	2.1
R00-654	3.3	1.5	2.3	3.0	1.5	2.1
R01-2195	2.0	2.0	2.0	3.0	1.5	2.1
R01-2346	3.0	1.0	2.3	2.0	1.5	1.7
R01-2731F	3.3	1.5	2.3	3.0	1.5	2.1
R97-818	2.5	2.0	2.3	3.0	1.5	2.2
SC01-173	2.0	1.5	2.3	4.0	1.5	2.3
SC01-669RR	2.0	2.0	2.3	3.0	1.0	2.1
SC01-698RR	2.8	2.0	1.3	4.0	1.5	2.2
SC01-778RR	1.8	2.0	1.3	3.0	1.5	1.9
VS22-451	4.5	2.0	1.5	4.0	1.5	2.3
VS22-513	4.0	1.5	2.0	4.0	1.5	2.3
VS22-518	4.0	3.0	2.3	4.0	1.5	2.7
VS22-523	3.0	2.0	2.3	3.0	2.0	2.3
VS22-524	3.0	2.0	2.3	3.0	1.5	2.2
VS22-577	3.5	2.0	2.5	3.0	1.5	2.3
Asmara	4.0	.	2.5	3.0	2.0	2.5
Derry	3.0	.	2.3	3.0	1.0	2.1
Randol ph	3.0	.	2.3	3.0	1.1	2.1

\*Data not included in mean

## **UNIFORM GROUP VII**

**2004**

**Uniform Group VII nurseries were planted at 14 locations. Data were obtained from 13 of the locations. The parentage for each strain is reported in Table 61. Table 62 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 63 - 68.**

**TABLE 61 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2004**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	Hutcheson x Coker 6738	
2. HASKELL RR	(Johnston x Braxton) x RR	
3. G00-3209	N7001 X Boggs	F7d
4. G00-3213	N7001 X Boggs	F7d
5. G00-3322	N7001 X Boggs	F7d
6. G03-G1126RR	G93-1749(6) x RR	BC6
7. G99-2678	Pri chard x NK S75-55	F5d
8. G99-2721	Pri chard x NK S75-55	F5d
9. N00-370	Au92-916 x N90-845	
10. N97-9658	N7001 x Cook	
11. N97-9693	N7001 x Cook	
12. N99-8137	N7001 x Graham	
13. SC00-601RR	SC92-2482 x [HAGOOD (2) x BC1Resni kRR]	F5
14. SC98-318	Hutcheson x SC89-551	F6
15. SC99-605	SC89-147 x G89-2223	F5

**TABLE 62 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2004**

STRAIN/ VARIETY	RANK	AVERAGE RANK	YIELD*			PROTEIN			OIL		
			2004	03-04	02-04	2004	03-04	02-04	2004	03-04	02-04
BENNING	14	11	42.8	48.0	44.6	38.7	39.9	39.8	19.7	19.7	19.9
HASKELL RR	11	9	44.6	48.3	.	39.4	40.3	.	19.5	19.4	.
G00-3209	1	2	52.2	.	.	41.5	.	.	19.4	.	.
G00-3213	2	4	49.8	.	.	40.7	.	.	19.3	.	.
G00-3322	3	7	47.4	.	.	40.8	.	.	19.6	.	.
G03-G1126RR	10	9	44.8	.	.	39.8	.	.	19.4	.	.
G99-2678	9	10	44.9	49.7	.	40.2	40.9	.	19.2	19.2	.
G99-2721	8	8	45.9	50.3	.	38.9	39.5	.	19.7	19.6	.
N00-370	12	11	43.1	47.5	.	40.2	41.9	.	21.1	20.7	.
N97-9658	5	8	46.6	49.9	47.3	38.8	40.9	40.7	19.7	19.3	19.5
N97-9693	7	8	46.1	49.3	46.8	38.4	40.5	40.2	20.4	20.1	20.2
N99-8137	4	6	47.1	50.0	.	38.3	39.6	.	20.4	20.3	.
SC00-601RR	13	10	43.0	.	.	41.3	.	.	19.1	.	.
SC98-318	6	7	46.1	48.9	45.1	38.0	39.3	39.3	19.5	19.5	19.6
SC99-605	15	11	42.5	46.5	.	40.1	41.8	.	19.0	18.9	.

\*Data not included in mean: **2004 - Beaumont, TX**  
**2003 - Beaumont, TX; Jackson Springs, NC**

TABLE 62 ~ Continued

BOTANICAL TRAITS								
STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL COLOR	PUB. COLOR	POD COLOR
Benni ng	10/20	3.7	40	1.7	13.3			
HASKELL RR	1+	3.1	40	1.6	13.8			
G00-3209	3+	2.8	38	1.5	13.8	W	T	T
G00-3213	0	2.6	38	1.5	14.0	W	T	T
G00-3322	4+	2.3	39	1.6	13.8	W	T	T
G03-G1126RR	2-	3.1	38	1.7	11.6	P	T	T
G99-2678	1+	3.1	40	1.6	13.0	W	T	T
G99-2721	2+	3.1	41	1.6	12.2	P	T	T
N00-370	0	3.7	36	1.5	14.6			
N97-9658	3+	2.6	37	1.6	11.9			
N97-9693	4+	2.6	36	1.6	13.9			
N99-8137	3+	2.5	35	1.8	13.3			
SC00-601RR	3+	2.8	41	1.6	12.7	W	G	T
SC98-318	1-	2.4	35	1.5	12.7	T	T	
SC99-605	1-	3.9	37	1.6	12.3	T	T	



TABLE 62 ~ Continued

STRAIN/ VARIETY	PEST REACTIONS				
	SCN 2	SCN 3	M. A. GA	M. I. GA	SMV
Benni ng	5.0	3.0	3.5	1.0	R
HASKELL RR	5.0	5.0	2.3	1.3	S
G00-3209	5.0	1.0	5.0	1.5	R
G00-3213	5.0	1.0	3.3	3.8	R
G00-3322	5.0	1.0	2.0	1.5	S
G03-G1126RR	5.0	1.0	1.5	1.0	S
G99-2678	5.0	1.0	5.0	5.0	R
G99-2721	5.0	4.0	5.0	1.0	R
N00-370	5.0	5.0	5.0	5.0	R
N97-9658	5.0	5.0	4.8	1.3	R
N97-9693	5.0	5.0	5.0	5.0	R
N99-8137	5.0	5.0	5.0	5.0	R
SC00-601RR	5.0	2.0	5.0	1.3	R
SC98-318	5.0	2.0	4.5	3.0	W
SC99-605	5.0	2.0	4.5	3.0	W

**TABLE 63 ~ SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2004**

STRAIN/ VARIETY	EAST
	FLORENCE SC
BENNING	37.7
HASKELL RR	35.2
G00-3209	43.5
G00-3213	44.5
G00-3322	37.0
G03-G1126RR	38.5
G99-2678	39.2
G99-2721	40.0
N00-370	34.9
N97-9658	40.9
N97-9693	34.9
N99-8137	37.1
SC00-601RR	33.4
SC98-318	43.6
SC99-605	39.7
L. S. D. (0.05)	9.4
C. V. (%)	14.5

TABLE 63 ~ Continued

STRAIN/ VARIETY	SOUTH									MEAN
	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	BLACKVILLE SC(B)	CALHOUN GA	FAIRHOPE AL	PLAINS GA	TALLASSEE AL(A)	TIFTON GA	
BENNING	48.1	36.7	43.8	39.8	44.9	44.4	45.5	35.8	50.9	43.3
HASKELL RR	36.6	46.0	42.0	44.2	50.1	47.6	48.8	39.2	55.9	45.6
G00-3209	49.4	47.4	51.1	47.0	60.7	60.3	55.4	48.7	58.7	53.2
G00-3213	48.8	46.5	50.8	48.4	69.3	47.9	52.0	40.3	49.2	50.4
G00-3322	48.2	53.2	45.7	47.1	50.7	52.9	52.6	38.3	47.9	48.5
G03-G1126RR	47.1	45.6	43.2	41.9	45.9	47.0	45.0	42.2	51.9	45.5
G99-2678	41.1	41.1	42.4	35.8	56.3	47.0	45.0	51.3	50.4	45.6
G99-2721	32.7	42.6	41.9	44.7	57.0	50.6	44.0	51.2	54.2	46.6
N00-370	41.7	39.8	37.9	37.7	54.1	52.6	43.1	33.8	55.3	44.0
N97-9658	44.5	45.2	38.6	45.2	64.0	49.8	48.5	37.3	51.5	47.2
N97-9693	45.7	46.1	50.7	47.6	55.0	46.2	52.8	33.4	48.2	47.3
N99-8137	37.5	53.8	49.5	48.0	60.7	54.0	45.2	30.7	54.8	48.3
SC00-601RR	38.5	44.3	47.4	41.8	36.6	48.9	45.6	39.3	54.4	44.1
SC98-318	44.9	44.6	46.5	41.9	50.4	49.0	44.3	40.3	55.7	46.4
SC99-605	36.3	38.0	48.3	39.8	43.5	43.8	38.5	42.8	54.4	42.8
L. S. D. (0.05)	7.4	5.2	6.5	6.2	6.8	8.8	7.1	9.2	9.9	.
C. V. (%)	10.3	7.0	8.6	8.6	7.6	10.5	9.0	13.7	11.1	.

**TABLE 64 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2004****OIL PERCENTAGES**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	BLACKVILLE SC(B)	CALHOUN GA	FAIRHOPE AL	FLORENCE SC	PLAINS GA	TALLASSEE AL(A)	TIFTON GA	MEAN
BENNING	19.7	17.9	21.1	.	.	18.9	21.0	19.4	20.0	.	19.7
HASKELL RR	20.0	19.3	20.0	.	.	19.7	19.4	19.4	18.8	.	19.5
G00-3209	19.3	18.8	19.2	.	.	19.4	19.2	19.2	20.9	.	19.4
G00-3213	18.8	19.1	19.0	.	.	18.9	19.7	19.3	20.3	.	19.3
G00-3322	19.3	18.4	20.2	.	.	19.1	20.2	19.7	20.5	.	19.6
G03-G1126RR	19.1	19.6	19.1	.	.	18.8	20.8	19.4	19.3	.	19.4
G99-2678	20.1	18.9	18.4	.	.	18.7	18.1	19.8	20.4	.	19.2
G99-2721	20.6	20.0	19.7	.	.	19.7	18.0	20.1	19.6	.	19.7
N00-370	20.4	21.1	21.9	.	.	21.4	21.9	20.8	20.5	.	21.1
N97-9658	19.2	19.4	20.5	.	.	19.7	19.7	18.9	20.4	.	19.7
N97-9693	19.8	20.2	20.1	.	.	20.1	20.3	21.2	21.1	.	20.4
N99-8137	20.6	18.4	21.3	.	.	20.3	20.8	20.1	21.0	.	20.4
SC00-601RR	19.7	19.2	18.9	.	.	19.4	19.2	18.7	18.7	.	19.1
SC98-318	18.4	20.0	19.8	.	.	19.3	20.3	19.0	19.4	.	19.5
SC99-605	18.4	18.0	19.6	.	.	19.3	18.9	19.2	19.9	.	19.0

TABLE 64 - Continued

STRAIN/ VARIETY	PROTEIN PERCENTAGES										MEAN
	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	BLACKVILLE SC(B)	CALHOUN GA	FAIRHOPE AL	FLORENCE SC	PLAINS GA	TALLASSEE AL(A)	TIFTON GA	
BENNING	36.7	38.0	38.0	.	.	41.9	37.1	38.7	40.3	.	38.7
HASKELL RR	36.4	37.4	39.0	.	.	41.3	38.8	40.0	42.8	.	39.4
G00-3209	40.3	40.6	42.1	.	.	43.9	41.1	40.8	41.6	.	41.5
G00-3213	39.7	38.5	40.7	.	.	43.2	41.0	39.9	41.9	.	40.7
G00-3322	39.4	41.0	41.5	.	.	44.0	39.0	39.9	40.9	.	40.8
G03-G1126RR	37.6	36.3	41.1	.	.	43.1	37.2	40.3	43.2	.	39.8
G99-2678	37.9	37.3	41.1	.	.	42.9	41.0	39.8	41.1	.	40.2
G99-2721	35.4	35.6	39.6	.	.	41.4	40.7	38.0	41.6	.	38.9
N00-370	38.4	37.8	40.8	.	.	43.6	38.4	39.8	42.6	.	40.2
N97-9658	36.9	35.7	39.2	.	.	41.6	39.1	38.6	40.6	.	38.8
N97-9693	37.5	35.9	38.9	.	.	41.3	38.4	37.0	39.8	.	38.4
N99-8137	34.5	38.4	38.7	.	.	40.2	38.1	37.8	40.5	.	38.3
SC00-601RR	39.7	38.6	40.7	.	.	44.7	41.3	41.1	43.1	.	41.3
SC98-318	37.2	33.9	37.7	.	.	41.3	36.3	38.9	40.7	.	38.0
SC99-605	38.6	38.7	40.1	.	.	43.1	39.9	40.2	40.3	.	40.1

TABLE 64 ~Continued

STRAIN/ VARIETY	GRAMS PER 100 SEED										
	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	BLACKVILLE SC(B)	CALHOUN GA	FAIRHOPE AL	FLORENCE SC	PLAINS GA	TALLASSEE AL(A)	TIFTON GA	MEAN
BENNING	12.4	13.9	17.4	18.7	17.9	15.0	15.2	14.3	13.1	11.9	15.0
HASKELL RR	12.6	15.5	17.5	16.8	20.2	14.4	14.6	14.5	14.1	14.4	15.5
G00-3209	14.2	15.3	17.5	16.8	20.9	14.3	16.4	14.5	13.7	11.7	15.5
G00-3213	13.9	15.1	16.8	17.2	20.2	14.4	16.1	14.6	13.4	14.0	15.6
G00-3322	14.5	16.0	18.2	16.6	20.2	14.9	14.9	14.0	13.3	13.6	15.6
G03-G1126RR	11.1	11.7	14.8	14.5	15.6	13.5	11.5	12.8	12.1	12.2	13.0
G99-2678	12.4	13.8	16.9	16.2	18.6	14.4	15.6	13.9	13.7	10.8	14.6
G99-2721	11.5	12.2	15.6	15.2	17.4	13.3	14.6	12.8	12.8	11.2	13.7
N00-370	13.7	17.1	18.6	19.2	19.4	17.3	16.1	15.3	13.8	13.7	16.4
N97-9658	11.5	11.9	15.7	15.8	17.6	13.0	14.1	11.9	11.6	10.7	13.4
N97-9693	14.1	14.2	18.1	17.9	19.1	16.1	15.3	14.3	12.9	14.5	15.7
N99-8137	12.1	15.3	19.0	18.2	19.7	12.6	15.2	14.0	13.2	12.8	15.2
SC00-601RR	12.1	13.4	16.4	16.6	15.4	15.0	14.6	13.6	13.2	12.3	14.3
SC98-318	12.2	12.7	15.2	15.6	19.1	13.5	15.1	13.3	13.1	11.7	14.2
SC99-605	12.9	13.5	15.6	16.1	13.9	14.1	14.1	13.5	12.1	12.0	13.8

**TABLE 65 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BENNING, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2004**

STRAIN/ VARIETY	EAST	
	FLORENCE	SC
BENNING	10/22	
HASKELL RR	0	
G00-3209	5	
G00-3213	2	
G00-3322	5	
G03-G1126RR	-8	
G99-2678	2	
G99-2721	4	
N00-370	-2	
N97-9658	3	
N97-9693	3	
N99-8137	2	
SC00-601RR	3	
SC98-318	2	
SC99-605	0	

TABLE 65 ~ Continued

STRAIN/ VARIETY	SOUTH									MEANS
	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	BLACKVILLE SC(B)	CALHOUN GA	FAIRHOPE AL	PLAINS GA	TALLASSEE AL	TIFTON GA	
BENNING	10/16	10/26	10/20	10/28	10/22	10/17	.	10/15	10/13	10/20
HASKELL RR	-3	4	1	1	1	2	.	3	2	1
G00-3209	3	5	3	4	8	1	.	2	0	3
G00-3213	-1	1	1	0	-1	0	.	-1	-1	0
G00-3322	3	6	5	6	6	1	.	2	3	4
G03-G1126RR	-5	0	-2	-1	1	1	.	-1	1	-1
G99-2678	-3	1	1	0	4	2	.	2	-1	1
G99-2721	0	3	2	0	5	2	.	3	3	2
N00-370	-5	4	1	3	1	3	.	-1	-1	0
N97-9658	-1	3	4	4	10	1	.	1	1	2
N97-9693	1	5	3	5	13	2	.	1	4	4
N99-8137	-5	6	5	4	13	3	.	2	1	3
SC00-601RR	0	4	4	5	6	2	.	2	4	3
SC98-318	-3	0	-1	-1	1	0	.	-1	-1	-1
SC99-605	-3	4	1	1	-9	1	.	0	0	-1



**TABLE 66 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII,  
2004**

STRAIN/ VARIETY	EAST
	FLORENCE SC
BENNING	36
HASKELL RR	36
G00-3209	33
G00-3213	34
G00-3322	31
G03-G1126RR	31
G99-2678	36
G99-2721	38
N00-370	35
N97-9658	32
N97-9693	33
N99-8137	29
SC00-601RR	38
SC98-318	31
SC99-605	33

TABLE 66 ~ Continued

STRAIN/ VARIETY	SOUTH									MEANS
	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	BLACKVILLE SC(B)	CALHOUN GA	FAIRHOPE AL	PLAINS GA	TALLASSEE AL	TIFTON GA	
BENNING	46	34	42	40	42	35	41	42	37	40
HASKELL RR	47	39	44	42	33	37	44	44	35	41
G00-3209	47	34	41	39	38	34	40	39	36	39
G00-3213	44	33	42	39	38	33	43	38	35	38
G00-3322	46	37	41	41	41	34	43	39	33	40
G03-G1126RR	45	34	41	40	35	37	42	38	35	38
G99-2678	49	36	44	40	37	36	43	39	37	40
G99-2721	50	38	44	39	43	35	42	41	35	41
N00-370	39	37	39	35	32	34	40	37	30	36
N97-9658	41	32	40	39	36	33	44	35	35	37
N97-9693	41	28	40	38	33	35	42	34	33	36
N99-8137	40	30	42	38	38	33	40	32	31	36
SC00-601RR	49	34	48	42	36	40	44	37	40	41
SC98-318	43	28	39	36	34	33	39	33	33	35
SC99-605	42	34	41	39	35	34	40	39	37	38

**TABLE 67 ~ PLANT LODGING FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII,  
2004**

STRAIN/ VARIETY	EAST	
	FLORENCE	SC
BENNING	2.3	
HASKELL RR	2.0	
G00-3209	3.0	
G00-3213	2.0	
G00-3322	2.0	
G03-G1126RR	2.3	
G99-2678	2.3	
G99-2721	2.7	
N00-370	3.0	
N97-9658	2.0	
N97-9693	2.3	
N99-8137	2.3	
SC00-601RR	2.3	
SC98-318	2.0	
SC99-605	2.7	

TABLE 67 ~ Continued

STRAIN/ VARIETY	SOUTH								MEANS
	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	BLACKVILLE SC(B)	CALHOUN GA	PLAINS GA	TALLASSEE AL	TIFTON GA	
BENNING	4.0	4.3	4.7	4.3	4.0	3.7	3.3	2.3	3.8
HASKELL RR	4.0	4.0	4.3	4.2	2.7	3.0	1.3	2.7	3.3
G00-3209	3.7	3.0	3.2	3.3	2.3	2.7	2.0	2.3	2.8
G00-3213	4.0	3.3	3.0	3.3	2.0	2.7	1.7	1.3	2.7
G00-3322	3.0	2.3	3.0	3.0	1.7	2.7	1.3	1.7	2.3
G03-G1126RR	3.7	3.7	4.3	4.0	3.3	3.3	1.3	2.0	3.2
G99-2678	4.3	3.3	4.0	3.3	3.0	3.0	2.7	2.3	3.3
G99-2721	4.0	3.3	4.5	3.7	2.7	3.7	1.0	2.3	3.1
N00-370	4.0	5.0	4.8	5.0	3.3	4.0	2.0	2.0	3.8
N97-9658	2.7	2.3	3.8	3.5	2.0	3.7	1.0	2.0	2.6
N97-9693	3.0	2.0	3.3	3.8	2.3	3.0	1.3	2.3	2.6
N99-8137	3.7	2.3	3.5	3.0	1.7	3.3	1.0	2.0	2.6
SC00-601RR	4.0	2.7	3.5	3.0	3.7	3.0	1.0	2.0	2.9
SC98-318	3.7	2.7	2.5	2.8	2.0	2.7	2.0	1.3	2.5
SC99-605	4.7	4.7	4.7	4.2	4.0	4.0	3.7	2.3	4.0

**TABLE 68 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII,  
2004****SOUTH**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	CALHOUN GA	FAIRHOPE AL	PLAINS GA	TALLASSEE AL(A)	TIFTON GA	MEAN
BENNING	1.8	1.7	2.2	1.5	2.0	1.5	1.3	1.7
HASKELL RR	1.8	1.7	1.5	1.5	1.8	1.3	1.5	1.6
G00-3209	1.7	1.8	1.0	1.3	2.0	1.5	1.2	1.5
G00-3213	1.5	2.0	1.2	1.5	1.7	1.3	1.5	1.5
G00-3322	2.2	1.5	1.2	1.3	1.8	1.7	1.0	1.5
G03-G1126RR	2.0	1.7	1.8	1.3	2.2	1.3	1.5	1.7
G99-2678	1.8	1.7	1.5	1.5	2.0	1.5	1.5	1.6
G99-2721	2.2	1.7	1.5	1.3	2.0	1.3	1.0	1.6
N00-370	1.8	2.0	1.2	1.2	2.0	1.3	1.0	1.5
N97-9658	1.8	2.2	1.3	1.3	1.8	1.3	1.2	1.6
N97-9693	2.2	1.5	1.2	1.3	2.0	1.5	1.7	1.6
N99-8137	2.2	2.2	1.5	1.5	2.2	1.7	1.5	1.8
SC00-601RR	2.2	1.7	1.5	1.2	1.8	1.2	1.7	1.6
SC98-318	1.8	1.5	1.7	1.3	2.0	1.3	1.0	1.5
SC99-605	1.8	1.7	1.5	1.3	2.0	1.7	1.5	1.6

**PRELIMINARY GROUP VII****2004**

**Preliminary Group VII nurseries were planted at 7 locations. Data were obtained from 6 of the locations. The parentage for each strain is reported in Table 69. Table 70 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 71 - 77.**

TABLE 69 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2004

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSED
1. BENNING	Hutcheson x Coker 6738	
2. HASKELL RR	(Johnston x Braxton) x RR	
3. Au00-1170	SC92-902 x Au92-763	
4. Au00-1478	N94-3405 x SC93-3091	
5. Au00-255	SC91-2007 x N94-537	
6. G03-332RR	G95-346 x H7242 RR	F5d
7. G03-364RR	G95-346 x H7242 RR	F5d
8. G03-557RR	G95-346 x H7242 RR	F5d
9. G03-630RR	G95-346 x H7242 RR	F5d
10. G03-830RR	G94-3117 x H7242 RR	F5d
11. G03-926RR	G94-3117 x H7242 RR	F5d
12. G03-940RR	G94-3117 x H7242 RR	F5d
13. N01-110665-1	N94-7460 X N7101	
14. N01-11136	NTCPR94-5157 X N96-7031	
15. N01-11777	Graham x N96-7031	
16. N02-7084	Cook x Anand	
17. SC01-779RR	Musen x {SC92-2482 x [Benning x (Hagood x BC1ResnikRR)]}	F5
18. SC01-783RR	Musen x {SC92-2482 x [Benning x (Hagood x BC1ResnikRR)]}	F5
19. SC01-784RR	Musen x {SC92-2482 x [Benning x (Hagood x BC1ResnikRR)]}	F5
20. SC01-786RR	Musen x {SC92-2482 x [Benning x (Hagood x BC1ResnikRR)]}	F5
21. SC01-796RR	SC91-2007 x {SC92-2482 x [Benning x (Hagood x BC1ResnikRR)]}	F5
22. SC01-819RR	SC92-2482 x {SC92-2482 x [Benning x (Hagood x BC1ResnikRR)]}	F5
23. Au00-1090	SC93-902 x Au92-763	
24. Tyrone	[(Wilson (6) x Forrest x (Perry x (Williams x PI 229358))] x Ripley	

**TABLE 70 ~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2004 ~ MEAN OF 6 LOCATIONS**

STRAIN/ VARIETY	SEED		AVG. RANK	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----		SCN 2	SCN 3	FL COLOR	PUB. COLOR	POD COLOR
	YIELD	RANK							PROTEIN	OIL					
BENNING	44.8	3	4	10/16	3.1	39	2.0	14.1	39.7	19.9	5.0	3.0			
HASKELL RR	40.4	9	5	1+	3.2	40	1.9	13.8	39.7	19.8	5.0	5.0			
Au00-1170	37.1	19	7	3+	2.9	36	2.4	11.3	37.7-	20.6	5.0	2.0			
Au00-1478	41.9	5	5	4-	3.4	39	1.8	12.5	41.3	20.3	5.0	1.0			
Au00-255	37.6	18	7	2+	2.8	40	2.3	13.9	39.6	20.0	5.0	5.0			
G03-332RR	40.6	8	6	2-	2.7	39	1.6	12.7	40.1	19.9	5.0	4.0	W	T	T
G03-364RR	43.5	4	4	1-	3.2	39	1.8	13.1	39.7	19.9	5.0	2.0	W	T	T
G03-557RR	38.1	16	7	0	2.7	40	2.1	14.7	42.2+	18.6-	5.0	3.0	W	T	T
G03-630RR	33.7-	21	8	1+	2.0	43	1.8	12.8	40.7	18.7-	5.0	2.0	W	T	T
G03-830RR	40.1	11	6	2-	3.1	39	2.0	14.2	38.3	20.3	5.0	5.0	P	T	T
G03-926RR	41.8	6	5	1+	2.9	40	1.8	13.6	40.1	19.1	5.0	1.0	W	T	T
G03-940RR	39.7	12	5	4+	3.0	44	1.7	13.1	40.9	19.1	5.0	1.0	P	T	T
N01-110665-1	29.6-	23	10	1-	2.2	31	1.8	8.6	41.6	16.5-	5.0	5.0			
N01-11136	41.4	7	5	0	2.3	36	1.8	15.4	38.5	19.9	5.0	5.0			
N01-11777	40.1	11	6	1+	2.7	34	2.2	13.8	38.9	19.7	5.0	5.0			
N02-7084	47.5	1	4	1-	2.8	36	2.0	15.5	38.4	20.6	5.0	4.0			
SC01-779RR	35.8-	20	8	3+	3.2	38	2.0	12.3	38.6	20.2	5.0	4.0	P	G	T
SC01-783RR	38.2	15	6	1+	1.6	35	2.0	12.7	38.9	20.3	5.0	3.0	P	G	T
SC01-784RR	39.6	13	6	3+	2.7	34	1.8	11.6	39.6	20.3	5.0	5.0	P	G	T
SC01-786RR	33.2-	22	8	3+	2.3	36	1.8	12.5	39.6	20.5	5.0	2.0	P	G	T
SC01-796RR	37.6	18	6	5+	2.6	41	2.1	13.2	40.4	19.4	5.0	3.0	P	G	T
SC01-819RR	44.9	2	3	1-	1.7	40	1.7	14.5	40.8	19.7	5.0	1.0	W	G	T
Au00-1090	39.2	14	6	3+	3.2	43	2.6	12.2	38.5	19.8	5.0	4.0			
Tyrone	28.7-	24	11	3-	3.6	63	1.9	12.1	43.0+	19.0-	5.0	5.0			
OVERALL MEAN	39.0								39.9	19.7					
LSD (.05)	7.7								2.0	0.8					
C. V.	15%								2%	2%					



**TABLE 71 ~ SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2004**

STRAIN/ VARIETY	BEAUMONT* TX	BLACKVILLE SC (A)	JACKSON SPRINGS NC	PLAINS GA	STONEVILLE MS	TALLASSEE AL (A)	MEAN
BENNING	34.4	46.7	49.8	39.3	33.4	54.7	44.8
HASKELL RR	25.1-	49.9	43.3	46.2	24.3-	38.4-	40.4
Au00-1170	25.1-	49.4	47.3	35.5	19.2-	34.3-	37.1
Au00-1478	31.2-	42.0	44.2	41.3	.	39.9-	41.9
Au00-255	29.3-	44.6	47.3	40.9	18.8-	36.5-	37.6
G03-332RR	10.6-	40.9	51.1	36.9	34.4	39.9-	40.6
G03-364RR	17.2-	52.5	51.7	44.6	26.9-	42.0	43.5
G03-557RR	24.4-	41.6	41.4	39.5	24.6-	43.3	38.1
G03-630RR	13.0-	40.0	41.1	30.1-	13.2-	44.1	33.7-
G03-830RR	34.6+	41.4	38.8-	47.6	37.2	35.6-	40.1
G03-926RR	22.2-	48.4	52.6	42.4	24.3-	41.3-	41.8
G03-940RR	25.4-	48.6	48.4	33.0	20.0-	48.5	39.7
N01-110665-1	25.6-	41.6	37.4-	36.8	15.1-	17.3-	29.6-
N01-11136	33.3-	43.6	48.2	44.4	37.5	33.3-	41.4
N01-11777	40.4+	47.1	40.9	34.5	39.6+	38.3-	40.1
N02-7084	31.4-	40.8	46.1	45.9	37.4	67.4	47.5
SC01-779RR	23.2-	49.2	37.8-	35.0	17.3-	39.5-	35.8-
SC01-783RR	20.9-	45.9	43.9	39.3	16.8-	45.3	38.2
SC01-784RR	21.9-	43.2	44.5	28.2-	.	42.5	39.6
SC01-786RR	25.5-	39.6	45.1	27.7-	15.8-	38.0-	33.2-
SC01-796RR	29.7-	49.4	44.6	41.7	18.7-	33.8-	37.6
SC01-819RR	18.7-	46.4	44.1	43.1	.	46.2	44.9
Au00-1090	26.2-	46.0	48.5	37.3	18.2-	45.9	39.2
Tyrone	15.6-	35.0-	31.8-	29.7-	.	18.3-	28.7-
L. S. D. (0.05)	0.0	7.9	10.4	8.7	5.6	13.4	7.7
C. V. (%)	0.0	8.6	11.3	10.9	10.9	16.1	15.4

**\*Data not included in mean**

**TABLE 72 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2004**

STRAIN/ VARIETY	BLACKVILLE SC(A)	PLAINS GA	TALLASSEE AL(A)	MEAN
BENNING	20.0	19.9	19.9	19.9
HASKELL RR	20.0	19.8	19.6	19.8
Au00-1170	20.9	20.8	20.1	20.6
Au00-1478	20.0	20.9	19.9	20.3
Au00-255	20.2	19.8	19.9	20.0
G03-332RR	20.2	19.8	19.8	19.9
G03-364RR	20.3	19.6	19.7	19.9
G03-557RR	18.5	19.0	18.4	18.6
G03-630RR	18.9	18.5	18.8	18.7
G03-830RR	20.0	20.1	20.7	20.3
G03-926RR	19.2	19.4	18.6	19.1
G03-940RR	19.3	19.2	18.7	19.1
N01-110665-1	17.1	16.6	15.9	16.5
N01-11136	20.5	20.8	18.5	19.9
N01-11777	20.1	19.0	20.0	19.7
N02-7084	20.3	21.0	20.6	20.6
SC01-779RR	20.2	19.9	20.6	20.2
SC01-783RR	20.2	20.6	20.2	20.3
SC01-784RR	19.8	20.2	20.8	20.3
SC01-786RR	19.7	20.8	21.0	20.5
SC01-796RR	19.6	18.9	19.6	19.4
SC01-819RR	20.3	19.9	19.0	19.7
Au00-1090	19.9	20.0	19.6	19.8
Tyrone	19.3	19.4	18.4	19.0

**TABLE 73 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2004**

STRAIN/ VARIETY	BLACKVILLE SC(A)	PLAINS GA	TALLASSEE AL(A)	MEAN
BENNING	39.6	37.8	41.6	39.7
HASKELL RR	38.2	38.0	43.0	39.7
Au00-1170	36.9	35.8	40.4	37.7
Au00-1478	41.6	39.5	42.9	41.3
Au00-255	39.4	38.6	40.8	39.6
G03-332RR	39.0	39.6	41.7	40.1
G03-364RR	38.9	38.3	41.8	39.7
G03-557RR	41.3	40.1	45.2	42.2
G03-630RR	40.6	39.4	42.0	40.7
G03-830RR	38.3	36.4	40.2	38.3
G03-926RR	40.2	38.1	42.0	40.1
G03-940RR	39.9	39.1	43.7	40.9
N01-110665-1	40.3	39.6	44.9	41.6
N01-11136	38.5	36.4	40.7	38.5
N01-11777	38.0	37.6	41.2	38.9
N02-7084	38.5	35.8	40.9	38.4
SC01-779RR	38.3	36.9	40.6	38.6
SC01-783RR	38.7	36.5	41.4	38.9
SC01-784RR	39.7	38.4	40.8	39.6
SC01-786RR	39.7	37.9	41.1	39.6
SC01-796RR	40.2	39.0	42.1	40.4
SC01-819RR	41.6	38.4	42.5	40.8
Au00-1090	38.6	36.5	40.3	38.5
Tyrone	41.5	40.7	46.8	43.0

**TABLE 74 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII,  
2004**

STRAIN/ VARIETY	BLACKVILLE SC(A)	JACKSON SPRINGS NC	PLAINS GA	STONEVILLE MS	TALLASSEE AL(A)	MEAN
BENNING	17.1	14.9	14.1	9.8	14.4	14.1
HASKELL RR	15.6	15.7	14.0	9.0	14.8	13.8
Au00-1170	15.0	12.5	10.8	6.4	11.9	11.3
Au00-1478	15.3	14.8	13.6	6.5	12.4	12.5
Au00-255	17.7	16.8	13.5	7.2	14.3	13.9
G03-332RR	14.4	14.1	12.4	10.1	12.6	12.7
G03-364RR	15.1	13.7	13.4	9.4	13.9	13.1
G03-557RR	18.0	15.5	14.4	9.6	16.2	14.7
G03-630RR	15.2	14.8	11.8	8.5	14.0	12.8
G03-830RR	15.5	17.6	13.0	11.7	13.4	14.2
G03-926RR	16.3	16.4	12.3	8.5	14.6	13.6
G03-940RR	15.4	15.1	12.5	8.3	14.1	13.1
N01-110665-1	7.3	17.9	6.7	4.4	6.7	8.6
N01-11136	18.8	18.1	13.7	12.6	13.9	15.4
N01-11777	16.6	15.0	13.1	10.6	13.9	13.8
N02-7084	18.5	16.3	14.8	11.1	16.8	15.5
SC01-779RR	14.2	14.2	11.6	8.4	13.0	12.3
SC01-783RR	15.4	15.0	12.1	8.2	13.0	12.7
SC01-784RR	13.3	14.3	12.1	6.3	12.3	11.6
SC01-786RR	15.3	14.7	12.5	8.1	11.7	12.5
SC01-796RR	16.8	15.6	12.7	7.0	14.1	13.2
SC01-819RR	18.0	15.8	14.7	9.0	15.0	14.5
Au00-1090	14.4	13.3	11.6	10.0	11.9	12.2
Tyrone	15.5	14.9	12.4	5.5	12.4	12.1

**TABLE 75 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2004**

STRAIN/ VARIETY	BEAUMONT*	BLACKVILLE	JACKSON SPRINGS	PLAINS	STONEVILLE	TALLASSEE	MEAN
	TX	SC (A)	NC	GA	MS	AL (A)	
BENNING	29	42	37	41	36	42	39
HASKELL RR	30	45	38	43	36	40	40
Au00-1170	27	44	34	36	32	36	36
Au00-1478	33	41	38	40	36	40	39
Au00-255	28	47	38	40	36	42	40
G03-332RR	26	42	38	42	30	41	39
G03-364RR	22	45	40	40	32	38	39
G03-557RR	26	44	36	45	32	42	40
G03-630RR	31	48	35	46	44	41	43
G03-830RR	30	47	31	44	34	42	39
G03-926RR	31	42	36	43	36	43	40
G03-940RR	32	45	41	51	42	41	44
N01-110665-1	18	36	26	36	24	32	31
N01-11136	22	38	35	37	34	34	36
N01-11777	19	40	32	37	28	36	34
N02-7084	24	40	31	42	26	39	36
SC01-779RR	29	41	35	39	34	40	38
SC01-783RR	24	39	32	38	32	35	35
SC01-784RR	24	38	33	37	30	34	34
SC01-786RR	23	40	34	37	32	37	36
SC01-796RR	28	48	39	41	36	42	41
SC01-819RR	29	47	34	41	36	41	40
Au00-1090	27	51	39	39	44	43	43
Tyrone	58	72	54	62	68	58	63

**\*Data not included in mean**

**TABLE 76 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2004**

STRAIN/ VARIETY	BLACKVILLE SC(A)	JACKSON SPRINGS NC	PLAINS GA	STONEVILLE MS	TALLASSEE AL(A)	MEAN
BENNING	3.8	3.0	2.5	3.0	3.0	3.1
HASKELL RR	4.0	3.3	3.5	3.0	2.0	3.2
Au00-1170	3.5	3.0	3.5	3.0	1.5	2.9
Au00-1478	4.5	3.5	4.5	3.0	1.5	3.4
Au00-255	3.8	2.8	3.5	3.0	1.0	2.8
G03-332RR	3.8	3.0	3.0	2.0	1.5	2.7
G03-364RR	3.3	3.0	4.0	3.0	2.5	3.2
G03-557RR	3.0	2.8	3.0	3.0	1.5	2.7
G03-630RR	2.3	2.8	2.0	2.0	1.0	2.0
G03-830RR	4.8	2.8	3.5	2.0	2.5	3.1
G03-926RR	3.5	3.3	3.0	3.0	1.5	2.9
G03-940RR	3.5	3.3	4.0	3.0	1.0	3.0
N01-110665-1	3.0	2.0	3.0	2.0	1.0	2.2
N01-11136	2.8	2.8	3.0	2.0	1.0	2.3
N01-11777	3.8	2.0	4.0	2.0	1.5	2.7
N02-7084	5.0	2.0	4.0	2.0	1.0	2.8
SC01-779RR	3.3	3.8	3.5	2.0	3.5	3.2
SC01-783RR	1.8	1.3	2.0	2.0	1.0	1.6
SC01-784RR	2.5	3.3	4.0	2.0	1.5	2.7
SC01-786RR	2.5	2.0	4.0	2.0	1.0	2.3
SC01-796RR	3.5	3.8	2.5	2.0	1.0	2.6
SC01-819RR	2.0	1.3	2.0	2.0	1.0	1.7
Au00-1090	4.5	3.0	4.0	3.0	1.5	3.2
Tyrone	3.8	3.8	3.5	5.0	2.0	3.6

**TABLE 77 ~ SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2004**

STRAIN/ VARIETY	BEAUMONT*	PLAINS	STONEVILLE	TALLASSEE	MEAN
	TX	GA	MS	AL(A)	
BENNING	3.0	2.0	3.0	1.0	2.0
HASKELL RR	4.8	1.8	3.0	1.0	1.9
Au00-1170	3.3	1.8	4.0	1.5	2.4
Au00-1478	3.0	1.5	3.0	1.0	1.8
Au00-255	3.0	2.0	4.0	1.0	2.3
G03-332RR	5.0	1.8	2.0	1.0	1.6
G03-364RR	4.8	2.0	2.0	1.5	1.8
G03-557RR	3.5	2.3	3.0	1.0	2.1
G03-630RR	4.5	2.0	2.5	1.0	1.8
G03-830RR	3.0	2.0	3.0	1.0	2.0
G03-926RR	4.5	2.3	2.0	1.0	1.8
G03-940RR	4.3	2.0	2.0	1.0	1.7
N01-110665-1	2.5	1.5	2.0	1.8	1.8
N01-11136	4.0	2.0	2.0	1.5	1.8
N01-11777	3.3	2.0	3.0	1.5	2.2
N02-7084	3.0	2.0	3.0	1.0	2.0
SC01-779RR	3.3	2.5	2.0	1.5	2.0
SC01-783RR	2.8	2.0	3.0	1.0	2.0
SC01-784RR	2.5	2.3	2.0	1.3	1.8
SC01-786RR	2.3	2.0	2.0	1.5	1.8
SC01-796RR	3.5	2.0	3.0	1.3	2.1
SC01-819RR	4.0	2.0	2.0	1.0	1.7
Au00-1090	4.0	2.3	4.0	1.5	2.6
Tyrone	3.5	2.0	2.0	1.8	1.9

**\*Data not included in mean**

**UNIFORM GROUP VIII****2004**

**Uniform Group VIII nurseries were planted in 11 locations. Data were obtained from 10 of the locations. The parentage for each strain is reported in Table 78. Table 79 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 80 - 85.**



**TABLE 78 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2004**

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. PRICHARD RR	(Coker Co82-622 x Howard) x RR	
2. COOK	Braxton x Young	
3. G00-3234	N7001 x Boggs	F7d
4. G00-3364	N7001 x Boggs	F7d
5. G00-3880	G3-9201 x Cook	F7d
6. G00-4071	G3-9201 x Cook	F7d
7. G03-G113169RR	G90-R1151E(5) x RR	BC5
8. G99-1166	G91-2244 x Benni ng	F5d
9. G99-1308	G91-2244 x Benni ng	F5d
10. G99-3211	G91-2244 x Dol es	F5d
11. N96-6752	N90-7202 x N7001	
12. N97-9612	N7001 x Cook	
13. N97-9677	N7001 x Cook	
14. N98-7961	N7001 x NTCPR93-283	
15. SC00-643RR	SC92-3091 x [Benni ng x (Hagood x BC1Resni kRR)]	F5
16. SC00-695RR	SC92-3091 x [Maxcy(2) x BC1Resni kRR]	F5
17. SC98-469	Hutcheson x NK S75-55	F5
18. SC99-615	SC89-147 x G89-2223	F5

**TABLE 79 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN  
IN UNIFORM GROUP VIII, 2004**

STRAIN/ VARIETY	RANK	AVERAGE RANK	YIELD*			PROTEIN			OIL		
			2004	03-04	02-04	2004	03-04	02-04	2004	03-04	02-04
PRI CHARD RR	18	14	36.7	40.3	.	41.9	42.6	.	18.8	18.8	.
COOK	13	11	40.2	43.9	42.1	40.2	41.5	41.5	18.4	18.8	18.8
G00-3234	8	8	42.9	.	.	40.9	.	.	19.7	.	.
G00-3364	4	6	44.5	.	.	41.3	.	.	19.2	.	.
G00-3880	1	5	46.5	.	.	37.8	.	.	19.5	.	.
G00-4071	3	6	44.6	.	.	39.2	.	.	19.4	.	.
G03-G113169RR	11	11	42.0	.	.	41.6	.	.	19.1	.	.
G99-1166	12	10	41.4	45.2	.	39.8	41.0	.	19.3	19.1	.
G99-1308	10	10	42.2	46.1	.	38.3	39.6	.	19.2	19.1	.
G99-3211	2	5	45.0	48.5	.	39.4	40.4	.	19.6	19.8	.
N96-6752	7	8	43.6	44.2	43.6	39.0	39.7	39.4	19.2	19.3	19.4
N97-9612	5	6	44.1	45.5	45.3	39.3	40.6	40.6	18.1	18.5	18.4
N97-9677	6	8	43.7	46.4	45.6	39.7	40.6	40.5	19.4	19.5	19.6
N98-7961	9	7	42.6	44.1	42.0	38.9	39.8	39.6	20.4	20.5	20.6
SC00-643RR	14	12	40.2	.	.	41.3	.	.	19.7	.	.
SC00-695RR	16	15	37.4	.	.	40.1	.	.	19.6	.	.
SC98-469	15	15	38.2	42.9	42.5	39.6	40.5	40.6	20.5	20.3	20.4
SC99-615	17	14	36.7	42.6	.	40.2	40.9	.	19.3	19.4	.

**\*Data not included in mean: 2004 - Tallassee, AL(B)  
2002 - Blackville, SC(B); Tallassee, AL(B)**

TABLE 79 ~ Continued

BOTANICAL TRAITS								
STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL COLOR	PUB. COLOR	POD COLOR
Pri chard RR	10/26	3.5	41	1.8	12.5			
Cook	5-	2.6	39	1.6	15.0			
G00-3234	3-	2.7	39	1.6	13.7	P	T	T
G00-3364	3-	2.5	38	1.6	14.5	W	T	T
G00-3880	6-	2.3	36	1.7	14.1	P	T	T
G00-4071	3-	2.5	38	1.5	13.8	P	T	T
G03-G113169RR	4-	3.1	37	1.6	13.0	W	G	T
G99-1166	2-	3.1	38	1.8	15.1	P	T	T
G99-1308	3-	3.0	35	1.5	12.7	P	T	T
G99-3211	2-	2.1	39	1.6	14.0	W	T	T
N96-6752	3-	3.0	32	1.8	13.8			
N97-9612	4-	2.7	38	1.7	14.7			
N97-9677	2-	2.8	38	1.7	15.7			
N98-7961	3-	2.1	33	1.6	13.4			
SC00-643RR	3-	2.8	37	1.5	15.6	W	T	T
SC00-695RR	4-	2.8	37	1.4	13.8	P	T	T
SC98-469	4-	3.1	37	1.6	14.0	W	T	T
SC99-615	4-	3.6	37	1.8	13.4	W	T	T

TABLE 79 ~ Continued

STRAIN/ VARIETY	PEST REACTIONS				
	SCN 2	SCN 3	M. A. GA	M. I. GA	SMV
Pri chard RR	5.0	5.0	5.0	1.3	R
Cook	5.0	5.0	5.0	5.0	R
G00-3234	5.0	1.0	2.5	1.0	S
G00-3364	5.0	1.0	4.3	3.0	S
G00-3880	5.0	4.0	3.5	1.3	S
G00-4071	5.0	3.0	4.5	1.5	R
G03-G113169RR	5.0	5.0	5.0	1.0	R
G99-1166	5.0	4.0	4.8	2.0	R
G99-1308	5.0	1.0	3.5	1.3	R
G99-3211	5.0	3.0	5.0	2.8	R
N96-6752	5.0	5.0	4.3	5.0	R
N97-9612	5.0	5.0	4.5	4.5	R
N97-9677	5.0	5.0	5.0	5.0	R
N98-7961	5.0	5.0	4.0	5.0	R
SC00-643RR	5.0	2.0	4.8	3.0	R
SC00-695RR	5.0	2.0	4.5	1.0	R
SC98-469	5.0	3.0	5.0	1.0	R
SC99-615	5.0	3.0	5.0	5.0	R

**TABLE 80 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2004**

STRAIN/ VARIETY	EAST	
	FLORENCE	
	SC	
PRI CHARD RR	31.5	
COOK	33.6	
G00-3234	31.8	
G00-3364	33.4	
G00-3880	31.2	
G00-4071	32.5	
G03-G113169RR	29.9	
G99-1166	37.2	
G99-1308	31.1	
G99-3211	38.7	
N96-6752	40.5	
N97-9612	37.4	
N97-9677	34.3	
N98-7961	34.5	
SC00-643RR	30.8	
SC00-695RR	30.8	
SC98-469	30.4	
SC99-615	33.6	
L. S. D. (0.05)	9.2	
C. V. (%)	16.6	

TABLE 80 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(B)	FAIRHOPE AL	PLAINS GA	TALLASSEE AL(A)	TALLASSEE* AL(B)	TIFTON GA	MEAN
PRI CHARD RR	34.1	39.8	39.3	38.8	27.6	44.8	38.2	37.3	37.4
COOK	39.7	39.9	45.6	45.8	43.8	30.2	24.4	42.9	41.1
G00-3234	43.3	41.8	44.1	49.4	47.7	42.5	14.5	42.3	44.5
G00-3364	44.3	49.4	47.1	47.8	48.8	39.1	22.4	46.3	46.1
G00-3880	46.7	41.8	47.9	49.6	55.2	49.3	20.0	50.4	48.7
G00-4071	43.0	39.8	51.8	51.4	44.7	44.6	34.0	49.2	46.4
G03-G113169RR	40.1	39.0	41.5	47.9	41.9	46.6	31.9	49.1	43.7
G99-1166	41.2	38.2	44.3	45.5	39.2	31.3	22.9	54.5	42.0
G99-1308	39.6	39.5	43.0	49.8	43.0	40.9	21.8	50.8	43.8
G99-3211	42.6	42.4	47.5	50.4	44.8	45.6	22.9	47.8	45.9
N96-6752	39.8	41.3	51.6	49.7	43.2	29.3	20.8	53.1	44.0
N97-9612	40.2	43.8	47.9	50.3	46.4	28.6	25.3	58.4	45.1
N97-9677	41.4	48.2	38.7	45.2	47.1	34.9	30.3	60.1	45.1
N98-7961	42.7	43.9	50.4	47.5	44.2	30.2	16.2	47.5	43.8
SC00-643RR	40.6	40.4	40.8	44.5	39.6	38.2	13.4	46.3	41.5
SC00-695RR	36.5	41.9	38.4	37.7	38.0	35.9	7.5	39.8	38.3
SC98-469	35.1	38.2	38.3	45.8	37.5	37.3	4.8	42.6	39.3
SC99-615	33.7	32.4	41.9	40.9	39.3	31.8	27.9	40.2	37.2
L. S. D. (0.05)	8.1	6.0	6.6	7.2	7.1	9.2	13.7	6.9	.
C. V. (%)	12.1	8.8	8.9	9.3	9.9	14.3	37.3	8.7	.

\*Data not included in mean

**TABLE 81 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII ~ 2004**

STRAIN/ VARIETY	OIL PERCENTAGES									MEAN
	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(B)	FAIRHOPE AL	FLORENCE SC	PLAINS GA	TALLASSEE AL(A)	TALLASSEE* AL(B)	TIFTON GA	
PRICHARD RR	18.4	18.3	.	18.6	18.5	19.2	19.6	20.0	.	18.8
COOK	18.9	18.1	.	18.5	18.8	19.1	17.1	18.5	.	18.4
G00-3234	19.0	19.1	.	19.4	20.7	19.6	20.2	20.4	.	19.7
G00-3364	19.6	18.7	.	18.9	19.0	19.3	19.9	19.8	.	19.2
G00-3880	19.6	18.6	.	20.0	19.8	19.6	19.4	19.6	.	19.5
G00-4071	19.4	19.5	.	18.8	19.3	19.7	19.9	18.7	.	19.4
G03-G113169RR	18.5	19.6	.	18.9	19.1	19.1	19.1	19.4	.	19.1
G99-1166	19.6	18.8	.	19.3	20.1	18.7	19.0	20.3	.	19.3
G99-1308	18.8	19.1	.	18.3	19.8	19.5	19.6	20.1	.	19.2
G99-3211	19.2	19.1	.	19.1	20.1	20.8	19.4	20.2	.	19.6
N96-6752	18.5	18.4	.	18.7	19.8	20.6	19.3	19.1	.	19.2
N97-9612	18.0	18.2	.	18.0	18.7	18.3	17.6	17.6	.	18.1
N97-9677	18.2	18.6	.	19.9	20.1	19.4	20.0	18.8	.	19.4
N98-7961	20.4	19.3	.	20.4	20.3	20.8	21.4	19.0	.	20.4
SC00-643RR	19.8	19.0	.	19.4	21.1	19.0	20.1	20.8	.	19.7
SC00-695RR	19.3	18.7	.	19.2	20.7	20.9	18.9	20.5	.	19.6
SC98-469	20.4	20.4	.	20.6	20.7	20.5	20.5	19.3	.	20.5
SC99-615	19.1	19.9	.	18.8	20.5	19.0	18.4	19.3	.	19.3

\*Data not included in mean

TABLE 81 ~ Continued

STRAIN/ VARIETY	PROTEIN PERCENTAGES									MEAN
	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(B)	FAIRHOPE AL	FLORENCE SC	PLAINS GA	TALLASSEE AL(A)	TALLASSEE* AL(B)	TIFTON GA	
PRICHARD RR	38.6	40.0	.	45.4	42.5	40.7	44.0	42.7	.	41.9
COOK	36.8	38.6	.	44.2	38.9	39.5	43.1	43.3	.	40.2
G00-3234	39.8	38.9	.	43.6	40.1	40.9	41.9	41.7	.	40.9
G00-3364	38.8	40.4	.	45.1	41.4	40.2	41.8	43.9	.	41.3
G00-3880	34.0	36.6	.	41.9	35.8	37.8	40.8	41.1	.	37.8
G00-4071	35.6	35.9	.	44.4	37.9	37.5	43.8	43.2	.	39.2
G03-G113169RR	39.2	37.3	.	45.3	41.0	41.6	45.2	42.7	.	41.6
G99-1166	37.1	35.6	.	44.3	39.6	38.7	43.5	41.0	.	39.8
G99-1308	36.8	36.2	.	40.9	38.2	37.9	39.9	40.3	.	38.3
G99-3211	36.4	36.8	.	44.2	38.9	37.4	42.8	42.2	.	39.4
N96-6752	37.9	38.0	.	42.4	38.6	35.8	41.0	42.7	.	39.0
N97-9612	36.7	36.6	.	42.6	38.2	38.4	43.2	43.0	.	39.3
N97-9677	39.5	37.5	.	42.0	38.2	39.6	41.1	42.4	.	39.7
N98-7961	35.8	36.6	.	41.9	41.1	36.4	41.3	40.6	.	38.9
SC00-643RR	40.5	40.3	.	44.4	38.8	40.8	42.7	42.7	.	41.3
SC00-695RR	36.9	38.8	.	43.7	39.0	39.0	43.1	41.5	.	40.1
SC98-469	36.6	38.3	.	42.4	39.1	39.4	41.9	41.4	.	39.6
SC99-615	37.5	36.3	.	44.3	39.4	39.8	43.7	43.4	.	40.2

\*Data not included in mean



TABLE 81 ~ Continued

STRAIN/ VARIETY	GRAMS PER 100 SEED									
	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(B)	FAIRHOPE AL	FLORENCE SC	PLAINS GA	TALLASSEE AL(A)	TALLASSEE* AL(B)	TIFTON GA	MEAN
PRI CHARD RR	10.8	12.1	15.6	12.9	12.8	10.3	13.2	15.0	12.0	12.5
COOK	14.2	14.2	17.9	16.0	14.3	14.4	13.3	16.1	15.7	15.0
G00-3234	12.7	13.4	16.7	13.9	14.4	13.5	12.8	16.5	12.5	13.7
G00-3364	13.5	15.6	17.8	14.9	14.4	13.5	13.2	17.3	12.6	14.5
G00-3880	12.6	13.1	16.7	14.9	12.9	15.1	14.4	14.4	13.4	14.1
G00-4071	13.0	12.5	15.4	14.8	13.9	13.4	14.6	15.2	12.7	13.8
G03-G113169RR	12.2	11.4	15.1	14.1	12.7	12.8	13.2	13.1	12.6	13.0
G99-1166	13.5	13.2	17.3	16.0	16.4	14.1	14.8	15.7	15.3	15.1
G99-1308	11.9	11.7	14.6	13.8	12.8	12.5	11.4	13.8	12.5	12.7
G99-3211	12.9	12.8	16.9	14.5	14.4	13.3	13.9	15.6	13.5	14.0
N96-6752	12.7	14.2	17.2	14.5	14.4	12.2	11.7	17.7	13.6	13.8
N97-9612	13.5	14.6	17.4	15.2	13.7	15.0	12.9	20.2	15.1	14.7
N97-9677	14.7	15.8	18.6	17.0	15.6	14.5	13.2	18.1	15.9	15.7
N98-7961	12.1	13.0	16.7	14.3	14.7	12.5	11.1	14.7	12.9	13.4
SC00-643RR	15.1	14.6	17.2	16.4	15.8	15.3	14.9	16.6	15.4	15.6
SC00-695RR	12.8	13.1	14.7	14.2	15.5	14.2	12.5	15.3	12.9	13.8
SC98-469	12.5	14.0	16.5	15.3	15.0	13.2	13.4	17.3	12.1	14.0
SC99-615	12.2	12.5	15.8	14.4	14.1	13.6	12.4	16.0	11.8	13.4

\*Data not included in mean

**TABLE 82 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN PRICHARD RR, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2004**

STRAIN/ VARIETY	EAST
	FLORENCE SC
PRI CHARD RR	10/29
COOK	-6
G00-3234	-4
G00-3364	-3
G00-3880	-9
G00-4071	-3
G03-G113169RR	-6
G99-1166	-3
G99-1308	-3
G99-3211	-3
N96-6752	-3
N97-9612	-8
N97-9677	-4
N98-7961	-3
SC00-643RR	-3
SC00-695RR	-3
SC98-469	-4
SC99-615	-5

TABLE 82 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(B)	FAIRHOPE AL	PLAINS GA	TALLASSEE AL(A)	TALLASSEE* AL(B)	TIFTON GA	MEAN
PRI CHARD RR	10/20	11/04	11/09	10/22	.	10/22	11/15	10/18	10/26
COOK	-2	-5	-11	-3	.	-7	-25	-2	-5
G00-3234	-2	-4	-6	-4	.	-5	0	-1	-3
G00-3364	-1	-2	-6	-4	.	-5	0	-1	-3
G00-3880	-5	-9	-11	-3	.	-6	-18	-3	-6
G00-4071	-1	-6	-8	-3	.	-4	0	0	-3
G03-G113169RR	-3	-7	-9	-3	.	-2	-17	-1	-4
G99-1166	0	-5	-8	-2	.	-3	-8	0	-3
G99-1308	-2	-4	-6	-2	.	-5	-9	-3	-4
G99-3211	3	-3	-5	-4	.	-5	-17	1	-2
N96-6752	-2	-3	-6	-3	.	-6	0	0	-3
N97-9612	-3	-5	-8	-2	.	-7	0	-3	-4
N97-9677	2	-3	-6	-2	.	-5	-9	0	-2
N98-7961	0	-2	-8	-4	.	-5	0	-1	-3
SC00-643RR	-1	-5	-8	-3	.	-5	-8	-2	-4
SC00-695RR	-1	-5	-11	-4	.	-4	0	0	-4
SC98-469	-2	-5	-10	-2	.	-7	-8	-2	-4
SC99-615	-2	-6	-8	-4	.	-6	0	-1	-4

\*Data not included in mean

**TABLE 83 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII,  
2004**

STRAIN/ VARIETY	EAST	
	FLORENCE	
	SC	
PRI CHARD RR	34	
COOK	33	
G00-3234	26	
G00-3364	28	
G00-3880	29	
G00-4071	31	
G03-G113169RR	29	
G99-1166	32	
G99-1308	27	
G99-3211	31	
N96-6752	23	
N97-9612	32	
N97-9677	29	
N98-7961	28	
SC00-643RR	28	
SC00-695RR	30	
SC98-469	28	
SC99-615	29	

TABLE 83 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(B)	FAIRHOPE AL	PLAINS GA	TALLASSEE AL(A)	TALLASSEE* AL(B)	TIFTON GA	MEAN
PRICHARD RR	50	39	42	41	43	43	24	37	42
COOK	46	34	36	39	46	39	23	39	40
G00-3234	47	39	40	37	44	40	20	35	40
G00-3364	48	39	40	33	44	39	19	32	39
G00-3880	41	32	37	32	45	38	18	33	37
G00-4071	45	38	39	36	42	39	22	35	39
G03-G113169RR	45	36	38	35	41	38	23	37	39
G99-1166	44	38	40	35	45	39	20	33	39
G99-1308	43	32	37	34	39	39	20	31	37
G99-3211	47	35	40	38	46	40	21	35	40
N96-6752	35	31	37	33	38	30	18	30	34
N97-9612	45	37	42	40	44	32	21	32	39
N97-9677	42	38	43	37	42	37	23	35	39
N98-7961	42	30	34	31	35	33	17	31	34
SC00-643RR	47	35	36	34	45	37	18	33	38
SC00-695RR	45	32	38	37	42	36	19	35	38
SC98-469	45	38	37	33	41	37	16	37	39
SC99-615	44	39	39	33	41	37	18	33	38

\*Data not included in mean

**TABLE 84 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP  
VIII, 2004**

STRAIN/ VARIETY	EAST	
	FLORENCE	SC
PRI CHARD RR	2.3	
COOK	1.7	
G00-3234	1.0	
G00-3364	1.3	
G00-3880	1.0	
G00-4071	1.0	
G03-G113169RR	1.3	
G99-1166	1.3	
G99-1308	2.0	
G99-3211	1.0	
N96-6752	1.0	
N97-9612	1.7	
N97-9677	1.3	
N98-7961	1.0	
SC00-643RR	1.7	
SC00-695RR	1.7	
SC98-469	1.7	
SC99-615	2.0	

TABLE 84 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS	ATHENS	BLACKVILLE	PLAINS	TALLASSEE	TALLASSEE*	TIFTON	MEAN
	GA(A)	GA(B)	SC(B)	GA	AL(A)	AL(B)	GA	
PRICHARD RR	4.3	4.7	4.0	4.0	2.3	1.0	2.7	3.7
COOK	3.0	2.7	3.3	4.0	1.0	1.0	2.3	2.7
G00-3234	3.7	4.0	3.7	3.0	1.3	1.0	2.3	3.0
G00-3364	3.3	3.7	3.2	2.7	1.7	1.0	2.0	2.8
G00-3880	3.0	2.7	2.7	3.7	1.7	1.0	1.3	2.5
G00-4071	3.3	2.7	2.8	3.7	1.7	1.0	2.3	2.8
G03-G113169RR	4.0	5.0	3.0	4.0	1.7	1.0	3.0	3.4
G99-1166	4.3	4.3	4.0	3.0	1.7	1.0	3.0	3.4
G99-1308	4.0	3.3	4.2	3.0	1.7	1.0	3.0	3.2
G99-3211	2.7	3.3	2.5	3.0	1.0	1.0	1.3	2.3
N96-6752	4.0	4.3	3.8	4.0	1.0	1.0	3.0	3.4
N97-9612	3.3	3.3	3.3	3.7	1.0	1.3	2.3	2.8
N97-9677	3.7	3.3	4.2	3.3	1.0	1.0	3.0	3.1
N98-7961	2.7	2.7	2.3	3.0	1.0	1.0	2.0	2.3
SC00-643RR	4.0	4.3	2.7	3.0	2.0	1.0	2.0	3.0
SC00-695RR	4.0	3.0	3.5	3.3	1.7	1.3	2.3	3.0
SC98-469	4.0	4.0	3.7	3.3	3.0	1.0	2.0	3.3
SC99-615	3.7	4.7	4.3	4.0	3.7	1.0	2.8	3.9

\*Data not included in mean

**TABLE 85 ~ SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2004**

**SOUTH**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	FAIRHOPE AL	PLAINS GA	TALLASSEE AL(A)	TALLASSEE* AL(B)	TIFTON GA	MEAN
PRICHARD RR	2.2	1.7	1.0	2.5	1.5	1.3	1.8	1.8
COOK	1.8	1.7	1.5	2.0	1.5	1.5	1.3	1.6
G00-3234	2.0	1.8	1.3	2.2	1.2	1.7	1.3	1.6
G00-3364	1.8	2.0	1.5	2.0	1.2	1.2	1.2	1.6
G00-3880	2.0	1.8	1.5	2.0	1.3	1.3	1.7	1.7
G00-4071	1.7	1.7	1.5	2.0	1.0	1.0	1.3	1.5
G03-G113169RR	1.8	1.5	1.2	1.8	1.2	1.2	1.8	1.6
G99-1166	1.8	1.8	1.5	2.3	1.5	1.5	1.5	1.8
G99-1308	1.8	1.5	1.5	2.0	1.2	1.0	1.2	1.5
G99-3211	1.8	1.8	1.3	2.0	1.2	1.0	1.5	1.6
N96-6752	2.2	1.8	1.5	2.0	1.7	1.2	1.5	1.8
N97-9612	2.0	1.7	1.3	2.0	1.3	1.5	1.7	1.7
N97-9677	1.8	1.7	1.5	2.0	1.5	1.5	1.8	1.7
N98-7961	1.7	1.7	1.7	2.0	1.7	1.0	1.2	1.6
SC00-643RR	1.7	1.7	1.0	1.8	1.2	1.5	1.8	1.5
SC00-695RR	1.7	1.5	1.2	1.7	1.0	1.5	1.2	1.4
SC98-469	1.8	1.7	1.3	2.2	1.3	0.5	1.0	1.6
SC99-615	2.0	2.2	1.7	2.0	1.7	1.5	1.2	1.8

**\*Data not included in mean**



**PRELIMINARY GROUP VIII****2004**

**Preliminary Group VIII nurseries were planted at 7 locations. Data were obtained from 6 of the locations. The parentage for each strain is reported in Table 86. Table 87 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 88 - 94.**

**TABLE 86 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2004**

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. PRICHARD RR	Coker Co82-622 x Howard	
2. COOK	Braxton x Young	
3. G03-394RR	G95-346 x H7242 RR	F5d
4. G03-425RR	G95-346 x H7242 RR	F5d
5. G03-533RR	G95-346 x H7242 RR	F5d
6. G03-548RR	G95-346 x H7242 RR	F5d
7. G03-695RR	G94-3117 x H7242 RR	F5d
8. G03-893RR	G94-3117 x H7242 RR	F5d
9. G03-952RR	G94-3117 x H7242 RR	F5d
10. NTC02AXB-717	N94-7440 x N7101	
11. SC01-793RR	SC91-2007 x {SC92-2482 x [Benning x (Hagood x BC1Resni kRR)]}	F5
12. SC01-794RR	SC91-2007 x {SC92-2482 x [Benning x (Hagood x BC1Resni kRR)]}	F5
13. SC01-798RR	SC91-2007 x {SC92-2482 x [Benning x (Hagood x BC1Resni kRR)]}	F5
14. SC01-803RR	SC92-2482 x {SC92-2482 x [Hagood x (Hagood x BC1Resni kRR)]}	F5
15. SC01-805RR	SC92-2482 x {SC92-2482 x [Hagood x (Hagood x BC1Resni kRR)]}	F5
16. SC01-809RR	SC92-2482 x {SC92-2482 x [Hagood x (Hagood x BC1Resni kRR)]}	F5
17. SC01-832RR	SC92-3091 x {SC92-2482 x [Benning x (Hagood x BC1Resni kRR)]}	F5
18. SC02-122	MAXCY x [(Maxcy x N474) x N94-199]	F6

**TABLE 87~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2004 ~ MEAN OF 6 LOCATIONS**

STRAIN/ VARIETY	SEED		AVG. RANK	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----		SCN 2	SCN 3	FL COLOR	PUB. COLOR	POD COLOR
	YIELD	RANK							PROTEIN	OIL					
PRICHARD RR	38.5	13	5	10/29	3.5	42	2.0	12.4	41.5	18.8	4.0	5.0			
COOK	42.3	5	4	8-	3.2	41	2.1	15.2	40.2	18.4	5.0	5.0			
G03-394RR	39.6	11	5	7-	2.9	44	2.1	16.0	39.9-	19.5	5.0	3.0	W	T	T
G03-425RR	28.6-	18	8	4-	3.2	49	2.0	13.1	38.7-	18.7	5.0	3.0	P	T	T
G03-533RR	41.7	8	4	3-	2.6	45	1.9	14.6	40.1-	19.6+	5.0	2.0	P	T	T
G03-548RR	42.0	7	4	5-	3.1	45	1.8	15.3	40.4	19.3	5.0	2.0	P	T	T
G03-695RR	44.8+	2	3	6-	3.6	42	2.0	15.4	40.7	18.4	5.0	1.0	W	T	T
G03-893RR	41.1	9	4	4-	3.5	45	2.1	13.9	38.9-	20.0+	5.0	1.0	W	G	T
G03-952RR	45.1+	1	3	6-	3.2	42	2.3	15.2	40.2	20.1+	5.0	3.0	W	G	T
NTC02AXB-717	40.4	10	5	4-	2.8	36	1.5	6.3	41.2	16.5-	5.0	5.0			
SC01-793RR	38.5	13	6	3-	3.5	43	2.1	14.3	38.9-	20.2+	5.0	3.0	W	T	T
SC01-794RR	38.1	17	5	3-	3.4	44	2.0	14.2	40.5	19.1	5.0	2.0	W	T	T
SC01-798RR	38.2	15	6	2-	3.7	44	1.8	15.7	39.6-	19.2	5.0	2.0	P	G	T
SC01-803RR	44.0	4	3	5-	2.0	40	1.7	13.9	40.8	18.9	5.0	1.0	W	G	T
SC01-805RR	44.1	3	3	6-	2.2	43	1.8	14.0	39.3-	20.0+	5.0	3.0	W	G	T
SC01-809RR	42.1	6	4	5-	1.9	38	1.9	14.5	40.4	19.8+	5.0	2.0	W	G	T
SC01-832RR	38.5	13	6	1-	2.8	43	1.9	15.3	40.9	18.9	5.0	2.0	W	T	T
SC02-122	38.1	17	6	7-	3.4	38	1.9	14.2	39.9-	19.9+	5.0	5.0	P	T	T
OVERALL MEAN	40.3								40.1	19.2					
LSD (.05)	6.0								1.3	0.7					
C. V.	12%								3%	3%					

**TABLE 88 ~ SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2004**

STRAIN/ VARIETY	ATHENS GA (A)	BEAUMONT* TX	BLACKVILLE SC (A)	FLORENCE SC	PLAINS GA	TALLASSEE AL (A)	MEAN
PRICHARD RR	40.4	13.2	42.4	34.1	29.4	46.5	38.5
COOK	48.0	28.5+	46.7	40.3	42.4+	34.1	42.3
G03-394RR	47.5	16.9+	40.8	28.6	38.6	42.4	39.6
G03-425RR	37.0	12.3-	25.7-	32.8	13.7-	34.0	28.6-
G03-533RR	46.1	14.2+	40.0	35.3	47.2+	40.1	41.7
G03-548RR	50.6+	22.5+	45.7	38.0	35.6	39.9	42.0
G03-695RR	41.1	13.9+	49.0	45.5+	41.4+	47.0	44.8+
G03-893RR	46.3	4.7-	42.4	37.2	38.7	41.0	41.1
G03-952RR	49.7+	11.5-	47.9	44.8+	43.6+	39.5	45.1+
NTC02AXB-717	45.3	24.5+	50.1	36.0	42.2+	28.1-	40.4
SC01-793RR	45.8	21.2+	43.7	30.2	33.8	39.1	38.5
SC01-794RR	46.1	28.2+	43.4	32.4	28.7	40.1	38.1
SC01-798RR	35.2	28.6+	42.1	39.5	36.9	37.2	38.2
SC01-803RR	46.4	15.3+	47.2	35.6	43.8+	46.8	44.0
SC01-805RR	50.4+	15.2+	46.0	34.7	43.2+	46.0	44.1
SC01-809RR	46.8	16.9+	39.9	36.2	41.4+	45.9	42.1
SC01-832RR	40.4	25.6+	45.6	39.3	30.8	36.6	38.5
SC02-122	40.6	34.1+	45.8	31.7	39.3	33.2-	38.1
L. S. D. (0.05)	8.6	0.0	11.1	7.6	9.9	13.1	6.0
C. V. (%)	9.2	0.0	12.1	10.0	12.5	14.9	11.7

**\*Data not included in mean**

**TABLE 89 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2004**

STRAIN/ VARIETY	ATHENS GA(A)	BLACKVILLE SC(A)	FLORENCE SC	PLAINS GA	TALLASSEE AL(A)	MEAN
PRICHARD RR	18.9	19.0	19.3	17.8	19.1	18.8
COOK	18.3	18.8	18.8	18.7	17.4	18.4
G03-394RR	19.2	19.8	19.9	19.3	19.1	19.5
G03-425RR	19.2	18.6	19.3	17.9	18.3	18.7
G03-533RR	19.1	20.3	21.0	18.4	19.4	19.6
G03-548RR	19.5	19.9	19.9	18.2	18.9	19.3
G03-695RR	17.6	18.9	19.1	18.2	18.1	18.4
G03-893RR	19.9	20.1	20.5	19.5	19.8	20.0
G03-952RR	19.6	20.4	20.1	19.5	20.7	20.1
NTC02AXB-717	16.3	17.2	16.7	17.0	15.2	16.5
SC01-793RR	20.2	21.0	19.4	19.5	21.0	20.2
SC01-794RR	19.0	19.0	20.5	18.7	18.5	19.1
SC01-798RR	19.2	19.3	19.8	18.7	19.2	19.2
SC01-803RR	19.9	18.6	18.4	19.1	18.7	18.9
SC01-805RR	19.7	19.6	20.3	19.4	20.8	20.0
SC01-809RR	18.2	20.3	20.3	20.0	20.3	19.8
SC01-832RR	19.2	18.6	19.7	18.2	18.8	18.9
SC02-122	19.7	19.8	20.3	20.1	19.8	19.9

**TABLE 90 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2004**

STRAIN/ VARIETY	ATHENS GA(A)	BLACKVILLE SC(A)	FLORENCE SC	PLAINS GA	TALLASSEE AL(A)	MEAN
PRICHARD RR	37.3	42.0	41.5	41.9	44.9	41.5
COOK	37.9	40.2	37.6	40.1	45.2	40.2
G03-394RR	36.7	40.9	39.4	39.4	43.0	39.9
G03-425RR	33.6	38.9	39.2	39.4	42.6	38.7
G03-533RR	38.2	39.1	39.7	39.8	43.7	40.1
G03-548RR	37.3	39.8	41.4	40.1	43.2	40.4
G03-695RR	38.4	40.2	41.4	40.5	43.2	40.7
G03-893RR	33.6	40.5	39.4	38.4	42.5	38.9
G03-952RR	37.1	39.5	41.4	39.7	43.3	40.2
NTC02AXB-717	38.0	41.2	41.0	40.6	45.2	41.2
SC01-793RR	36.3	38.5	39.0	39.1	41.4	38.9
SC01-794RR	37.7	40.4	39.6	40.3	44.3	40.5
SC01-798RR	37.1	39.7	39.4	39.9	41.7	39.6
SC01-803RR	34.9	43.1	40.8	40.3	44.8	40.8
SC01-805RR	36.3	40.7	39.4	39.3	40.7	39.3
SC01-809RR	39.0	39.8	40.7	39.4	43.3	40.4
SC01-832RR	38.2	41.0	40.7	41.7	43.1	40.9
SC02-122	37.4	40.5	39.7	38.3	43.8	39.9

**TABLE 91 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII,  
2004**

STRAIN/ VARIETY	ATHENS GA(A)	BLACKVILLE SC(A)	FLORENCE SC	PLAINS GA	TALLASSEE AL(A)	MEAN
PRICHARD RR	11.3	14.3	12.5	10.2	13.8	12.4
COOK	14.6	17.0	15.1	14.4	14.8	15.2
G03-394RR	14.2	18.1	16.0	15.4	16.4	16.0
G03-425RR	11.5	13.9	14.5	10.8	14.8	13.1
G03-533RR	13.3	15.6	16.4	12.9	15.1	14.6
G03-548RR	14.6	16.0	16.7	13.7	15.4	15.3
G03-695RR	12.8	18.1	17.4	13.7	15.1	15.4
G03-893RR	12.4	15.8	14.7	12.0	14.5	13.9
G03-952RR	12.8	16.4	18.0	13.3	15.4	15.2
NTC02AXB-717	5.6	7.0	6.4	6.3	6.4	6.3
SC01-793RR	13.9	15.9	14.9	12.5	14.2	14.3
SC01-794RR	13.0	15.7	14.4	12.4	15.7	14.2
SC01-798RR	14.2	18.5	17.5	13.7	14.9	15.7
SC01-803RR	12.5	15.4	15.2	12.7	13.6	13.9
SC01-805RR	13.6	16.2	15.1	12.7	12.6	14.0
SC01-809RR	12.4	16.4	16.3	13.6	14.1	14.5
SC01-832RR	13.2	17.4	16.8	13.9	15.2	15.3
SC02-122	12.4	16.6	15.3	12.9	14.0	14.2

**TABLE 92 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2004**

STRAIN/ VARIETY	ATHENS GA (A)	BEAUMONT* TX	BLACKVILLE SC (A)	FLORENCE SC	PLAINS GA	TALLASSEE AL (A)	MEAN
PRICHARD RR	44	23	47	35	46	42	42
COOK	43	30	47	36	40	41	41
G03-394RR	44	29	49	38	45	46	44
G03-425RR	49	39	52	43	53	48	49
G03-533RR	46	27	48	39	47	45	45
G03-548RR	48	30	49	40	49	43	45
G03-695RR	44	25	46	33	44	42	42
G03-893RR	46	32	50	40	44	45	45
G03-952RR	43	28	45	34	46	42	42
NTC02AXB-717	41	22	39	26	38	35	36
SC01-793RR	46	31	49	34	43	43	43
SC01-794RR	46	29	47	36	45	46	44
SC01-798RR	48	28	48	36	43	46	44
SC01-803RR	43	27	44	29	42	40	40
SC01-805RR	47	27	49	32	46	42	43
SC01-809RR	38	26	44	27	43	37	38
SC01-832RR	43	31	49	38	42	42	43
SC02-122	41	22	39	30	39	40	38

**\*Data not included in mean**



**TABLE 93 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2004**

STRAIN/ VARIETY	ATHENS GA(A)	BLACKVILLE SC(A)	FLORENCE SC	PLAINS GA	TALLASSEE AL(A)	MEAN
PRICHARD RR	4.5	2.8	2.5	4.5	3.0	3.5
COOK	3.5	4.0	2.0	4.5	2.0	3.2
G03-394RR	4.0	2.8	2.0	3.5	2.0	2.9
G03-425RR	3.0	4.0	3.0	4.0	2.0	3.2
G03-533RR	4.0	3.0	2.0	3.0	1.0	2.6
G03-548RR	4.5	3.5	2.5	3.5	1.5	3.1
G03-695RR	4.5	5.0	2.0	4.0	2.5	3.6
G03-893RR	4.0	4.5	2.5	4.0	2.5	3.5
G03-952RR	4.5	3.3	3.0	3.5	1.5	3.2
NTC02AXB-717	4.0	3.5	2.0	3.0	1.5	2.8
SC01-793RR	4.5	3.8	3.0	3.5	2.5	3.5
SC01-794RR	5.0	3.0	2.0	4.0	3.0	3.4
SC01-798RR	4.5	3.8	2.5	4.0	3.5	3.7
SC01-803RR	3.0	2.0	1.0	3.0	1.0	2.0
SC01-805RR	4.0	2.0	1.5	2.5	1.0	2.2
SC01-809RR	3.5	2.0	1.0	2.0	1.0	1.9
SC01-832RR	4.0	2.8	2.0	3.0	2.0	2.8
SC02-122	3.5	4.3	2.0	4.5	2.5	3.4

**TABLE 94 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2004**

STRAIN/ VARIETY	ATHENS GA(A)	BEAUMONT* TX	PLAINS GA	TALLASSEE AL(A)	MEAN
PRICHARD RR	1.8	4.0	2.8	1.5	2.0
COOK	2.0	4.3	2.3	2.0	2.1
G03-394RR	2.0	4.0	2.5	1.8	2.1
G03-425RR	2.0	4.5	2.5	1.5	2.0
G03-533RR	1.8	4.8	2.5	1.5	1.9
G03-548RR	2.0	4.5	2.3	1.3	1.8
G03-695RR	2.0	4.8	2.5	1.5	2.0
G03-893RR	2.0	5.0	2.8	1.5	2.1
G03-952RR	2.0	4.8	3.0	2.0	2.3
NTC02AXB-717	1.8	2.0	1.8	1.0	1.5
SC01-793RR	2.3	4.8	2.5	1.5	2.1
SC01-794RR	2.3	4.0	2.3	1.5	2.0
SC01-798RR	2.0	4.5	2.3	1.3	1.8
SC01-803RR	2.0	4.8	2.0	1.0	1.7
SC01-805RR	1.8	4.8	2.8	1.0	1.8
SC01-809RR	2.0	4.8	2.8	1.0	1.9
SC01-832RR	2.0	4.3	2.8	1.0	1.9
SC02-122	2.0	3.0	2.3	1.5	1.9