

# **UNIFORM SOYBEAN TESTS**

## **SOUTHERN STATES**

**2002**

**USDA-ARS  
Crop Genetics and Production Research Unit**

**141 Experiment Station Road  
P. O. Box 345  
Stoneville, Mississippi 38776**

**COORDINATED BY:  
Robert L. Paris**

**DATA COMPILED BY:  
Patricia P. Bell**

**The United States Department of Agriculture, Agricultural Research Service, does not vouch for the authenticity of either the parentage or ancestry of entries in the Uniform Soybean Tests. This agency is not responsible for the accuracy of data submitted to and included in the Uniform Soybean Test Report.**

**All programs and services of the U. S. Department of Agriculture are offered on a nondiscriminatory basis without regard to race, color, national origin, religion, sex, age, marital status, or handicap.**

# TABLE OF CONTENTS

INTRODUCTION .....	2
POLICY ON EVALUATION AND RELEASE OF STRAINS .....	3
ACKNOWLEDGEMENTS .....	4
UNIFORM TEST PARTICIPANTS .....	5
STRAIN DESIGNATION .....	7
SOYBEAN NURSERY LOCATIONS .....	8
METHODS .....	10
Cultural Practices .....	10
Maturity, Harvest, and Yield .....	10
Pest Assessment .....	11
Statistical Analyses .....	13
MATURITY GROUP IV-S	
UNIFORM .....	14
PRELIMINARY .....	41
MATURITY GROUP V	
UNIFORM .....	51
PRELIMINARY .....	79
MATURITY GROUP VI	
UNIFORM .....	89
PRELIMINARY .....	116
MATURITY GROUP VII	
UNIFORM .....	126
PRELIMINARY .....	143
MATURITY GROUP VIII	
UNIFORM .....	153
PRELIMINARY .....	170

## 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: KS4694, Manokin, Hutcheson, Boggs, Dillon, Benning, Haskell, Cook, and Prichard.

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.

## ACKNOWLEDGEMENTS

The cooperation of the following scientists is gratefully acknowledged for their ratings of the Uniform Test entries: Dr. Glenn Buss, Virginia Tech, Blacksburg, Virginia - soybean mosaic virus; Dr. Roger Boerma, University of Georgia, Athens, Georgia - soybean cyst nematode and root-knot nematode;

Dr. Patricia Donald, USDA-ARS, Jackson, Tennessee - soybean cyst nematode; Dr. Mike Schmidt, Southern Illinois University, Carbondale, Illinois - soybean sudden death syndrome; and Donna I. Thomas, National Center for Agricultural Utilization Research, USDA-ARS, Peoria, Illinois - protein and oil content.

The cooperation of Debbie Boykin, USDA-ARS, Stoneville, Mississippi, in the statistical analyses of the yield data from the Uniform Test Program and the assistance of Gary Shelton in processing and distributing the seed for the Uniform Tests is sincerely appreciated.

A special thanks to the following people whose cooperation and participation have helped to make the Uniform Soybean Tests Southern States possible:

D. B. Weaver, AU, Auburn, AL  
C. Norris, AU, Belle Mina, AL  
M. Pegues, AU, Fairhope, AL

P. Chen, UA, Fayetteville, AR  
J. D. Widick, ASU, Jonesboro, AR  
E. Gordon, UA, Keiser, AR  
D. Yadon, UA, Marianna, AR  
R. Cobill, UA, Pine Tree, AR  
S. Hayes, UA, Rowher, AR  
J. Branson, UA, Stuttgart, AR

R. Uniatowski, UD, Newark, DE

H. R. Boerma, UG, Athens, GA  
D. Day, GAES, Griffin, GA  
D. Wood, UG, Athens, GA

M. E. Schmidt, SIU, Carbondale, IL  
J. Klein, SIU, Carbondale, IL  
D. I. Thomas, USDA-ARS, Peoria, IL  
J. Sarins, USDA-ARS, Peoria, IL

W. T. Schapaugh, Jr., KSU, Manhattan, KS

T. W. Pfeiffer, UK, Lexington, KY  
E. Lacefield, UK, Lexington, KY

B. G. Harville, LSU, Baton Rouge, LA  
S. Dickey, LSU, Baton Rouge, LA  
J. L. Rabb, LSU, Bossier City, LA

W. J. Kenworthy, UM, College Park, MD

R. L. Paris, USDA-ARS, Stoneville, MS  
G. W. Shelton, USDA-ARS, Stoneville, MS  
B. W. White, MSU, Starkville, MS

G. J. Shannon, MU, Portageville, MO  
S. C. Anand, MU, Columbia, MO  
T. Newman, MU, Portageville, MO  
M. Woolard, MU, Portageville, MO

J. W. Burton, USDA-ARS, Raleigh, NC  
T. E. Carter, USDA-ARS, Raleigh, NC

K. R. Keim, OSU, Stillwater, OK

E. R. Shipe, CU, Clemson, SC  
P. F. Williams, Jr., CU, Clemson, SC  
R. K. Stephens, CU, Clemson, SC

V. R. Pantalone, UT, Knoxville, TN  
D. Ellis, UT, Knoxville, TN  
W. Pitt, UT, Knoxville, TN  
G. G. Percell, WTES, Jackson, TN  
P. Arelli, USDA-ARS, Jackson, TN  
P. Donald, USDA-ARS, Jackson, TN

J. J. Heitholt, TAES, Prosper, TX

G. R. Buss, VPI&SU, Blacksburg, VA  
C. L. Barrack, EVAREC, Warsaw, VA  
D. E. Starner, NPAREC, Orange, VA  
D. L. Holshouser, TAREC, Suffolk, VA  
T. Mebrahtu, VSU, Petersburg, VA

## UNIFORM TEST PARTICIPANTS - 2002

Dr. Sam C. Anand  
 Dept. of Agronomy, University of Missouri  
 Columbia, MO 65211  
 (573) 882-0318  
 (573) 882-1467 {Fax}  
 anandS@missouri.edu

Dr. Prakash Arelli  
 USDA-ARS, Nematology Research  
 605 Airways Blvd.  
 Jackson, TN 38301  
 (901) 425-4741  
 (901) 425-4760 {Fax}  
 parelli@ars.usda.gov

Dr. H. Roger Boerma  
 Dept. of Agronomy, University of Georgia  
 3111 Plant Sciences Bldg.  
 Athens, GA 30602  
 (706) 542-0927  
 (706) 542-0914 {Fax}  
 rboerma@arches.uga.edu

Dr. Joe W. Burton  
 USDA-ARS, Plant Science Research  
 North Carolina State University  
 P. O. Box 7631  
 Raleigh, NC 27695-7631  
 (919) 515-2734  
 (919) 856-4598 {Fax}  
 joe\_burton@ncsu.edu

Dr. Glenn R. Buss  
 Dept. of Crop and Soil Environmental  
 Sciences  
 VPI and State University  
 Blacksburg, VA 24061-0404  
 (540) 231-9788  
 (540) 231-3431 {Fax}  
 gbuss@vt.edu

Dr. Thomas E. Carter  
 USDA-ARS, Plant Science Research  
 North Carolina State University  
 P.O. Box 7631  
 Raleigh, NC 27695-7631  
 (919) 513-1480  
 (919) 856-4598 {Fax}  
 tommy\_carter@ncsu.edu

Dr. Pengyin Chen  
 Dept. of Crop, Soil and Environmental  
 Sciences  
 University of Arkansas  
 115 Plant Science Building  
 Fayetteville, AR 72701  
 (501) 575-7564  
 pchen@uark.edu

Dr. Patricia Donald  
 USDA-ARS, Nematology Research  
 605 Airways Blvd.  
 Jackson, TN 38301  
 (901) 425-4741  
 (901) 425-4760 {Fax}  
 pdonald@ars.usda.gov

Dr. B. G. Harville  
 Dept. of Agronomy  
 Louisiana Agriculture Experiment Station  
 Room 112, M. B. Sturgis Hall  
 Baton Rouge, LA 70803-2210  
 (225) 388-1216  
 (225) 388-1403 {Fax}  
 bharville@agctr.lsu.edu

Dr. James J. Heitholt  
 Texas Agricultural Experiment Station  
 17360 Coit Road  
 Dallas, TX 75252  
 (972) 952-9230  
 j-heitholt@tamu.edu

Dr. Kent R. Keim  
 Dept. of Plant and Soil Sciences  
 Oklahoma State University  
 368 Agricultural Hall  
 Stillwater, OK 74078-6028  
 (405) 624-7397  
 (405) 744-5269 {Fax}  
 kkent@mail.pss.okstate.edu

Dr. Bill J. Kenworthy  
 Dept. of N.R.S.L.  
 University of Maryland  
 Room 112, H. J. Patterson  
 College Park, MD 20742-5821  
 (301) 405-1324  
 (301) 314-9041 {Fax}  
 wk7@umail.umd.edu

Dr. Tadesse Mebrahtu  
 M. T. Carter Research Center  
 P. O. Box 9289  
 Petersburg, VA 23806  
 (804) 524-5953  
 (804) 524-5186 {Fax}  
 tmebraht@vsu.edu

Dr. Vince R. Pantalone  
 Dept. of Plant and Soil Sciences  
 University of Tennessee  
 P. O. Box 1071  
 Knoxville, TN 37901-1071  
 (865) 974-8801  
 (865) 974-7997 {Fax}  
 vpantalo@utk.edu

Dr. Robert L. Paris  
 USDA-ARS  
 Crop Genetics and Production Research Unit  
 P. O. Box 345  
 Stoneville, MS 38776  
 (662) 686-3127  
 (662) 686-5218 {Fax}  
 bparis@ars.usda.gov

Dr. Todd W. Pfeiffer  
 Dept. of Agronomy  
 University of Kentucky  
 N-122 Agriculture Science Bldg. - North  
 Lexington, KY 40546-0091  
 (859) 257-4678  
 (859) 323-1952 {Fax}  
 tpfeiffe@ca.uky.edu

Dr. Bill T. Schapaugh, Jr.  
 Dept. of Agronomy,  
 2004 Throckmorton Hall  
 Kansas State University  
 Manhattan, KS 66506-5501  
 (785) 532-7242  
 (785) 532-6094 {Fax}  
 scha0035@ksu.edu

Dr. Michael E. Schmidt  
 Dept. of Plant and Soil Sciences  
 Southern Illinois University  
 Mailcode 4415  
 Carbondale, IL 62901-4415  
 (618) 453-1784  
 (618) 453-1778 {Fax}  
 mesch@siu.edu

Dr. Grover J. Shannon  
 Delta Center  
 University of Missouri  
 Highway T, P. O. Box 160  
 Portageville, MO 63873  
 (573) 379-5431  
 (573) 379-5875 {Fax}  
 shannong@missouri.edu

Dr. Emerson R. Shipe  
 Agronomy and Soils, Clemson University  
 275 Poole Agricultural Center  
 Box 340359  
 Clemson, SC 29634-0359  
 (864) 656-3524  
 (864) 656-3443 {Fax}  
 eshipe@clemson.edu

Dr. David B. Weaver  
 Dept. of Agronomy and Soils  
 Auburn University  
 202 Funchess Hall  
 Auburn, AL 36849  
 (334) 844-3982  
 (334) 844-3945 {Fax}  
 dweaver@acesag.auburn.edu

Dr. J. Darell Widick  
 Agriculture Research  
 Arkansas State University  
 P. O. Box 2340  
 State University, AR 72467  
 (870) 972-2043  
 (870) 972-3885 {Fax}  
 jwidick@creek.astate.edu

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



## SOYBEAN NURSERY LOCATIONS

### EAST COAST

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

### SOUTHEAST

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

### UPPER AND CENTRAL SOUTH

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

U - Uniform nursery grown

P - Preliminary nursery grown

\* - Inches

## SOYBEAN NURSERY LOCATIONS - Continued

## DELTA

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

## WEST

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

U - Uniform nursery grown

P - Preliminary nursery grown

\* - Inches

## METHODS

### CULTURAL PRACTICES

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

### MATURITY, HARVEST, AND YIELD

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

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

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

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

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

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

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

Factors considered in estimating seed quality were development of seed,

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

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

### **PEST ASSESSMENT**

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

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

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

Thirty days after inoculation, roots of two of the standard check plants were examined for galls to assess whether to begin the process of evaluating the

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

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

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

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

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

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

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

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

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

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

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

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

### **STATISTICAL ANALYSES**

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

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

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

## UNIFORM GROUP IV-S

2002

Uniform Group IV-S nurseries were planted at 21 locations. Data were obtained from 17 of these locations. The parentage for each strain is reported in Table 1. Table 2 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil, protein, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 3 - 8.

**TABLE 1 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S,  
2002**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 x D74-7824	
2. KS 4694	Sherman x Toano	
3. KS4602N	Del soy4710 x K1191	
4. DT 97-4290	A5979 x DP3478	F5
5. DT 98-9102	N90-516 x P9592	F5
6. K1525	S92-2713 x KY88-4080	
7. K1526	MANOKIN x K1307	
8. LS97-1610	S90-1435 x Manokin	
9. Md 96-5275	KY 88-4080 x Manokin	F5
10. Md 97-6491	Holladay x Stressland	F5
11. Md 98-5579	S91-5371-19 x LN89-3615	F5
12. R98-1817	Hartz 5545 x KS 4895	
13. S99-2281	N90-516 x S92-1069	
14. TN96-115	K1192 x MANOKIN	
15. TN98-170	TN88-63 x TN 5-92	
16. TN99-184	K1309 x V90-1012	
17. TN99-186	K1309 x V90-1012	



**TABLE 2 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S,  
2002**

STRAIN/ VARIETY	RANK 2002	AVERAGE RANK 2002	YIELD*			PROTEIN			OIL		
			2002	01-02	00-02	2002	01-02	00-02	2002	01-02	00-02
MANOKIN	6	7	44.5	43.6	44.5	41.5	40.0	40.3	20.8	21.3	20.9
KS 4694	16	12	41.3	43.1	44.3	41.2	40.8	41.2	21.2	21.5	21.0
KS4602N	7	8	44.4	.	.	43.0	.	.	20.5	.	.
DT 97-4290	4	7	45.2	.	.	42.5	.	.	19.7	.	.
DT 98-9102	1	6	46.7	.	.	40.1	.	.	20.9	.	.
K1525	13	11	42.1	.	.	42.5	.	.	20.6	.	.
K1526	14	10	41.9	.	.	40.6	.	.	22.3	.	.
LS97-1610	11	10	42.6	45.0	.	42.4	41.4	.	20.4	21.0	.
Md 96-5275	8	9	43.4	44.7	45.5	40.8	40.4	40.6	21.0	21.2	20.9
Md 97-6491	12	9	42.3	43.9	.	44.4	43.8	.	19.4	19.6	.
Md 98-5579	17	14	38.4	.	.	42.7	.	.	20.1	.	.
R98-1817	2	6	46.7	.	.	42.4	.	.	19.1	.	.
S99-2281	3	6	45.6	.	.	41.0	.	.	20.1	.	.
TN96-115	9	8	43.2	.	.	41.9	.	.	19.5	.	.
TN98-170	5	9	44.8	.	.	41.2	.	.	20.5	.	.
TN99-184	10	9	42.9	.	.	41.5	.	.	19.4	.	.
TN99-186	15	11	41.8	.	.	41.4	.	.	20.0	.	.

\*Data not included in mean: **2002 - Orange,VA**  
**2001 - Ullin, IL**  
**2000 - Cooper, TX**

TABLE 2 ~ Continued

## BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
MANOKIN	W	09/26	1.8	29	2.0	12.2	T	T
KS 4694	W	6-	1.5	30	2.3	14.1	G	BR
KS4602N	P	5-	1.5	31	2.1	14.3	T	T
DT 97-4290	P	2-	1.9	37	2.3	14.4	T	T
DT 98-9102	W	2+	1.5	31	2.0	13.8	G	T
K1525	W	2+	1.7	29	2.0	13.3	G	BR
K1526	P	2+	1.7	26	2.3	12.2	T	T
LS97-1610	P	1-	1.5	27	2.1	11.8	G	T
Md 96-5275	W	2-	1.4	27	1.8	11.4	G	T
Md 97-6491	P	6-	1.3	32	2.5	14.8	T	T
Md 98-5579	P	7-	1.9	31	2.5	13.4	T	BR
R98-1817	P	2+	1.4	28	1.9	11.0	G	T
S99-2281	W	4+	1.8	31	2.1	12.2	G	T
TN96-115	W	1-	1.9	29	2.2	10.8	G	T
TN98-170	W	2+	1.5	27	2.1	12.0	T	T
TN99-184	P	2+	1.2	24	1.9	12.9	G	T
TN99-186	P	1-	1.5	28	2.2	13.0	G	T

## PEST REACTIONS

STRAIN/ VARIETY	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER
MANOKIN	3.6	1.0	3.7	1.5	3.5	S	R
KS 4694	5.0	4.0	4.7	5.0	2.8	S	MS
KS4602N	4.7	1.3	2.4	5.0	4.0	S	S
DT 97-4290	5.0	4.4	3.7	5.0	4.5	R	R
DT 98-9102	4.7	3.9	4.7	5.0	3.0	S	R
K1525	2.9	1.0	4.2	5.0	2.0	S	R
K1526	5.0	1.3	4.6	2.3	5.0	S	R
LS97-1610	5.0	1.2	4.5	1.0	3.5	S	S
Md 96-5275	4.8	1.0	4.0	5.0	2.8	S	R
Md 97-6491	4.3	4.7	4.7	5.0	5.0	R	SEG
Md 98-5579	2.0	1.5	4.3	4.8	3.8	S	R
R98-1817	4.8	4.0	4.9	5.0	2.8	S	SEG
S99-2281	1.1	1.4	1.0	1.0	4.3	S	MR
TN96-115	4.6	4.3	5.0	1.0	3.0	S	R
TN98-170	2.0	1.3	4.8	2.8	5.0	S	R
TN99-184	3.5	4.5	4.5	5.0	4.8	R	R
TN99-186	4.9	4.4	4.8	5.0	5.0	S	R

**TABLE 3 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2002**

**EAST**

STRAIN/ VARIETY	GEORGETOWN	ORANGE*	PLYMOUTH	QUEENSTOWN	WARSAW	MEAN
	DE	VA	NC	MD	VA	
MANOKIN	65.8	27.7	58.1	44.5	34.7	50.8
KS 4694	72.9	25.2	55.5	34.7	20.6	45.9
KS4602N	66.2	27.4	51.3	31.0	23.9	43.1
DT 97-4290	66.4	21.7	55.9	44.9	31.3	49.6
DT 98-9102	61.9	19.4	60.5	48.7	39.4	52.7
K1525	67.8	25.2	52.4	37.6	31.7	47.4
K1526	65.8	29.7	47.9	44.0	34.4	48.0
LS97-1610	64.4	19.8	48.1	45.3	30.4	47.0
Md 96-5275	68.8	25.5	56.9	39.1	32.2	49.2
Md 97-6491	71.9	21.4	53.2	35.6	21.2	45.5
Md 98-5579	64.8	15.5	46.2	34.6	19.8	41.4
R98-1817	64.8	23.9	69.0	43.7	34.2	52.9
S99-2281	60.7	19.9	60.1	46.1	34.8	50.4
TN96-115	54.4	22.5	46.6	45.6	35.8	45.6
TN98-170	64.4	18.2	58.1	41.6	33.8	49.5
TN99-184	67.8	21.8	63.4	47.7	34.4	53.3
TN99-186	63.5	19.5	55.1	42.9	27.7	47.3
L. S. D. (0.05)	6.9	8.5	6.9	5.6	4.2	.
C. V. (%)	6.4	20.6	7.3	8.1	8.2	.

\*Data not included in mean

TABLE 3 ~ Continued

STRAIN/ VARIETY	SOUTH				MEAN
	KNOXVILLE TN	PRINCETON KY	STARKVILLE MS	ULLIN IL	
MANOKIN	44.4	40.8	59.5	49.7	48.6
KS 4694	44.6	35.3	39.9	48.5	42.0
KS4602N	51.7	40.9	46.7	52.6	48.0
DT 97-4290	45.0	39.6	52.1	47.1	45.9
DT 98-9102	53.4	38.8	52.3	46.8	47.8
K1525	44.0	40.0	47.8	50.2	45.5
K1526	44.5	38.2	46.9	45.1	43.7
LS97-1610	42.9	39.4	51.2	49.2	45.7
Md 96-5275	43.1	41.7	49.2	53.8	47.0
Md 97-6491	35.4	34.1	53.0	53.3	43.9
Md 98-5579	34.5	31.6	38.1	50.7	38.7
R98-1817	41.4	41.8	57.6	45.6	46.6
S99-2281	49.1	40.5	56.6	45.9	48.0
TN96-115	49.5	39.8	52.6	51.6	48.4
TN98-170	46.1	39.4	54.3	52.6	48.1
TN99-184	44.2	40.9	45.3	52.4	45.7
TN99-186	35.7	39.1	47.7	47.1	42.4
L. S. D. (0.05)	5.9	4.8	8.2	10.0	.
C. V. (%)	8.1	7.4	9.9	12.2	.

TABLE 3 ~ Continued

STRAIN/ VARIETY	DELTA					MEAN
	KEISER AR	MARIANNA AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
MANOKIN	53.1	36.2	54.8	40.1	66.8	50.2
KS 4694	54.7	37.7	48.4	53.0	53.7	49.5
KS4602N	58.8	46.4	53.3	59.5	56.1	54.8
DT 97-4290	57.7	45.8	54.1	47.1	62.3	53.4
DT 98-9102	54.3	47.3	54.5	46.0	74.7	55.4
K1525	53.6	47.0	52.6	31.1	62.1	49.3
K1526	44.0	39.6	53.3	35.3	63.1	47.0
LS97-1610	56.8	44.9	54.4	36.1	68.2	52.1
Md 96-5275	58.3	41.9	58.0	35.0	57.0	50.0
Md 97-6491	58.2	43.4	53.5	47.4	46.4	49.8
Md 98-5579	54.0	43.5	48.4	38.6	53.4	47.6
R98-1817	62.6	44.6	61.9	46.2	70.6	57.2
S99-2281	62.0	50.8	63.8	24.9	71.7	54.6
TN96-115	48.9	37.0	53.4	38.8	66.0	48.8
TN98-170	47.6	39.0	53.0	35.2	73.5	49.6
TN99-184	52.3	44.7	51.3	23.8	56.4	45.7
TN99-186	56.6	45.0	60.7	26.5	64.4	50.6
L. S. D. (0.05)	6.5	4.7	4.8	8.5	7.8	.
C. V. (%)	7.1	6.5	5.3	13.1	7.5	.

TABLE 3 ~ Continued

STRAIN/ VARIETY	WEST				MEAN
	BIXBY OK	MCCUNE KS	PITTSBURG KS	PROSPER TX	
MANOKIN	32.5	32.4	22.8	21.1	27.2
KS 4694	27.3	26.3	18.3	30.9	25.7
KS4602N	33.7	27.0	22.8	33.6	29.3
DT 97-4290	32.1	29.9	20.4	36.5	29.7
DT 98-9102	36.3	31.8	19.8	27.6	28.9
K1525	29.2	25.6	18.4	24.6	24.4
K1526	35.7	30.6	20.6	23.9	27.7
LS97-1610	20.7	30.0	21.7	20.5	23.2
Md 96-5275	31.3	29.4	19.5	23.1	25.8
Md 97-6491	30.2	30.5	18.1	34.3	28.3
Md 98-5579	27.5	19.9	17.1	29.6	23.5
R98-1817	32.8	33.5	20.0	23.0	27.3
S99-2281	36.9	31.5	23.4	16.9	27.2
TN96-115	36.4	32.2	19.8	25.7	28.5
TN98-170	28.7	27.7	21.8	.	26.1
TN99-184	33.0	29.6	17.1	24.7	26.1
TN99-186	28.7	28.8	19.9	21.6	24.7
L. S. D. (0.05)	7.7	2.6	2.9	8.2	.
C. V. (%)	14.9	5.4	8.8	16.4	.

TABLE 4 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM IV-S, 2002

## OIL PERCENTAGES

STRAIN/ VARIETY	KNOX-				PITTS-		PORTAGE-		PORTAGE-		QUEENS-		STONE-		WARSAW VA	MEAN
	BIXBY OK	VILLE TN	MCCUNE KS	ORANGE* VA	BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	PRINCETON KY	PROSPER TX	TOWN MD	VILLE MS	ULLIN* IL			
MANOKIN	21.7	22.2	19.6	20.2	.	20.9	21.8	.	20.0	21.6	19.0	22.0	21.3	19.2	20.8	
KS 4694	20.8	21.5	20.1	19.1	.	21.4	21.0	.	22.4	22.8	20.4	21.9	21.5	19.8	21.2	
KS4602N	20.2	20.3	20.6	19.7	.	20.4	21.0	.	20.4	21.5	20.8	21.1	20.0	18.8	20.5	
DT 97-4290	19.5	20.7	19.5	18.0	.	18.1	20.3	.	19.5	21.4	19.3	20.3	19.6	18.3	19.7	
DT 98-9102	21.3	22.2	21.7	19.0	.	21.4	19.9	.	21.1	21.5	19.9	21.4	20.2	19.8	20.9	
K1525	21.7	20.6	22.3	19.7	.	20.3	21.5	.	20.9	20.4	19.5	19.2	21.5	18.6	20.6	
K1526	22.6	23.0	23.0	20.0	.	22.4	21.8	.	23.0	23.7	20.8	22.3	21.9	20.5	22.3	
LS97-1610	20.8	21.5	21.3	19.4	.	19.1	20.6	.	20.8	20.7	19.8	21.0	20.2	18.8	20.4	
Md 96-5275	21.8	21.6	21.7	18.3	.	18.9	20.7	.	21.7	23.4	18.8	21.8	21.7	19.2	21.0	
Md 97-6491	19.0	21.0	19.2	18.1	.	19.1	19.6	.	19.7	21.1	18.6	18.8	19.7	17.6	19.4	
Md 98-5579	19.6	20.2	19.5	19.2	.	20.0	20.0	.	20.3	21.1	19.9	21.4	20.6	18.7	20.1	
R98-1817	19.6	20.0	19.7	18.3	.	18.2	18.9	.	20.3	19.1	17.6	19.5	19.2	18.4	19.1	
S99-2281	21.3	21.1	20.9	18.3	.	19.2	19.6	.	20.5	21.8	19.0	19.4	19.9	18.6	20.1	
TN96-115	19.8	20.2	20.2	18.2	.	18.7	19.2	.	20.3	19.9	18.7	20.3	18.6	18.7	19.5	
TN98-170	20.0	21.2	22.7	18.1	.	19.8	20.9	.	20.1	20.5	20.4	20.2	19.9	19.3	20.5	
TN99-184	20.3	19.9	20.0	17.7	.	19.1	19.3	.	20.6	19.1	18.4	20.0	19.4	16.8	19.4	
TN99-186	20.2	21.3	20.1	20.0	.	20.2	20.8	.	19.3	20.1	19.2	19.6	20.9	18.0	20.0	

\*Data not included in mean

TABLE 4 ~ Continued

## PROTEIN PERCENTAGES

STRAIN/ VARIETY	KNOX-				PITTS-		PORTAGE-		PORTAGE-		QUEENS-		STONE-		WARSAW VA	MEAN
	BIXBY OK	VILLE TN	MCCUNE KS	ORANGE* VA	BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	PRINCETON KY	PROSPER TX	TOWN MD	VILLE MS	ULLIN* IL			
MANOKIN	44.5	41.4	41.0	38.6	.	40.4	39.4	.	43.4	42.8	39.7	40.5	41.8	41.8	41.5	
KS 4694	45.4	42.3	40.8	39.1	.	42.7	40.6	.	38.9	36.1	42.1	41.1	40.9	42.6	41.2	
KS4602N	42.2	42.6	40.0	41.6	.	45.0	42.5	.	44.7	42.1	44.3	42.2	42.6	44.7	43.0	
DT 97-4290	44.5	41.8	39.9	40.0	.	42.7	41.2	.	43.7	41.6	41.6	41.0	42.7	46.5	42.5	
DT 98-9102	43.0	39.6	36.4	37.8	.	39.0	38.5	.	41.4	41.5	41.4	38.2	40.8	41.7	40.1	
K1525	42.4	42.2	37.9	40.6	.	42.7	41.1	.	44.6	43.7	44.5	42.9	40.9	44.5	42.5	
K1526	42.9	41.2	36.8	38.1	.	40.7	39.5	.	42.0	38.1	41.4	43.0	39.7	41.4	40.6	
LS97-1610	46.3	43.3	39.1	39.8	.	42.1	40.6	.	43.9	43.6	42.8	41.0	41.6	42.6	42.4	
Md 96-5275	41.8	41.5	38.7	37.8	.	40.6	41.2	.	41.5	40.4	40.5	39.9	39.8	42.5	40.8	
Md 97-6491	47.7	45.4	42.8	41.7	.	44.3	42.3	.	42.8	42.5	43.6	45.1	44.7	47.2	44.4	
Md 98-5579	43.8	44.2	41.4	40.0	.	43.6	42.2	.	44.1	43.7	42.6	40.3	42.2	41.9	42.7	
R98-1817	42.2	42.3	39.7	41.1	.	43.9	42.1	.	43.7	42.5	43.7	41.4	41.7	43.0	42.4	
S99-2281	41.5	41.9	37.8	36.9	.	40.3	39.5	.	43.4	41.7	40.9	41.1	42.0	41.2	41.0	
TN96-115	41.3	42.8	38.5	40.5	.	43.0	42.4	.	41.8	41.7	43.2	40.8	42.5	43.4	41.9	
TN98-170	39.7	42.1	37.9	41.4	.	40.9	40.6	.	41.6	43.7	42.5	40.1	41.4	42.2	41.2	
TN99-184	41.7	41.5	40.0	40.3	.	41.1	37.9	.	44.5	41.9	42.9	40.5	40.4	43.8	41.5	
TN99-186	40.9	41.3	40.9	39.2	.	41.1	40.3	.	41.0	42.4	41.9	40.0	40.5	44.7	41.4	

\*Data not included in mean



TABLE 4 ~ Continued

## GRAMS PER 100 SEED

STRAIN/ VARIETY	KNOX-		MCCUNE KS	ORANGE* VA	PITTS-		PORTAGE-		PORTAGE- MO(B)	PRINCETON KY	PROSPER TX	QUEENS-		STONE-		ULLIN* IL	WARSAW VA	MEAN
	BIXBY OK	VILLE TN			BURG KS	PLYMOUTH NC	VILLE MO(A)	TOWN MD				VILLE MS	WARSAW VA					
MANOKIN	12.9	11.4	13.2	16.5	10.3	.	11.0	10.0	12.2	11.9	15.2	.	10.9	15.5	12.2			
KS 4694	13.7	15.6	11.8	19.1	11.6	.	14.9	13.1	14.2	11.2	17.7	.	13.9	17.0	14.1			
KS4602N	14.7	15.1	12.5	19.2	11.4	.	14.5	14.5	14.4	12.1	15.6	.	14.8	17.1	14.3			
DT 97-4290	14.4	15.5	13.6	19.1	11.6	.	13.5	13.3	14.1	12.7	17.7	.	12.5	19.5	14.4			
DT 98-9102	13.4	16.1	14.1	17.8	12.3	.	13.3	10.7	12.9	11.6	18.1	.	12.4	17.2	13.8			
K1525	13.8	13.4	11.9	19.6	11.5	.	12.7	11.0	12.8	12.9	16.3	.	13.4	16.6	13.3			
K1526	12.9	12.3	12.7	17.2	11.2	.	10.8	9.7	11.5	10.3	15.2	.	10.4	16.7	12.2			
LS97-1610	10.7	11.9	11.2	15.7	10.0	.	10.8	10.2	12.1	10.1	15.3	.	11.1	16.7	11.8			
Md 96-5275	11.5	11.5	10.9	15.5	9.7	.	11.2	10.1	10.8	10.5	13.9	.	11.3	13.6	11.4			
Md 97-6491	14.7	16.2	13.3	17.3	14.3	.	13.9	15.1	14.4	14.3	16.0	.	15.1	15.5	14.8			
Md 98-5579	12.6	13.3	10.3	17.7	10.9	.	13.6	12.9	13.8	14.0	15.0	.	13.1	18.2	13.4			
R98-1817	10.7	10.5	11.2	15.9	9.1	.	10.5	9.3	10.9	8.9	14.5	.	10.4	15.4	11.0			
S99-2281	12.9	13.3	13.2	14.6	10.3	.	11.9	10.3	10.6	11.0	15.1	.	10.8	14.6	12.2			
TN96-115	11.3	10.7	11.1	14.8	9.5	.	9.2	8.3	10.5	9.7	13.8	.	9.6	15.5	10.8			
TN98-170	11.3	13.5	11.0	14.7	9.6	.	10.8	9.7	11.4	11.7	15.7	.	10.0	17.0	12.0			
TN99-184	13.5	13.8	13.3	17.7	10.2	.	13.1	10.8	11.9	12.1	16.4	.	11.9	15.4	12.9			
TN99-186	14.1	13.4	12.8	17.6	10.6	.	12.6	12.7	12.0	10.3	15.7	.	12.0	17.2	13.0			

\*Data not included in mean

**TABLE 5 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN MANOKIN, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2002**

<b>EAST</b>						
STRAIN/ VARIETY	GEORGETOWN DE	ORANGE* VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	10/12	10/17	10/05	10/21	.	10/12
KS 4694	-9	-2	-6	-2	.	-5
KS4602N	-8	-10	-2	-2	.	-3
DT 97-4290	-6	0	-5	-3	.	-4
DT 98-9102	7	7	-4	4	.	3
K1525	-3	9	5	4	.	3
K1526	-1	4	6	0	.	2
LS97-1610	-5	1	11	1	.	3
Md 96-5275	-4	-2	2	2	.	1
Md 97-6491	-9	-10	11	-1	.	1
Md 98-5579	-7	-5	-11	0	.	-5
R98-1817	0	4	3	5	.	3
S99-2281	7	7	8	3	.	7
TN96-115	-5	7	-1	4	.	0
TN98-170	-2	7	1	4	.	2
TN99-184	-1	9	11	3	.	5
TN99-186	-4	9	5	3	.	2

\*Data not included in mean

TABLE 5 ~ Continued

STRAIN/ VARIETY	SOUTH				MEAN
	KNOXVILLE TN	PRINCETON KY	STARKVILLE MS	ULLIN IL	
MANOKIN	09/26	.	.	09/30	09/28
KS 4694	-14	.	.	-3	-9
KS4602N	-10	.	.	-2	-6
DT 97-4290	-7	.	.	-1	-4
DT 98-9102	1	.	.	0	1
K1525	1	.	.	1	1
K1526	2	.	.	3	2
LS97-1610	-4	.	.	-1	-3
Md 96-5275	-2	.	.	-2	-2
Md 97-6491	-15	.	.	-5	-10
Md 98-5579	-17	.	.	-6	-11
R98-1817	1	.	.	2	2
S99-2281	4	.	.	2	3
TN96-115	0	.	.	0	0
TN98-170	2	.	.	2	2
TN99-184	2	.	.	1	2
TN99-186	-8	.	.	1	-3

TABLE 5 ~ Continued

## DELTA

STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN 09/21
MANOKIN	09/20	09/20	09/29	09/25	09/13	09/21
KS 4694	-3	-6	-7	-5	-6	-5
KS4602N	1	-5	-7	-3	-6	-4
DT 97-4290	3	1	1	0	0	1
DT 98-9102	4	1	3	1	0	2
K1525	4	4	0	0	0	2
K1526	4	5	3	0	-2	2
LS97-1610	0	-3	-2	-3	-1	-1
Md 96-5275	-4	-5	-2	-2	-2	-3
Md 97-6491	0	-7	-8	-7	-4	-5
Md 98-5579	-4	-7	-7	-7	-4	-5
R98-1817	6	4	4	1	-1	3
S99-2281	6	4	3	-1	0	3
TN96-115	0	-1	0	0	-2	0
TN98-170	2	4	2	1	-1	2
TN99-184	6	4	2	1	-1	3
TN99-186	6	2	-1	-2	-1	1

TABLE 5 ~ Continued

WEST					
STRAIN/ VARIETY	BIXBY OK	MCCUNE KS	PITTSBURG KS	PROSPER TX	MEAN
MANOKIN	.	.	.	08/25	08/25
KS 4694	.	.	.	-9	-9
KS4602N	.	.	.	-12	-12
DT 97-4290	.	.	.	-2	-2
DT 98-9102	.	.	.	4	4
K1525	.	.	.	2	2
K1526	.	.	.	4	4
LS97-1610	.	.	.	-6	-6
Md 96-5275	.	.	.	-4	-4
Md 97-6491	.	.	.	-18	-18
Md 98-5579	.	.	.	-10	-10
R98-1817	.	.	.	2	2
S99-2281	.	.	.	14	14
TN96-115	.	.	.	-2	-2
TN98-170	.	.	.	7	7
TN99-184	.	.	.	0	0
TN99-186	.	.	.	-8	-8

**TABLE 6 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2002**

STRAIN/ VARIETY	EAST					MEAN
	GEORGETOWN DE	ORANGE* VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
MANOKIN	40	17	29	32	29	33
KS 4694	46	20	34	30	24	33
KS4602N	42	19	33	30	25	33
DT 97-4290	50	22	40	30	29	37
DT 98-9102	42	18	31	34	27	33
K1525	41	16	29	30	26	32
K1526	37	15	25	30	26	30
LS97-1610	38	14	24	30	26	30
Md 96-5275	39	14	29	31	27	32
Md 97-6491	45	17	38	30	27	35
Md 98-5579	40	17	30	28	25	31
R98-1817	41	16	29	27	24	30
S99-2281	42	15	30	37	29	35
TN96-115	38	15	25	32	25	30
TN98-170	35	13	28	29	24	29
TN99-184	36	13	25	26	21	27
TN99-186	39	14	29	31	27	31

\*Data not included in mean

TABLE 6 ~ Continued

STRAIN/ VARIETY	SOUTH				MEAN
	KNOXVILLE TN	PRINCETON KY	STARKVILLE MS	ULLIN IL	
MANOKIN	33	38	30	29	33
KS 4694	36	33	28	32	32
KS4602N	41	38	32	32	36
DT 97-4290	38	40	47	37	41
DT 98-9102	34	37	29	34	34
K1525	33	34	35	33	34
K1526	29	32	27	29	29
LS97-1610	29	33	25	29	29
Md 96-5275	31	34	28	29	30
Md 97-6491	30	38	38	36	36
Md 98-5579	39	31	38	33	35
R98-1817	29	34	28	31	30
S99-2281	36	38	27	33	34
TN96-115	31	37	29	29	32
TN98-170	29	35	29	28	30
TN99-184	28	30	21	23	26
TN99-186	32	33	24	29	30

TABLE 6 ~ Continued

STRAIN/ VARIETY	DELTA					MEAN
	KEISER AR	MARIANNA AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
MANOKIN	31	28	27	24	24	27
KS 4694	27	34	36	29	24	30
KS4602N	31	35	35	30	28	32
DT 97-4290	44	44	42	37	30	39
DT 98-9102	34	33	34	29	26	31
K1525	31	32	30	28	22	29
K1526	26	24	30	24	20	25
LS97-1610	27	25	30	22	24	26
Md 96-5275	24	28	29	25	20	25
Md 97-6491	36	34	32	32	26	32
Md 98-5579	36	38	39	34	26	35
R98-1817	33	28	32	27	18	28
S99-2281	28	33	36	31	26	31
TN96-115	35	28	32	26	22	29
TN98-170	30	28	32	24	20	27
TN99-184	36	24	23	21	20	25
TN99-186	27	29	35	22	24	27



TABLE 6 ~ Continued

STRAIN/ VARIETY	WEST				MEAN
	BIXBY OK	MCCUNE KS	PITTSBURG KS	PROSPER TX	
MANOKIN	29	34	25	12	25
KS 4694	28	29	22	15	24
KS4602N	29	31	24	15	25
DT 97-4290	32	33	26	22	28
DT 98-9102	28	33	24	12	24
K1525	26	31	25	14	24
K1526	26	28	22	13	22
LS97-1610	26	30	21	11	22
Md 96-5275	24	31	23	13	23
Md 97-6491	30	33	24	15	25
Md 98-5579	31	28	22	16	24
R98-1817	26	32	21	11	23
S99-2281	31	34	25	10	25
TN96-115	29	33	22	12	24
TN98-170	25	30	22	12	22
TN99-184	20	26	19	9	18
TN99-186	28	32	23	13	24

**TABLE 7 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP IV-S, 2002**

STRAIN/ VARIETY	EAST						MEAN
	GEORGETOWN DE	ORANGE* VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA		
MANOKIN	3.0	1.3	3.2	3.0	2.0	2.8	
KS 4694	2.3	1.0	1.8	1.7	1.1	1.7	
KS4602N	1.7	1.0	1.7	1.8	1.1	1.6	
DT 97-4290	4.0	1.0	3.7	2.0	1.2	2.7	
DT 98-9102	3.3	1.0	2.5	2.3	1.9	2.5	
K1525	3.7	1.0	2.5	2.2	1.4	2.4	
K1526	3.3	1.0	3.2	3.2	2.2	3.0	
LS97-1610	2.7	1.0	2.5	2.7	1.8	2.4	
Md 96-5275	2.7	1.0	1.8	1.8	1.6	2.0	
Md 97-6491	2.0	1.0	1.8	1.3	1.1	1.6	
Md 98-5579	4.0	1.3	3.7	1.5	1.1	2.6	
R98-1817	4.0	1.0	1.7	1.2	1.1	2.0	
S99-2281	4.0	1.3	3.0	3.0	1.9	3.0	
TN96-115	4.3	1.0	3.0	3.7	1.9	3.2	
TN98-170	2.7	1.0	2.3	2.5	1.5	2.3	
TN99-184	1.3	1.3	1.7	1.5	1.1	1.4	
TN99-186	4.0	1.3	2.5	2.0	1.5	2.5	

\*Data not included in mean

TABLE 7 ~ Continued

STRAIN/ VARIETY	SOUTH				MEAN
	KNOXVILLE TN	PRINCETON KY	STARKVILLE MS	ULLIN IL	
MANOKIN	1.7	2.2	1.0	1.0	1.5
KS 4694	1.5	1.0	1.0	1.0	1.1
KS4602N	1.5	1.3	2.0	1.0	1.5
DT 97-4290	1.5	1.3	2.0	1.0	1.5
DT 98-9102	1.5	2.0	1.0	1.0	1.4
K1525	1.7	1.8	1.0	1.0	1.4
K1526	1.8	2.0	1.0	1.0	1.5
LS97-1610	1.5	1.5	1.0	1.0	1.3
Md 96-5275	1.5	2.0	1.0	1.0	1.4
Md 97-6491	1.2	1.0	2.0	1.0	1.3
Md 98-5579	1.7	1.0	2.0	1.0	1.4
R98-1817	1.3	1.3	1.0	1.0	1.2
S99-2281	1.7	2.2	1.0	1.0	1.5
TN96-115	1.7	2.7	1.0	1.0	1.6
TN98-170	1.5	1.3	1.0	1.0	1.2
TN99-184	1.5	1.0	1.0	1.0	1.1
TN99-186	1.5	1.5	1.0	1.0	1.3

TABLE 7 ~ Continued

STRAIN/ VARIETY	DELTA					MEAN
	KEISER AR	MARIANNA AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
MANOKIN	1.0	2.0	2.5	1.5	2.0	1.8
KS 4694	2.0	2.0	2.0	2.0	2.0	2.0
KS4602N	1.0	2.0	2.0	2.0	2.0	1.8
DT 97-4290	1.0	2.0	3.5	2.5	2.0	2.2
DT 98-9102	1.0	1.3	1.0	1.0	2.0	1.3
K1525	1.0	2.0	2.5	1.5	2.0	1.8
K1526	1.0	1.3	2.5	1.0	2.0	1.6
LS97-1610	1.0	2.0	1.0	1.0	2.0	1.4
Md 96-5275	1.0	1.3	1.0	1.0	2.0	1.3
Md 97-6491	1.0	1.3	1.0	1.0	2.0	1.3
Md 98-5579	2.0	3.0	2.5	2.5	2.0	2.4
R98-1817	1.0	1.0	2.5	1.5	2.0	1.6
S99-2281	1.0	2.0	2.5	1.0	2.0	1.7
TN96-115	1.0	1.7	2.5	1.5	2.0	1.7
TN98-170	1.0	1.3	2.0	1.5	2.0	1.6
TN99-184	1.0	1.0	1.0	1.0	2.0	1.2
TN99-186	1.0	1.3	2.0	1.0	2.0	1.5

TABLE 7 ~ Continued

STRAIN/ VARIETY	WEST				MEAN
	BIXBY OK	MCCUNE KS	PITTSBURG KS	PROSPER TX	
MANOKIN	1.0	1.7	1.0	1.0	1.2
KS 4694	1.0	1.0	1.0	1.0	1.0
KS4602N	1.0	1.0	1.0	1.0	1.0
DT 97-4290	1.0	1.0	1.0	1.0	1.0
DT 98-9102	1.0	1.0	1.0	1.0	1.0
K1525	1.0	1.0	1.0	1.0	1.0
K1526	1.0	1.0	1.0	1.0	1.0
LS97-1610	1.0	1.0	1.0	1.0	1.0
Md 96-5275	1.0	1.0	1.0	1.0	1.0
Md 97-6491	1.0	1.0	1.0	1.0	1.0
Md 98-5579	1.0	1.0	1.0	1.0	1.0
R98-1817	1.0	1.0	1.0	1.0	1.0
S99-2281	1.0	1.0	1.0	1.0	1.0
TN96-115	1.0	1.0	1.0	1.0	1.0
TN98-170	1.0	1.0	1.0	1.0	1.0
TN99-184	1.0	1.0	1.0	1.0	1.0
TN99-186	1.0	1.0	1.0	1.0	1.0

**TABLE 8 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2002**

<b>EAST</b>					
STRAIN	ORANGE*	QUEENSTOWN	WARSAW		
VARIETY	VA	MD	VA	MEAN	
MANOKIN	1.7	1.3	2.4	1.9	
KS 4694	1.5	2.2	3.9	3.1	
KS4602N	1.7	2.2	3.7	2.9	
DT 97-4290	1.5	1.8	2.8	2.3	
DT 98-9102	1.5	1.7	2.7	2.2	
K1525	1.5	1.7	3.0	2.3	
K1526	1.7	1.8	2.7	2.3	
LS97-1610	2.0	1.7	3.2	2.4	
Md 96-5275	1.7	1.2	2.4	1.8	
Md 97-6491	1.5	2.3	3.9	3.1	
Md 98-5579	1.8	2.5	3.7	3.1	
R98-1817	1.5	1.3	2.6	2.0	
S99-2281	1.7	2.2	2.8	2.5	
TN96-115	1.7	2.0	3.3	2.7	
TN98-170	1.5	1.3	2.9	2.1	
TN99-184	1.8	2.0	2.3	2.1	
TN99-186	1.8	1.7	3.1	2.4	

\*Data not included in mean

TABLE 8 ~ Continued

## SOUTH

STRAIN VARIETY	KNOXVILLE TN	PRINCETON KY	ULLIN IL	MEAN
MANOKIN	1.0	3.0	1.0	1.7
KS 4694	1.5	2.0	1.3	1.6
KS4602N	1.0	3.0	1.3	1.8
DT 97-4290	1.5	2.0	1.7	1.7
DT 98-9102	1.5	2.0	1.0	1.5
K1525	1.5	2.0	1.3	1.6
K1526	1.5	3.0	1.0	1.8
LS97-1610	1.0	3.0	1.0	1.7
Md 96-5275	1.0	1.0	1.0	1.0
Md 97-6491	2.0	3.0	2.0	2.3
Md 98-5579	2.0	3.0	1.3	2.1
R98-1817	1.5	2.0	1.0	1.5
S99-2281	1.5	3.0	1.0	1.8
TN96-115	1.5	3.0	1.0	1.8
TN98-170	1.5	2.0	1.0	1.5
TN99-184	1.5	1.0	1.0	1.2
TN99-186	1.5	3.0	1.0	1.8

TABLE 8 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
MANOKIN	2.0	3.0	2.0	2.3
KS 4694	2.0	3.0	2.0	2.3
KS4602N	2.0	2.0	2.0	2.0
DT 97-4290	2.0	4.0	3.0	3.0
DT 98-9102	2.0	3.0	2.0	2.3
K1525	2.0	3.0	2.0	2.3
K1526	2.0	4.0	2.0	2.7
LS97-1610	2.0	3.0	2.0	2.3
Md 96-5275	2.0	3.0	2.0	2.3
Md 97-6491	2.0	2.0	2.0	2.0
Md 98-5579	2.0	3.0	3.0	2.7
R98-1817	2.0	3.0	2.0	2.3
S99-2281	2.0	2.0	2.0	2.0
TN96-115	2.0	3.0	2.0	2.3
TN98-170	2.0	3.0	2.0	2.3
TN99-184	2.0	3.0	2.0	2.3
TN99-186	2.0	3.0	3.0	2.7



TABLE 8 ~ Continued

STRAIN/ VARIETY	WEST			MEAN
	MCCUNE KS	PITTSBURG KS	PROSPER TX	
MANOKIN	2.0	2.0	2.0	2.0
KS 4694	2.0	3.0	2.0	2.3
KS4602N	2.0	2.0	2.0	2.0
DT 97-4290	2.0	2.0	2.0	2.0
DT 98-9102	2.0	2.0	2.5	2.2
K1525	2.0	2.0	2.0	2.0
K1526	2.0	2.0	3.0	2.3
LS97-1610	2.0	2.0	2.5	2.2
Md 96-5275	2.0	2.0	2.0	2.0
Md 97-6491	3.0	4.0	1.5	2.8
Md 98-5579	2.0	3.0	2.0	2.3
R98-1817	2.0	1.0	2.0	1.7
S99-2281	2.0	2.0	3.0	2.3
TN96-115	2.0	2.0	2.0	2.0
TN98-170	2.0	2.0	3.5	2.5
TN99-184	2.0	2.0	2.5	2.2
TN99-186	2.0	2.0	2.5	2.2

## **PRELIMINARY GROUP IV-S**

**2002**

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

**TABLE 9 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2002**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 x D74-7824	
2. KS 4694	Sherman x Toano	
3. KS4602N	Del soy4710 x K1191	
4. DT 98-7278	Hutcheson x (D91-4657 x P9592)	F5
5. DT 99-13005	UARK5798 x HYP 574	F5
6. DT 99-17018	DT96-6840 x BOLIVAR	F5
7. DT 99-17400	UARK5798 x BOLIVAR	F5
8. DT 99-17445	UARK5798 x BOLIVAR	F5
9. K1539RR	KS4895//KS4895//RESNIK2/40-3-2	
10. K1574	BP KY90-120, NK S42-60, P9521	
11. K1575	BP, K1218, S92-1403, N93-54	
12. K1576	BP, V91-2547, K1218, MD92-5769	
13. K1577	BP, K1218, KY91-1352, K1307	
14. KY98-1028	Macon x FFR493	
15. KY98-1042	Macon x FFR493	
16. LS99-1308	LS90-1920 x KY88-4080	
17. LS99-3319	LS90-1920 x KY88-4080	
18. LS99-3619	LS79-238 x KY88-4080	
19. LS99-3630	LS79-238 x KY88-4080	
20. LS99-3639	LS90-1920 x NKs52-25	
21. Md 99-1098-2RR	Md 92-5769 x (Md 92-5769 x Monsanto RR)	F5
22. Md 99-6029	SS91-7138 x Omaha	F5
23. Md 99-6065	SS91-7138 x Omaha	F5
24. Md 99-6076	SS91-7138 x Corsica	F5
25. R96-1689F	A4715 x HS 89-3261	
26. R98-1523	A5403 x Hartz 5545	
27. R98-1682	KY 88-4080 x Hartz 5545	
28. R98-1692	KY 88-4080 x Hartz 5545	
29. R99-2172	N90-516 x Hartz 4994	
30. S00-9914-37	S92-2711A x MD94-5332	
31. S00-9925-10	K1393 x Anand	
32. S98-3940-04RR	(Del soy 5500 x RR) x S86-4499	
33. S99-11497	LG91-7320 x Probst	
34. S99-11986	LG87-1782 x LG88-3146	
35. S99-4101	S93-1475 x (Holiday x N94-2529)	
36. TN00-18	TN 4-94 x V87-299	
37. TN00-60	MD92-5769 x FILLMORE	
38. TN98-99	TN4-94 x TN91-55	
39. TN99-18	TN94-88 x TN93-08	
40. TN99-26	TN93-196 x TN93-08	
41. V99-0021	KS4895 x Tn90-03	
42. V99-0023	KS4895 x Tn90-03	

TABLE 10 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2002 - MEAN OF 11 LOCATIONS

STRAIN/ VARIETY	SEED		AVG.	MAT.	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----		STEM CANKER	SCN 2	SCN 3	SCN 14	FL COLOR	PUB. COLOR	POD COLOR
	YIELD	RANK	RANK	INDEX					PROTEIN	OIL							
MANOKIN	43.7	13	21	09/27	1.7	31	2.1	12.8	41.1	20.7	R	4.6	1.2	4.0	W	T	T
KS 4694	35.0-	41	28	5-	1.2	29	2.8	15.1	41.5	20.8	MR	4.5	4.0	3.3	W	G	BR
KS4602N	40.2	31	24	3-	1.2	30	2.8	15.2	43.3+	20.2	S	2.7	1.9	2.9	P	T	T
DT 98-7278	46.6	5	19	2+	1.5	30	2.0	15.3	43.6+	19.3-	MR	5.0	4.0	4.8	W	T	T
DT 99-13005	46.9	3	18	6+	1.7	30	2.2	15.1	40.4	19.2-	R	4.0	3.6	4.0	S	T	T
DT 99-17018	46.2	6	20	4+	1.6	30	1.9	14.9	43.6+	19.3-	MR	3.5	3.8	4.9	P	T	T
DT 99-17400	49.3+	1	17	3+	1.3	29	1.9	14.9	41.0	20.4	MR	5.0	4.2	4.7	P	T	T
DT 99-17445	46.6	5	19	5+	1.9	30	2.0	13.3	41.5	19.7-	R	4.6	4.8	4.3	W	T	T
K1539RR	40.4	27	24	1-	1.3	28	3.1	14.3	42.5+	20.0	R	5.0	3.4	5.0	W	T	T
K1574	44.2	10	20	2-	1.3	26	2.7	14.2	42.7+	20.0	MR	5.0	2.9	5.0	P	T	T
K1575	44.0	11	21	1+	1.1	25	2.1	12.5	41.3	19.3-	R	3.6	1.4	4.3	P	G	BR
K1576	41.4	20	23	0	1.2	25	2.0	12.2	40.2	19.6-	R	4.7	3.5	5.0	S	T	T
K1577	41.2	22	24	1-	1.2	26	2.4	13.3	41.4	20.4	R	5.0	4.0	4.4	W	T	T
KY98-1028	36.4-	37	27	0	1.2	33	3.4	15.9	42.8+	19.6-	R	4.9	3.4	4.0	P	G	BR
KY98-1042	40.5	25	24	1+	1.5	35	3.1	15.0	41.6	20.6	R	5.0	4.1	3.7	W	G	BR
LS99-1308	36.6-	36	27	0	1.2	26	3.1	15.6	43.8+	20.1	R	4.6	1.3	4.7	W	G	T
LS99-3319	40.3	29	24	0	1.3	28	1.9	12.0	41.9	19.6-	R	4.7	1.0	3.3	W	T	T
LS99-3619	41.6	18	23	1-	1.2	27	2.3	13.0	41.6	20.4	R	4.7	1.3	4.0	P	G	T
LS99-3630	41.2	22	23	0	1.1	27	2.7	13.5	41.8	20.1	R	4.7	1.0	4.1	P	G	T
LS99-3639	40.2	31	24	1-	1.5	29	2.5	12.9	42.4+	20.6	R	5.0	1.0	4.8	P	T	T
Md 99-1098-2RR	41.8	16	23	3+	1.1	22	1.8	12.1	38.5-	20.6	MR	3.9	3.2	4.1	P	G	T
Md 99-6029	37.9-	35	26	2-	1.4	32	3.1	14.1	42.3	21.6+	R	5.0	4.0	4.3	W	T	T
Md 99-6065	40.6	23	24	1-	1.5	33	3.3	15.5	43.1+	21.9+	MR	4.7	3.6	4.3	S	T	T
Md 99-6076	35.2-	40	28	3-	1.2	31	3.1	14.7	44.1+	19.3-	R	4.3	4.0	4.6	W	T	T
R96-1689F	44.9	8	21	5+	1.6	30	2.1	12.1	41.3	19.5-	R	4.5	1.9	3.8	P	G	T
R98-1523	41.5	19	23	1-	1.5	31	2.6	12.6	42.1	20.2	MS	4.3	3.0	4.6	W	G	T
R98-1682	42.4	15	23	5+	1.6	31	2.2	14.0	42.3	19.6-	S	4.6	2.0	4.0	W	G	T
R98-1692	43.7	13	23	5+	1.5	32	2.0	14.0	42.1	19.8-	R	4.7	2.3	4.9	W	G	T
R99-2172	45.4	7	20	5+	1.6	33	2.0	13.2	40.9	18.9-	R	3.3	2.2	4.2	W	G	T
S00-9914-37	34.8-	42	29	1-	2.4	36	2.6	13.0	41.6	19.6-	R	1.2	1.3	1.0	W	T	T
S00-9925-10	47.4	2	19	4+	1.4	26	2.3	12.7	40.7	19.8-	MS	1.7	2.2	1.7	W	T	T
S98-3940-04RR	40.3	29	24	2+	1.6	33	2.3	14.1	42.4+	20.0	MS	1.0	1.8	3.5	W	T	T
S99-11497	35.5-	39	28	2-	1.9	34	3.5	15.4	43.6+	20.7	R	4.4	2.9	5.0	P	T	T
S99-11986	36.2-	38	27	3+	1.5	37	2.9	14.8	42.8+	19.9-	R	4.5	3.0	4.0	W	T	BR
S99-4101	43.1	14	22	3+	1.8	34	2.3	13.9	42.6+	20.1	MS	4.2	2.7	3.0	P	T	T
TN00-18	40.5	25	24	3+	1.6	40	2.3	14.0	41.6	20.6	MS	4.1	1.6	4.5	P	G	BR
TN00-60	44.4	9	21	2+	1.7	34	2.4	13.8	40.4	21.0	R	4.3	3.9	4.8	P	G	T
TN98-99	40.4	27	24	0	1.7	36	2.6	13.3	42.6+	21.0	R	4.3	1.2	3.9	P	T	T
TN99-18	39.7	32	24	0	2.0	42	2.4	12.4	43.1+	19.9-	MS	5.0	1.6	3.8	W	T	T
TN99-26	38.4-	34	25	1-	1.4	38	3.3	15.9	43.5+	19.5-	R	4.9	1.0	4.5	W	T	BR
V99-0021	39.1-	33	25	0	1.6	37	3.3	14.5	43.1+	20.5	S	5.0	3.3	5.0	P	G	BR
V99-0023	41.6	18	23	0	1.5	36	2.3	12.3	43.0+	20.2	MR	5.0	2.7	3.0	P	G	T
OVERALL MEAN	41.4								42.1	20.1							
LSD (.05)	4.4								1.2	0.7							
C. V.	13%								3%	4%							

TABLE 11 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2002

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	19.1	44.1	58.2	57.4	23.7	51.8	37.7	38.6	65.9	53.6	30.7	43.7
KS 4694	12.2-	38.1	59.8	44.9-	14.9-	40.4-	33.0	21.5-	52.4-	50.0	17.6-	35.0-
KS4602N	27.7+	30.7-	61.1	53.9	19.9-	45.0-	42.4	28.2-	54.2-	55.0	23.6-	40.2
DT 98-7278	29.0+	33.7-	67.0+	59.6	20.0	53.0	42.3	39.9	76.0+	57.9	34.8	46.6
DT 99-13005	27.0+	45.8	55.8	62.9	19.2-	60.3+	40.7	41.3	70.9	55.0	37.6+	46.9
DT 99-17018	30.2+	43.1	62.3	52.2	15.0-	52.7	39.8	43.3	74.7	57.6	37.8+	46.2
DT 99-17400	30.6+	59.8+	61.0	55.5	17.3-	57.3	42.1	39.4	80.1+	59.4	40.3+	49.3+
DT 99-17445	26.8+	44.3	59.0	59.6	14.8-	54.6	38.8	37.7	77.2+	56.1	43.4+	46.6
K1539RR	23.6	34.0-	57.5	53.6	16.5-	44.4-	43.8	26.4-	62.5	52.5	30.1	40.4
K1574	13.4-	40.0	60.7	56.3	20.0	57.7	50.0+	37.9	62.7	55.7	32.0	44.2
K1575	27.4+	46.4	51.5	57.7	18.0-	55.3	38.9	35.9	61.4	53.2	38.9+	44.0
K1576	25.6+	45.6	51.5	52.5	17.6-	46.4	44.6	24.4-	62.8	46.7	37.2	41.4
K1577	27.9+	40.0	49.9-	58.5	16.4-	48.1	45.3+	32.4	58.5	48.1	28.6	41.2
KY98-1028	12.9-	38.0	59.3	50.3	16.7-	39.9-	36.3	16.4-	55.9-	52.5	22.4-	36.4-
KY98-1042	12.0-	43.3	64.8	59.6	11.6-	53.3	28.8-	18.5-	73.3	54.3	26.1	40.5
LS99-1308	18.0	27.5-	48.5-	59.6	19.2-	47.5	35.0	33.6	39.1-	54.7	20.3-	36.6-
LS99-3319	25.5+	42.0	50.5	53.3	13.2-	42.8-	34.5	42.1	62.1	46.7	30.3	40.3
LS99-3619	15.9	35.8	60.8	55.2	19.0-	59.0+	48.9+	30.3-	50.5-	54.3	28.2	41.6
LS99-3630	16.8	40.9	56.3	55.8	17.6-	56.8	37.6	33.9	52.7-	60.8+	24.5	41.2
LS99-3639	21.5	37.4	53.6	56.3	17.2-	49.4	38.6	35.2	49.6-	57.9	25.4	40.2
Md 99-1098-2RR	18.3	42.8	51.7	55.2	17.3-	52.6	37.8	36.5	60.2	51.8	35.3	41.8
Md 99-6029	16.8	35.2	67.4+	51.7	8.3-	46.6	33.2	25.1-	56.0-	55.0	21.5-	37.9-
Md 99-6065	23.7	38.6	67.6+	54.2	12.6-	50.8	42.8	24.7-	55.0-	53.9	22.5-	40.6
Md 99-6076	14.7	23.2-	64.3	50.9	12.2-	37.6-	34.6	23.0-	60.4	48.1	17.9-	35.2-
R96-1689F	33.1+	49.6	49.7-	52.8	18.3-	55.5	39.4	35.9	71.7	53.9	34.4	44.9
R98-1523	20.0	39.7	60.0	65.6	16.6-	52.3	33.2	24.2-	73.2	55.0	16.6-	41.5
R98-1682	29.6+	51.3	48.9-	55.5	15.1-	46.1	34.0	39.3	64.7	49.6	32.9	42.4
R98-1692	27.5+	40.5	47.9-	49.8	18.8-	51.1	42.4	38.1	78.8+	49.2	36.5	43.7
R99-2172	33.5+	41.3	56.1	61.0	19.1-	51.6	41.1	36.6	75.4+	50.7	32.9	45.4
S00-9914-37	15.7	32.5-	43.4-	49.3	9.6-	44.4-	24.9-	32.8	62.0	48.5	19.9-	34.8-
S00-9925-10	30.1+	37.0	57.6	60.7	19.7-	59.1+	37.1	39.3	81.7+	59.7	39.9+	47.4
S98-3940-04RR	20.7	35.0	47.7-	53.1	18.7-	52.5	43.6	33.8	60.6	46.0-	31.8	40.3
S99-11497	13.8-	30.3-	56.1	44.9-	13.1-	45.4	41.4	22.9-	56.0-	44.2-	22.3-	35.5-
S99-11986	15.1	29.4-	49.4-	58.5	9.7-	44.2-	38.1	27.3-	55.3-	47.8	23.8-	36.2-
S99-4101	19.1	32.3-	55.7	54.4	17.9-	56.5	38.2	35.5	71.5	55.4	37.7+	43.1
TN00-18	16.4	35.0	57.6	50.4	20.3	47.2	35.3	35.4	61.1	52.1	35.2	40.5
TN00-60	25.3+	48.1	62.7	51.4	15.7-	51.4	43.3	26.8-	72.3	59.0	32.3	44.4
TN98-99	22.0	40.5	49.9-	52.3	17.1-	48.6	42.5	30.1-	62.9	48.9	29.9	40.4
TN99-18	15.0	39.8	58.2	57.7	17.8-	48.5	32.1	31.3	61.0	51.0	24.6	39.7
TN99-26	10.5-	31.6-	62.7	50.6	21.8	40.4-	41.3	27.0-	61.0	52.5	22.4-	38.4-
V99-0021	19.7	40.6	60.9	47.4-	19.1-	40.2-	44.3	28.0-	56.2-	49.2	23.9-	39.1-
V99-0023	15.1	38.5	68.5+	56.6	14.7-	51.3	36.3	32.2	61.4	53.2	29.5	41.6
L. S. D. (0.05)	5.0	9.8	7.8	9.7	3.7	6.5	7.4	8.1	9.1	7.0	6.7	4.4
C. V. (%)	14.5	12.4	8.4	10.9	11.1	6.5	9.4	12.6	7.1	6.6	11.3	12.7

**TABLE 12 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2002**

STRAIN/ VARIETY	BIXBY OK	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	20.9	22.4	21.1	20.3	19.1	21.2	20.7	19.6	20.7
KS 4694	20.0	21.2	20.8	20.9	21.4	21.9	19.7	20.4	20.8
KS4602N	18.5	19.6	20.4	20.3	20.3	21.8	21.8	18.6	20.2
DT 98-7278	18.7	20.5	20.5	17.9	18.7	20.6	19.7	17.9	19.3
DT 99-13005	19.6	21.0	18.9	18.2	18.8	18.5	20.6	18.0	19.2
DT 99-17018	19.4	20.2	19.4	18.0	18.9	20.7	19.8	18.0	19.3
DT 99-17400	20.6	21.3	21.0	19.5	19.2	21.4	21.0	18.9	20.4
DT 99-17445	20.0	21.2	20.2	18.8	19.6	20.1	18.9	18.4	19.7
K1539RR	20.2	20.5	19.8	19.6	20.1	20.7	20.0	18.8	20.0
K1574	18.7	20.5	21.5	20.0	19.2	20.6	20.5	18.8	20.0
K1575	19.0	19.7	19.7	18.9	19.0	20.2	19.1	18.5	19.3
K1576	19.3	20.8	19.8	20.1	19.3	20.0	19.6	17.6	19.6
K1577	20.0	20.2	20.6	19.8	20.5	21.1	20.7	20.6	20.4
KY98-1028	18.2	21.2	20.6	17.7	19.8	20.7	19.6	18.8	19.6
KY98-1042	20.6	21.6	20.1	19.7	20.5	21.6	21.6	19.4	20.6
LS99-1308	19.4	20.4	19.2	19.6	19.8	22.7	21.3	18.6	20.1
LS99-3319	17.7	21.6	21.0	19.3	19.2	20.1	18.5	19.7	19.6
LS99-3619	18.9	22.0	20.4	21.0	19.3	21.3	21.1	18.9	20.4
LS99-3630	19.5	20.5	19.7	20.1	19.0	21.1	20.9	19.7	20.1
LS99-3639	19.8	22.9	20.6	21.3	19.5	21.5	20.7	18.3	20.6
Md 99-1098-2RR	19.6	22.6	20.8	20.1	19.2	21.9	21.0	19.7	20.6
Md 99-6029	21.3	21.9	21.6	20.6	21.5	23.1	22.5	20.4	21.6
Md 99-6065	21.1	21.9	22.4	19.5	21.7	24.2	23.3	21.0	21.9
Md 99-6076	18.9	20.0	18.7	19.4	19.2	19.7	19.5	18.7	19.3
R96-1689F	19.3	20.3	20.4	17.3	18.8	21.9	19.7	18.3	19.5
R98-1523	18.8	20.7	21.0	20.2	20.7	21.0	19.7	19.2	20.2
R98-1682	19.4	21.3	19.3	19.5	18.4	20.6	19.7	18.3	19.6
R98-1692	20.1	20.5	19.8	19.5	19.7	21.0	19.1	18.7	19.8
R99-2172	18.9	18.9	19.3	18.4	18.3	21.0	18.9	17.3	18.9
S00-9914-37	18.9	18.8	20.1	18.6	19.5	21.1	20.2	19.2	19.6
S00-9925-10	19.1	21.9	20.8	20.5	17.8	18.7	20.3	19.1	19.8
S98-3940-04RR	19.8	20.6	20.2	20.1	18.8	21.5	20.3	18.8	20.0
S99-11497	19.7	21.0	21.3	20.2	21.2	21.4	21.4	19.2	20.7
S99-11986	18.5	19.7	20.9	20.9	18.8	21.3	20.2	19.2	19.9
S99-4101	19.9	21.2	20.3	18.4	19.8	20.7	21.1	19.5	20.1
TN00-18	19.8	21.1	21.3	20.1	20.3	21.8	21.0	19.6	20.6
TN00-60	18.7	21.0	21.2	21.4	21.5	22.4	21.9	20.2	21.0
TN98-99	19.4	21.8	20.1	21.3	20.2	23.4	21.9	20.0	21.0
TN99-18	18.5	21.5	20.7	18.3	19.7	20.4	20.4	19.3	19.9
TN99-26	18.2	20.3	20.4	18.9	18.9	21.4	19.6	18.6	19.5
V99-0021	20.0	21.2	20.4	20.4	20.5	22.1	20.5	18.6	20.5
V99-0023	19.5	22.0	19.6	20.8	19.6	20.7	20.8	18.6	20.2

**TABLE 13 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2002**

STRAIN/ VARIETY	BIXBY OK	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	39.9	40.1	39.8	43.8	42.0	40.7	40.6	41.9	41.1
KS 4694	41.5	40.6	41.4	42.4	42.8	40.8	39.7	42.8	41.5
KS4602N	42.7	44.1	43.6	43.1	43.9	43.1	40.6	45.5	43.3
DT 98-7278	43.2	41.6	42.3	45.0	44.5	42.2	42.2	47.9	43.6
DT 99-13005	39.5	37.6	38.9	44.3	42.4	38.5	39.9	42.3	40.4
DT 99-17018	41.5	43.1	41.9	49.1	44.0	42.2	41.7	45.0	43.6
DT 99-17400	40.5	39.8	39.5	44.4	41.4	39.3	40.5	42.7	41.0
DT 99-17445	40.0	41.5	40.7	43.6	43.4	39.9	41.9	40.7	41.5
K1539RR	41.3	43.4	42.2	42.4	42.4	43.1	41.8	43.7	42.5
K1574	42.5	43.2	43.5	41.4	42.2	43.3	42.4	42.9	42.7
K1575	39.3	41.0	41.4	42.9	41.8	38.3	42.6	43.1	41.3
K1576	38.4	40.4	39.5	40.1	40.2	39.8	41.6	41.2	40.2
K1577	39.5	42.4	41.5	43.0	40.3	40.9	41.4	41.8	41.4
KY98-1028	44.0	41.0	42.1	43.2	43.4	43.5	41.1	44.4	42.8
KY98-1042	40.1	41.1	43.0	42.8	43.0	40.1	40.5	42.5	41.6
LS99-1308	43.7	45.8	39.5	45.8	43.6	45.0	42.2	44.5	43.8
LS99-3319	43.3	41.2	41.7	44.5	42.1	41.5	38.6	42.3	41.9
LS99-3619	41.0	40.6	41.7	42.7	40.0	42.7	41.1	43.1	41.6
LS99-3630	39.7	43.2	40.5	44.1	42.5	41.2	40.1	43.2	41.8
LS99-3639	44.9	39.8	41.4	42.4	43.9	44.3	41.4	40.7	42.4
Md 99-1098-2RR	38.2	36.5	37.5	41.3	39.7	36.4	38.6	39.7	38.5
Md 99-6029	41.4	43.6	41.0	44.8	42.2	41.0	41.2	42.8	42.3
Md 99-6065	43.7	41.2	43.8	40.7	43.1	44.9	42.8	44.4	43.1
Md 99-6076	43.9	44.5	41.9	45.9	43.9	45.8	43.2	43.9	44.1
R96-1689F	40.5	40.6	40.4	45.7	42.1	37.7	40.6	42.7	41.3
R98-1523	42.4	42.0	40.9	42.8	42.3	41.4	41.4	43.8	42.1
R98-1682	42.1	40.0	41.3	45.4	42.3	41.9	42.5	42.7	42.3
R98-1692	42.0	40.6	41.3	43.8	42.8	40.7	42.5	43.0	42.1
R99-2172	40.4	41.3	39.6	44.4	42.0	38.1	38.5	42.8	40.9
S00-9914-37	39.9	43.6	40.8	42.8	41.4	40.0	41.5	42.8	41.6
S00-9925-10	41.0	41.9	39.8	40.7	41.6	38.0	40.5	42.4	40.7
S98-3940-04RR	41.4	42.3	42.7	42.4	42.5	40.0	42.6	45.3	42.4
S99-11497	44.5	45.2	43.1	43.6	43.1	43.9	42.0	43.4	43.6
S99-11986	43.3	42.7	43.2	40.6	44.8	41.8	41.7	44.1	42.8
S99-4101	41.7	42.2	41.8	44.7	43.7	42.3	40.7	43.8	42.6
TN00-18	41.3	40.6	43.2	42.7	43.4	39.9	39.2	42.7	41.6
TN00-60	39.9	40.1	39.9	41.0	41.5	40.9	39.0	40.5	40.4
TN98-99	42.8	42.5	43.0	43.2	42.6	42.1	41.3	43.1	42.6
TN99-18	44.2	42.0	43.8	45.7	42.3	42.4	41.4	42.6	43.1
TN99-26	44.7	43.2	42.0	44.0	45.6	43.7	41.1	43.7	43.5
V99-0021	42.7	43.1	42.5	43.0	43.8	44.5	41.3	43.5	43.1
V99-0023	41.1	40.8	44.9	43.9	44.2	42.3	42.2	44.2	43.0

TABLE 14 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2002

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	PINE TREE AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	ULLIN IL	WARSAW VA	MEAN
MANOKIN	12.4	14.1	13.5	11.4	11.4	11.3	13.9	11.1	15.8	12.8
KS 4694	15.2	16.4	17.1	11.2	15.2	14.7	15.2	13.4	17.2	15.1
KS4602N	15.8	16.6	14.7	13.0	14.8	14.8	15.4	14.6	17.2	15.2
DT 98-7278	15.2	16.0	15.2	12.5	15.6	12.1	17.4	14.4	19.0	15.3
DT 99-13005	17.3	15.8	15.5	12.8	13.8	13.1	17.0	13.8	16.6	15.1
DT 99-17018	15.1	16.1	14.5	13.0	12.8	12.9	17.7	12.9	18.8	14.9
DT 99-17400	16.6	16.9	13.6	12.1	12.9	12.4	17.4	13.4	19.3	14.9
DT 99-17445	14.7	13.6	13.6	10.6	11.9	11.3	15.1	12.1	16.7	13.3
K1539RR	14.3	14.4	13.4	11.8	14.5	14.0	14.5	13.6	18.0	14.3
K1574	14.2	15.5	16.6	11.2	13.6	12.2	16.1	12.2	15.9	14.2
K1575	13.4	15.1	14.7	9.3	11.2	10.1	13.7	10.5	15.0	12.5
K1576	13.3	14.7	14.4	9.1	12.2	9.6	12.3	11.0	13.2	12.2
K1577	13.5	16.3	14.3	10.5	12.8	11.7	14.3	11.0	15.8	13.3
KY98-1028	15.9	18.5	16.3	13.1	15.2	16.5	13.3	15.5	18.6	15.9
KY98-1042	13.6	18.1	17.0	12.4	15.7	13.0	12.8	13.4	19.1	15.0
LS99-1308	17.4	15.9	18.1	12.4	15.4	14.2	15.7	14.8	16.7	15.6
LS99-3319	13.6	12.8	12.3	9.2	11.6	9.9	14.3	10.4	14.4	12.0
LS99-3619	13.8	14.6	14.5	10.5	12.1	11.4	13.4	11.4	15.4	13.0
LS99-3630	14.7	14.8	14.8	10.6	12.4	12.1	14.1	12.1	15.8	13.5
LS99-3639	14.2	14.2	14.4	9.0	12.4	11.3	13.1	12.4	15.1	12.9
Md 99-1098-2RR	13.3	14.2	13.4	9.2	11.5	9.6	12.6	11.2	13.9	12.1
Md 99-6029	14.6	14.7	15.6	11.6	13.6	13.6	13.9	13.4	16.3	14.1
Md 99-6065	14.9	16.3	18.0	12.0	17.0	14.0	15.1	15.6	16.8	15.5
Md 99-6076	15.8	13.7	16.3	11.9	14.3	13.3	14.8	13.7	18.4	14.7
R96-1689F	13.9	12.8	11.9	10.3	11.2	9.7	14.2	10.0	15.1	12.1
R98-1523	14.7	14.2	13.4	10.5	11.0	11.7	12.1	10.5	15.2	12.6
R98-1682	14.6	16.2	11.8	11.9	11.9	12.7	18.1	10.8	18.1	14.0
R98-1692	16.6	14.6	14.7	11.1	12.1	11.5	17.6	10.1	17.5	14.0
R99-2172	13.3	14.8	12.7	12.1	12.2	11.5	15.0	11.0	16.5	13.2
S00-9914-37	13.3	14.5	15.6	9.9	13.4	10.5	13.0	11.6	15.6	13.0
S00-9925-10	11.7	13.7	13.6	10.7	12.3	10.9	13.3	11.8	16.4	12.7
S98-3940-04RR	14.7	14.6	15.2	11.5	14.2	11.5	15.5	11.2	18.8	14.1
S99-11497	15.7	14.9	16.8	13.3	15.6	14.9	15.6	13.5	18.8	15.4
S99-11986	13.8	14.9	17.3	12.2	15.0	12.9	15.4	14.0	17.3	14.8
S99-4101	14.8	13.7	13.1	11.8	13.5	11.8	16.5	12.9	16.7	13.9
TN00-18	16.4	14.8	15.0	11.6	13.7	12.8	15.1	11.3	15.8	14.0
TN00-60	12.2	16.9	15.0	10.9	15.2	12.1	12.2	13.4	16.5	13.8
TN98-99	13.4	14.6	13.5	12.5	12.5	11.9	13.3	11.5	16.9	13.3
TN99-18	15.2	12.6	12.3	10.6	12.3	11.1	12.1	10.9	14.8	12.4
TN99-26	17.2	16.4	17.7	14.0	14.3	15.1	15.0	14.1	19.2	15.9
V99-0021	15.4	15.4	13.6	12.6	14.6	14.3	13.7	13.6	16.9	14.5
V99-0023	14.9	13.8	13.5	9.4	11.6	9.6	11.9	10.8	15.1	12.3



**TABLE 15 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S,  
2002**

STRAIN/ VARIETY	BIXBY	JACKSON	KEISER	PINE TREE	PITTSBURG	PORTAGE- VILLE	PRINCETON	QUEENS- TOWN	STONE- VILLE	ULLIN	WARSAW	MEAN
	OK	TN	AR	AR	KS	MO(A)	KY	MD	MS	IL	VA	
MANOKIN	35	30	32	35	25	32	42	31	24	31	28	31
KS 4694	33	26	32	34	20	33	35	28	28	33	23	29
KS4602N	20	27	37	35	24	36	36	31	30	33	25	30
DT 98-7278	21	26	36	32	23	35	35	35	28	29	26	30
DT 99-13005	21	27	36	35	19	34	36	31	28	32	27	30
DT 99-17018	23	32	37	31	24	32	36	29	24	35	26	30
DT 99-17400	20	28	38	31	23	34	36	29	24	33	24	29
DT 99-17445	22	29	35	35	23	32	37	32	24	30	28	30
K1539RR	22	27	37	31	20	37	31	27	26	32	24	28
K1574	20	29	25	32	23	29	34	27	20	25	26	26
K1575	18	23	31	29	18	30	34	26	20	24	24	25
K1576	15	28	25	28	19	28	32	27	22	26	23	25
K1577	19	26	26	26	23	27	36	27	22	26	24	26
KY98-1028	29	32	42	35	23	38	37	29	32	36	26	33
KY98-1042	31	35	46	42	26	43	37	29	36	39	26	35
LS99-1308	18	27	23	30	24	28	35	30	20	29	25	26
LS99-3319	24	29	31	32	20	33	34	30	22	30	26	28
LS99-3619	21	27	33	25	21	29	36	29	20	31	25	27
LS99-3630	20	28	27	26	23	31	34	30	22	31	26	27
LS99-3639	29	28	24	27	26	32	39	33	22	27	29	29
Md 99-1098-2RR	16	25	22	24	17	24	31	25	16	25	23	22
Md 99-6029	30	29	41	36	21	41	36	30	32	37	26	32
Md 99-6065	30	31	37	38	23	40	37	32	32	35	27	33
Md 99-6076	28	28	37	36	23	38	38	29	32	34	23	31
R96-1689F	29	28	32	36	20	32	39	35	24	33	26	30
R98-1523	28	28	33	36	24	40	35	27	26	37	24	31
R98-1682	26	32	33	33	23	33	39	35	32	31	26	31
R98-1692	36	33	32	36	22	33	41	34	30	32	26	32
R99-2172	35	32	37	32	28	36	38	32	32	37	28	33
S00-9914-37	36	31	45	42	24	49	36	29	44	40	26	36
S00-9925-10	19	28	28	29	19	32	32	28	20	28	25	26
S98-3940-04RR	23	28	44	37	25	49	36	29	32	37	23	33
S99-11497	19	32	40	40	26	41	41	32	36	40	31	34
S99-11986	28	32	52	40	24	48	44	33	36	40	30	37
S99-4101	22	36	38	36	28	36	43	36	28	37	32	34
TN00-18	36	31	51	47	30	57	43	36	36	45	32	40
TN00-60	27	31	47	40	22	40	36	29	38	37	27	34
TN98-99	33	32	45	42	27	48	41	34	34	39	28	36
TN99-18	38	39	54	45	29	60	44	37	38	43	31	42
TN99-26	33	37	45	40	28	48	47	36	34	41	31	38
V99-0021	36	35	50	39	25	48	43	33	32	40	29	37
V99-0023	33	30	50	39	23	48	39	32	36	39	25	36

**TABLE 16 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2002**

STRAIN/ VARIETY	BIXBY	JACKSON	KEISER	PINE	PITTSBURG	PORTAGE-	PRINCETON	QUEENS-	STONE-	ULLIN	WARSAW	MEAN
	OK	TN	AR	TREE AR	KS	VILLE MO(A)	KY	TOWN MD	VILLE MS	IL	VA	
MANOKIN	1.0	1.5	1.0	1.0	1.0	2.5	2.5	3.0	2.0	1.0	1.9	1.7
KS 4694	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	2.0	1.0	1.1	1.2
KS4602N	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.5	2.0	1.0	1.0	1.2
DT 98-7278	1.0	1.3	1.0	1.0	1.0	1.5	2.0	3.0	2.0	1.0	1.5	1.5
DT 99-13005	1.0	1.3	3.0	1.0	1.0	2.5	2.3	2.5	2.0	1.0	1.5	1.7
DT 99-17018	1.0	1.5	2.0	1.0	1.0	2.5	2.3	2.0	2.0	1.0	1.2	1.6
DT 99-17400	1.0	1.0	1.0	1.0	1.0	2.0	1.8	1.8	2.0	1.0	1.2	1.3
DT 99-17445	1.0	1.8	2.0	2.7	1.0	2.5	2.3	2.8	2.0	1.0	1.5	1.9
K1539RR	1.0	1.0	1.0	1.0	1.0	2.5	1.0	1.3	2.0	1.0	1.0	1.3
K1574	1.0	1.0	1.0	1.0	1.0	2.0	1.5	2.0	2.0	1.0	1.1	1.3
K1575	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0	2.0	1.0	1.0	1.1
K1576	1.0	1.3	1.0	1.0	1.0	1.0	1.8	1.3	2.0	1.0	1.0	1.2
K1577	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.3	2.0	1.0	1.2	1.2
KY98-1028	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.3	2.0	1.0	1.0	1.2
KY98-1042	1.0	1.3	1.0	1.7	1.0	3.0	1.5	1.5	3.0	1.0	1.0	1.5
LS99-1308	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0	1.0	1.2	1.2
LS99-3319	1.0	1.0	1.0	1.0	1.0	1.0	1.8	2.0	2.0	1.0	1.2	1.3
LS99-3619	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.3	2.0	1.0	1.0	1.2
LS99-3630	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	2.0	1.0	1.0	1.1
LS99-3639	1.0	1.5	1.0	1.0	1.0	2.0	2.0	3.0	2.0	1.0	1.2	1.5
Md 99-1098-2RR	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	2.0	1.0	1.0	1.1
Md 99-6029	1.0	1.0	2.0	1.0	1.0	3.5	1.0	1.0	2.0	1.0	1.1	1.4
Md 99-6065	1.0	1.3	1.0	1.0	1.0	3.5	1.5	2.0	2.0	1.0	1.1	1.5
Md 99-6076	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.5	2.0	1.0	1.1	1.2
R96-1689F	1.0	1.5	1.0	1.0	1.0	2.5	2.0	2.8	2.0	1.0	1.7	1.6
R98-1523	1.0	1.0	1.0	2.8	1.0	3.0	1.5	1.3	2.0	1.0	1.2	1.5
R98-1682	1.0	2.3	1.0	1.0	1.0	2.5	1.8	2.8	2.0	1.0	1.1	1.6
R98-1692	1.0	1.0	1.0	1.8	1.0	2.5	2.0	2.5	2.0	1.0	1.1	1.5
R99-2172	1.0	1.3	1.0	2.2	1.0	2.0	2.0	2.5	2.0	1.0	1.2	1.6
S00-9914-37	2.0	2.0	4.0	3.9	1.0	4.0	1.8	2.3	3.0	1.0	1.2	2.4
S00-9925-10	1.0	1.0	1.0	1.0	1.0	4.0	1.8	1.0	2.0	1.0	1.1	1.4
S98-3940-04RR	1.0	1.0	1.0	3.3	1.0	3.0	1.8	1.3	2.0	1.0	1.0	1.6
S99-11497	1.0	1.3	2.0	2.6	1.0	4.0	1.3	2.0	3.0	1.0	1.4	1.9
S99-11986	1.0	1.3	2.0	1.0	1.0	3.5	1.5	1.5	2.0	1.0	1.0	1.5
S99-4101	1.0	1.0	3.0	1.9	1.0	3.0	1.8	2.8	2.0	1.0	1.4	1.8
TN00-18	2.0	1.0	2.0	2.2	1.0	2.0	1.5	2.0	2.0	1.0	1.4	1.6
TN00-60	3.0	1.0	2.0	1.0	1.0	3.0	1.5	1.3	3.0	1.0	1.0	1.7
TN98-99	3.0	1.3	2.0	2.4	1.0	2.5	1.5	1.5	2.0	1.0	1.1	1.7
TN99-18	2.0	1.5	2.0	3.3	1.0	3.5	1.8	2.0	3.0	1.0	1.4	2.0
TN99-26	1.0	1.0	1.0	2.5	1.0	2.0	1.5	1.8	2.0	1.0	1.1	1.4
V99-0021	2.0	1.3	2.0	1.0	1.0	3.0	1.5	1.8	2.0	1.0	1.1	1.6
V99-0023	2.0	1.0	1.0	1.0	1.0	2.5	1.3	1.5	3.0	1.0	1.0	1.5

**TABLE 17 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S,  
2002**

STRAIN/ VARIETY	JACKSON TN	PINE TREE AR	PITTSBURG KS	PORTAGE-	PRINCETON KY	QUEENS-	STONE-	ULLIN IL	WARSAW VA	MEAN
				VILLE MO(A)		TOWN MD	VILLE MS			
MANOKIN	3.9	1.7	2.0	2.0	2.0	2.0	2.0	1.0	2.5	2.1
KS 4694	3.4	2.9	3.0	2.0	3.0	3.5	2.0	1.0	4.1	2.8
KS4602N	3.8	3.1	3.0	3.0	2.0	3.0	2.0	1.5	4.0	2.8
DT 98-7278	3.8	1.3	2.0	2.0	1.0	1.8	2.0	1.0	3.3	2.0
DT 99-13005	3.4	2.2	2.0	2.0	2.0	2.0	3.0	1.0	2.4	2.2
DT 99-17018	3.4	1.5	2.0	2.0	1.0	2.0	2.0	1.0	2.5	1.9
DT 99-17400	3.5	1.5	2.0	2.0	1.0	2.0	2.0	1.0	2.5	1.9
DT 99-17445	3.4	2.2	2.0	2.0	1.0	1.8	2.0	1.0	2.4	2.0
K1539RR	4.5	3.3	3.0	3.0	2.0	4.0	3.0	1.0	4.1	3.1
K1574	3.9	3.7	3.0	2.0	2.0	2.5	3.0	1.0	3.0	2.7
K1575	3.5	2.1	2.0	2.0	2.0	1.5	2.0	1.0	2.8	2.1
K1576	2.6	2.8	2.0	2.0	2.0	1.5	2.0	1.0	2.5	2.0
K1577	3.8	1.5	3.0	3.0	2.0	1.5	3.0	1.0	2.8	2.4
KY98-1028	3.9	3.9	3.0	3.0	4.0	4.5	3.0	1.0	4.1	3.4
KY98-1042	4.4	3.4	3.0	3.0	4.0	2.8	3.0	1.0	3.8	3.1
LS99-1308	4.0	4.4	3.0	3.0	3.0	2.0	3.0	1.5	3.8	3.1
LS99-3319	3.4	1.7	2.0	2.0	1.0	1.5	2.0	1.0	2.4	1.9
LS99-3619	3.8	1.8	3.0	2.0	2.0	2.3	2.0	1.0	3.0	2.3
LS99-3630	3.8	1.9	3.0	3.0	3.0	2.5	3.0	1.0	3.4	2.7
LS99-3639	3.9	3.7	3.0	2.0	2.0	1.5	2.0	1.0	3.1	2.5
Md 99-1098-2RR	2.9	2.0	1.0	2.0	2.0	1.0	2.0	1.0	2.2	1.8
Md 99-6029	4.0	3.5	3.0	3.0	3.0	2.8	3.0	1.5	4.0	3.1
Md 99-6065	3.9	3.7	3.0	4.0	3.0	2.8	3.0	2.5	3.9	3.3
Md 99-6076	4.7	3.8	3.0	2.0	4.0	2.5	3.0	1.0	4.1	3.1
R96-1689F	2.8	3.1	2.0	2.0	2.0	1.5	2.0	1.0	2.2	2.1
R98-1523	4.3	2.2	3.0	2.0	3.0	2.5	2.0	1.0	3.5	2.6
R98-1682	3.0	3.0	2.0	2.0	2.0	1.5	2.0	1.5	2.7	2.2
R98-1692	3.1	2.6	2.0	2.0	1.0	1.5	2.0	1.0	2.5	2.0
R99-2172	2.8	2.2	2.0	1.0	3.0	1.5	2.0	1.0	2.4	2.0
S00-9914-37	3.5	2.7	3.0	4.0	2.0	2.0	2.0	1.0	3.4	2.6
S00-9925-10	3.5	1.5	2.0	4.0	2.0	1.5	2.0	1.0	2.8	2.3
S98-3940-04RR	3.1	2.5	3.0	3.0	1.0	1.8	2.0	1.0	3.5	2.3
S99-11497	4.5	4.2	3.0	4.0	3.0	3.8	3.0	1.5	4.2	3.5
S99-11986	4.4	3.4	3.0	3.5	3.0	2.5	2.0	1.5	2.6	2.9
S99-4101	3.3	2.5	2.0	3.0	2.0	1.5	3.0	1.0	2.5	2.3
TN00-18	3.4	2.5	2.0	2.0	2.0	2.3	3.0	1.0	2.8	2.3
TN00-60	3.4	2.2	2.0	3.0	3.0	2.3	2.0	1.0	2.5	2.4
TN98-99	3.5	2.4	2.0	2.5	3.0	3.3	3.0	1.5	2.5	2.6
TN99-18	3.3	2.4	2.0	3.5	3.0	2.0	2.0	1.5	2.2	2.4
TN99-26	4.8	3.8	3.0	2.0	3.0	4.0	3.0	2.0	3.9	3.3
V99-0021	4.2	4.4	3.0	3.0	3.0	4.0	3.0	1.0	4.0	3.3
V99-0023	3.0	1.8	2.0	2.5	2.0	2.3	2.0	1.0	3.8	2.3

## **UNIFORM GROUP V**

**2002**

**Uniform Group V nurseries were planted at 23 locations. Data were obtained from 18 of these locations. The parentage for each strain is reported in Table 18. Table 19 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 20 - 25.**

**TABLE 18 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP V,  
2002**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 x Essex	
2. MANOKIN	L70-L3048 x D74-7824	
3. 5601T	Hutcheson x TN89-39	
4. P 9594	COMMERCIAL CHECK	
5. AG 5501	COMMERCIAL CHECK	
6. K1530	KS5292 x SC91-2007	
7. K1533	KS5292 x SC91-2007	
8. LS96-1631	Gateway511 x Hutcheson	
9. LS98-3966	LS90-1920 x Hutcheson	
10. Md 97-6065	Manokin x Holladay	F5
11. Md 98-5095	D92-9779 x Probst	F5
12. Md 98-5927	Hartwig x LN89-295	F5
13. N98-7265	Hutcheson x PI 471938	F5
14. N98-7288	Hutcheson x PI 471938	F5
15. N98-7289	Hutcheson x PI 471938	F5
16. R96-209	Holladay x DP 415	
17. R96-3427	P9592 x KS 4895	
18. R97-1634	P 9592 x Holladay	
19. S98-1375	N90-516 x S92-1666	
20. S99-1117	Anand x S94-1808	
21. S99-1171	Del soy 5500 x Anand	
22. TN97-134	TN90-58 x SPENCER	
23. TN97-167	TN89-39 x MANOKIN	
24. TN97-271	N86-7687 x HUTCHESON	
25. TN98-149	N87-325 x S88-1855	
26. V95-0016	KS5292 x Accomac	
27. V96-0340	Hutcheson x Clifford	
28. V97-1911	Hartwig x Clifford	
29. V97-2276	Hutcheson x KS5292	
30. 99VPI -17RR	Hutcheson(4) x RR	
31. 99VPI -120RR	Hutcheson(5) x RR	
32. TN96-68	N85-578 x MANOKIN	

**TABLE 19 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2002**

STRAIN/ VARIETY	RANK 2002	AVERAGE RANK 2002	YIELD*			PROTEIN			OIL		
			2002	01-02	00-02	2002	01-02	00-02	2002	01-02	00-02
HUTCHESON	19	17	40.0	44.2	44.3	40.3	40.2	40.7	20.3	20.9	20.7
MANOKIN	29	21	37.2	39.8	41.8	40.6	39.8	40.2	21.4	21.4	20.9
5601T	2	10	42.9	.	.	41.2	.	.	19.5	.	.
P 9594	6	12	41.6	.	.	40.7	.	.	19.6	.	.
AG 5501	8	14	41.4	.	.	41.4	.	.	19.8	.	.
K1530	11	13	40.9	.	.	41.6	.	.	21.0	.	.
K1533	18	17	40.1	.	.	41.9	.	.	20.7	.	.
LS96-1631	17	16	40.1	44.5	45.0	40.0	39.6	40.5	21.0	21.1	20.7
LS98-3966	26	21	37.9	.	.	42.0	.	.	21.3	.	.
Md 97-6065	15	16	40.5	46.7	.	39.9	39.5	.	20.7	20.9	.
Md 98-5095	32	26	33.8	.	.	40.1	.	.	20.3	.	.
Md 98-5927	31	24	35.0	.	.	41.3	.	.	19.9	.	.
N98-7265	23	19	38.7	41.9	.	39.8	39.9	.	20.3	20.7	.
N98-7288	22	18	38.7	.	.	39.6	.	.	19.5	.	.
N98-7289	27	21	37.6	.	.	39.8	.	.	19.8	.	.
R96-209	4	11	42.5	46.5	.	40.3	40.3	.	19.9	20.3	.
R96-3427	16	17	40.3	44.9	.	40.7	40.4	.	20.1	20.5	.
R97-1634	1	9	43.6	.	.	40.8	.	.	19.6	.	.
S98-1375	14	15	40.6	.	.	39.2	.	.	20.1	.	.
S99-1117	13	17	40.7	.	.	40.7	.	.	19.7	.	.
S99-1171	3	11	42.7	.	.	41.1	.	.	20.1	.	.
TN97-134	12	15	40.8	.	.	42.0	.	.	19.3	.	.
TN97-167	9	13	41.0	.	.	40.6	.	.	19.4	.	.
TN97-271	10	13	41.0	45.9	.	41.1	40.9	.	20.7	20.9	.
TN98-149	21	18	39.0	.	.	41.9	.	.	20.1	.	.
V95-0016	24	18	38.5	44.1	45.1	41.5	40.8	41.2	20.3	20.5	20.2
V96-0340	7	12	41.6	46.3	.	41.5	40.8	.	20.0	20.7	.
V97-1911	25	22	38.1	.	.	39.1	.	.	19.9	.	.
V97-2276	20	16	39.7	.	.	40.5	.	.	20.0	.	.
99VPI -17RR	30	23	37.0	.	.	41.5	.	.	20.4	.	.
99VPI -120RR	28	23	37.3	.	.	40.6	.	.	20.1	.	.
TN96-68	5	11	42.1	47.5	47.9	40.4	40.2	40.5	21.3	21.3	20.9

\*Data not included in mean: 2002 - Orange, VA; Prosper, TX  
2001 - Orange, VA; Prosper, TX  
2000 - Belle Mina, AL; Suffolk, VA

TABLE 19 ~ Continued

## BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
HUTCHESON	W	10/08	1.5	29	2.2	13.9	G	T
MANOKIN	W	6-	1.9	30	2.4	13.1	T	T
5601T	W	0	1.6	32	2.0	13.6	G	T
P 9594	W	2+	1.9	34	2.3	15.2	G	T
AG 5501	P	1+	1.5	33	2.1	14.1	G	T
K1530	W	4-	1.6	31	2.4	12.3	G	T
K1533	W	1+	1.6	31	2.1	13.4	G	T
LS96-1631	P	2-	1.6	30	2.6	14.0	G	T
LS98-3966	P	6-	1.4	27	2.3	13.5	T	T
Md 97-6065	P	3-	1.6	29	1.9	13.6	G	T
Md 98-5095	P	5-	1.5	26	2.0	12.1	T	T
Md 98-5927	W	2-	1.5	24	2.3	14.6	T	T
N98-7265	W	4+	1.8	33	2.2	14.8	G	T
N98-7288	W	1+	1.6	32	2.0	15.2	G	T
N98-7289	W	1+	1.6	32	2.2	15.2	G	T
R96-209	P	2-	1.7	32	2.0	14.5	G	T
R96-3427	W	2+	1.4	31	2.3	14.8	S	T
R97-1634	W	2+	1.6	32	2.1	14.8	G	T
S98-1375	W	0	1.7	33	2.2	15.4	T	T
S99-1117	P	1+	1.7	34	2.0	13.9	T	T
S99-1171	W	4+	1.5	30	2.1	15.3	T	T
TN97-134	W	5-	1.7	28	2.1	15.6	T	T
TN97-167	W	1+	1.8	30	1.9	13.0	G	T
TN97-271	P	1+	1.6	28	2.0	13.2	G	T
TN98-149	W	4-	1.4	26	2.1	14.5	T	T
V95-0016	P	1-	1.8	31	2.0	11.8	G	T
V96-0340	P	1-	1.5	29	2.0	16.0	G	BR
V97-1911	P	4-	1.5	30	2.4	13.3	T	BR
V97-2276	W	4-	1.6	29	2.0	12.0	G	T
99VPI-17RR	W	2-	1.4	27	2.0	13.2	G	T
99VPI-120RR	W	1-	1.5	29	2.1	13.1	G	T
TN96-68	W	4-	1.5	26	2.4	14.1	T	T

TABLE 19 ~ Continued

## PEST REACTIONS

STRAIN/ VARIETY	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER
HUTCHESON	3.8	2.1	5.0	5.0	4.8	R	R
MANOKIN	4.7	1.0	4.7	2.3	3.0	S	R
5601T	4.9	3.6	4.3	2.3	4.0	R	R
P 9594	5.0	3.1	4.8	3.3	4.5	R	MS
AG 5501	4.7	1.0	3.8	5.0	4.5	R	R
K1530	3.8	1.4	4.9	1.3	4.5	R	R
K1533	5.0	1.0	5.0	1.0	3.8	S	R
LS96-1631	5.0	1.0	4.8	5.0	3.0	R	R
LS98-3966	4.6	1.6	4.7	1.0	4.0	R	R
Md 97-6065	5.0	1.6	4.3	1.8	3.3	S	R
Md 98-5095	5.0	1.9	4.6	5.0	5.0	S	R
Md 98-5927	1.0	1.0	4.6	2.5	4.5	S	R
N98-7265	5.0	3.4	4.8	5.0	4.8	R	R
N98-7288	4.5	3.1	4.9	5.0	3.0	R	R
N98-7289	5.0	4.1	4.9	5.0	4.8	R	R
R96-209	4.7	2.4	4.6	5.0	5.0	R	R
R96-3427	5.0	3.9	3.6	5.0	2.5	S	R
R97-1634	4.9	3.6	4.2	3.0	4.5	S	R
S98-1375	1.0	1.2	1.2	5.0	4.5	R	R
S99-1117	2.9	1.2	1.2	5.0	4.3	S	R
S99-1171	2.0	2.0	1.3	5.0	3.3	S	R
TN97-134	4.9	1.3	3.9	5.0	3.0	R	R
TN97-167	4.7	1.0	4.3	4.0	4.3	S	R
TN97-271	4.7	3.3	4.2	5.0	4.0	R	R
TN98-149	4.7	5.0	3.7	5.0	3.8	S	R
V95-0016	4.0	1.3	4.8	1.3	3.0	S	R
V96-0340	5.0	3.9	4.6	5.0	3.3	R	R
V97-1911	1.9	1.0	4.7	5.0	3.5	S	R
V97-2276	4.6	1.3	4.7	5.0	5.0	R	R
99VPI -17RR	5.0	4.1	4.9	5.0	3.3	R	R
99VPI -120RR	5.0	4.2	5.0	5.0	5.0	R	R
TN96-68	5.0	4.2	4.7	5.0	4.3	S	R



**TABLE 20 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2002**

STRAIN/ VARIETY	EAST					MEAN
	GEORGETOWN DE	ORANGE* VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	68.4	38.2	36.1	44.7	34.9	46.0
MANOKIN	59.5	49.2	15.5	34.9	31.8	35.4
5601T	69.9	61.1	38.4	36.2	37.8	45.6
P 9594	71.9	50.5	29.6	44.0	37.9	45.9
AG 5501	67.0	60.6	39.6	40.9	37.3	46.2
K1530	73.3	51.9	27.0	39.0	35.0	43.6
K1533	68.4	57.0	27.6	40.5	33.2	42.4
LS96-1631	69.5	52.4	20.8	42.0	34.4	41.6
LS98-3966	72.1	59.7	33.0	38.3	34.3	44.4
Md 97-6065	72.7	56.4	22.3	43.2	35.8	43.5
Md 98-5095	70.1	63.3	21.2	42.1	33.7	41.8
Md 98-5927	62.1	59.0	19.2	45.0	34.9	40.3
N98-7265	84.5	60.1	32.8	38.0	37.7	48.3
N98-7288	72.3	55.7	26.6	37.3	39.4	43.9
N98-7289	69.2	43.8	28.7	39.1	39.5	44.1
R96-209	75.8	46.2	28.8	39.7	43.8	47.0
R96-3427	73.9	52.3	31.7	39.0	42.3	46.7
R97-1634	70.5	59.2	33.4	42.4	43.5	47.4
S98-1375	69.0	53.2	16.1	42.3	36.6	41.0
S99-1117	73.1	40.1	32.1	36.0	30.9	43.0
S99-1171	71.3	46.4	34.2	41.6	38.3	46.3
TN97-134	67.8	44.3	24.0	35.2	36.4	40.9
TN97-167	66.0	53.6	23.6	39.8	37.4	41.7
TN97-271	77.2	49.2	33.4	39.9	37.9	47.1
TN98-149	73.7	61.2	26.2	30.5	33.9	41.1
V95-0016	61.1	55.4	27.8	41.5	34.1	41.1
V96-0340	76.0	53.4	32.7	40.5	38.5	46.9
V97-1911	69.5	56.0	32.5	41.0	32.3	43.8
V97-2276	72.5	47.0	27.8	35.9	35.0	42.8
99VPI -17RR	67.8	52.4	28.6	37.7	32.0	41.5
99VPI -120RR	75.4	36.3	34.4	34.3	35.0	44.8
TN96-68	73.1	40.2	25.0	44.5	35.5	44.5
L. S. D. (0.05)	7.0	20.3	7.3	9.5	5.6	.
C. V. (%)	6.1	23.9	15.7	14.7	9.5	.

\*Data not included in mean

TABLE 20 ~Continued

STRAIN/ VARIETY	SOUTH					MEAN
	BELLE MINA AL	KNOXVILLE TN	PRINCETON KY	SUFFOLK VA	ULLIN IL	
HUTCHESON	25.7	40.1	24.9	31.7	50.2	34.5
MANOKIN	24.5	41.6	31.4	29.6	55.3	36.5
5601T	27.5	44.8	30.2	27.4	55.3	37.0
P 9594	23.0	43.0	32.1	32.2	51.6	36.4
AG 5501	20.3	44.5	28.5	29.7	55.0	35.6
K1530	23.9	43.9	34.2	24.7	56.2	36.6
K1533	30.3	40.2	29.9	27.0	53.1	36.1
LS96-1631	28.7	39.0	33.4	28.7	50.7	36.1
LS98-3966	20.6	35.2	26.2	22.5	51.4	31.2
Md 97-6065	23.0	37.2	26.9	25.0	58.9	34.2
Md 98-5095	24.5	36.3	21.6	21.9	43.0	29.5
Md 98-5927	20.3	42.3	27.5	22.5	42.5	31.0
N98-7265	24.5	34.9	33.3	24.6	53.6	34.2
N98-7288	26.3	40.9	36.1	28.1	47.5	35.8
N98-7289	26.0	34.5	29.2	29.0	47.5	33.3
R96-209	23.0	40.1	35.6	30.8	57.2	37.3
R96-3427	21.5	40.4	32.1	27.6	51.6	34.6
R97-1634	23.6	41.5	30.0	29.2	59.9	36.8
S98-1375	20.6	53.6	30.4	25.8	55.5	37.2
S99-1117	23.0	37.7	25.6	28.7	61.5	35.3
S99-1171	23.3	51.3	32.3	26.6	62.0	39.1
TN97-134	21.8	40.6	30.2	28.8	60.1	36.3
TN97-167	25.1	44.8	31.5	33.5	48.3	36.6
TN97-271	23.3	43.4	32.4	29.9	50.9	36.0
TN98-149	26.0	42.0	34.2	20.0	54.5	35.4
V95-0016	21.8	42.3	26.1	31.3	56.5	35.6
V96-0340	26.3	44.0	35.1	31.0	52.6	37.8
V97-1911	22.7	38.7	27.7	22.8	53.3	33.1
V97-2276	24.5	45.2	30.0	25.2	53.3	35.7
99VPI -17RR	25.4	39.1	27.2	28.1	41.5	32.3
99VPI -120RR	23.3	36.8	27.8	28.7	43.9	32.1
TN96-68	25.1	42.2	33.6	23.5	60.8	37.1
L. S. D. (0.05)	5.3	6.0	5.6	6.4	6.5	.
C. V. (%)	13.6	9.0	11.3	14.2	7.5	.

TABLE 20 ~ Continued

STRAIN/ VARIETY	DELTA					MEAN
	KEISER AR	MARIANNA AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
HUTCHESON	53.4	45.0	43.3	38.0	65.8	49.1
MANOKIN	48.3	37.1	46.3	40.4	57.4	45.9
5601T	70.5	49.8	52.3	41.0	67.1	56.1
P 9594	56.7	38.6	50.4	47.3	67.0	52.0
AG 5501	61.0	52.2	47.8	39.3	62.6	52.6
K1530	57.0	52.4	53.1	38.5	59.2	52.0
K1533	55.0	47.0	48.9	40.8	60.8	50.5
LS96-1631	55.6	49.8	50.0	35.9	56.9	49.6
LS98-3966	56.1	49.2	43.8	38.9	58.9	49.4
Md 97-6065	59.1	48.5	53.5	44.0	66.0	54.2
Md 98-5095	40.1	30.9	46.7	27.8	53.7	39.8
Md 98-5927	42.4	39.6	43.4	28.4	59.3	42.6
N98-7265	49.6	35.3	41.7	32.1	50.4	41.8
N98-7288	51.8	30.4	40.8	35.5	58.3	43.4
N98-7289	51.8	30.7	38.5	33.7	58.0	42.5
R96-209	54.3	39.7	55.2	42.7	67.2	51.8
R96-3427	54.7	41.9	46.8	38.0	65.6	49.4
R97-1634	60.6	46.5	59.6	42.2	71.1	56.0
S98-1375	55.9	41.4	48.6	45.7	68.6	52.0
S99-1117	61.1	49.4	58.0	38.4	64.3	54.2
S99-1171	61.7	49.9	49.2	43.0	60.3	52.8
TN97-134	54.0	47.4	50.4	45.7	65.2	52.5
TN97-167	56.0	46.3	53.7	37.8	63.1	51.4
TN97-271	55.6	39.8	48.0	36.7	64.5	48.9
TN98-149	61.5	42.8	46.8	41.4	60.4	50.6
V95-0016	57.1	45.5	51.7	38.8	56.5	49.9
V96-0340	55.3	45.0	44.9	33.3	62.9	48.3
V97-1911	52.7	42.5	42.7	32.9	58.5	45.9
V97-2276	58.6	47.8	49.1	27.6	61.0	48.8
99VPI -17RR	51.3	37.2	41.8	36.1	56.6	44.6
99VPI -120RR	52.8	36.2	41.4	31.0	58.5	44.0
TN96-68	60.8	45.5	54.0	45.9	64.9	54.2
L. S. D. (0.05)	6.5	5.9	6.1	5.8	5.3	.
C. V. (%)	7.1	8.4	7.8	9.4	5.3	.

TABLE 20 ~ Continued

STRAIN/ VARIETY	WEST					MEAN
	BIXBY OK	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	PROSPER* TX	
HUTCHESON	24.4	45.5	30.6	18.0	17.1	29.6
MANOKIN	18.6	44.8	30.4	21.9	21.1	28.9
5601T	27.3	45.7	32.1	18.3	20.1	30.8
P 9594	30.3	45.2	30.7	17.8	23.4	31.0
AG 5501	22.1	44.1	29.4	23.3	17.1	29.7
K1530	24.7	41.7	31.6	20.1	19.1	29.5
K1533	29.2	40.6	30.2	19.7	26.6	29.9
LS96-1631	32.3	47.5	27.8	19.5	20.0	31.8
LS98-3966	23.5	34.5	28.1	16.4	15.6	25.6
Md 97-6065	22.6	42.8	29.6	18.5	26.2	28.4
Md 98-5095	24.5	28.7	25.7	16.0	12.0	23.7
Md 98-5927	19.3	35.0	27.6	19.7	11.1	25.4
N98-7265	32.1	52.2	27.8	11.7	15.9	31.0
N98-7288	26.5	52.9	28.8	17.7	16.2	31.5
N98-7289	26.0	50.8	26.3	17.7	12.0	30.2
R96-209	33.6	46.8	33.5	16.7	17.7	32.6
R96-3427	31.2	40.3	30.4	16.1	16.4	29.5
R97-1634	33.1	47.5	30.8	19.0	17.1	32.6
S98-1375	21.4	48.8	29.7	20.3	25.0	30.0
S99-1117	26.0	41.7	25.9	18.6	15.7	28.1
S99-1171	29.1	49.1	26.5	18.3	15.0	30.8
TN97-134	23.5	45.7	34.3	23.6	16.9	31.8
TN97-167	23.2	51.9	34.8	21.9	18.7	32.9
TN97-271	26.8	46.2	32.6	19.7	23.3	31.3
TN98-149	18.4	44.2	30.6	14.9	18.7	27.0
V95-0016	23.0	30.5	28.1	18.9	19.6	25.1
V96-0340	22.8	57.7	32.4	17.8	24.8	32.6
V97-1911	22.7	47.9	28.0	17.7	23.7	29.1
V97-2276	22.4	46.2	31.2	20.4	15.4	30.1
99VPI -17RR	22.1	47.0	29.1	18.2	16.5	29.1
99VPI -120RR	21.4	45.2	27.8	17.6	17.4	28.0
TN96-68	25.0	49.9	32.5	15.8	19.9	30.8
L. S. D. (0.05)	5.6	9.5	2.9	3.6	9.8	.
C. V. (%)	13.5	13.0	5.9	12.0	30.2	.

\*Data not included in mean

TABLE 21 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2002

## OIL PERCENTAGES

STRAIN/ VARIETY	KNOX-				PITTS-		PORTAGE-		PORTAGE-		STONE-				
	BIXBY OK	VILLE TN	MCCUNE KS	ORANGE* VA	BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	PRINCETON KY	PROSPER* TX	VILLE MS	SUFFOLK VA	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	19.1	21.7	20.3	19.4	.	19.9	20.1	.	20.4	20.3	21.4	.	21.1	18.9	20.3
MANOKIN	20.0	22.0	22.6	20.2	.	21.9	22.5	.	21.5	24.2	22.1	.	21.1	19.2	21.4
5601T	18.3	20.7	20.8	18.9	.	19.1	19.2	.	19.9	19.3	18.6	.	19.7	18.9	19.5
P 9594	19.5	20.0	19.1	19.0	.	19.9	20.2	.	18.3	21.3	20.6	.	20.1	18.6	19.6
AG 5501	19.5	20.1	19.5	19.1	.	19.7	20.2	.	19.2	20.4	19.9	.	20.5	19.2	19.8
K1530	19.1	23.0	21.8	20.9	.	21.3	21.3	.	20.9	22.5	21.3	.	21.4	19.0	21.0
K1533	20.1	21.8	20.6	19.7	.	21.1	21.0	.	21.1	21.9	21.3	.	20.3	18.9	20.7
LS96-1631	20.2	22.6	21.4	20.0	.	20.9	21.0	.	20.1	20.5	22.4	.	20.6	19.4	21.0
LS98-3966	19.1	21.7	23.5	20.2	.	22.4	21.3	.	20.2	22.8	22.0	.	21.8	19.7	21.3
Md 97-6065	19.5	21.6	21.8	19.1	.	20.9	20.5	.	20.9	23.9	21.4	.	20.5	19.1	20.7
Md 98-5095	18.4	21.2	21.2	19.4	.	19.8	20.3	.	20.3	18.8	21.5	.	20.1	19.6	20.3
Md 98-5927	18.4	20.5	20.9	17.8	.	19.9	19.8	.	18.6	17.0	22.5	.	19.3	19.3	19.9
N98-7265	20.8	20.3	19.8	19.0	.	20.4	19.9	.	19.6	19.9	21.9	.	21.2	18.5	20.3
N98-7288	19.5	19.7	19.4	18.1	.	19.3	19.4	.	18.8	17.9	21.5	.	19.8	18.4	19.5
N98-7289	19.9	20.5	19.3	18.2	.	19.6	19.5	.	19.8	18.6	21.0	.	21.1	17.9	19.8
R96-209	19.5	21.3	20.3	19.9	.	18.7	20.6	.	19.2	18.7	21.1	.	20.2	17.8	19.9
R96-3427	19.4	20.8	19.8	18.4	.	20.2	20.3	.	20.4	19.0	19.9	.	21.0	19.3	20.1
R97-1634	19.9	20.4	19.9	19.4	.	19.9	18.6	.	19.5	18.1	20.9	.	18.2	19.3	19.6
S98-1375	19.8	20.4	19.9	18.9	.	20.3	20.0	.	19.6	19.9	20.5	.	20.5	19.5	20.1
S99-1117	19.9	20.4	19.3	18.2	.	19.4	19.8	.	19.9	20.4	20.2	.	19.9	18.6	19.7
S99-1171	20.2	19.9	20.6	18.9	.	17.8	20.4	.	20.7	19.8	20.9	.	20.1	20.2	20.1
TN97-134	19.2	19.5	20.4	17.8	.	20.8	14.5	.	19.6	18.8	20.9	.	19.6	19.4	19.3
TN97-167	18.3	20.5	19.4	18.6	.	19.3	18.8	.	20.0	19.3	20.6	.	19.4	18.6	19.4
TN97-271	20.2	22.1	19.9	19.2	.	19.9	20.3	.	20.7	20.2	22.1	.	21.1	19.7	20.7
TN98-149	18.8	20.9	20.7	18.3	.	20.9	20.0	.	19.5	20.2	21.4	.	20.4	18.4	20.1
V95-0016	19.1	21.6	21.2	19.7	.	20.4	19.4	.	20.8	19.2	21.6	.	20.5	17.9	20.3
V96-0340	20.6	21.0	20.8	18.6	.	19.3	20.2	.	19.6	18.1	19.6	.	20.2	18.5	20.0
V97-1911	19.5	20.5	21.0	18.9	.	20.8	20.1	.	18.1	16.6	21.1	.	20.8	17.5	19.9
V97-2276	18.6	21.8	20.9	19.8	.	19.5	20.6	.	19.8	21.1	19.8	.	20.3	19.0	20.0
99VPI -17RR	19.8	21.1	20.9	19.9	.	21.3	20.3	.	18.8	20.2	20.6	.	21.1	19.8	20.4
99VPI -12ORR	19.2	20.4	20.7	18.4	.	20.7	19.6	.	19.5	20.2	20.8	.	20.5	19.2	20.1
TN96-68	21.9	21.5	21.5	19.5	.	21.8	21.9	.	20.2	23.2	22.6	.	21.5	19.2	21.3

\*Data not included in mean

TABLE 21 ~ Continued

## PROTEIN PERCENTAGES

STRAIN/ VARIETY	KNOX-				PITTS-		PORTAGE-		PORTAGE-		STONE-				
	BIXBY OK	VILLE TN	MCCUNE KS	ORANGE* VA	BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	PRINCETON KY	PROSPER* TX	VILLE MS	SUFFOLK VA	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	42.0	39.4	39.7	37.7	.	40.3	38.1	.	42.5	41.8	39.1	.	38.7	43.0	40.3
MANOKIN	42.1	40.8	37.6	35.8	.	40.7	39.5	.	42.0	43.8	41.1	.	39.4	41.9	40.6
5601T	41.9	41.9	38.8	38.2	.	41.1	40.2	.	43.5	42.6	40.1	.	40.6	42.9	41.2
P 9594	39.2	39.6	39.4	38.3	.	40.3	39.7	.	46.0	42.2	39.1	.	39.8	42.9	40.7
AG 5501	41.4	41.3	40.8	38.4	.	42.5	40.5	.	42.7	43.3	41.4	.	39.4	42.5	41.4
K1530	42.0	41.9	38.4	36.9	.	42.1	40.8	.	41.6	40.1	43.8	.	40.9	42.9	41.6
K1533	42.1	42.1	40.8	38.8	.	41.6	41.2	.	43.3	43.9	43.6	.	40.8	41.8	41.9
LS96-1631	40.0	40.3	38.1	36.8	.	39.9	38.5	.	41.7	45.1	38.7	.	40.0	42.6	40.0
LS98-3966	44.5	43.1	38.2	35.3	.	41.2	42.4	.	43.5	43.9	45.2	.	38.8	41.0	42.0
Md 97-6065	41.0	41.2	37.1	37.7	.	39.5	39.2	.	40.5	41.3	40.0	.	38.9	41.6	39.9
Md 98-5095	38.9	40.8	37.9	37.4	.	41.4	40.6	.	40.7	44.5	39.2	.	40.9	40.6	40.1
Md 98-5927	40.7	42.2	39.0	38.9	.	42.2	41.4	.	43.3	49.5	39.4	.	41.0	42.5	41.3
N98-7265	38.1	39.0	38.1	37.0	.	39.8	39.8	.	43.5	44.3	39.4	.	38.4	42.4	39.8
N98-7288	38.6	38.0	38.3	38.3	.	40.2	39.0	.	43.9	47.5	37.0	.	39.0	42.5	39.6
N98-7289	38.6	39.0	38.6	37.5	.	40.3	39.0	.	42.0	46.9	38.6	.	38.4	43.4	39.8
R96-209	39.9	40.6	37.3	36.3	.	38.9	40.3	.	44.2	48.1	38.9	.	39.1	43.1	40.3
R96-3427	40.5	40.1	41.3	38.5	.	40.5	39.7	.	42.1	44.5	41.3	.	38.9	42.3	40.7
R97-1634	40.9	41.4	38.5	38.0	.	40.5	40.9	.	42.7	45.5	40.7	.	39.5	42.1	40.8
S98-1375	38.6	38.9	38.3	38.7	.	38.9	38.9	.	41.2	41.5	38.4	.	37.9	42.1	39.2
S99-1117	39.9	40.7	39.7	40.0	.	39.0	40.5	.	42.5	42.0	42.3	.	40.1	41.9	40.7
S99-1171	41.6	41.3	39.7	40.5	.	39.4	40.8	.	41.3	45.6	42.4	.	40.3	43.4	41.1
TN97-134	41.8	42.2	40.4	40.2	.	41.6	46.6	.	42.4	46.9	40.1	.	41.0	42.3	42.0
TN97-167	40.8	39.9	39.4	36.4	.	40.6	40.7	.	43.5	41.9	39.3	.	40.0	40.9	40.6
TN97-271	41.7	40.5	40.4	40.9	.	41.5	41.0	.	42.8	44.2	39.7	.	39.7	42.5	41.1
TN98-149	42.9	40.6	40.0	39.0	.	41.1	42.5	.	44.0	43.4	39.9	.	41.1	44.8	41.9
V95-0016	42.2	41.2	38.8	38.2	.	41.6	42.1	.	42.5	46.7	42.7	.	40.0	42.3	41.5
V96-0340	39.8	42.3	40.7	38.2	.	41.2	40.0	.	43.9	48.1	41.8	.	40.4	43.2	41.5
V97-1911	38.6	39.3	35.3	37.2	.	39.2	39.4	.	43.2	44.2	38.1	.	37.6	40.8	39.1
V97-2276	39.6	40.0	37.9	36.2	.	40.5	39.1	.	44.0	42.0	42.0	.	39.3	41.7	40.5
99VPI -17RR	40.9	41.6	39.8	36.7	.	40.2	40.8	.	46.2	42.5	41.0	.	40.1	43.0	41.5
99VPI -12ORR	41.4	40.9	38.7	38.6	.	38.4	40.5	.	43.6	43.9	39.6	.	39.0	43.0	40.6
TN96-68	40.0	42.0	37.9	38.7	.	38.8	40.5	.	42.7	40.3	41.6	.	38.9	41.3	40.4

\*Data not included in mean

TABLE 21 ~ Continued

## GRAMS PER 100 SEED

STRAIN/ VARIETY	KNOX-		MCCUNE KS	ORANGE* VA	PITTS-		PORTAGE-		PORTAGE- VILLE MO(B)	PRINCETON KY	PROSPER* TX	STONE-			MEAN
	BIXBY OK	VILLE TN			BURG KS	PLYMOUTH NC	VILLE MO(A)	VILLE MS				SUFFOLK VA	ULLIN IL	WARSAW VA	
HUTCHESON	13.7	14.3	13.2	18.7	11.1	17.4	12.1	10.7	11.1	13.3	.	17.1	14.8	17.1	13.9
MANOKIN	13.4	12.0	13.0	18.0	11.4	15.4	11.2	10.7	11.4	11.4	.	16.0	13.2	15.8	13.1
5601T	16.3	12.3	12.5	18.3	11.6	15.7	12.3	11.1	10.8	11.9	.	16.6	14.4	15.6	13.6
P 9594	14.2	16.1	15.4	18.8	12.1	16.2	13.5	11.4	13.7	13.7	.	19.5	16.6	18.7	15.2
AG 5501	14.3	13.6	14.7	17.8	12.0	16.0	12.1	10.9	12.7	11.4	.	16.7	14.9	17.1	14.1
K1530	14.8	10.9	10.7	17.3	9.3	15.6	11.0	10.3	10.1	8.5	.	15.4	13.0	14.4	12.3
K1533	14.6	12.6	11.6	19.3	11.4	15.7	11.6	10.6	12.5	9.9	.	16.2	14.2	16.1	13.4
LS96-1631	13.7	13.8	13.1	18.6	11.3	17.1	12.9	11.8	12.4	11.8	.	16.6	14.9	16.7	14.0
LS98-3966	13.0	13.7	12.0	18.6	11.0	17.3	11.9	11.2	11.0	10.3	.	15.8	14.1	17.4	13.5
Md 97-6065	13.6	12.9	12.6	18.1	11.4	15.4	12.0	11.7	12.7	11.1	.	16.3	14.7	16.0	13.6
Md 98-5095	11.5	12.0	10.9	17.0	10.3	15.6	10.6	10.4	10.0	10.0	.	13.9	11.7	16.1	12.1
Md 98-5927	14.7	15.6	13.3	18.5	11.2	19.0	14.5	11.8	11.3	12.1	.	16.8	14.9	17.1	14.6
N98-7265	15.4	15.9	15.0	18.4	11.9	17.1	12.6	11.2	12.8	12.5	.	17.0	15.9	18.3	14.8
N98-7288	13.2	16.2	13.8	18.4	13.0	18.4	12.1	11.3	14.6	14.8	.	17.5	16.4	20.2	15.2
N98-7289	13.2	15.3	16.5	17.2	11.7	17.2	11.7	11.5	14.8	12.4	.	17.8	16.1	20.9	15.2
R96-209	15.3	14.7	12.3	17.4	11.4	16.8	12.9	12.1	12.5	12.5	.	17.7	16.0	17.8	14.5
R96-3427	15.2	15.2	14.4	19.1	12.3	17.4	13.1	12.9	11.4	13.3	.	18.0	14.8	18.1	14.8
R97-1634	13.0	17.1	13.2	18.8	12.3	17.5	14.6	11.8	11.2	12.9	.	18.7	16.0	17.4	14.8
S98-1375	15.9	16.3	15.6	17.2	11.9	16.4	13.7	12.3	12.6	11.4	.	19.4	16.3	19.0	15.4
S99-1117	14.5	14.2	12.5	16.7	10.6	15.3	12.4	11.9	11.4	9.5	.	16.0	15.9	17.6	13.9
S99-1171	16.1	18.8	14.4	19.0	12.5	16.9	13.8	11.8	13.0	10.6	.	17.1	17.1	16.9	15.3
TN97-134	15.5	16.2	15.4	17.7	13.0	16.8	14.5	12.2	13.9	11.3	.	19.7	16.3	18.1	15.6
TN97-167	14.8	12.8	12.0	18.0	10.8	14.0	10.6	10.9	11.9	8.5	.	15.8	13.0	16.3	13.0
TN97-271	13.9	14.1	13.3	17.2	11.0	14.9	11.4	10.2	11.1	12.1	.	16.9	14.2	14.2	13.2
TN98-149	14.3	13.6	13.9	18.1	12.9	16.7	13.4	12.1	13.0	11.3	.	14.7	16.7	18.6	14.5
V95-0016	10.6	11.3	10.6	16.7	9.8	13.2	10.7	9.5	9.8	10.4	.	15.2	13.2	15.5	11.8
V96-0340	17.1	14.1	16.4	20.4	13.9	17.8	14.0	13.0	13.3	14.3	.	20.4	16.9	18.5	16.0
V97-1911	12.1	13.3	12.8	18.6	11.3	14.6	12.3	11.1	11.5	11.9	.	15.5	14.6	17.4	13.3
V97-2276	14.2	10.8	10.5	18.2	9.1	13.1	11.1	10.9	9.3	9.6	.	15.3	12.6	14.7	12.0
99VPI -17RR	12.5	12.4	12.1	18.2	10.9	15.8	11.9	10.7	10.9	10.5	.	16.1	13.8	17.9	13.2
99VPI -12ORR	15.0	12.6	11.9	16.1	11.3	15.0	11.8	10.0	10.7	11.5	.	15.8	13.7	16.5	13.1
TN96-68	14.1	13.8	12.2	18.0	10.5	15.5	14.6	12.4	12.6	9.6	.	17.7	16.4	15.2	14.1

\*Data not included in mean

**TABLE 22 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN HUTCHESON, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2002**

STRAIN/ VARIETY	EAST					MEAN
	GEORGETOWN DE	ORANGE* VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	10/24	10/29	11/10	.	.	11/02
MANOKIN	-11	-6	-5	.	.	-9
5601T	-3	-3	-1	.	.	-3
P 9594	.	1	2	.	.	10
AG 5501	0	0	0	.	.	-1
K1530	-6	-7	-2	.	.	-4
K1533	-1	3	0	.	.	-1
LS96-1631	-4	-2	-2	.	.	-3
LS98-3966	-10	-3	-2	.	.	-7
Md 97-6065	-1	-3	-3	.	.	-2
Md 98-5095	-5	-6	-1	.	.	-4
Md 98-5927	-2	-6	-1	.	.	-2
N98-7265	.	3	19	.	.	27
N98-7288	.	2	1	.	.	9
N98-7289	.	-2	2	.	.	10
R96-209	-1	-3	0	.	.	-1
R96-3427	-3	-8	6	.	.	1
R97-1634	.	-8	0	.	.	8
S98-1375	0	-6	0	.	.	0
S99-1117	0	-6	2	.	.	0
S99-1171	.	-4	14	.	.	22
TN97-134	-13	-6	-2	.	.	-8
TN97-167	0	-5	-1	.	.	-1
TN97-271	.	-7	0	.	.	8
TN98-149	-3	1	-1	.	.	-2
V95-0016	0	-1	0	.	.	0
V96-0340	-5	-3	4	.	.	-1
V97-1911	-4	-6	-1	.	.	-3
V97-2276	-4	0	-1	.	.	-3
99VPI -17RR	-1	1	-1	.	.	-2
99VPI -12ORR	.	-9	0	.	.	8
TN96-68	-4	-12	-1	.	.	-3

\*Data not included in mean.



TABLE 22 ~ Continued

STRAIN/ VARIETY	SOUTH					
	BELLE MINA AL	KNOXVILLE TN	PRINCETON KY	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	.	10/02	.	11/01	10/07	10/14
MANOKIN	.	-5	.	-13	-5	-8
5601T	.	-2	.	0	-2	-2
P 9594	.	6	.	2	5	4
AG 5501	.	2	.	0	0	0
K1530	.	-5	.	-7	-5	-6
K1533	.	-1	.	0	-2	-1
LS96-1631	.	-3	.	2	-3	-2
LS98-3966	.	-2	.	-14	-5	-7
Md 97-6065	.	-3	.	-10	-4	-6
Md 98-5095	.	-3	.	-14	-5	-8
Md 98-5927	.	0	.	-7	-3	-4
N98-7265	.	7	.	2	7	5
N98-7288	.	5	.	0	4	2
N98-7289	.	4	.	0	6	3
R96-209	.	-1	.	0	-1	-1
R96-3427	.	3	.	0	1	1
R97-1634	.	5	.	2	5	4
S98-1375	.	2	.	0	0	0
S99-1117	.	0	.	-3	4	0
S99-1171	.	8	.	0	6	4
TN97-134	.	-2	.	-11	-2	-6
TN97-167	.	3	.	0	-1	0
TN97-271	.	4	.	0	2	1
TN98-149	.	-3	.	-13	-3	-6
V95-0016	.	2	.	0	-1	0
V96-0340	.	-2	.	0	-2	-2
V97-1911	.	-3	.	-11	-3	-6
V97-2276	.	-4	.	-3	-5	-5
99VPI -17RR	.	0	.	-3	-2	-2
99VPI -120RR	.	1	.	2	1	1
TN96-68	.	-3	.	-11	-4	-7

TABLE 22 ~ Continued

STRAIN/ VARIETY	DELTA					
	KEISER AR	MARIANNA AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
HUTCHESON	09/28	09/29	10/05	10/02	09/14	09/28
MANOKIN	2	-7	-7	-8	-3	-5
5601T	1	1	1	1	9	2
P 9594	1	-2	5	5	10	3
AG 5501	4	0	1	-1	9	2
K1530	0	-1	-3	-5	-2	-3
K1533	5	-3	2	1	9	2
LS96-1631	0	-6	-1	-4	9	-1
LS98-3966	1	-5	-5	-8	-2	-4
Md 97-6065	5	-5	-3	-5	0	-2
Md 98-5095	2	-4	-6	-8	-4	-4
Md 98-5927	3	-3	-2	-4	-3	-2
N98-7265	3	-5	7	6	9	4
N98-7288	3	-1	3	1	9	3
N98-7289	2	-3	5	3	10	3
R96-209	1	-2	-2	-7	-1	-3
R96-3427	1	-5	1	2	10	1
R97-1634	3	-3	6	7	11	4
S98-1375	3	-2	-2	-2	-2	-1
S99-1117	2	-1	3	1	9	2
S99-1171	4	0	5	6	11	5
TN97-134	1	-5	-3	-6	-4	-4
TN97-167	5	-2	0	0	9	2
TN97-271	3	0	4	1	9	3
TN98-149	2	-3	-4	-6	-3	-3
V95-0016	2	-2	-1	-4	-1	-2
V96-0340	2	-2	-1	-4	-1	-2
V97-1911	1	-7	-2	-8	-2	-4
V97-2276	2	-9	-4	-5	-1	-4
99VPI -17RR	6	-7	-3	-3	0	-2
99VPI -120RR	0	-1	1	0	5	1
TN96-68	0	-1	-4	-8	-2	-3

TABLE 22 ~ Continued

STRAIN/ VARIETY	WEST					MEAN
	BIXBY OK	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	PROSPER TX	
HUTCHESON	.	09/22	.	.	.	09/22
MANOKIN	.	-7	.	.	.	-7
5601T	.	0	.	.	.	0
P 9594	.	3	.	.	.	3
AG 5501	.	0	.	.	.	0
K1530	.	-6	.	.	.	-6
K1533	.	2	.	.	.	2
LS96-1631	.	-4	.	.	.	-4
LS98-3966	.	-8	.	.	.	-8
Md 97-6065	.	-7	.	.	.	-7
Md 98-5095	.	-7	.	.	.	-7
Md 98-5927	.	0	.	.	.	0
N98-7265	.	7	.	.	.	7
N98-7288	.	3	.	.	.	3
N98-7289	.	2	.	.	.	2
R96-209	.	-4	.	.	.	-4
R96-3427	.	4	.	.	.	4
R97-1634	.	0	.	.	.	0
S98-1375	.	-1	.	.	.	-1
S99-1117	.	-2	.	.	.	-2
S99-1171	.	9	.	.	.	9
TN97-134	.	-5	.	.	.	-5
TN97-167	.	3	.	.	.	3
TN97-271	.	5	.	.	.	5
TN98-149	.	-5	.	.	.	-5
V95-0016	.	-1	.	.	.	-1
V96-0340	.	-1	.	.	.	-1
V97-1911	.	-3	.	.	.	-3
V97-2276	.	-6	.	.	.	-6
99VPI -17RR	.	-3	.	.	.	-3
99VPI -12ORR	.	-1	.	.	.	-1
TN96-68	.	-6	.	.	.	-6

**TABLE 23 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2002**

STRAIN/ VARIETY	EAST				MEAN
	GEORGETOWN DE	ORANGE* VA	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	43	31	31	25	33
MANOKIN	37	28	32	28	32
5601T	45	32	36	30	37
P 9594	47	30	36	31	38
AG 5501	43	33	33	28	35
K1530	45	26	33	31	36
K1533	43	33	32	28	34
LS96-1631	43	32	30	25	33
LS98-3966	36	31	31	26	31
Md 97-6065	37	33	32	27	32
Md 98-5095	35	34	30	24	30
Md 98-5927	34	28	24	21	26
N98-7265	41	33	34	30	35
N98-7288	41	37	32	28	34
N98-7289	41	26	32	27	33
R96-209	43	27	33	31	36
R96-3427	43	31	32	27	34
R97-1634	42	31	32	29	34
S98-1375	42	30	35	26	34
S99-1117	45	27	35	31	37
S99-1171	41	27	29	26	32
TN97-134	38	26	32	24	31
TN97-167	38	30	32	30	33
TN97-271	39	24	29	25	31
TN98-149	41	29	26	24	30
V95-0016	42	32	33	31	35
V96-0340	44	27	31	25	33
V97-1911	39	33	32	24	32
V97-2276	40	27	29	27	32
99VPI -17RR	41	29	26	22	30
99VPI -120RR	40	25	29	24	31
TN96-68	34	22	31	26	30

\*Data not included in mean

TABLE 23 ~ Continued

STRAIN/ VARIETY	SOUTH					MEAN
	BELLE MINA AL	KNOXVILLE TN	PRINCETON KY	SUFFOLK VA	ULLIN IL	
HUTCHESON	25	29	37	28	35	31
MANOKIN	24	34	39	31	33	32
5601T	26	37	41	30	33	33
P 9594	30	39	40	33	36	36
AG 5501	22	35	40	30	36	33
K1530	25	35	38	27	31	31
K1533	30	30	38	28	33	32
LS96-1631	22	35	33	31	32	30
LS98-3966	23	29	35	26	31	29
Md 97-6065	22	32	34	27	32	29
Md 98-5095	21	30	32	27	26	27
Md 98-5927	20	27	31	22	24	25
N98-7265	27	32	39	28	36	32
N98-7288	25	32	38	29	36	32
N98-7289	25	34	36	32	33	32
R96-209	26	34	39	28	33	32
R96-3427	22	36	36	32	33	32
R97-1634	25	37	38	31	34	33
S98-1375	25	35	39	29	34	32
S99-1117	27	39	39	35	37	36
S99-1171	21	35	36	27	33	30
TN97-134	23	30	35	27	30	29
TN97-167	29	34	39	30	32	33
TN97-271	21	32	36	29	33	30
TN98-149	22	30	34	24	28	28
V95-0016	25	33	40	32	36	33
V96-0340	23	34	35	29	32	31
V97-1911	25	36	37	29	32	32
V97-2276	26	35	39	28	34	32
99VPI -17RR	20	29	35	29	29	29
99VPI -120RR	25	32	36	27	31	30
TN96-68	18	29	33	25	28	27

TABLE 23 ~ Continued

STRAIN/ VARIETY	DELTA					MEAN
	KEISER AR	MARIANNA AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
HUTCHESON	35	34	28	24	24	29
MANOKIN	35	30	31	26	26	30
5601T	40	33	32	28	24	31
P 9594	40	34	35	34	28	34
AG 5501	40	38	34	33	26	34
K1530	37	29	33	26	26	30
K1533	36	34	34	31	24	32
LS96-1631	36	36	34	28	24	32
LS98-3966	29	29	28	24	20	26
Md 97-6065	35	30	31	26	24	29
Md 98-5095	32	27	27	22	20	25
Md 98-5927	30	24	30	19	18	24
N98-7265	40	40	37	37	26	36
N98-7288	37	39	38	34	26	35
N98-7289	34	38	37	32	26	33
R96-209	40	34	34	30	24	32
R96-3427	40	37	37	28	26	34
R97-1634	40	34	34	30	24	32
S98-1375	39	37	35	35	32	36
S99-1117	36	38	36	37	28	35
S99-1171	35	37	34	34	26	33
TN97-134	35	30	28	27	26	29
TN97-167	31	33	30	30	22	29
TN97-271	31	35	32	28	18	29
TN98-149	33	29	26	22	26	27
V95-0016	37	28	33	21	28	29
V96-0340	36	33	34	22	26	30
V97-1911	37	35	36	28	20	31
V97-2276	32	32	33	24	20	28
99VPI -17RR	30	34	33	26	20	28
99VPI -120RR	34	35	30	30	26	31
TN96-68	31	27	26	22	20	25

TABLE 23 ~ Continued

STRAIN/ VARIETY	WEST					MEAN
	BIXBY OK	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	PROSPER* TX	
HUTCHESON	26	22	31	23	14	25
MANOKIN	29	21	35	22	18	27
5601T	30	25	36	26	16	29
P 9594	26	24	40	25	21	29
AG 5501	29	27	36	25	14	29
K1530	26	22	36	25	15	27
K1533	26	24	37	24	20	28
LS96-1631	22	21	35	23	15	25
LS98-3966	19	19	32	21	15	23
Md 97-6065	22	22	32	22	14	24
Md 98-5095	23	19	29	20	11	23
Md 98-5927	20	16	23	19	11	20
N98-7265	23	27	35	25	18	27
N98-7288	23	23	34	22	19	26
N98-7289	26	28	34	21	16	27
R96-209	26	24	36	22	18	27
R96-3427	25	22	34	25	14	27
R97-1634	31	23	38	22	16	29
S98-1375	30	30	35	27	22	31
S99-1117	29	27	36	25	17	29
S99-1171	17	21	31	22	16	23
TN97-134	21	18	33	21	13	23
TN97-167	25	24	34	26	17	27
TN97-271	23	18	31	23	17	24
TN98-149	18	16	30	19	13	21
V95-0016	27	22	35	24	15	27
V96-0340	21	20	30	22	16	23
V97-1911	24	22	34	23	19	26
V97-2276	23	21	34	23	13	25
99VPI -17RR	21	20	29	18	15	22
99VPI -120RR	23	23	30	20	16	24
TN96-68	23	23	31	20	15	24

\*Data not included in mean

**TABLE 24 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2002**

STRAIN/ VARIETY	EAST					MEAN
	GEORGETOWN DE	ORANGE* VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	3.3	2.0	4.3	1.8	1.1	2.7
MANOKIN	3.0	1.7	4.3	3.2	1.8	3.1
5601T	2.7	2.0	4.3	2.2	1.3	2.6
P 9594	4.3	2.3	4.3	2.8	1.8	3.3
AG 5501	2.0	2.0	3.7	2.0	1.0	2.2
K1530	2.7	1.3	4.7	2.8	1.7	3.0
K1533	3.0	2.0	4.3	2.7	1.2	2.8
LS96-1631	3.0	2.0	4.7	2.0	1.1	2.7
LS98-3966	2.3	1.3	4.0	2.7	1.1	2.5
Md 97-6065	3.0	1.3	5.0	2.7	1.1	3.0
Md 98-5095	2.3	1.7	5.0	2.8	1.3	2.9
Md 98-5927	2.3	1.3	4.7	1.7	1.1	2.5
N98-7265	3.3	2.0	4.0	3.2	1.9	3.1
N98-7288	3.0	2.3	4.0	2.3	1.3	2.7
N98-7289	2.3	1.0	4.0	2.3	1.3	2.5
R96-209	3.7	1.3	4.3	2.3	1.7	3.0
R96-3427	1.3	1.7	4.0	1.7	1.2	2.1
R97-1634	3.3	1.7	4.3	1.8	1.1	2.7
S98-1375	4.0	1.3	4.3	3.0	1.1	3.1
S99-1117	3.3	1.0	4.0	2.7	1.2	2.8
S99-1171	2.7	1.3	3.3	1.5	1.0	2.1
TN97-134	2.3	1.3	5.0	3.2	1.2	2.9
TN97-167	4.3	1.3	4.3	3.7	1.8	3.5
TN97-271	3.7	1.0	4.3	1.7	1.1	2.7
TN98-149	2.0	1.3	4.0	1.7	1.1	2.2
V95-0016	4.0	2.0	5.0	3.3	1.5	3.5
V96-0340	3.0	1.7	4.0	2.0	1.1	2.5
V97-1911	2.0	1.3	4.0	2.3	1.1	2.4
V97-2276	2.7	1.3	4.3	1.7	1.2	2.5
99VPI -17RR	2.3	1.3	4.3	1.3	1.1	2.3
99VPI -120RR	3.0	1.3	4.0	1.2	1.1	2.3
TN96-68	1.7	1.3	4.0	2.3	1.4	2.4

\*Data not included in mean



TABLE 24 ~ Continued

STRAIN/ VARIETY	SOUTH					MEAN
	BELLE MINA AL	KNOXVILLE TN	PRINCETON KY	SUFFOLK VA	ULLIN IL	
HUTCHESON	1.0	1.7	1.7	1.0	1.0	1.3
MANOKIN	1.0	1.8	2.7	1.0	1.0	1.5
5601T	1.0	1.7	1.8	1.0	1.0	1.3
P 9594	1.0	2.7	2.0	1.1	1.0	1.6
AG 5501	1.0	1.7	1.8	1.0	1.0	1.3
K1530	1.0	1.7	2.3	1.0	1.0	1.4
K1533	1.0	1.5	1.8	0.7	1.0	1.2
LS96-1631	1.0	1.5	2.0	1.0	1.0	1.3
LS98-3966	1.0	1.2	1.2	1.0	1.0	1.1
Md 97-6065	1.0	1.5	1.7	1.0	1.0	1.2
Md 98-5095	1.0	1.5	1.5	1.0	1.0	1.2
Md 98-5927	1.0	1.5	1.2	1.0	1.0	1.1
N98-7265	1.0	1.5	2.0	1.0	1.0	1.3
N98-7288	1.0	1.7	1.8	1.0	1.0	1.3
N98-7289	1.0	1.5	2.0	1.0	1.0	1.3
R96-209	1.0	1.5	2.2	1.0	1.0	1.3
R96-3427	1.0	1.3	1.7	1.0	1.0	1.2
R97-1634	1.0	2.0	1.3	1.0	1.0	1.3
S98-1375	1.0	2.2	1.8	1.0	1.0	1.4
S99-1117	1.0	1.8	2.3	1.0	1.0	1.4
S99-1171	1.0	1.5	1.7	1.0	1.0	1.2
TN97-134	1.0	1.5	2.2	1.0	1.0	1.3
TN97-167	1.0	1.7	2.5	1.2	1.0	1.5
TN97-271	1.0	1.5	1.8	1.0	1.0	1.3
TN98-149	1.0	1.5	2.2	1.0	1.0	1.3
V95-0016	1.0	1.7	2.2	1.0	1.0	1.4
V96-0340	1.0	1.5	1.8	1.0	1.0	1.3
V97-1911	1.0	1.5	1.7	1.0	1.0	1.2
V97-2276	1.0	1.5	2.7	1.0	1.0	1.4
99VPI -17RR	1.0	1.5	1.5	1.0	1.0	1.2
99VPI -120RR	1.0	1.5	1.3	1.0	1.0	1.2
TN96-68	1.0	1.5	2.5	1.0	1.0	1.4

TABLE 24 ~ Continued

STRAIN/ VARIETY	DELTA					MEAN
	KEISER AR	MARIANNA AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
HUTCHESON	1.0	1.3	1.5	1.0	2.0	1.4
MANOKIN	1.0	2.0	2.0	2.0	2.0	1.8
5601T	1.0	1.7	1.0	1.0	2.0	1.3
P 9594	1.0	2.0	2.5	2.0	2.0	1.9
AG 5501	1.0	1.7	1.5	1.0	2.0	1.4
K1530	1.0	1.3	1.5	1.0	2.0	1.4
K1533	1.0	1.3	1.5	1.0	2.0	1.4
LS96-1631	1.0	1.7	1.5	1.0	2.0	1.4
LS98-3966	1.0	1.0	1.0	1.0	2.0	1.2
Md 97-6065	1.0	1.0	2.0	1.0	2.0	1.4
Md 98-5095	1.0	1.0	1.0	1.0	2.0	1.2
Md 98-5927	1.0	1.0	1.5	1.0	2.0	1.3
N98-7265	1.0	2.0	2.0	1.5	2.0	1.7
N98-7288	1.0	1.3	2.0	1.0	2.0	1.5
N98-7289	1.0	1.3	2.5	1.0	2.0	1.6
R96-209	1.0	1.7	2.0	1.5	2.0	1.6
R96-3427	1.0	1.0	2.0	1.0	2.0	1.4
R97-1634	1.0	1.7	3.0	1.0	2.0	1.7
S98-1375	1.0	2.0	2.0	1.0	2.0	1.6
S99-1117	1.0	2.0	2.0	1.5	2.0	1.7
S99-1171	1.0	1.0	2.5	1.0	2.0	1.5
TN97-134	1.0	2.0	2.5	1.0	2.0	1.7
TN97-167	1.0	2.0	1.5	1.0	2.0	1.5
TN97-271	1.0	1.0	2.0	1.5	2.0	1.5
TN98-149	1.0	1.3	1.0	1.0	2.0	1.3
V95-0016	1.0	1.7	2.5	1.0	2.0	1.6
V96-0340	1.0	1.0	2.0	1.0	2.0	1.4
V97-1911	1.0	1.7	2.0	1.0	2.0	1.5
V97-2276	1.0	1.3	1.0	1.0	2.0	1.3
99VPI -17RR	1.0	1.0	1.0	1.0	2.0	1.2
99VPI -120RR	1.0	1.0	2.5	1.0	2.0	1.5
TN96-68	1.0	1.7	1.5	1.0	2.0	1.4

TABLE 24 ~ Continued

WEST						
STRAIN/ VARIETY	BIXBY OK	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	PROSPER* TX	MEAN
HUTCHESON	1.0	1.0	1.0	1.0	1.0	1.0
MANOKIN	2.0	1.0	1.7	1.0	1.0	1.4
5601T	2.0	1.0	1.0	1.0	1.0	1.3
P 9594	1.0	1.0	1.3	1.0	1.0	1.1
AG 5501	1.0	1.0	1.0	1.0	1.0	1.0
K1530	1.0	1.0	1.0	1.0	1.0	1.0
K1533	1.0	1.0	1.0	1.0	1.0	1.0
LS96-1631	1.0	1.0	1.0	1.0	1.0	1.0
LS98-3966	1.0	1.0	1.0	1.0	1.0	1.0
Md 97-6065	1.0	1.0	1.0	1.0	1.0	1.0
Md 98-5095	1.0	1.0	1.0	1.0	1.0	1.0
Md 98-5927	2.0	1.0	1.0	1.0	1.0	1.3
N98-7265	1.0	1.0	1.3	1.0	1.0	1.1
N98-7288	1.0	1.0	1.0	1.0	1.0	1.0
N98-7289	1.0	1.0	1.0	1.0	1.0	1.0
R96-209	1.0	1.0	1.0	1.0	1.0	1.0
R96-3427	1.0	1.0	1.0	1.0	1.0	1.0
R97-1634	1.0	1.0	1.0	1.0	1.0	1.0
S98-1375	1.0	1.0	1.0	1.0	1.0	1.0
S99-1117	1.0	1.0	1.0	1.0	1.0	1.0
S99-1171	1.0	1.0	1.0	1.0	1.0	1.0
TN97-134	1.0	1.0	1.3	1.0	1.0	1.1
TN97-167	1.0	1.0	1.0	1.0	1.0	1.0
TN97-271	1.0	1.0	1.0	1.0	1.0	1.0
TN98-149	1.0	1.0	1.0	1.0	1.0	1.0
V95-0016	1.0	1.0	1.0	1.0	1.0	1.0
V96-0340	1.0	1.0	1.0	1.0	1.0	1.0
V97-1911	1.0	1.0	1.0	1.0	1.0	1.0
V97-2276	2.0	1.0	1.0	1.0	1.0	1.3
99VPI -17RR	1.0	1.0	1.0	1.0	1.0	1.0
99VPI -120RR	1.0	1.0	1.0	1.0	1.0	1.0
TN96-68	1.0	1.0	1.0	1.0	1.0	1.0

\*Data not included in mean

**TABLE 25 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2002**

STRAIN/ VARIETY	EAST			MEAN
	ORANGE* VA	PLYMOUTH NC	WARSAW VA	
HUTCHESON	1.5	4.0	2.6	3.3
MANOKIN	1.5	4.0	2.7	3.3
5601T	1.5	3.0	3.0	3.0
P 9594	1.8	3.0	2.4	2.7
AG 5501	1.5	3.0	2.9	2.9
K1530	1.5	4.0	2.5	3.3
K1533	1.7	3.5	2.6	3.1
LS96-1631	1.7	5.0	3.1	4.0
LS98-3966	1.5	2.5	3.1	2.8
Md 97-6065	1.5	2.5	1.9	2.2
Md 98-5095	1.7	3.5	2.6	3.1
Md 98-5927	1.8	2.5	3.5	3.0
N98-7265	1.3	4.0	2.8	3.4
N98-7288	1.7	3.0	2.4	2.7
N98-7289	1.7	4.0	2.5	3.3
R96-209	1.7	3.5	2.0	2.8
R96-3427	1.5	4.0	3.4	3.7
R97-1634	1.3	2.5	2.3	2.4
S98-1375	1.5	4.0	3.1	3.6
S99-1117	1.8	3.0	3.0	3.0
S99-1171	1.5	2.5	2.2	2.4
TN97-134	1.8	4.0	2.1	3.1
TN97-167	1.8	2.5	2.6	2.6
TN97-271	1.5	2.5	2.4	2.5
TN98-149	1.5	2.5	2.4	2.5
V95-0016	1.7	3.0	2.5	2.8
V96-0340	1.5	2.5	3.0	2.8
V97-1911	1.5	3.5	2.7	3.1
V97-2276	1.7	3.0	2.7	2.9
99VPI -17RR	1.5	3.0	2.4	2.7
99VPI -120RR	1.8	3.0	2.3	2.7
TN96-68	1.8	2.5	2.6	2.5

\*Data not included in mean

TABLE 25 ~ Continued

STRAIN/ VARIETY	SOUTH				MEAN
	KNOXVILLE TN	PRINCETON KY	SUFFOLK VA	ULLIN IL	
HUTCHESON	1.0	2.0	3.0	2.0	2.0
MANOKIN	2.0	3.0	3.0	1.3	2.3
5601T	1.5	1.0	2.3	1.3	1.5
P 9594	1.0	2.0	3.0	2.7	2.2
AG 5501	1.5	1.0	3.3	1.7	1.9
K1530	2.0	3.0	2.7	1.0	2.2
K1533	1.5	3.0	2.3	1.0	2.0
LS96-1631	2.0	3.0	3.0	1.3	2.3
LS98-3966	2.0	2.0	3.3	1.0	2.1
Md 97-6065	1.5	1.0	3.3	1.0	1.7
Md 98-5095	1.5	2.0	2.0	1.0	1.6
Md 98-5927	2.0	2.0	2.7	2.0	2.2
N98-7265	1.0	1.0	3.0	2.0	1.8
N98-7288	1.0	1.0	3.3	1.3	1.7
N98-7289	1.0	1.0	3.0	2.0	1.8
R96-209	1.0	1.0	3.0	1.3	1.6
R96-3427	1.0	1.0	2.7	2.0	1.7
R97-1634	1.5	1.0	3.3	2.7	2.1
S98-1375	1.5	2.0	3.0	1.3	2.0
S99-1117	1.5	2.0	2.7	1.7	2.0
S99-1171	1.5	1.0	2.7	2.0	1.8
TN97-134	1.5	1.0	3.3	1.7	1.9
TN97-167	1.0	1.0	2.0	1.7	1.4
TN97-271	1.0	1.0	3.3	2.0	1.8
TN98-149	1.5	2.0	3.3	1.0	2.0
V95-0016	1.0	1.0	2.3	1.0	1.3
V96-0340	1.5	1.0	3.0	1.3	1.7
V97-1911	1.5	3.0	3.3	2.0	2.5
V97-2276	1.5	1.0	2.3	1.0	1.5
99VPI -17RR	1.0	1.0	3.7	1.7	1.8
99VPI -120RR	1.0	1.0	3.0	2.0	1.8
TN96-68	2.5	3.0	3.7	1.7	2.7

TABLE 25 ~ Continued

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
HUTCHESON	2.0	2.0	2.0	2.0
MANOKIN	2.0	2.0	2.0	2.0
5601T	2.0	1.0	3.0	2.0
P 9594	2.0	2.0	3.0	2.3
AG 5501	2.0	2.0	2.0	2.0
K1530	2.0	2.0	3.0	2.3
K1533	2.0	2.0	2.0	2.0
LS96-1631	2.0	2.0	3.0	2.3
LS98-3966	2.0	2.0	3.0	2.3
Md 97-6065	2.0	2.0	2.0	2.0
Md 98-5095	2.0	2.0	2.0	2.0
Md 98-5927	2.0	2.0	3.0	2.3
N98-7265	2.0	2.0	2.0	2.0
N98-7288	2.0	2.0	3.0	2.3
N98-7289	2.0	2.0	4.0	2.7
R96-209	2.0	2.0	3.0	2.3
R96-3427	2.0	2.0	3.0	2.3
R97-1634	2.0	2.0	2.0	2.0
S98-1375	2.0	2.0	2.0	2.0
S99-1117	2.0	2.0	2.0	2.0
S99-1171	2.0	2.0	3.0	2.3
TN97-134	2.0	2.0	2.0	2.0
TN97-167	2.0	2.0	2.0	2.0
TN97-271	2.0	2.0	2.0	2.0
TN98-149	2.0	2.0	3.0	2.3
V95-0016	2.0	2.0	3.0	2.3
V96-0340	2.0	2.0	3.0	2.3
V97-1911	2.0	2.0	2.0	2.0
V97-2276	2.0	2.0	2.0	2.0
99VPI -17RR	2.0	2.0	2.0	2.0
99VPI -120RR	2.0	2.0	3.0	2.3
TN96-68	2.0	2.0	3.0	2.3

TABLE 25 ~ Continued

STRAIN/ VARIETY	WEST			MEAN
	MCCUNE KS	PITTSBURG KS	PROSPER* TX	
HUTCHESON	2.0	2.0	3.0	2.0
MANOKIN	2.0	2.0	3.5	2.0
5601T	2.0	2.0	4.0	2.0
P 9594	2.0	2.0	4.0	2.0
AG 5501	2.0	2.0	4.0	2.0
K1530	2.0	2.0	3.5	2.0
K1533	2.0	1.0	3.5	1.5
LS96-1631	2.0	2.0	3.0	2.0
LS98-3966	2.0	2.0	4.0	2.0
Md 97-6065	2.0	2.0	3.0	2.0
Md 98-5095	1.0	2.0	4.0	1.5
Md 98-5927	2.0	2.0	4.5	2.0
N98-7265	2.0	2.0	3.5	2.0
N98-7288	1.0	2.0	3.5	1.5
N98-7289	1.0	2.0	5.0	1.5
R96-209	1.0	2.0	3.5	1.5
R96-3427	2.0	2.0	4.0	2.0
R97-1634	2.0	2.0	4.0	2.0
S98-1375	1.0	2.0	3.5	1.5
S99-1117	1.0	1.0	4.0	1.0
S99-1171	1.0	3.0	4.0	2.0
TN97-134	1.0	2.0	5.0	1.5
TN97-167	2.0	2.0	3.0	2.0
TN97-271	2.0	2.0	3.0	2.0
TN98-149	1.0	2.0	2.5	1.5
V95-0016	2.0	2.0	3.0	2.0
V96-0340	1.0	2.0	4.0	1.5
V97-1911	2.0	2.0	5.0	2.0
V97-2276	2.0	2.0	2.5	2.0
99VPI -17RR	1.0	2.0	2.0	1.5
99VPI -120RR	2.0	2.0	3.0	2.0
TN96-68	2.0	2.0	3.5	2.0

\*Data not included in mean

## PRELIMINARY GROUP V

2002

Preliminary Group V nurseries were planted at 10 locations. Data were obtained from 7 of these locations. The parentage for each strain is reported in Table 26. Table 27 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 28 - 34.



**TABLE 26 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2002**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 x Essex	
2. MANOKIN	L70-L3048 x D74-7824	
3. 5601T	Hutcheson x TN89-39	
4. DT 97-6308	Hutcheson x A5979	F5
5. DT 99-10909	SPRY x A5547	F5
6. DT 99-16864	S59-60 x BOLIVAR	F5
7. DT 99-17483	UARK5798 x BOLIVAR	F5
8. DT 99-17574	UARK5798 x BOLIVAR	F5
9. K1543RR	K1276///K1276//RESNIK2/40-3-2	P5
10. K1550RR	K1276///K1276//RESNIK2/40-3-2	P5
11. K1551RR	K1276///K1276//RESNIK2/40-3-2	P5
12. K1578	BP, DELSOY 5500, P9393, NK S42-60	
13. K1579	BP, DELSOY 5500, K1307, K1276	
14. KY98-2028	(CF492 x Calhoun) x KY94-3126	
15. KY98-2047	(CF492 x Calhoun) x KY94-3126	
16. KY98-2811	CF461 x FFR493	
17. KY98-2930	Macon x KY94-3121	
18. KY98-2932	Macon x KY94-3121	
19. LS99-1615	LS79-238 x KY88-4080	
20. LS99-1647	LS90-1920 x NKs52-25	
21. LS99-1802	LS90-1920 x NKs52-25	
22. LS99-3730	A5560 x KY88-4080	
23. Md 99-0687-3RR	Wicomico x (Manokin x Monsanto RR)	F5
24. Md 99-5618	A92-726034 x Md 92-5769	F5
25. Md 99-6226	V91-2935 x Md 92-5769	F5
26. N98-7089	HOLLDAY x PI 471938	F5
27. N98-7168	HOLLDAY x PI 471938	F5
28. N99-8118	N90-7199 x Graham	F5
29. N99-8141	N90-7199 x Graham	F5
30. R97-1650	P 9592 x Holladay	
31. R97-818	Hutcheson x A5885	
32. R98-1821	Hartz x 5545 x KS 4895	
33. R98-2625F	KY 88-4080 x Hartz 4994	
34. R99-1858	Md 92-5769 x P9641	
35. S00-9705RR	Delsoy 5500(4) X RR	
36. S00-9929-27	K1391 x Anand	
37. S00-9985-03	Hy 574 x Anand	
38. S00-9987-49	Hy 574 x Anand	
39. S99-2447-2RR	Delsoy 5500(4) x RR	
40. S99-2461RR	Delsoy 5500(4) x RR	
41. TN00-199	RS Yield V	
42. TN99-191	TN92-64 x TN93-55	
43. TN99-47	D88-5547 x R89-332	
44. TN99-53	K1276 x N90-516	
45. V98-1630	Holladay x P9461	
46. V98-2446	V88-466 x Holladay	
47. V98-2624	V88-466 x KY85-11020	
48. V98-2711	V88-466 x P9461	
49. V98-2726	V88-466 x P9461	
50. TN96-68	N85-578 x MANOKIN	

TABLE 27 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2002 - MEAN OF 7 LOCATIONS

STRAIN/ VARIETY	SEED		AVG.	MAT.	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----		STEM	SCN	SCN	SCN	FL	PUB.	POD
	YIELD	RANK	RANK	INDEX					PROTEIN	OIL	CANKER	2	3	14	COLOR	COLOR	COLOR
HUTCHESON	45.0	26	22	10/08	1.3	27	1.8	14.1	40.3	19.6	R	5.0	3.3	4.8	W	G	T
MANOKIN	44.5	29	22	8-	1.7	29	2.3	13.1	40.9	21.0+	R	4.2	1.3	4.8	W	T	T
5601T	49.8+	5	17	1+	1.5	30	1.9	13.3	41.8+	18.9	R	5.0	3.7	4.1	W	G	T
DT 97-6308	45.9	23	22	3-	1.2	28	2.1	13.5	40.6	19.4	R	3.7	1.1	3.2	W	G	T
DT 99-10909	43.2	34	24	5-	2.0	35	2.0	14.8	41.3	20.5+	R	3.3	1.0	2.9	P	G	T
DT 99-16864	50.2+	2	17	2+	1.7	30	2.2	15.1	41.3	19.2	R	5.0	1.3	4.5	P	G	T
DT 99-17483	47.7	12	19	0	1.7	31	1.6	14.2	40.9	20.4	R	4.7	3.3	5.0	W	T	T
DT 99-17574	47.2	17	21	0	1.7	33	2.2	15.5	43.0+	20.3	R	5.0	3.3	4.2	W	T	T
K1543RR	42.1	37	25	5-	1.3	32	2.1	13.8	40.8	20.7+	MS	4.9	3.1	4.7	P	T	T
K1550RR	43.1	35	25	2-	1.2	27	2.3	12.7	40.1	21.3+	MR	4.6	4.1	3.9	P	T	T
K1551RR	40.1-	46	28	2-	1.2	29	1.9	11.2	38.8-	20.5+	MR	5.0	3.3	4.9	P	T	T
K1578	41.4	42	26	7-	1.3	29	1.9	13.6	41.1	19.8	R	3.9	1.4	3.6	P	T	T
K1579	41.9	39	26	6-	1.3	24	2.1	13.5	40.1	21.0+	R	5.0	1.1	5.0	W	T	T
KY98-2028	41.1	43	26	6-	1.7	30	2.4	15.0	40.0	20.3	R	5.0	4.3	5.0	P	G	T
KY98-2047	41.0	44	27	7-	1.3	24	2.2	14.0	40.6	19.6	R	4.9	3.3	4.9	P	G	T
KY98-2811	39.9-	47	28	7-	2.2	37	3.1	16.1	38.4-	21.8+	R	5.0	3.4	3.9	P	G	BR
KY98-2930	39.5-	49	27	8-	1.5	36	2.7	14.3	41.4	19.8	R	5.0	2.7	3.9	P	G	T
KY98-2932	39.0-	50	29	8-	1.8	27	2.9	16.6	40.4	19.7	MR	5.0	3.1	4.6	P	G	BR
LS99-1615	43.4	33	25	6-	1.4	27	2.4	14.3	40.1	20.4	R	4.5	1.3	4.6	S	G	T
LS99-1647	40.6	45	27	7-	1.4	31	2.1	13.5	42.7+	20.2	R	5.0	1.0	3.1	P	T	T
LS99-1802	41.6	40	26	4-	1.6	33	1.9	13.5	41.4	20.4	R	4.7	1.0	4.5	P	T	BR
LS99-3730	41.4	42	27	6-	1.5	30	2.3	13.8	41.6+	19.7	R	4.6	1.0	2.7	P	G	T
Md 99-0687-3RR	42.0	38	26	7-	1.4	28	2.2	14.3	41.8+	20.1	R	3.9	1.7	5.0	P	T	T
Md 99-5618	39.7-	48	27	5-	1.5	33	2.4	14.9	40.0	20.7+	R	4.0	1.0	3.8	W	G	T
Md 99-6226	49.6+	7	18	4-	1.3	24	2.3	15.0	40.3	19.6	R	4.8	2.9	4.4	P	G	T
N98-7089	42.5	36	24	3+	1.5	28	2.0	14.5	40.2	19.4	MS	5.0	3.7	4.8	P	G	T
N98-7168	43.8	32	23	5+	1.5	28	1.9	15.7	39.8	19.6	MS	4.3	3.4	5.0	P	G	T
N99-8118	46.7	19	21	1-	2.0	27	2.2	12.9	38.7-	19.9	MS	4.3	2.9	4.5	P	G	BR
N99-8141	45.2	25	21	0	2.1	30	2.2	13.9	40.4	19.7	MS	5.0	3.7	3.3	P	G	BR
R97-1650	49.6+	7	18	2+	1.6	32	2.1	15.2	40.9	20.1	R	5.0	3.6	4.5	S	G	T
R97-818	44.5	29	24	2+	1.5	30	2.4	15.3	41.7+	19.5	R	4.0	1.2	3.5	W	T	T
R98-1821	52.6+	1	17	3-	1.3	27	1.8	12.5	42.8+	19.2	R	4.3	3.1	4.2	P	G	T
R98-2625F	44.7	27	23	2-	2.1	36	1.8	12.8	41.2	19.7	R	5.0	3.7	4.9	P	G	T
R99-1858	47.5	14	20	4+	1.7	29	1.9	13.8	41.2	20.4	MR	4.4	3.1	4.4	P	G	T
S00-9705RR	46.8	18	20	0	1.4	30	2.1	14.5	40.8	20.2	R	4.6	1.0	4.1	W	T	T
S00-9929-27	47.5	14	20	1-	1.6	31	2.0	13.8	40.7	19.9	R	1.0	1.6	1.0	W	T	T
S00-9985-03	49.9+	4	18	4-	1.7	32	2.1	14.6	39.8	20.5+	MR	1.0	2.6	1.3	P	T	T
S00-9987-49	46.5	20	22	2-	1.6	31	1.9	15.4	41.4	19.4	R	2.2	1.4	1.0	P	T	T
S99-2447-2RR	47.4	16	20	1+	1.4	30	1.6	14.8	41.6+	20.3	R	4.5	1.0	3.5	W	T	T
S99-2461RR	43.8	32	25	0	1.5	29	1.9	13.8	40.3	20.6+	R	4.2	1.0	2.6	W	T	T
TN00-199	46.3	21	21	1-	1.4	31	1.8	14.4	40.5	19.6	R	4.6	2.1	4.7	W	G	T
TN99-191	47.9	11	20	3+	1.5	29	2.7	16.5	40.5	19.6	MR	3.5	2.7	4.3	P	G	T
TN99-47	46.0	22	21	5-	1.7	33	2.1	13.1	40.3	19.7	R	4.9	2.3	4.9	P	T	T
TN99-53	44.3	30	23	3-	1.2	25	2.0	14.4	40.2	20.8+	R	4.3	2.1	4.7	W	G	T
V98-1630	45.3	24	22	0	1.2	23	2.4	14.1	40.0	19.8	R	5.0	1.6	5.0	P	G	T
V98-2446	48.1	10	20	1-	1.3	27	1.9	15.1	41.0	20.1	R	4.6	1.6	5.0	P	T	T
V98-2624	48.8	9	20	4-	1.6	30	2.4	15.0	41.4	19.5	R	5.0	2.3	4.9	W	T	T
V98-2711	49.6+	7	18	4-	1.6	27	2.3	13.9	41.3	19.3	R	5.0	1.6	4.9	W	T	T
V98-2726	47.5	14	22	4-	1.6	24	2.2	13.8	40.5	19.8	R	5.0	1.6	4.9	W	T	T
TN96-68	50.1+	3	18	5-	1.5	26	2.0	14.9	40.2	21.2+	R	5.0	1.1	4.8	W	T	T
OVERALL MEAN	45.1								40.7	20.1							
LSD (.05)	4.5								1.2	0.8							
C. V.	10%								3%	4%							

**TABLE 28 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2002**

STRAIN/ VARIETY	BIXBY OK	JACKSON* TN	KEISER AR	MCCUNE KS	PINE TREE* AR	PORTAGE- VILLE MO(A)	QUEENS- TOWN MD	STONE- VILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	24.3	39.6	60.8	31.1	28.4	49.9	46.3	66.4	44.9	36.7	45.0
MANOKIN	19.1	30.6	61.8	32.4	33.3	50.6	45.6	59.5	54.3	32.9	44.5
5601T	35.7+	31.1	66.8	34.6+	33.3	56.5	50.4	64.7	55.4+	34.2	49.8+
DT 97-6308	21.8	29.9	69.8	32.1	42.1	48.6	45.7	66.8	49.6	32.7	45.9
DT 99-10909	32.2+	33.8	68.9	28.9	36.1	44.3	39.3	57.9	45.6	28.7-	43.2
DT 99-16864	35.9+	30.2	67.4	33.4	33.2	49.2	50.4	68.6	58.3+	38.5	50.2+
DT 99-17483	37.6+	33.1	67.9	29.7	12.0-	47.6	46.4	67.7	49.2	35.7	47.7
DT 99-17574	30.2+	33.5	67.2	31.6	36.6	52.7	40.9	71.3	50.0	33.4	47.2
K1543RR	25.8	41.0	57.6	29.8	31.4	49.2	41.9	60.1	39.8	32.3	42.1
K1550RR	31.3+	34.3	67.1	29.5	27.8	43.8	45.3	59.5	42.0	26.7-	43.1
K1551RR	25.6	22.7-	58.5	26.2-	30.3	43.3	36.5-	57.6	40.5	32.3	40.1-
K1578	21.5	28.1	61.0	32.3	29.4	42.7	42.2	62.6	40.2	28.8-	41.4
K1579	27.9	41.4	70.8	25.9-	34.2	39.6-	44.0	53.1-	46.3	27.2-	41.9
KY98-2028	26.8	34.5	60.7	29.9	35.1	42.2	41.8	52.3-	47.1	28.3-	41.1
KY98-2047	22.8	26.2-	62.3	27.2-	30.6	45.6	43.7	57.7	40.9	28.1-	41.0
KY98-2811	24.3	18.5-	63.6	24.1-	25.8	43.4	47.5	47.9-	42.4	25.7-	39.9-
KY98-2930	6.0-	35.5	65.3	27.2-	23.4	58.4	36.8-	50.2-	46.3	26.1-	39.5-
KY98-2932	25.6	20.2-	68.1	26.4-	24.8	46.6	43.6	40.0-	41.3	20.4-	39.0-
LS99-1615	21.8	42.0	64.2	27.8-	26.6	61.3+	44.6	46.9-	55.0+	26.1-	43.4
LS99-1647	26.1	30.6	64.4	28.8	31.3	45.0	35.0-	58.1	44.2	23.3-	40.6
LS99-1802	24.1	26.0-	61.5	28.6	30.8	44.3	43.1	59.9	47.1	24.3-	41.6
LS99-3730	26.3	38.9	66.3	29.8	22.9	42.9	37.2-	58.2	42.7	27.7-	41.4
Md 99-0687-3RR	20.2	37.7	56.8	31.1	26.2	51.2	40.4	60.3	53.2	22.5-	42.0
Md 99-5618	11.6-	31.4	61.3	29.5	27.2	54.6	35.9-	49.4-	49.6	25.8-	39.7-
Md 99-6226	38.9+	33.0	59.0	35.0+	28.6	58.3	42.4	72.3	60.1+	30.7	49.6+
N98-7089	27.7	21.6-	64.3	28.5-	26.1	41.4	48.5	47.0-	49.2	33.5	42.5
N98-7168	31.1+	39.3	61.3	25.8-	36.9	49.8	45.8	52.6-	48.5	35.4	43.8
N99-8118	28.0	31.8	61.6	33.7+	39.2	52.4	42.0	65.7	55.0+	35.1	46.7
N99-8141	31.5+	27.6	56.1	30.2	24.2	47.5	45.0	60.2	53.9	36.9	45.2
R97-1650	32.5+	40.9	65.4	33.3	22.9	48.7	50.9	67.9	59.7+	38.7	49.6+
R97-818	26.1	26.5-	67.6	28.1-	42.1	48.9	35.4-	62.0	57.2+	30.7	44.5
R98-1821	27.9	40.2	82.9+	34.0+	36.9	61.0+	46.1	74.8	57.6+	36.3	52.6+
R98-2625F	28.2	26.1-	67.6	30.4	42.8	46.4	46.5	64.9	39.8	34.2	44.7
R99-1858	25.9	39.9	67.5	31.6	34.4	53.2	48.3	66.2	52.5	34.9	47.5
S00-9705RR	34.3+	33.3	63.9	29.2	35.2	49.0	45.2	68.0	47.8	36.7	46.8
S00-9929-27	33.0+	40.6	68.0	27.3-	34.3	52.5	45.2	65.8	55.0+	33.1	47.5
S00-9985-03	37.3+	17.0-	71.9	25.0-	33.9	58.1	43.5	68.0	55.4+	40.5	49.9+
S00-9987-49	21.9	28.7	69.4	28.0-	41.5	50.3	49.6	66.6	54.7	31.4	46.5
S99-2447-2RR	30.7+	39.6	67.0	30.7	26.8	54.5	42.7	69.6	49.2	34.8	47.4
S99-2461RR	26.8	38.5	69.7	27.9-	37.9	47.2	42.4	66.5	43.8	25.9-	43.8
TN00-199	30.0	41.1	71.0	30.3	22.7	47.7	46.7	64.1	47.8	32.8	46.3
TN99-191	32.4+	40.4	72.5	30.4	31.7	55.5	37.3-	63.6	57.6+	33.9	47.9
TN99-47	25.0	33.4	69.1	33.8+	34.3	51.8	38.7	58.9	54.3	36.6	46.0
TN99-53	19.2	40.8	71.5	31.8	29.6	46.7	38.0	60.4	54.3	32.6	44.3
V98-1630	27.7	30.9	71.8	32.9	31.5	46.2	40.2	56.4-	53.9	32.9	45.3
V98-2446	26.8	41.3	70.9	33.5	28.8	52.0	46.4	65.7	53.2	36.0	48.1
V98-2624	26.5	43.6	71.6	29.3	24.6	63.2+	44.9	64.5	56.8+	33.5	48.8
V98-2711	34.1+	34.7	71.0	31.6	33.2	57.1	44.4	67.9	54.3	36.5	49.6+
V98-2726	29.1	47.2	81.0+	27.2-	30.0	54.8	45.2	66.4	49.6	26.5-	47.5
TN96-68	37.7+	39.5	63.9	32.6	35.4	63.3+	43.1	70.9	56.1+	33.2	50.1+
L. S. D. (0.05)	5.8	13.0	13.3	2.5	15.1	10.1	8.8	9.7	10.1	7.9	4.5
C. V. (%)	13.0	19.1	12.4	4.1	29.7	10.0	10.1	7.9	10.0	12.4	10.1

\*Data not included in mean

**TABLE 29 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2002**

STRAIN/ VARIETY	BIXBY OK	MCCUNE KS	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	20.1	19.6	20.2	19.2	21.4	18.4	18.4	19.6
MANOKIN	20.6	21.1	21.0	20.8	23.3	21.1	19.0	21.0
5601T	18.5	20.1	19.3	18.4	18.7	19.5	18.0	18.9
DT 97-6308	17.9	20.8	19.9	18.9	19.7	20.1	18.4	19.4
DT 99-10909	20.2	20.6	21.6	19.8	22.1	20.5	18.6	20.5
DT 99-16864	18.9	18.4	18.9	18.6	20.5	20.3	18.7	19.2
DT 99-17483	21.2	20.5	21.2	19.2	20.6	20.9	19.0	20.4
DT 99-17574	20.2	21.4	21.1	19.4	19.9	20.5	19.7	20.3
K1543RR	21.5	20.5	21.1	20.5	22.1	20.4	18.6	20.7
K1550RR	21.9	20.7	21.6	20.3	23.7	21.6	19.4	21.3
K1551RR	21.3	20.6	20.4	20.8	21.7	20.1	18.8	20.5
K1578	19.7	20.7	21.0	18.4	21.0	19.9	18.1	19.8
K1579	21.8	21.4	21.3	20.0	22.5	20.9	19.0	21.0
KY98-2028	20.2	22.0	21.5	18.8	22.1	19.3	18.1	20.3
KY98-2047	18.5	20.1	20.9	18.5	21.0	19.4	19.0	19.6
KY98-2811	22.0	22.4	21.8	20.8	24.4	22.2	19.2	21.8
KY98-2930	17.5	20.0	20.7	20.1	22.2	18.9	19.1	19.8
KY98-2932	20.1	18.3	19.7	19.7	23.0	19.9	17.5	19.7
LS99-1615	20.6	20.9	20.1	21.2	20.1	21.3	18.5	20.4
LS99-1647	20.0	20.7	20.6	19.5	21.8	20.3	18.8	20.2
LS99-1802	20.1	21.2	21.3	20.3	20.7	20.6	18.8	20.4
LS99-3730	19.1	21.3	20.0	19.3	20.5	19.5	18.0	19.7
Md 99-0687-3RR	19.2	20.9	20.3	20.5	20.9	20.7	18.3	20.1
Md 99-5618	20.9	20.4	21.2	21.1	21.6	21.6	18.4	20.7
Md 99-6226	19.9	20.6	20.1	19.3	18.9	20.3	18.4	19.6
N98-7089	18.8	19.1	19.1	19.0	21.3	19.9	18.5	19.4
N98-7168	18.9	20.0	19.6	18.0	21.4	19.7	19.4	19.6
N99-8118	19.1	21.2	18.8	19.9	20.7	20.7	18.7	19.9
N99-8141	19.5	18.6	19.7	19.8	21.8	19.1	19.1	19.7
R97-1650	21.5	19.4	18.8	19.9	21.7	20.2	19.1	20.1
R97-818	20.4	18.9	19.2	19.3	20.1	20.0	18.7	19.5
R98-1821	19.6	19.4	19.0	18.3	19.7	19.3	19.0	19.2
R98-2625F	19.3	19.8	19.9	18.7	21.8	19.7	18.9	19.7
R99-1858	20.9	20.4	20.6	19.4	22.6	20.3	18.8	20.4
S00-9705RR	21.5	20.4	19.8	19.4	20.4	20.7	19.2	20.2
S00-9929-27	20.2	19.9	19.0	19.7	22.3	19.7	18.8	19.9
S00-9985-03	20.2	19.8	20.9	19.9	21.4	20.8	20.2	20.5
S00-9987-49	19.6	19.9	19.6	19.3	19.9	18.7	19.1	19.4
S99-2447-2RR	20.7	19.9	19.9	20.0	20.9	20.9	20.0	20.3
S99-2461RR	21.0	20.5	20.3	20.5	21.2	21.0	19.6	20.6
TN00-199	19.8	21.0	20.1	18.6	21.0	19.2	17.8	19.6
TN99-191	20.3	20.5	19.3	18.8	21.5	18.9	18.0	19.6
TN99-47	19.1	21.2	20.4	19.3	19.7	19.8	18.7	19.7
TN99-53	20.1	21.8	20.5	19.7	23.7	21.4	18.1	20.8
V98-1630	18.8	21.1	19.9	19.3	21.7	20.2	17.7	19.8
V98-2446	19.4	19.3	20.7	20.3	21.3	20.4	19.1	20.1
V98-2624	19.1	20.1	18.9	19.9	20.2	20.4	17.6	19.5
V98-2711	19.5	19.9	19.3	19.0	21.0	18.8	17.6	19.3
V98-2726	19.7	20.0	19.5	21.0	20.8	19.3	18.5	19.8
TN96-68	21.6	22.6	21.8	20.0	22.1	20.9	19.1	21.2

TABLE 30 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2002

STRAIN/ VARIETY	BIXBY OK	MCCUNE KS	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	39.3	39.6	39.6	41.6	38.5	40.5	42.9	40.3
MANOKIN	41.9	40.0	40.1	39.6	40.9	40.9	42.9	40.9
5601T	41.8	40.8	41.4	41.3	41.4	41.6	44.2	41.8
DT 97-6308	42.2	37.6	39.7	42.5	39.3	40.1	42.9	40.6
DT 99-10909	40.0	39.8	40.5	42.6	41.0	41.0	44.3	41.3
DT 99-16864	40.5	40.8	41.5	43.2	41.2	39.8	41.9	41.3
DT 99-17483	40.4	38.6	40.8	42.8	38.6	41.6	43.3	40.9
DT 99-17574	43.6	41.1	42.3	44.8	42.8	42.4	43.8	43.0
K1543RR	39.9	40.9	40.1	39.9	40.5	41.8	42.5	40.8
K1550RR	39.0	40.6	39.1	40.3	39.4	39.6	42.4	40.1
K1551RR	38.3	37.8	38.7	39.4	37.8	38.8	40.7	38.8
K1578	40.4	38.8	40.2	42.4	40.6	41.0	44.5	41.1
K1579	40.1	38.3	39.5	40.7	40.1	39.1	43.0	40.1
KY98-2028	39.7	37.0	39.7	42.6	39.0	40.0	42.3	40.0
KY98-2047	41.7	37.8	40.4	40.4	39.8	42.0	42.1	40.6
KY98-2811	38.0	37.2	38.1	37.1	38.2	38.9	41.6	38.4
KY98-2930	43.1	38.0	41.1	41.0	41.7	41.0	43.7	41.4
KY98-2932	38.2	43.4	39.0	38.5	41.3	40.0	42.2	40.4
LS99-1615	40.4	37.2	40.2	40.0	40.5	39.8	42.5	40.1
LS99-1647	42.8	42.0	42.4	42.9	42.0	41.8	44.7	42.7
LS99-1802	40.7	40.1	40.9	43.1	40.6	40.6	44.1	41.4
LS99-3730	41.5	38.3	40.9	42.0	41.8	42.1	44.4	41.6
Md 99-0687-3RR	42.2	39.2	41.4	41.1	42.3	42.0	44.4	41.8
Md 99-5618	38.4	37.7	39.2	40.6	38.7	40.7	44.4	40.0
Md 99-6226	40.3	38.8	39.5	41.8	39.1	40.1	42.6	40.3
N98-7089	40.3	39.5	40.5	40.5	38.1	41.3	41.2	40.2
N98-7168	40.8	37.0	39.2	42.4	37.4	40.7	41.3	39.8
N99-8118	39.4	35.5	39.5	40.2	36.4	38.7	41.2	38.7
N99-8141	41.2	39.6	40.0	41.0	38.9	40.7	41.6	40.4
R97-1650	39.7	40.7	40.8	42.0	39.8	39.9	43.7	40.9
R97-818	40.7	42.5	41.6	42.5	40.6	40.2	43.8	41.7
R98-1821	42.4	41.5	43.1	42.3	42.3	43.4	44.8	42.8
R98-2625F	41.4	39.1	41.1	40.9	41.3	42.1	42.4	41.2
R99-1858	39.9	48.2	39.7	41.0	37.2	40.2	42.5	41.2
S00-9705RR	39.4	39.4	41.0	41.1	42.4	39.2	43.3	40.8
S00-9929-27	39.4	39.1	41.8	40.5	40.6	40.5	42.8	40.7
S00-9985-03	38.9	40.3	39.0	41.3	39.2	39.5	40.3	39.8
S00-9987-49	41.1	40.6	40.9	41.5	41.2	42.1	42.6	41.4
S99-2447-2RR	42.5	40.9	40.9	42.0	41.3	40.3	43.0	41.6
S99-2461RR	40.1	39.1	39.8	42.2	39.2	39.4	42.4	40.3
TN00-199	41.0	37.6	40.7	41.3	39.1	40.6	43.5	40.5
TN99-191	41.1	40.3	40.1	42.1	38.5	39.5	42.1	40.5
TN99-47	40.8	37.8	40.4	40.9	40.0	40.1	42.2	40.3
TN99-53	41.2	38.5	40.1	42.0	38.5	38.9	41.9	40.2
V98-1630	40.0	38.2	40.0	39.3	41.0	40.0	41.4	40.0
V98-2446	41.2	41.3	40.2	40.1	41.0	40.9	42.6	41.0
V98-2624	42.5	41.7	39.6	40.4	41.2	40.9	43.7	41.4
V98-2711	41.9	41.4	41.6	40.5	41.1	41.2	41.7	41.3
V98-2726	40.3	38.4	41.3	39.0	41.4	41.9	41.2	40.5
TN96-68	41.0	37.2	41.0	39.6	40.7	39.8	41.9	40.2

**TABLE 31 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2002**

STRAIN/ VARIETY	BIXBY OK	JACKSON* TN	MCCUNE KS	PINE TREE* AR	PORTAGEVILLE MO(A)	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	13.1	14.0	14.0	12.9	12.6	11.9	18.7	14.1
MANOKIN	12.4	12.7	14.2	14.2	11.6	10.8	16.6	13.1
5601T	12.1	13.2	13.4	11.5	12.1	12.5	16.6	13.3
DT 97-6308	13.5	12.4	12.8	12.3	12.3	11.6	17.2	13.5
DT 99-10909	15.9	14.1	13.6	13.5	14.2	13.5	16.6	14.8
DT 99-16864	16.4	12.1	13.6	15.6	12.5	12.6	20.3	15.1
DT 99-17483	14.2	13.3	13.0	22.8	12.1	12.4	19.3	14.2
DT 99-17574	14.4	14.2	15.3	10.9	14.5	13.8	19.7	15.5
K1543RR	14.9	15.3	13.3	12.9	12.5	10.8	17.5	13.8
K1550RR	13.3	12.7	11.4	13.3	11.5	10.7	16.5	12.7
K1551RR	11.6	10.7	10.8	12.4	10.0	8.8	14.7	11.2
K1578	13.8	14.6	12.4	11.5	12.2	11.2	18.4	13.6
K1579	13.4	15.9	12.9	12.7	11.5	11.8	18.2	13.5
KY98-2028	15.2	16.0	13.9	13.6	14.4	12.9	18.5	15.0
KY98-2047	14.7	13.4	12.1	10.8	12.4	12.3	18.4	14.0
KY98-2811	14.1	15.7	14.5	14.3	16.4	15.9	19.6	16.1
KY98-2930	12.7	15.2	14.1	14.3	14.0	12.5	18.3	14.3
KY98-2932	13.1	15.5	17.2	14.1	16.6	14.8	21.2	16.6
LS99-1615	15.8	15.4	12.4	10.8	13.2	12.7	17.3	14.3
LS99-1647	14.8	12.5	12.2	13.4	11.7	10.8	18.0	13.5
LS99-1802	15.2	11.5	12.0	13.1	12.1	10.7	17.7	13.5
LS99-3730	15.1	13.0	13.3	12.7	11.9	11.2	17.5	13.8
Md 99-0687-3RR	13.5	14.4	14.0	14.0	13.3	12.2	18.3	14.3
Md 99-5618	15.1	16.6	13.2	15.7	14.7	12.7	19.0	14.9
Md 99-6226	15.0	14.3	13.7	13.4	14.2	13.6	18.3	15.0
N98-7089	12.9	12.4	14.0	13.6	12.5	13.7	19.2	14.5
N98-7168	16.1	14.6	14.3	15.0	13.5	14.7	19.8	15.7
N99-8118	10.3	12.7	12.8	12.7	11.6	11.9	17.7	12.9
N99-8141	15.6	13.0	12.9	13.2	12.3	12.0	16.8	13.9
R97-1650	14.4	14.7	14.5	12.5	14.4	13.5	19.0	15.2
R97-818	15.3	12.6	14.0	13.4	13.9	14.7	18.6	15.3
R98-1821	11.0	13.1	12.0	12.2	11.1	11.0	17.4	12.5
R98-2625F	13.2	11.0	12.8	11.1	10.9	9.9	17.2	12.8
R99-1858	12.6	12.4	12.7	13.1	12.6	12.3	18.6	13.8
S00-9705RR	14.2	13.2	14.4	13.4	12.1	11.8	20.2	14.5
S00-9929-27	13.7	14.0	12.8	12.9	13.1	11.6	17.9	13.8
S00-9985-03	12.6	11.6	14.5	13.6	14.1	13.2	18.5	14.6
S00-9987-49	15.3	13.6	14.5	14.8	14.1	13.4	19.7	15.4
S99-2447-2RR	15.8	13.4	13.0	13.4	12.8	13.0	19.7	14.8
S99-2461RR	15.4	13.0	12.8	12.4	11.6	11.2	18.2	13.8
TN00-199	15.3	13.8	13.3	12.5	12.9	12.4	18.0	14.4
TN99-191	16.7	15.6	14.8	12.6	15.2	16.0	20.0	16.5
TN99-47	14.1	11.9	12.2	12.5	11.4	11.1	16.6	13.1
TN99-53	15.8	12.5	14.3	12.7	12.6	12.3	16.8	14.4
V98-1630	13.6	13.1	13.1	12.4	14.6	12.8	16.3	14.1
V98-2446	12.8	14.9	15.4	15.0	14.5	13.4	19.7	15.1
V98-2624	12.9	13.5	13.3	13.1	14.8	14.5	19.4	15.0
V98-2711	14.9	14.4	13.0	14.1	13.1	11.4	17.3	13.9
V98-2726	12.4	16.0	13.1	13.5	13.5	11.1	18.7	13.8
TN96-68	13.7	13.9	13.6	12.8	15.3	14.5	17.2	14.9

\*Data not included in mean

**TABLE 32 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2002**

STRAIN/ VARIETY	BIXBY OK	JACKSON* TN	KEISER AR	MCCUNE KS	PINE*	PORTAGE-	QUEENS-	STONE-	ULLIN IL	WARSAW VA	MEAN
					TREE AR	VILLE MO(A)	TOWN MD	VILLE MS			
HUTCHESON	20	29	32	32	21	27	31	22	30	23	27
MANOKIN	17	29	37	32	24	31	34	26	29	26	29
5601T	25	28	36	34	33	34	37	20	31	27	30
DT 97-6308	28	29	35	29	24	28	29	22	26	25	28
DT 99-10909	36	25	38	40	25	36	37	24	34	33	35
DT 99-16864	26	30	35	34	22	33	32	22	35	27	30
DT 99-17483	31	33	37	32	12	34	34	22	34	26	31
DT 99-17574	24	31	44	36	34	36	33	28	36	29	33
K1543RR	28	28	46	32	26	31	34	26	31	26	32
K1550RR	23	27	33	24	23	27	27	24	33	23	27
K1551RR	28	29	35	30	22	29	32	24	31	24	29
K1578	26	26	39	29	19	30	29	26	30	23	29
K1579	24	24	32	25	22	27	26	18	22	19	24
KY98-2028	28	29	36	32	24	33	28	26	31	27	30
KY98-2047	22	25	28	26	26	27	26	18	26	22	24
KY98-2811	29	32	44	35	26	48	34	36	39	28	37
KY98-2930	31	30	46	31	32	44	32	36	40	27	36
KY98-2932	22	20	33	29	21	28	30	24	26	26	27
LS99-1615	24	28	32	28	24	28	27	20	31	25	27
LS99-1647	30	31	35	32	23	38	32	22	35	28	31
LS99-1802	30	30	40	36	33	36	34	26	32	28	33
LS99-3730	30	22	37	31	25	33	28	26	30	26	30
Md 99-0687-3RR	24	30	37	30	25	34	27	22	29	23	28
Md 99-5618	30	28	44	29	26	43	28	28	36	25	33
Md 99-6226	19	25	28	27	23	26	25	16	26	22	24
N98-7089	26	29	31	30	25	32	28	20	33	22	28
N98-7168	28	26	35	28	21	32	27	22	33	22	28
N99-8118	26	28	32	30	23	29	28	22	27	22	27
N99-8141	27	26	38	30	24	28	32	24	32	28	30
R97-1650	32	32	41	33	25	35	32	24	36	28	32
R97-818	26	31	38	32	27	36	33	24	33	21	30
R98-1821	20	25	39	29	27	29	25	26	29	24	27
R98-2625F	27	31	40	41	33	42	39	32	38	32	36
R99-1858	25	29	33	28	25	39	28	28	31	23	29
S00-9705RR	28	28	39	25	27	36	26	30	30	23	30
S00-9929-27	22	33	34	37	31	37	34	24	37	28	31
S00-9985-03	30	29	37	31	26	38	31	28	37	25	32
S00-9987-49	25	33	36	33	25	38	33	24	33	23	31
S99-2447-2RR	24	28	41	28	30	39	24	30	32	21	30
S99-2461RR	26	25	31	31	27	38	24	30	34	22	29
TN00-199	26	31	41	33	27	33	30	26	33	25	31
TN99-191	25	24	34	31	18	37	30	24	27	27	29
TN99-47	30	35	36	36	32	35	31	30	36	29	33
TN99-53	24	26	32	27	22	23	24	20	27	21	25
V98-1630	22	20	28	25	16	23	23	18	27	23	23
V98-2446	20	29	33	30	23	32	26	26	30	22	27
V98-2624	25	31	38	31	25	34	30	24	30	26	30
V98-2711	22	24	35	28	23	33	28	22	25	21	27
V98-2726	20	24	30	25	21	30	28	18	24	21	24
TN96-68	23	17	38	26	24	31	27	18	26	24	26

\*Data not included in mean

TABLE 33 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2002

STRAIN/ VARIETY	BIXBY OK	JACKSON* TN	KEISER AR	MCCUNE KS	PINE	PORTAGE-	QUEENS-	STONE-	ULLIN IL	WARSAW VA	MEAN
					TREE* AR	VILLE MO(A)	TOWN MD	VILLE MS			
HUTCHESON	1.0	1.3	1.0	1.0	1.0	1.5	1.8	2.0	1.0	1.5	1.3
MANOKIN	1.0	1.3	1.0	1.5	1.0	2.0	3.3	2.0	1.0	1.8	1.7
5601T	1.0	1.0	1.0	1.0	1.0	1.5	2.8	2.0	1.0	1.4	1.5
DT 97-6308	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	1.0	1.1	1.2
DT 99-10909	1.0	1.5	2.0	2.0	1.0	2.0	3.5	2.0	1.0	2.4	2.0
DT 99-16864	1.0	1.3	2.0	1.0	1.7	2.0	3.0	2.0	1.0	1.6	1.7
DT 99-17483	1.0	1.5	2.0	1.0	3.7	2.0	3.5	2.0	1.0	1.4	1.7
DT 99-17574	1.0	1.5	2.0	1.0	2.0	2.0	3.0	2.0	1.0	1.5	1.7
K1543RR	1.0	1.0	1.0	1.0	1.0	1.5	2.3	2.0	1.0	1.0	1.3
K1550RR	1.0	1.0	1.0	1.0	1.0	1.0	1.3	2.0	1.0	1.0	1.2
K1551RR	1.0	1.0	1.0	1.0	1.0	1.0	1.8	2.0	1.0	1.0	1.2
K1578	1.0	1.0	1.0	1.0	1.0	1.5	1.8	2.0	1.0	1.1	1.3
K1579	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0	1.0	1.1	1.3
KY98-2028	1.0	1.0	2.0	1.0	1.0	2.0	2.5	2.0	1.0	2.0	1.7
KY98-2047	1.0	1.0	1.0	1.0	1.0	1.0	1.8	2.0	1.0	1.4	1.3
KY98-2811	1.0	1.0	4.0	1.0	2.4	3.5	3.0	3.0	1.0	1.2	2.2
KY98-2930	1.0	1.0	1.0	1.0	2.4	1.5	2.0	3.0	1.0	1.2	1.5
KY98-2932	1.0	1.0	2.0	1.0	1.0	2.0	3.3	2.0	1.0	2.5	1.8
LS99-1615	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	1.2	1.4
LS99-1647	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	1.4	1.4
LS99-1802	1.0	1.3	1.0	1.0	1.0	2.5	2.8	2.0	1.0	1.2	1.6
LS99-3730	1.0	1.0	1.0	1.0	1.0	2.0	2.3	2.0	1.0	1.4	1.5
Md 99-0687-3RR	1.0	1.0	1.0	1.0	1.0	2.0	2.3	2.0	1.0	1.0	1.4
Md 99-5618	1.0	1.0	1.0	1.0	1.0	2.5	1.5	3.0	1.0	1.1	1.5
Md 99-6226	1.0	1.0	1.0	1.0	1.0	2.0	1.5	2.0	1.0	1.0	1.3
N98-7089	1.0	1.0	1.0	1.0	1.0	2.5	2.3	2.0	1.0	1.3	1.5
N98-7168	1.0	1.3	2.0	1.0	1.0	2.5	1.8	2.0	1.0	1.1	1.5
N99-8118	1.0	1.3	4.0	1.0	1.0	2.0	3.5	2.0	1.0	1.9	2.0
N99-8141	1.0	1.5	4.0	1.0	1.0	2.5	3.5	2.0	1.0	2.1	2.1
R97-1650	1.0	1.3	1.0	1.0	1.0	2.5	2.5	2.0	1.0	1.7	1.6
R97-818	1.0	1.0	1.0	1.0	1.0	2.5	2.0	2.0	1.0	1.4	1.5
R98-1821	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.0	1.0	1.0	1.3
R98-2625F	1.0	1.5	2.0	2.5	1.0	3.0	3.3	2.0	1.0	1.8	2.1
R99-1858	1.0	1.3	2.0	1.0	1.0	3.5	1.8	2.0	1.0	1.3	1.7
S00-9705RR	1.0	1.0	1.0	1.0	1.0	3.0	1.3	2.0	1.0	1.2	1.4
S00-9929-27	1.0	1.0	1.0	1.0	1.0	3.0	3.0	2.0	1.0	1.1	1.6
S00-9985-03	1.0	1.0	1.0	1.0	1.0	2.5	3.0	2.0	1.0	1.8	1.7
S00-9987-49	1.0	1.0	1.0	1.0	1.0	3.0	2.3	2.0	1.0	1.2	1.6
S99-2447-2RR	1.0	1.0	1.0	1.0	1.0	3.0	1.3	2.0	1.0	1.2	1.4
S99-2461RR	1.0	1.0	1.0	1.0	1.0	3.0	1.5	2.0	1.0	1.2	1.5
TN00-199	1.0	1.3	1.0	1.0	1.0	2.5	1.5	2.0	1.0	1.5	1.4
TN99-191	1.0	1.0	2.0	1.0	1.0	2.0	1.5	2.0	1.0	1.2	1.5
TN99-47	1.0	1.3	2.0	1.0	2.2	3.0	2.3	2.0	1.0	1.4	1.7
TN99-53	1.0	1.0	1.0	1.0	1.0	1.0	1.3	2.0	1.0	1.2	1.2
V98-1630	1.0	1.0	1.0	1.0	1.0	1.0	1.3	2.0	1.0	1.1	1.2
V98-2446	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.0	1.0	1.1	1.3
V98-2624	1.0	1.0	2.0	1.0	1.0	2.0	2.8	2.0	1.0	1.1	1.6
V98-2711	1.0	1.0	1.0	1.0	1.0	2.5	3.0	2.0	1.0	1.1	1.6
V98-2726	1.0	1.0	1.0	1.0	1.0	3.0	2.8	2.0	1.0	1.0	1.6
TN96-68	1.0	1.0	2.0	1.0	1.0	2.0	2.0	2.0	1.0	1.1	1.5

\*Data not included in mean



**TABLE 34 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2002**

STRAIN/ VARIETY	JACKSON*	MCCUNE	PINE TREE*	PORTAGEVILLE	STONEVILLE	ULLIN	WARSAW	MEAN
	TN	KS	AR	MO(A)	MS	IL	VA	
HUTCHESON	3.4	2.0	2.4	1.0	2.0	1.0	2.8	1.8
MANOKIN	4.0	3.0	2.3	2.0	2.0	1.5	3.1	2.3
5601T	2.9	2.0	3.2	1.0	2.0	1.0	3.4	1.9
DT 97-6308	3.2	2.0	3.6	2.0	2.0	1.0	3.4	2.1
DT 99-10909	3.9	1.0	2.1	2.0	3.0	1.0	2.9	2.0
DT 99-16864	3.5	2.0	2.3	2.0	3.0	1.0	2.9	2.2
DT 99-17483	3.5	1.0	5.1	1.0	2.0	1.0	2.9	1.6
DT 99-17574	4.4	2.0	3.3	2.0	3.0	1.0	2.8	2.2
K1543RR	3.8	2.0	2.2	2.0	2.0	1.0	3.4	2.1
K1550RR	3.2	2.0	4.4	2.0	3.0	1.0	3.4	2.3
K1551RR	2.8	1.0	4.6	2.0	3.0	1.0	2.5	1.9
K1578	3.5	2.0	2.2	2.0	2.0	1.0	2.4	1.9
K1579	3.6	1.0	1.4	2.0	3.0	1.5	3.0	2.1
KY98-2028	3.5	3.0	2.7	2.0	3.0	1.0	2.8	2.4
KY98-2047	3.5	2.0	3.4	2.0	3.0	1.0	2.9	2.2
KY98-2811	4.0	3.0	4.8	3.0	4.0	1.5	4.1	3.1
KY98-2930	3.5	2.0	4.2	3.0	4.0	1.0	3.5	2.7
KY98-2932	4.1	3.0	3.8	2.0	4.0	1.0	4.5	2.9
LS99-1615	3.9	2.0	3.0	2.0	3.0	1.0	3.8	2.4
LS99-1647	3.4	2.0	2.4	2.0	2.0	1.5	2.8	2.1
LS99-1802	3.2	1.0	1.3	2.0	3.0	1.5	2.2	1.9
LS99-3730	3.5	2.0	2.1	2.0	3.0	1.5	2.8	2.3
Md 99-0687-3RR	4.0	2.0	3.6	2.0	3.0	1.0	3.0	2.2
Md 99-5618	3.6	2.0	4.1	2.0	3.0	1.0	3.8	2.4
Md 99-6226	4.0	2.0	3.3	2.0	3.0	1.5	2.9	2.3
N98-7089	3.0	2.0	1.6	2.0	2.0	1.5	2.4	2.0
N98-7168	3.0	1.0	4.1	1.0	4.0	1.0	2.5	1.9
N99-8118	2.8	2.0	3.0	2.0	3.0	1.0	3.1	2.2
N99-8141	3.0	2.0	2.4	2.0	3.0	1.5	2.5	2.2
R97-1650	2.8	3.0	2.1	1.0	3.0	1.0	2.4	2.1
R97-818	3.6	2.0	2.3	2.0	3.0	2.0	2.9	2.4
R98-1821	3.6	2.0	2.4	1.0	2.0	1.0	3.1	1.8
R98-2625F	2.6	2.0	3.4	2.0	2.0	1.0	2.2	1.8
R99-1858	2.8	2.0	3.0	1.0	3.0	1.0	2.7	1.9
S00-9705RR	3.4	2.0	1.6	2.0	2.0	2.0	2.5	2.1
S00-9929-27	3.7	2.0	2.2	2.0	2.0	1.0	2.9	2.0
S00-9985-03	3.4	2.0	1.3	2.0	3.0	1.0	2.7	2.1
S00-9987-49	3.3	2.0	1.1	2.0	2.0	1.0	2.3	1.9
S99-2447-2RR	3.5	2.0	2.2	1.0	2.0	1.0	2.2	1.6
S99-2461RR	3.0	2.0	3.2	2.0	2.0	1.0	2.5	1.9
TN00-199	3.4	1.0	2.4	1.0	3.0	1.0	2.8	1.8
TN99-191	3.5	2.0	3.2	2.0	3.0	2.5	4.2	2.7
TN99-47	3.3	2.0	1.2	2.0	3.0	1.0	2.3	2.1
TN99-53	3.0	2.0	2.3	2.0	2.0	1.0	3.0	2.0
V98-1630	3.7	1.0	1.5	2.0	4.0	1.0	4.1	2.4
V98-2446	3.3	2.0	1.3	1.0	2.0	1.0	3.4	1.9
V98-2624	3.9	3.0	4.5	2.0	3.0	1.0	2.9	2.4
V98-2711	4.0	2.0	3.2	2.0	4.0	1.0	2.5	2.3
V98-2726	3.8	2.0	2.4	2.0	3.0	1.0	3.0	2.2
TN96-68	3.8	2.0	4.2	2.0	2.0	1.0	2.8	2.0

\*Data not included in mean

## UNIFORM GROUP VI

2002

Uniform Group VI nurseries were planted at 20 locations. Data were obtained from 13 of these locations. The parentage for each strain is reported in Table 35. Table 36 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 37 - 42.

**TABLE 35 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VI,  
2002**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. DILLON	Centennial x Young	
2. BOGGS	G81-152 x Coker 6738	
3. NC-ROY	Holladay x Brim	
4. Au97-55	SC89-181 x Au90-592	
5. G98-1053	Boggs x Doles	F5d
6. G98-465	Boggs x Benni ng	F5d
7. N96-6755	N90-7202 x N90-7199	F5
8. N97-9812	N90-7199 x N91-7254	F5
9. N98-7881	CLIFFORD x BLUE SIDE	F5
10. N99-8119	N90-7199 x Graham	F5
11. R 98-209	A6297 x Clifford	
12. R96-1559	A6297 x A5403	
13. R97-1053	P9592 x NK 59-60	
14. R97-1801	Manokin x A6297	
15. SC96-1624	SC89-181 x NK' S S75-55	F5
16. SC97-1770	NK' S S83-30 x (HUTCHESON x D87-4429)	F5
17. SC98-1428	HAGOOD x D90-7256	F5
18. TN98-228	N86-7687 x MANOKIN	
19. TN99-117	N92-189 x V90-1012	
20. TN99-123	TN91-276 x TN90-91	
21. VS98-363	[PI 96089 x ESSEX (2)]	F6

**TABLE 36 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2002**

STRAIN/ VARIETY	RANK 2002	AVERAGE RANK 2002	YIELD*			PROTEIN			OIL		
			2002	01-02	00-02	2002	01-02	00-02	2002	01-02	00-02
DILLON	6	9	39.8	42.9	42.2	42.5	41.3	41.8	19.8	20.2	20.0
BOGGS	10	11	37.7	42.3	41.8	41.6	40.8	41.2	19.8	20.1	20.0
NC-ROY	4	9	40.4	.	.	41.6	.	.	19.0	.	.
Au97-55	13	12	37.4	42.2	.	41.3	40.9	.	18.4	19.2	.
G98-1053	1	7	42.8	.	.	41.7	.	.	20.0	.	.
G98-465	18	13	36.3	.	.	41.1	.	.	20.2	.	.
N96-6755	11	12	37.7	.	.	40.5	.	.	20.3	.	.
N97-9812	16	12	36.5	39.7	39.6	38.8	38.5	39.4	21.5	21.8	21.5
N98-7881	19	15	33.8	.	.	42.2	.	.	19.3	.	.
N99-8119	17	11	36.4	.	.	38.9	.	.	20.1	.	.
R 98-209	3	9	40.6	.	.	42.1	.	.	19.9	.	.
R96-1559	7	10	39.4	43.3	42.2	40.6	40.2	40.7	19.9	20.2	20.0
R97-1053	15	12	36.6	42.0	.	42.2	41.1	.	20.7	20.7	.
R97-1801	8	11	38.8	43.0	.	39.4	38.8	.	21.3	21.4	.
SC96-1624	12	11	37.5	42.5	43.2	41.0	40.5	40.9	19.8	20.1	20.1
SC97-1770	5	10	40.2	43.4	.	40.8	40.4	.	19.5	19.8	.
SC98-1428	21	13	32.5	.	.	44.0	.	.	18.5	.	.
TN98-228	9	10	38.2	.	.	41.7	.	.	20.2	.	.
TN99-117	2	9	40.9	.	.	40.0	.	.	20.4	.	.
TN99-123	14	12	36.9	.	.	42.2	.	.	19.6	.	.
VS98-363	20	15	33.2	37.5	.	43.9	42.7	.	19.0	19.5	.

\*Data not included in mean: 2002 - Belle Mina, AL; Tallassee, AL  
 2001 - Florence, SC; Tifton, GA  
 2000 - Belle Mina, AL; Jay, FL; Suffolk, VA; Bossier City, LA

TABLE 36 ~ Continued

BOTANICAL TRAITS								
STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
DILLON	P	10/13	1.4	34	2.7	16.9	G	T
BOGGS	W	3+	1.6	32	2.5	15.4	T	T
NC-ROY	W	10+	1.7	33	2.5	15.1	G	T
Au97-55	W	5+	1.7	33	2.9	14.4	G	T
G98-1053	W	4+	1.3	30	2.7	14.0	T	T
G98-465	P	2-	1.5	31	3.2	14.2	T	T
N96-6755	P	1+	1.2	27	3.3	16.3	T	T
N97-9812	P	6+	1.5	29	2.7	15.4	G	T
N98-7881	P	10+	1.5	28	3.4	21.5	T	BR
N99-8119	P	15+	1.4	30	2.7	16.2	G	T
R 98-209	P	4+	1.5	33	3.3	16.0	T	T
R96-1559	P	0	1.2	31	3.2	14.9	T	T
R97-1053	W	0	1.2	31	2.8	16.0	T	T
R97-1801	W	1-	1.2	27	3.1	13.5	T	T
SC96-1624	P	8+	1.4	33	2.6	16.6	T	T
SC97-1770	P	8+	1.7	36	2.7	15.2	T	T
SC98-1428	W	6+	1.4	33	2.7	15.5	T	T
TN98-228	P	1-	1.2	26	3.2	15.3	G	T
TN99-117	P	0	1.4	28	3.2	16.2	T	T
TN99-123	P	2-	1.3	31	3.0	16.3	G	T
VS98-363	P	12+	1.5	32	2.7	12.6	G	T

TABLE 36 ~ Continued

## PEST REACTIONS

STRAIN/ VARIETY	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER
DILLON	4.7	2.3	4.7	1.8	4.0	R	S
BOGGS	2.8	1.0	4.3	1.3	3.3	S	R
NC-ROY	4.7	3.4	4.6	3.0	4.3	R	S
Au97-55	4.3	1.0	3.9	2.8	5.0	R	R
G98-1053	4.4	1.0	4.9	1.0	3.3	R	MS
G98-465	4.5	1.0	4.9	1.0	2.3	S	R
N96-6755	4.6	3.7	4.0	4.8	4.8	R	S
N97-9812	4.1	2.0	2.7	5.0	4.8	R	MS
N98-7881	4.7	3.3	3.9	5.0	4.0	R	R
N99-8119	4.3	3.3	4.3	5.0	4.5	R	MS
R 98-209	4.9	1.0	4.1	5.0	3.8	S	MS
R96-1559	5.0	1.5	4.4	5.0	4.3	S	R
R97-1053	4.7	1.0	4.3	5.0	3.3	S	MS
R97-1801	4.3	1.0	4.3	5.0	3.0	S	R
SC96-1624	4.8	1.3	4.4	2.8	5.0	R	R
SC97-1770	4.7	1.0	4.3	1.0	3.8	R	R
SC98-1428	4.4	1.0	4.6	2.5	4.5	R	MS
TN98-228	4.5	2.1	5.0	5.0	4.5	R	MS
TN99-117	4.4	2.1	4.9	5.0	4.3	R	R
TN99-123	5.0	1.3	5.0	5.0	3.8	R	R
VS98-363	5.0	2.1	5.0	5.0	4.3	R	MS

**TABLE 37 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY  
GROWN IN  
UNIFORM GROUP VI, 2002**

STRAIN/ VARIETY	EAST				MEAN
	FLORENCE SC	PETERSBURG* VA	PLYMOUTH NC	WARSAW VA	
DILLON	37.7	26.6	42.4	41.3	40.5
BOGGS	35.3	45.3	34.3	41.4	37.0
NC-ROY	42.2	26.4	44.0	40.8	42.3
Au97-55	36.7	30.4	36.5	33.7	35.6
G98-1053	35.8	39.5	43.7	38.1	39.2
G98-465	28.9	42.8	37.5	38.8	35.0
N96-6755	25.3	21.1	44.5	37.4	35.7
N97-9812	29.7	18.3	37.9	40.7	36.1
N98-7881	33.2	24.5	42.6	35.8	37.2
N99-8119	38.8	22.4	41.8	38.6	39.7
R 98-209	32.6	32.6	45.4	37.5	38.5
R96-1559	27.2	32.8	40.8	37.9	35.3
R97-1053	30.1	33.2	38.9	39.9	36.3
R97-1801	30.3	54.5	45.8	40.5	38.8
SC96-1624	42.9	33.0	40.9	37.7	40.5
SC97-1770	46.4	39.8	39.7	31.9	39.4
SC98-1428	38.8	36.9	35.7	27.9	34.1
TN98-228	32.5	18.3	39.5	42.2	38.1
TN99-117	31.8	33.8	44.5	39.8	38.7
TN99-123	32.0	22.8	38.9	38.6	36.5
VS98-363	33.9	24.0	33.5	35.1	34.2
L. S. D. (0.05)	5.5	10.8	5.5	5.9	.
C. V. (%)	9.7	20.1	8.3	7.8	.

\*Data not included in mean

TABLE 37 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS	BELLE MINA*	BLACKVILLE	CALHOUN	FAIRHOPE	SUFFOLK	TALLASSEE*	TIFTON	MEAN
	GA	AL	SC	GA	AL	VA	AL	GA	
DI LLON	39.5	15.4	36.5	29.6	45.3	25.1	22.5	35.6	35.3
BOGGS	39.5	20.0	33.5	23.8	32.9	31.7	30.6	54.4	36.0
NC-ROY	35.3	21.2	39.3	24.5	54.5	29.5	25.9	45.4	38.1
Au97-55	40.3	19.7	35.7	34.9	29.3	27.8	40.1	52.8	36.8
G98-1053	36.7	21.2	36.2	41.3	42.8	30.7	39.9	52.9	40.1
G98-465	34.8	17.8	18.7	39.9	28.8	29.3	26.1	46.2	33.0
N96-6755	32.0	19.4	22.6	32.0	49.9	24.9	19.2	38.2	33.3
N97-9812	28.6	19.1	25.5	26.8	47.8	25.7	16.9	35.1	31.6
N98-7881	30.2	21.2	16.1	18.9	40.9	24.7	19.8	25.2	26.0
N99-8119	42.6	25.7	24.4	21.1	61.0	23.8	26.8	38.1	35.2
R 98-209	40.3	16.9	30.8	39.5	43.9	26.1	25.2	51.6	38.7
R96-1559	40.2	17.8	20.4	31.5	46.0	31.2	26.6	44.8	35.7
R97-1053	36.4	21.2	26.6	24.7	44.1	31.0	26.0	31.3	32.4
R97-1801	38.1	18.2	26.3	31.8	41.2	24.4	20.9	50.8	35.4
SC96-1624	40.0	21.5	27.0	32.7	43.9	31.3	39.5	51.0	37.6
SC97-1770	41.0	20.0	38.2	38.1	53.4	28.9	34.4	54.6	42.4
SC98-1428	43.2	23.3	40.4	30.2	31.3	28.2	26.0	48.7	37.0
TN98-228	23.7	17.2	19.5	26.0	47.2	29.1	16.4	38.6	30.7
TN99-117	35.0	19.1	27.6	24.4	49.4	28.9	20.0	47.4	35.5
TN99-123	35.2	13.9	26.0	24.1	33.2	27.2	22.3	46.4	32.0
VS98-363	42.4	20.3	30.3	25.1	35.3	21.5	17.8	33.7	31.4
L. S. D. (0.05)	8.3	5.9	6.9	8.1	6.7	6.9	9.3	9.8	.
C. V. (%)	13.7	18.4	14.6	16.7	9.4	15.1	21.5	13.5	.

\*Data not included in mean



TABLE 37 ~ Continued

STRAIN/ VARIETY	DELTA		MEAN
	ROHWER AR	STONEVILLE MS	
DILLON	30.3	57.7	44.0
BOGGS	29.2	47.1	38.1
NC-ROY	33.3	50.3	41.8
Au97-55	28.1	45.1	36.6
G98-1053	38.3	62.1	50.2
G98-465	29.6	49.1	39.4
N96-6755	32.6	61.9	47.3
N97-9812	27.5	52.0	39.7
N98-7881	29.9	49.8	39.8
N99-8119	23.8	47.6	35.7
R 98-209	32.5	57.1	44.8
R96-1559	38.3	64.7	51.5
R97-1053	32.6	51.5	42.1
R97-1801	37.8	51.2	44.5
SC96-1624	23.9	38.2	31.0
SC97-1770	28.6	40.7	34.6
SC98-1428	19.8	7.8	13.8
TN98-228	39.7	61.3	50.5
TN99-117	42.5	61.5	52.0
TN99-123	31.7	53.9	42.8
VS98-363	22.9	28.1	25.5
L. S. D. (0.05)	8.6	5.6	.
C. V. (%)	16.7	6.9	.

TABLE 37 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	BIXBY OK	STUTTGART AR	
DILLON	30.3	66.4	48.3
BOGGS	30.3	56.8	43.5
NC-ROY	23.2	63.1	43.2
Au97-55	25.9	58.9	42.4
G98-1053	27.7	70.5	49.1
G98-465	29.3	61.2	45.3
N96-6755	28.1	60.2	44.1
N97-9812	31.7	65.0	48.4
N98-7881	24.8	67.5	46.1
N99-8119	35.3	.	35.3
R 98-209	28.2	62.8	45.5
R96-1559	31.0	58.1	44.6
R97-1053	28.9	60.4	44.6
R97-1801	25.7	60.4	43.1
SC96-1624	26.9	51.8	39.3
SC97-1770	24.5	57.1	40.8
SC98-1428	26.9	44.0	35.4
TN98-228	30.4	67.0	48.7
TN99-117	25.6	73.3	49.4
TN99-123	28.5	63.5	46.0
VS98-363	29.5	60.5	45.0
L. S. D. (0.05)	6.3	6.7	.
C. V. (%)	13.6	6.5	.

TABLE 38 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2002

## OIL PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	BLACKVILLE SC	CALHOUN GA	FLORENCE SC	PETERSBURG* VA	PLYMOUTH NC	STONEVILLE MS	SUFFOLK VA	TIFTON GA	WARSAW VA	MEAN
DILLON	20.1	17.0	21.4	.	.	17.7	18.3	22.6	.	.	19.6	19.8
BOGGS	21.3	17.8	21.4	.	.	18.8	18.5	21.1	.	.	18.7	19.8
NC-ROY	18.8	16.5	20.7	.	.	17.0	18.3	21.4	.	.	18.2	19.0
Au97-55	18.8	17.2	20.4	.	.	17.1	17.4	18.9	.	.	18.0	18.4
G98-1053	20.5	17.4	21.9	.	.	18.2	19.0	22.0	.	.	19.4	20.0
G98-465	20.7	17.9	21.8	.	.	19.4	18.5	24.0	.	.	18.5	20.2
N96-6755	19.2	19.5	21.5	.	.	19.3	19.6	22.4	.	.	19.4	20.3
N97-9812	21.2	19.5	22.7	.	.	19.2	20.1	23.7	.	.	21.5	21.5
N98-7881	17.8	18.3	21.0	.	.	18.0	18.3	21.4	.	.	18.8	19.3
N99-8119	20.0	17.8	21.8	.	.	18.2	19.0	22.1	.	.	19.8	20.1
R 98-209	20.0	19.1	20.7	.	.	19.2	19.0	22.0	.	.	18.3	19.9
R96-1559	20.5	19.0	20.9	.	.	18.5	18.5	21.4	.	.	19.3	19.9
R97-1053	19.6	19.1	22.5	.	.	19.8	19.3	23.9	.	.	19.7	20.7
R97-1801	21.7	19.7	23.2	.	.	20.1	19.1	23.3	.	.	20.9	21.3
SC96-1624	20.9	17.2	21.7	.	.	19.5	18.8	21.7	.	.	18.7	19.8
SC97-1770	20.2	16.8	20.9	.	.	17.9	18.8	21.8	.	.	18.4	19.5
SC98-1428	19.4	15.7	20.1	.	.	18.4	18.6	19.6	.	.	17.4	18.5
TN98-228	20.0	20.3	20.0	.	.	20.5	18.9	22.3	.	.	19.9	20.2
TN99-117	20.6	17.9	22.0	.	.	20.7	19.8	22.3	.	.	19.8	20.4
TN99-123	18.1	18.7	21.9	.	.	18.1	19.0	21.2	.	.	18.8	19.6
VS98-363	18.0	17.6	20.2	.	.	17.4	18.0	21.7	.	.	18.5	19.0

\*Data not included in mean

TABLE 38 ~ Continued

## PROTEIN PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	BLACKVILLE SC	CALHOUN GA	FLORENCE SC	PETERSBURG* VA	PLYMOUTH NC	STONEVILLE MS	SUFFOLK VA	TIFTON GA	WARSAW VA	MEAN
DILLON	41.5	43.2	42.0	.	.	44.3	42.6	42.7	.	.	43.0	42.5
BOGGS	39.8	40.5	42.9	.	.	43.1	41.9	42.1	.	.	42.1	41.6
NC-ROY	39.9	42.9	40.3	.	.	45.3	42.4	40.5	.	.	43.7	41.6
Au97-55	40.0	42.5	40.4	.	.	40.1	42.2	39.8	.	.	43.1	41.3
G98-1053	41.0	42.6	41.0	.	.	47.4	41.9	41.5	.	.	42.3	41.7
G98-465	38.9	42.7	42.9	.	.	40.5	41.1	39.4	.	.	41.8	41.1
N96-6755	40.0	41.2	40.7	.	.	42.6	40.1	38.9	.	.	42.2	40.5
N97-9812	36.7	38.5	39.1	.	.	39.9	40.8	36.8	.	.	40.8	38.8
N98-7881	40.4	43.5	41.9	.	.	42.9	41.2	41.9	.	.	44.4	42.2
N99-8119	37.4	38.9	38.6	.	.	40.5	40.4	36.9	.	.	41.4	38.9
R 98-209	39.8	41.9	43.1	.	.	43.8	40.2	43.4	.	.	44.3	42.1
R96-1559	40.6	40.1	40.7	.	.	40.7	40.1	39.7	.	.	42.4	40.6
R97-1053	41.5	42.3	41.9	.	.	41.9	41.7	43.1	.	.	42.4	42.2
R97-1801	38.0	40.3	40.3	.	.	39.6	38.6	39.6	.	.	39.8	39.4
SC96-1624	40.3	41.7	40.9	.	.	42.0	41.4	39.6	.	.	41.9	41.0
SC97-1770	38.9	39.9	40.8	.	.	37.7	41.9	41.1	.	.	42.4	40.8
SC98-1428	41.7	44.2	42.9	.	.	44.5	45.6	45.1	.	.	44.7	44.0
TN98-228	42.4	42.7	41.0	.	.	42.6	41.0	40.2	.	.	42.8	41.7
TN99-117	40.1	42.6	39.2	.	.	39.1	38.4	38.5	.	.	41.0	40.0
TN99-123	40.5	42.6	42.6	.	.	43.5	42.2	41.1	.	.	44.1	42.2
VS98-363	39.7	42.9	43.0	.	.	43.0	41.7	52.3	.	.	43.8	43.9

\*Data not included in mean

TABLE 38 ~ Continued

## GRAMS PER 100 SEED

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	BLACKVILLE SC	CALHOUN GA	FLORENCE SC	PETERSBURG* VA	PLYMOUTH NC	STONEVILLE MS	SUFFOLK VA	TIFTON GA	WARSAW VA	MEAN
DILLON	17.7	14.1	18.2	17.7	19.4	15.0	16.5	.	16.1	14.6	17.7	16.9
BOGGS	15.8	14.0	15.1	13.5	17.4	15.0	15.2	.	15.0	15.7	16.8	15.4
NC-ROY	15.4	13.6	15.3	14.5	16.0	14.0	14.5	.	15.0	15.7	15.5	15.1
Au97-55	14.7	13.2	14.2	14.2	15.2	13.0	13.5	.	13.0	16.4	15.0	14.4
G98-1053	16.9	12.3	14.1	13.9	13.8	13.0	13.1	.	13.2	14.7	13.8	14.0
G98-465	12.8	12.6	12.9	15.5	15.9	13.0	14.8	.	13.7	14.8	14.7	14.2
N96-6755	14.7	13.4	17.7	15.9	18.7	15.0	16.6	.	15.0	17.0	17.6	16.3
N97-9812	13.7	13.1	17.2	14.0	16.1	13.0	17.2	.	15.5	15.8	16.4	15.4
N98-7881	20.8	14.0	21.1	20.6	27.0	19.0	24.4	.	18.4	20.8	26.4	21.5
N99-8119	16.5	12.2	16.8	15.9	18.1	14.0	16.8	.	15.4	16.0	17.9	16.2
R 98-209	15.3	13.4	16.8	14.8	18.0	16.0	14.9	.	15.4	16.8	18.9	16.0
R96-1559	13.6	14.2	16.2	14.7	15.4	14.0	14.8	.	13.4	14.2	17.7	14.9
R97-1053	13.0	13.1	16.2	17.1	17.2	15.0	16.4	.	15.2	17.0	19.0	16.0
R97-1801	13.7	12.1	13.9	13.0	14.2	14.0	12.5	.	13.3	14.5	13.9	13.5
SC96-1624	17.7	15.4	14.6	17.8	17.4	15.0	17.0	.	15.9	16.9	16.4	16.6
SC97-1770	15.9	13.0	13.6	15.6	17.6	14.0	15.2	.	12.8	16.1	16.8	15.2
SC98-1428	15.8	12.0	15.8	14.5	17.8	15.0	15.0	.	15.0	15.6	18.4	15.5
TN98-228	14.6	13.3	15.2	14.2	17.6	12.0	16.0	.	14.8	15.8	16.1	15.3
TN99-117	15.8	11.8	16.4	16.2	18.1	17.0	16.7	.	15.7	18.4	16.3	16.2
TN99-123	15.9	12.8	16.7	15.8	18.5	15.0	15.8	.	15.0	17.6	18.6	16.3
VS98-363	12.1	13.4	13.2	11.9	12.7	10.0	12.0	.	12.2	12.6	13.3	12.6

\*Data not included in mean

**TABLE 39 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN DILLON, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2002**

STRAIN/ VARIETY	EAST				MEAN
	FLORENCE SC	PETERSBURG* VA	PLYMOUTH NC	WARSAW VA	
DILLON	10/12	11/08	11/02	.	10/23
BOGGS	10	0	1	.	5
NC-ROY	12	0	0	.	6
Au97-55	9	0	-9	.	0
G98-1053	4	0	0	.	2
G98-465	1	0	-9	.	-4
N96-6755	-3	0	0	.	-2
N97-9812	10	0	3	.	6
N98-7881	20	0	1	.	10
N99-8119	16	0	4	.	9
R 98-209	3	0	0	.	1
R96-1559	0	0	-9	.	-5
R97-1053	1	0	-8	.	-4
R97-1801	0	0	-9	.	-5
SC96-1624	12	0	0	.	6
SC97-1770	12	0	0	.	6
SC98-1428	13	0	0	.	6
TN98-228	3	0	-9	.	-3
TN99-117	3	0	-9	.	-4
TN99-123	2	0	-9	.	-4
VS98-363	13	0	1	.	7

\*Data not included in mean

TABLE 39 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA* AL	BLACKVILLE SC	CALHOUN GA	FAIRHOPE AL	SUFFOLK VA	TALLASSEE* AL	TIFTON GA	MEAN
DILLON	10/14	09/30	10/23	10/06	10/06	11/08	10/03	09/26	10/14
BOGGS	3	10	6	-1	0	2	8	5	2
NC-ROY	11	18	5	14	9	6	11	16	10
Au97-55	6	21	1	11	0	4	11	15	6
G98-1053	-4	8	5	5	4	6	11	8	4
G98-465	-4	1	0	0	-4	0	2	2	-1
N96-6755	-2	-2	3	1	5	2	-3	3	2
N97-9812	2	10	8	0	11	4	8	11	6
N98-7881	12	11	6	16	15	6	11	18	12
N99-8119	17	30	9	17	18	6	18	24	15
R 98-209	0	1	8	4	5	6	2	6	5
R96-1559	-2	2	1	1	3	2	-2	3	1
R97-1053	8	13	1	-3	1	0	-2	4	2
R97-1801	-5	1	1	2	1	0	-2	4	1
SC96-1624	10	30	3	11	8	4	11	12	8
SC97-1770	10	12	3	9	11	2	11	14	8
SC98-1428	9	26	4	9	2	2	11	15	7
TN98-228	-6	1	0	-5	2	0	-2	6	0
TN99-117	-3	1	1	-5	2	4	1	5	1
TN99-123	-5	1	-3	-2	0	0	-2	2	-1
VS98-363	17	26	9	13	13	6	11	18	13

\*Data not included in mean

TABLE 39 ~ Continued

STRAIN/ VARIETY	DELTA		MEAN
	ROHWER AR	STONEVILLE MS	
DILLON	09/25	.	09/25
BOGGS	5	.	5
NC-ROY	14	.	14
Au97-55	9	.	9
G98-1053	9	.	9
G98-465	-1	.	-1
N96-6755	3	.	3
N97-9812	6	.	6
N98-7881	4	.	4
N99-8119	16	.	16
R 98-209	3	.	3
R96-1559	-1	.	-1
R97-1053	-2	.	-2
R97-1801	0	.	0
SC96-1624	10	.	10
SC97-1770	13	.	13
SC98-1428	7	.	7
TN98-228	0	.	0
TN99-117	0	.	0
TN99-123	0	.	0
VS98-363	8	.	8



TABLE 39 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	BIXBY OK	STUTTGART AR	
DILLON	.	10/06	10/06
BOGGS	.	0	0
NC-ROY	.	7	7
Au97-55	.	4	4
G98-1053	.	4	4
G98-465	.	-2	-2
N96-6755	.	-3	-3
N97-9812	.	4	4
N98-7881	.	6	6
N99-8119	.	.	.
R 98-209	.	8	8
R96-1559	.	-2	-2
R97-1053	.	-2	-2
R97-1801	.	-2	-2
SC96-1624	.	5	5
SC97-1770	.	6	6
SC98-1428	.	1	1
TN98-228	.	-1	-1
TN99-117	.	-1	-1
TN99-123	.	-4	-4
VS98-363	.	.	.

**TABLE 40 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VI, 2002**

STRAIN/ VARIETY	EAST			MEAN
	FLORENCE SC	PETERSBURG* VA	WARSAW VA	
DI LLON	27	23	33	30
BOGGS	27	21	28	28
NC-ROY	27	23	33	30
Au97-55	27	26	30	29
G98-1053	24	23	27	26
G98-465	25	22	30	28
N96-6755	19	22	26	23
N97-9812	23	21	25	24
N98-7881	22	21	28	25
N99-8119	24	22	29	27
R 98-209	28	24	33	31
R96-1559	24	22	29	27
R97-1053	24	21	28	26
R97-1801	22	22	27	25
SC96-1624	29	24	32	31
SC97-1770	30	28	35	33
SC98-1428	25	23	30	28
TN98-228	20	17	24	22
TN99-117	21	22	24	23
TN99-123	26	19	28	27
VS98-363	25	21	30	28

\*Data not included in mean

TABLE 40 ~ Continued

**SOUTH**

STRAIN/ VARIETY	ATHENS GA	BELLE MINA* AL	BLACKVILLE SC	CALHOUN GA	FAIRHOPE AL	SUFFOLK VA	TALLASSEE* AL	TIFTON GA	MEAN
DILLON	39	28	24	45	34	34	29	34	35
BOGGS	34	27	24	37	32	35	28	31	32
NC-ROY	35	30	21	43	30	39	28	28	33
Au97-55	39	29	24	39	31	38	28	30	34
G98-1053	37	27	24	36	32	30	25	28	31
G98-465	35	30	18	39	31	34	27	30	31
N96-6755	29	23	20	33	27	27	16	27	27
N97-9812	26	22	22	35	30	28	21	28	28
N98-7881	32	24	16	38	27	28	18	26	28
N99-8119	35	26	18	39	29	34	24	27	30
R 98-209	39	28	23	43	30	34	27	33	34
R96-1559	32	27	16	38	31	34	26	29	30
R97-1053	32	28	18	40	33	32	25	31	31
R97-1801	30	21	18	33	26	27	24	27	27
SC96-1624	37	32	21	40	32	36	32	25	32
SC97-1770	43	30	28	43	35	39	31	31	37
SC98-1428	35	28	23	40	33	33	27	31	33
TN98-228	29	21	16	34	25	27	24	25	26
TN99-117	30	21	21	39	29	27	25	26	29
TN99-123	34	26	20	38	32	33	26	31	31
VS98-363	38	28	23	39	28	34	29	31	32

\*Data not included in mean

TABLE 40 ~ Continued

STRAIN/ VARIETY	DELTA		MEAN
	ROHWER AR	STONEVILLE MS	
DILLON	40	34	37
BOGGS	45	34	39
NC-ROY	42	26	34
Au97-55	40	26	33
G98-1053	36	28	32
G98-465	41	28	35
N96-6755	35	24	30
N97-9812	42	26	34
N98-7881	36	18	27
N99-8119	39	20	29
R 98-209	38	36	37
R96-1559	37	34	36
R97-1053	39	26	32
R97-1801	35	24	29
SC96-1624	43	24	33
SC97-1770	42	28	35
SC98-1428	44	24	34
TN98-228	33	24	28
TN99-117	36	28	32
TN99-123	35	30	33
VS98-363	40	22	31

TABLE 40 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	BIXBY OK	STUTTGART AR	
DILLON	34	33	33
BOGGS	31	32	31
NC-ROY	30	36	33
Au97-55	32	39	35
G98-1053	33	30	31
G98-465	30	35	33
N96-6755	28	21	25
N97-9812	32	29	31
N98-7881	31	28	30
N99-8119	35	30	33
R 98-209	29	31	30
R96-1559	32	31	32
R97-1053	36	30	33
R97-1801	30	28	29
SC96-1624	39	35	37
SC97-1770	39	41	40
SC98-1428	34	36	35
TN98-228	30	27	29
TN99-117	32	28	30
TN99-123	34	31	32
VS98-363	36	34	35

**TABLE 41 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2002**

STRAIN/ VARIETY	EAST				MEAN
	FLORENCE SC	PETERSBURG* VA	PLYMOUTH NC	WARSAW VA	
DILLON	1.0	1.0	2.3	2.3	1.9
BOGGS	1.0	1.0	3.3	2.2	2.2
NC-ROY	1.0	1.0	3.3	1.7	2.0
Au97-55	1.0	2.0	4.0	2.3	2.4
G98-1053	1.0	1.0	2.7	1.5	1.7
G98-465	1.0	1.0	3.0	1.8	1.9
N96-6755	1.0	1.0	2.0	1.3	1.4
N97-9812	1.0	1.0	4.0	1.7	2.2
N98-7881	1.0	1.0	2.7	2.4	2.0
N99-8119	1.0	1.0	2.7	1.7	1.8
R 98-209	1.0	1.0	3.0	1.8	1.9
R96-1559	1.0	1.0	2.0	1.4	1.5
R97-1053	1.0	1.0	2.3	1.4	1.6
R97-1801	1.0	1.0	2.7	1.3	1.7
SC96-1624	1.0	2.0	3.0	1.4	1.8
SC97-1770	1.0	2.0	3.7	2.2	2.3
SC98-1428	1.0	2.0	3.3	1.4	1.9
TN98-228	1.0	1.0	2.0	1.1	1.4
TN99-117	1.0	1.0	3.0	1.1	1.7
TN99-123	1.0	1.0	3.0	1.1	1.7
VS98-363	1.0	1.0	3.0	1.5	1.8

\*Data not included in mean

TABLE 41 - Continued

## SOUTH

STRAIN/ VARIETY	ATHENS	BELLE MINA*	BLACKVILLE	CALHOUN	SUFFOLK	TALLASSEE*	TIFTON	MEAN
	GA	AL	SC	GA	VA	AL	GA	
DILLON	2.0	1.3	1.0	1.3	1.1	1.0	1.0	1.1
BOGGS	2.7	1.0	1.0	2.3	1.3	1.0	1.0	1.4
NC-ROY	2.3	1.0	1.0	1.3	2.0	1.0	1.0	1.3
Au97-55	3.0	1.3	1.0	2.0	1.8	1.0	1.0	1.5
G98-1053	2.0	1.0	1.0	1.7	1.0	1.0	1.0	1.1
G98-465	2.0	1.0	1.0	2.3	1.0	1.0	1.0	1.2
N96-6755	1.7	1.0	1.0	1.0	1.0	1.0	1.0	0.9
N97-9812	2.0	1.0	1.0	1.7	1.2	1.0	1.0	1.1
N98-7881	2.3	1.0	1.0	1.0	1.5	1.0	1.0	1.1
N99-8119	2.3	1.0	1.0	1.0	1.7	1.0	1.0	1.2
R 98-209	2.7	1.0	1.0	1.3	1.2	1.0	1.0	1.2
R96-1559	1.7	1.0	1.0	1.0	1.0	1.0	1.0	0.9
R97-1053	2.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0
R97-1801	2.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0
SC96-1624	2.0	1.0	1.0	1.7	1.3	1.0	1.0	1.2
SC97-1770	2.3	1.7	1.0	1.7	1.7	1.0	1.0	1.3
SC98-1428	2.0	1.0	1.0	1.0	1.4	1.0	1.0	1.1
TN98-228	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TN99-117	2.0	1.0	1.0	2.0	1.1	1.0	1.0	1.2
TN99-123	1.7	1.0	1.0	1.0	1.2	1.0	1.0	1.0
VS98-363	2.3	1.0	1.0	1.3	2.0	1.0	1.0	1.3

\*Data not included in mean

TABLE 41 ~ Continued

## DELTA

STRAIN/ VARIETY	ROHWER AR	STONEVILLE MS	MEAN
DILLON	1.3	2.0	1.7
BOGGS	1.0	2.0	1.5
NC-ROY	2.3	2.0	2.2
Au97-55	1.3	2.0	1.7
G98-1053	1.0	2.0	1.5
G98-465	1.3	2.0	1.7
N96-6755	1.3	2.0	1.7
N97-9812	1.3	2.0	1.7
N98-7881	1.7	2.0	1.8
N99-8119	1.0	2.0	1.5
R 98-209	1.3	2.0	1.7
R96-1559	1.0	2.0	1.5
R97-1053	1.0	2.0	1.5
R97-1801	1.0	2.0	1.5
SC96-1624	1.0	2.0	1.5
SC97-1770	2.0	2.0	2.0
SC98-1428	1.0	2.0	1.5
TN98-228	1.0	2.0	1.5
TN99-117	1.7	2.0	1.8
TN99-123	1.3	2.0	1.7
VS98-363	1.0	2.0	1.5



TABLE 41 ~ Continued

STRAIN/ VARIETY	WEST		MEAN
	BIXBY OK	STUTTGART AR	
DILLON	1.0	1.7	1.3
BOGGS	1.0	2.0	1.5
NC-ROY	1.0	2.7	1.8
Au97-55	1.0	2.3	1.7
G98-1053	1.0	1.3	1.2
G98-465	1.0	2.0	1.5
N96-6755	1.0	1.0	1.0
N97-9812	1.0	1.7	1.3
N98-7881	1.0	2.0	1.5
N99-8119	1.0	1.7	1.3
R 98-209	1.0	2.0	1.5
R96-1559	1.0	1.0	1.0
R97-1053	1.0	1.0	1.0
R97-1801	1.0	1.0	1.0
SC96-1624	1.0	2.0	1.5
SC97-1770	1.0	3.0	2.0
SC98-1428	1.0	2.0	1.5
TN98-228	1.0	1.0	1.0
TN99-117	1.0	1.0	1.0
TN99-123	1.0	1.3	1.2
VS98-363	1.0	2.0	1.5

**TABLE 42 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2002**

STRAIN/ VARIETY	EAST			MEAN
	PETERSBURG* VA	PLYMOUTH NC	WARSAW VA	
DI LLON	2.0	3.0	1.9	2.5
BOGGS	2.0	3.0	2.1	2.5
NC-ROY	2.0	3.0	1.8	2.4
Au97-55	2.0	4.0	2.8	3.4
G98-1053	2.0	3.0	1.9	2.4
G98-465	2.0	5.0	2.5	3.8
N96-6755	2.0	4.0	2.7	3.4
N97-9812	2.0	4.0	2.0	3.0
N98-7881	3.0	4.0	3.8	3.9
N99-8119	2.0	3.0	2.3	2.7
R 98-209	2.0	4.0	3.1	3.6
R96-1559	2.0	4.0	3.5	3.8
R97-1053	2.0	4.0	2.4	3.2
R97-1801	2.0	5.0	2.6	3.8
SC96-1624	2.0	3.0	2.4	2.7
SC97-1770	2.0	3.0	2.6	2.8
SC98-1428	2.0	4.0	2.3	3.2
TN98-228	3.0	4.0	2.4	3.2
TN99-117	2.0	4.0	2.2	3.1
TN99-123	2.0	4.0	3.3	3.7
VS98-363	2.0	4.0	1.9	2.9

\*Data not included in mean

TABLE 42 ~ Continued

STRAIN/ VARIETY	SOUTH		MEAN
	ATHENS GA	SUFFOLK VA	
DILLON	2.8	2.7	2.8
BOGGS	2.5	2.0	2.3
NC-ROY	2.5	2.0	2.3
Au97-55	2.5	2.0	2.3
G98-1053	3.3	2.3	2.8
G98-465	2.7	2.7	2.7
N96-6755	3.8	3.0	3.4
N97-9812	2.5	2.0	2.3
N98-7881	3.7	2.7	3.2
N99-8119	2.7	2.3	2.5
R 98-209	3.2	3.3	3.3
R96-1559	3.3	2.3	2.8
R97-1053	2.5	2.0	2.3
R97-1801	2.8	2.0	2.4
SC96-1624	2.5	2.0	2.3
SC97-1770	2.5	2.3	2.4
SC98-1428	2.0	2.0	2.0
TN98-228	3.5	3.0	3.3
TN99-117	3.7	3.0	3.3
TN99-123	2.5	2.3	2.4
VS98-363	2.5	2.3	2.4

TABLE 42 ~ Continued

<b>DELTA</b>	
STRAIN/ VARIETY	STONEVILLE MS
DILLON	3.0
BOGGS	3.0
NC-ROY	3.0
Au97-55	3.0
G98-1053	3.0
G98-465	3.0
N96-6755	3.0
N97-9812	3.0
N98-7881	3.0
N99-8119	3.0
R 98-209	3.0
R96-1559	3.0
R97-1053	3.0
R97-1801	3.0
SC96-1624	3.0
SC97-1770	3.0
SC98-1428	3.0
TN98-228	3.0
TN99-117	3.0
TN99-123	3.0
VS98-363	3.0

## PRELIMINARY GROUP VI

2002

Preliminary Group VI nurseries were planted at 8 locations. Data were obtained from 5 of these locations. The parentage for each strain is reported in Table 43. Table 44 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 45 - 51.

**TABLE 43 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2002**

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. DILLON	Centennial x Young	
2. BOGGS	G81-152 x Coker 6738	
3. NC-ROY	Holladay x Brim	
4. Au99-1187	N92-612 x Boggs	
5. Au99-1472	Boggs x Haskell	
6. Au99-1849	SC91-2007 x Au90-585	
7. Au99-2006	SC91-2007 x Au90-585	
8. Au99-2890	SC90-2089 x Au90-585	
9. G99-2192	V91-3036 x Doles	F5d
10. G99-394	Cook x Manokin	F7d
11. G99-4158	S91-1381 x Benning	F7d
12. G99-59	Boggs x Cook	F7d
13. G99-753	Cook x Manokin	F7d
14. N94-7440	NTCPR90-143 x PEARL	F5
15. N96-6429	EBH91-6 x N89-1284	F5
16. N99-8126	N90-7199 x Graham	F5
17. N99-8137	N90-7199 x Graham	F5
18. N99-8150	N90-7199 x Graham	F5
19. R97-1832	Manokin x A6297	
20. R99-1554	N90-516 x R93-5455	
21. R99-1888	Md 92-5769 x P9641	
22. R99-2005	Md 92-5769 x P9641	
23. R99-541	KY 88-4080 x G89-2223	
24. SC00-1741	DILLON x N94-199	F5
25. SC00-883RR	BC3DILLON RR	F5
26. SC00-892RR	BC3DILLON RR	F5
27. SC95-96	BARC-8 x MD87L-1320	F7
28. VS20-394	[PI 159319 x ESSEX (2)] x [L76-0132 x Essex]	F6
29. VS20-402	[PI 159319 x ESSEX (2)] x [L76-0132 x Essex]	F6
30. VS20-405	[PI 96089 x ESSEX (2)] x [L76-0132 x Essex]	F6
31. VS20-406	[PI 96089 x ESSEX (2)] x [L76-0132 x Essex]	F6
32. VS20-412	[PI 159319 x ESSEX (2)] x [PI 96089 x Essex]	F6

**TABLE 44 ~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2002 ~ MEAN OF 5 LOCATIONS**

STRAIN/ VARIETY	SEED		AVG.	MAT.	LODGING	HEIGHT	QUALITY	SEED	----PERCENT----		STEM	SCN	SCN	SCN	FL	PUB.	POD
	YIELD	RANK	RANK	INDEX				SIZE	PROTEIN	OIL	CANKER	2	3	14	COLOR	COLOR	COLOR
DILLON	39.5	8	9	10/06	2.1	34	3.5	14.7	41.6	18.8	S	4.7	2.0	4.7	P	G	T
BOGGS	36.5	15	10	5+	2.2	36	3.0	14.3	41.7	19.9	R	4.4	1.0	2.9	W	T	T
NC-ROY	40.1	7	7	7+	2.1	34	3.0	13.8	42.3	19.1	S	4.7	1.0	3.0	W	G	T
Au99-1187	37.3	14	9	5-	2.1	29	3.5	14.2	38.5-	20.2+	MS	3.3	1.0	5.0	W	T	T
Au99-1472	28.6-	30	14	6-	2.5	35	3.5	16.2	42.4	19.8	MR	2.7	1.1	4.8	W	T	T
Au99-1849	41.2	4	6	3+	1.9	30	3.0	12.6	42.9	19.0	MR	5.0	1.8	4.6	P	T	T
Au99-2006	41.2	4	6	6+	2.1	35	3.5	13.1	42.0	19.7	R	4.3	2.0	4.2	W	G	T
Au99-2890	35.0	20	10	3+	2.1	33	3.5	14.4	41.4	18.9	R	4.7	1.0	4.1	P	G	T
G99-2192	41.1	6	7	4-	2.0	34	3.5	13.8	41.6	21.1+	S	4.5	1.9	4.0	W	T	T
G99-394	34.1	21	11	9+	1.9	36	3.0	17.3	42.7	19.2	MR	4.7	1.3	4.3	W	T	T
G99-4158	41.6	2	7	5+	1.8	32	3.5	14.9	41.0	19.0	R	1.8	1.0	3.9	W	T	T
G99-59	38.1	11	9	2+	2.1	40	3.5	15.5	41.9	19.0	R	5.0	1.0	4.3	P	T	T
G99-753	32.4-	25	12	6+	1.9	35	3.5	13.9	40.9	20.0	MR	5.0	1.6	3.8	W	T	T
N94-7440	30.4-	28	13	2+	1.7	30	3.5	8.6	43.2	17.5-	MR	4.9	5.0	4.1	W	G	T
N96-6429	33.7	23	11	5+	1.8	23	3.0	10.0	42.7	18.5	R	5.0	4.4	4.1	W	T	T
N99-8126	35.2	19	10	13+	1.9	32	3.0	14.1	40.2	19.4	S	5.0	5.0	4.8	P	G	BK
N99-8137	41.2	4	6	14+	2.2	30	3.5	14.6	42.2	19.4	R	5.0	5.0	4.7	P	G	BK
N99-8150	36.2	17	11	9+	2.2	30	3.0	13.1	39.5	20.4+	S	5.0	4.3	5.0	P	G	BK
R97-1832	34.0	22	10	7-	2.0	32	3.5	14.0	41.3	19.9	MS	4.7	1.0	3.9	W	S	T
R99-1554	37.4	13	10	3+	2.3	30	3.5	13.4	41.2	20.2+	R	4.3	1.0	4.4	P	G	T
R99-1888	44.0	1	7	2-	1.7	31	3.5	15.9	40.8	19.8	MS	4.4	4.3	4.1	P	T	T
R99-2005	38.5	10	9	2-	2.3	33	4.0	15.1	40.4	20.6+	R	4.9	4.3	4.6	P	T	T
R99-541	37.9	12	9	1-	2.1	30	3.5	13.4	42.6	20.2+	R	5.0	1.9	4.7	W	T	BR
SC00-1741	35.3	18	10	12+	1.8	34	3.5	14.2	43.9	18.6	S	5.0	2.0	4.8	P	G	T
SC00-883RR	36.4	16	10	12+	2.1	35	3.0	15.2	43.3	18.6	S	5.0	2.4	4.5	P	G	T
SC00-892RR	39.1	9	8	5+	1.9	37	3.0	16.1	42.0	18.8	R	4.7	2.1	4.3	P	G	T
SC95-96	28.0-	31	14	4+	1.9	38	3.5	15.1	50.1+	16.8-	S	5.0	4.7	4.3	W	T	T
VS20-394	32.1-	26	11	2-	1.9	35	3.0	15.3	41.8	19.8	R	5.0	1.0	3.9	P	T	T
VS20-402	30.9-	27	12	3-	2.1	33	3.0	11.5	42.2	18.3	MS	5.0	5.0	4.3	W	G	T
VS20-405	27.9-	32	15	4-	2.0	31	3.0	11.7	42.1	18.1	MS	5.0	4.9	3.2	W	G	T
VS20-406	32.6	24	13	1+	2.0	32	3.0	12.6	42.8	18.7	MS	4.4	3.6	4.5	P	G	T
VS20-412	29.9-	29	13	3+	2.3	33	3.0	11.7	42.2	19.1	MS	4.9	4.5	4.3	W	G	T
OVERALL MEAN	35.9								42.0	19.3							
LSD (.05)	7.0								2.3	1.2							
C. V.	16%								3%	4%							

**TABLE 45 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2002**

STRAIN/ VARIETY	BIXBY OK	PETERSBURG* VA	PLYMOUTH NC	ROWHER AR	STONEVILLE MS	STUTTGART AR	TALLASSEE* AL	MEAN
DILLON	25.4	27.8	30.3	29.1	50.4	62.3	19.8	39.5
BOGGS	26.4	34.4	23.5	31.0	45.1	56.5-	39.5+	36.5
NC-ROY	28.4	23.1	39.6	30.2	45.7	56.4-	25.1	40.1
Au99-1187	21.3	47.1+	41.7+	26.7	42.1-	54.4-	27.7	37.3
Au99-1472	22.5	35.6	15.9-	22.2	34.0-	48.3-	32.3+	28.6-
Au99-1849	32.4+	31.4	41.8+	34.5	37.2-	60.1	27.9	41.2
Au99-2006	30.9	30.8	36.2	34.6	44.0	60.1	28.2	41.2
Au99-2890	29.6	33.6	25.7	28.2	35.9-	55.7-	35.3+	35.0
G99-2192	34.0+	37.5+	23.6	42.2+	44.2	61.8	35.0+	41.1
G99-394	31.4	41.2+	23.5	33.3	27.5-	54.9-	34.0+	34.1
G99-4158	33.2+	37.8+	25.4	35.5	49.3	64.5	38.5+	41.6
G99-59	29.6	28.4	18.3-	33.5	46.0	63.0	32.1+	38.1
G99-753	30.0	34.3	28.5	29.5	21.7-	52.6-	29.2	32.4-
N94-7440	24.6	21.2	30.2	26.4	27.1-	43.6-	22.7	30.4-
N96-6429	22.1	22.7	40.0	24.4	31.1-	50.7-	13.2	33.7
N99-8126	27.3	19.2	27.2	30.3	38.4-	52.7-	21.1	35.2
N99-8137	29.7	21.7	36.1	35.6	43.2-	61.2	21.3	41.2
N99-8150	23.4	17.1-	22.1	29.6	47.9	57.8	19.7	36.2
R97-1832	28.1	30.6	30.1	25.1	44.0	42.7-	30.0	34.0
R99-1554	25.0	29.8	21.9	34.5	52.9	52.7-	11.7	37.4
R99-1888	27.1	22.6	52.8+	29.8	52.8	57.3	13.1	44.0
R99-2005	24.4	28.4	26.9	34.5	48.7	57.8	21.0	38.5
R99-541	24.6	34.1	24.0	36.1	45.1	59.9	14.9	37.9
SC00-1741	23.8	28.0	30.2	30.8	36.3-	55.6-	21.9	35.3
SC00-883RR	26.7	19.9	28.3	28.8	39.4-	58.8	22.1	36.4
SC00-892RR	20.8	28.2	35.3	32.0	46.1	61.6	26.5	39.1
SC95-96	24.3	34.1	23.0	20.5-	32.3-	39.8-	18.8	28.0-
VS20-394	24.0	25.9	29.1	25.3	37.3-	45.0-	35.4+	32.1-
VS20-402	23.5	20.9	29.1	18.7-	35.7-	47.3-	19.9	30.9-
VS20-405	17.7-	23.3	23.8	17.2-	34.8-	46.1-	22.1	27.9-
VS20-406	18.2-	25.7	24.0	21.0-	44.9	54.8-	21.0	32.6
VS20-412	24.8	20.6	27.0	16.0-	36.3-	45.6-	28.6	29.9-
L. S. D. (0.05)	6.1	9.6	10.0	7.4	7.1	5.4	11.4	7.0
C. V. (%)	14.4	19.9	16.9	15.6	8.5	6.0	21.5	15.5

\*Data not included in mean



**TABLE 46 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VI, 2002**

STRAIN/ VARIETY	BIXBY OK	PETERSBURG* VA	PLYMOUTH NC	STONEVILLE MS	MEAN
DILLON	17.1	18.7	17.7	21.7	18.8
BOGGS	17.4	19.3	19.7	22.5	19.9
NC-ROY	16.9	17.2	18.8	21.6	19.1
Au99-1187	18.6	19.3	19.6	22.4	20.2
Au99-1472	17.3	18.6	20.3	21.9	19.8
Au99-1849	17.7	17.5	17.6	21.6	19.0
Au99-2006	18.1	18.1	19.2	21.8	19.7
Au99-2890	17.4	17.4	17.7	21.6	18.9
G99-2192	18.6	18.9	21.1	23.7	21.1
G99-394	16.3	18.8	19.7	21.6	19.2
G99-4158	17.3	17.7	18.1	21.5	19.0
G99-59	18.2	18.6	17.8	20.9	19.0
G99-753	18.6	19.2	19.2	22.3	20.0
N94-7440	15.5	14.7	17.7	19.4	17.5
N96-6429	16.6	16.9	18.4	20.5	18.5
N99-8126	18.2	17.8	18.5	21.5	19.4
N99-8137	18.1	18.6	19.8	20.3	19.4
N99-8150	19.3	19.4	20.2	21.6	20.4
R97-1832	18.2	19.2	19.2	22.3	19.9
R99-1554	18.6	19.5	20.8	21.3	20.2
R99-1888	19.1	19.9	19.9	20.5	19.8
R99-2005	18.3	19.0	19.8	23.8	20.6
R99-541	17.5	18.8	19.3	23.7	20.2
SC00-1741	16.0	18.2	18.6	21.2	18.6
SC00-883RR	16.6	17.8	18.5	20.6	18.6
SC00-892RR	17.3	18.7	18.8	20.2	18.8
SC95-96	14.6	15.7	16.9	18.9	16.8
VS20-394	17.5	18.4	19.5	22.5	19.8
VS20-402	16.4	17.5	17.6	20.9	18.3
VS20-405	16.8	17.5	18.3	19.2	18.1
VS20-406	17.8	17.7	18.3	20.1	18.7
VS20-412	16.9	17.7	18.7	21.6	19.1

\*Data not included in mean

**TABLE 47 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VI, 2002**

STRAIN/ VARIETY	BI XBY OK	PETERSBURG* VA	PLYMOUTH NC	STONEVILLE MS	MEAN
DILLON	42.6	44.0	40.5	41.8	41.6
BOGGS	40.5	44.3	43.7	41.0	41.7
NC-ROY	42.7	43.1	43.8	40.5	42.3
Au99-1187	39.7	39.2	37.8	38.0	38.5
Au99-1472	41.8	41.5	42.7	42.8	42.4
Au99-1849	41.7	41.8	42.7	44.4	42.9
Au99-2006	41.6	43.3	42.4	42.0	42.0
Au99-2890	40.9	44.1	43.2	40.0	41.4
G99-2192	40.7	41.0	40.6	43.6	41.6
G99-394	43.1	41.4	43.0	41.9	42.7
G99-4158	39.8	41.6	42.2	40.9	41.0
G99-59	41.0	41.4	44.0	40.8	41.9
G99-753	38.7	41.3	41.3	42.6	40.9
N94-7440	42.5	45.5	44.7	42.4	43.2
N96-6429	41.5	42.7	42.6	44.0	42.7
N99-8126	41.8	42.9	40.6	38.2	40.2
N99-8137	40.3	42.2	40.3	45.9	42.2
N99-8150	38.1	42.8	39.4	41.1	39.5
R97-1832	42.4	43.4	40.1	41.5	41.3
R99-1554	41.4	43.0	41.5	40.6	41.2
R99-1888	41.3	40.4	39.3	41.9	40.8
R99-2005	42.6	43.3	39.0	39.5	40.4
R99-541	43.5	43.1	42.5	41.8	42.6
SC00-1741	44.2	44.6	45.2	42.4	43.9
SC00-883RR	43.2	44.3	43.6	43.0	43.3
SC00-892RR	42.2	43.5	41.3	42.4	42.0
SC95-96	50.9	50.8	49.1	50.3	50.1
VS20-394	41.4	42.6	42.7	41.2	41.8
VS20-402	42.3	45.1	43.4	40.9	42.2
VS20-405	42.1	45.1	43.0	41.2	42.1
VS20-406	41.9	44.7	42.9	43.5	42.8
VS20-412	40.7	44.2	42.5	43.5	42.2

\*Data not included in mean

**TABLE 48 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2002**

STRAIN/ VARIETY	BIXBY OK	PETERSBURG* VA	PLYMOUTH NC	MEAN
DILLON	13.7	15.0	15.7	14.7
BOGGS	13.0	13.0	15.6	14.3
NC-ROY	12.8	13.0	14.8	13.8
Au99-1187	12.9	14.0	15.4	14.2
Au99-1472	14.6	15.0	17.8	16.2
Au99-1849	11.3	12.0	13.9	12.6
Au99-2006	12.0	13.0	14.1	13.1
Au99-2890	14.2	13.0	14.5	14.4
G99-2192	12.6	13.0	14.9	13.8
G99-394	14.1	15.0	20.4	17.3
G99-4158	14.3	13.0	15.4	14.9
G99-59	13.8	14.0	17.1	15.5
G99-753	13.4	13.0	14.3	13.9
N94-7440	8.4	6.0	8.7	8.6
N96-6429	11.2	7.0	8.8	10.0
N99-8126	12.5	15.0	15.6	14.1
N99-8137	13.7	15.0	15.4	14.6
N99-8150	11.4	12.0	14.8	13.1
R97-1832	12.5	15.0	15.5	14.0
R99-1554	12.0	14.0	14.8	13.4
R99-1888	14.4	15.0	17.4	15.9
R99-2005	13.1	15.0	17.0	15.1
R99-541	11.2	13.0	15.6	13.4
SC00-1741	12.2	15.0	16.2	14.2
SC00-883RR	14.4	14.0	15.9	15.2
SC00-892RR	15.0	14.0	17.2	16.1
SC95-96	14.2	15.0	16.0	15.1
VS20-394	14.0	14.0	16.5	15.3
VS20-402	9.5	11.0	13.4	11.5
VS20-405	10.4	10.0	13.0	11.7
VS20-406	10.8	13.0	14.3	12.6
VS20-412	10.1	11.0	13.2	11.7

\*Data not included in mean

**TABLE 49 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN PRELIMINARY GROUP VI, 2002**

STRAIN/ VARIETY	BIXBY OK	PETERSBURG* VA	ROHWER AR	STONEVILLE MS	STUTTGART AR	TALLASSEE* AL	MEAN
DILLON	31	21	42	36	29	26	34
BOGGS	31	18	44	36	31	26	36
NC-ROY	36	27	46	24	31	26	34
Au99-1187	26	18	40	24	28	22	29
Au99-1472	31	22	42	36	31	32	35
Au99-1849	29	21	39	22	29	21	30
Au99-2006	35	23	43	26	37	34	35
Au99-2890	30	24	42	24	37	30	33
G99-2192	33	21	39	34	31	29	34
G99-394	31	31	42	32	38	35	36
G99-4158	30	27	42	24	32	28	32
G99-59	38	23	44	44	34	28	40
G99-753	35	26	41	30	34	36	35
N94-7440	32	23	38	20	29	20	30
N96-6429	23	19	30	18	22	9	23
N99-8126	32	23	38	28	31	31	32
N99-8137	31	20	41	20	27	28	30
N99-8150	32	18	40	22	28	24	30
R97-1832	30	22	44	28	27	27	32
R99-1554	27	17	37	30	25	24	30
R99-1888	30	19	39	30	27	27	31
R99-2005	27	20	40	34	30	24	33
R99-541	29	20	34	28	27	22	30
SC00-1741	31	26	43	30	32	28	34
SC00-883RR	34	25	41	30	35	30	35
SC00-892RR	30	23	47	36	34	27	37
SC95-96	37	24	44	32	38	29	38
VS20-394	32	22	42	30	34	29	35
VS20-402	32	17	41	28	30	26	33
VS20-405	27	25	41	28	28	26	31
VS20-406	27	22	44	30	25	26	32
VS20-412	29	21	43	30	29	27	33

\*Data not included in mean

**TABLE 50 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI,  
2002**

STRAIN/ VARIETY	BIXBY OK	PETERSBURG* VA	PLYMOUTH NC	ROHWER AR	STONEVILLE MS	STUTTGART AR	TALLASSEE* AL	MEAN
DILLON	1.0	1.0	5.0	1.3	2.0	1.0	1.0	2.1
BOGGS	1.0	1.0	5.0	1.0	2.0	2.0	1.0	2.2
NC-ROY	1.0	1.0	5.0	1.0	2.0	1.3	1.0	2.1
Au99-1187	1.0	1.0	5.0	1.0	2.0	1.3	1.0	2.1
Au99-1472	1.0	2.0	5.0	2.7	2.0	2.0	1.0	2.5
Au99-1849	1.0	1.0	4.0	1.0	2.0	1.3	1.0	1.9
Au99-2006	1.0	1.0	3.0	1.0	2.0	3.7	1.0	2.1
Au99-2890	2.0	1.0	4.0	1.0	2.0	1.7	1.0	2.1
G99-2192	1.0	1.0	4.0	1.3	2.0	1.7	1.0	2.0
G99-394	1.0	1.0	4.0	1.0	2.0	1.7	1.0	1.9
G99-4158	1.0	2.0	4.0	1.0	2.0	1.0	1.0	1.8
G99-59	1.0	1.0	4.0	1.7	2.0	1.7	1.0	2.1
G99-753	1.0	2.0	4.0	1.0	2.0	1.7	1.5	1.9
N94-7440	1.0	1.0	3.0	1.0	2.0	1.3	1.0	1.7
N96-6429	1.0	1.0	4.0	1.0	2.0	1.0	1.0	1.8
N99-8126	1.0	1.0	4.0	1.0	2.0	1.7	1.0	1.9
N99-8137	3.0	1.0	4.0	1.0	2.0	1.0	1.0	2.2
N99-8150	3.0	1.0	4.0	1.0	2.0	1.0	1.0	2.2
R97-1832	2.0	1.0	4.0	1.0	2.0	1.0	1.0	2.0
R99-1554	3.0	1.0	4.0	1.0	2.0	1.3	1.0	2.3
R99-1888	1.0	1.0	3.0	1.3	2.0	1.3	1.0	1.7
R99-2005	1.0	1.0	4.0	2.3	2.0	2.0	1.0	2.3
R99-541	1.0	1.0	5.0	1.0	2.0	1.3	1.0	2.1
SC00-1741	1.0	1.0	4.0	1.0	2.0	1.0	1.0	1.8
SC00-883RR	1.0	1.0	4.0	1.3	2.0	2.3	1.0	2.1
SC00-892RR	1.0	1.0	4.0	1.0	2.0	1.3	1.0	1.9
SC95-96	1.0	1.0	4.0	1.0	2.0	1.3	1.0	1.9
VS20-394	1.0	1.0	4.0	1.0	2.0	1.7	1.0	1.9
VS20-402	3.0	1.0	3.0	1.0	2.0	1.3	1.0	2.1
VS20-405	2.0	1.0	4.0	1.0	2.0	1.0	1.0	2.0
VS20-406	2.0	1.0	4.0	1.0	2.0	1.0	1.0	2.0
VS20-412	3.0	1.0	4.0	1.3	2.0	1.0	1.5	2.3

\*Data not included in mean

**TABLE 51 ~ SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VI, 2002**

STRAIN/ VARIETY	PETERSBURG* VA	PLYMOUTH NC	STONEVILLE MS	MEAN
DILLON	1.0	4.0	3.0	3.5
BOGGS	2.0	3.0	3.0	3.0
NC-ROY	1.0	3.0	3.0	3.0
Au99-1187	2.0	4.0	3.0	3.5
Au99-1472	2.0	4.0	3.0	3.5
Au99-1849	2.0	3.0	3.0	3.0
Au99-2006	2.0	4.0	3.0	3.5
Au99-2890	2.0	4.0	3.0	3.5
G99-2192	2.0	4.0	3.0	3.5
G99-394	2.0	3.0	3.0	3.0
G99-4158	2.0	4.0	3.0	3.5
G99-59	3.0	4.0	3.0	3.5
G99-753	2.0	4.0	3.0	3.5
N94-7440	1.0	4.0	3.0	3.5
N96-6429	1.0	3.0	3.0	3.0
N99-8126	2.0	3.0	3.0	3.0
N99-8137	2.0	4.0	3.0	3.5
N99-8150	2.0	3.0	3.0	3.0
R97-1832	2.0	4.0	3.0	3.5
R99-1554	3.0	4.0	3.0	3.5
R99-1888	2.0	4.0	3.0	3.5
R99-2005	3.0	5.0	3.0	4.0
R99-541	2.0	4.0	3.0	3.5
SC00-1741	3.0	4.0	3.0	3.5
SC00-883RR	2.0	3.0	3.0	3.0
SC00-892RR	2.0	3.0	3.0	3.0
SC95-96	2.0	4.0	3.0	3.5
VS20-394	2.0	3.0	3.0	3.0
VS20-402	2.0	3.0	3.0	3.0
VS20-405	1.0	3.0	3.0	3.0
VS20-406	2.0	3.0	3.0	3.0
VS20-412	1.0	3.0	3.0	3.0

\*Data not included in mean

## UNIFORM GROUP VII

2002

Uniform Group VII nurseries were planted at 14 locations. Data were obtained from 11 of these locations. The parentage for each strain is reported in Table 52. Table 53 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 54 - 59.

**TABLE 52 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VII, 2002**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	Hutcheson x Coker 6738	
2. HASKELL	Johnston x Braxton	
3. Au96-1693	N90-1085 x D87-4429	
4. G96-2272	DPL3776 x G86-1267	F4d
5. G98-1420	Boggs x Doles	F5d
6. G98-3157	Brim x D87-4429	F7d
7. G98-3520	Doles x Haskell	F7d
8. N97-9599	N90-7199 x COOK	F5
9. N97-9658	N90-7199 x COOK	F5
10. N97-9693	N90-7199 x COOK	F5
11. SC96-1476	SC89-181 x SC84-931	F5
12. SC96-1628	SC89-181 x NK' S S75-55	F5
13. SC98-1063	SC89-147 x G93-9223	F5
14. SC98-318	HUTCHESON x SC89-551	F6
15. SC98-353	SC89-181 x DOLES	F6



**TABLE 53 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2002**

STRAIN/ VARIETY	RANK 2002	AVERAGE RANK 2002	YIELD*			PROTEIN			OIL		
			2002	01-02	00-02	2002	01-02	00-02	2002	01-02	00-02
BENNING	10	8	37.9	42.6	41.8	39.4	39.5	40.3	20.4	20.8	20.6
HASKELL	14	10	37.1	42.5	41.7	39.6	39.1	39.3	19.6	20.1	20.1
Au96-1693	13	10	37.3	43.0	42.5	44.7	43.1	43.4	19.5	19.5	19.2
G96-2272	5	8	39.1	44.4	.	40.7	39.8	.	19.9	20.3	.
G98-1420	6	7	39.0	.	.	39.6	.	.	20.9	.	.
G98-3157	7	9	39.0	.	.	42.0	.	.	20.6	.	.
G98-3520	9	10	38.0	.	.	38.4	.	.	20.2	.	.
N97-9599	12	9	37.4	42.7	.	40.0	39.5	.	19.2	20.2	.
N97-9658	1	4	42.1	46.9	.	40.4	40.0	.	19.7	20.1	.
N97-9693	2	5	42.0	.	.	39.5	.	.	20.4	.	.
SC96-1476	3	6	40.3	44.3	44.2	40.1	39.3	40.0	19.7	20.0	19.6
SC96-1628	4	6	39.7	44.0	43.2	40.8	40.5	40.9	20.7	20.6	20.2
SC98-1063	8	9	38.2	.	.	40.8	.	.	19.4	.	.
SC98-318	11	8	37.6	.	.	39.5	.	.	19.7	.	.
SC98-353	15	12	33.9	.	.	40.2	.	.	19.6	.	.

\*Data not included in mean: 2001 - Florence, SC

TABLE 53 ~ Continued

<b>BOTANICAL TRAITS</b>					
STRAIN/ VARIETY	MAT. INDEX	LODGING	SEED HEIGHT	SEED QUALITY	SIZE
BENNING	10/24	1.8	30	2.6	16.8
HASKELL	4+	2.1	32	2.5	17.5
Au96-1693	5+	1.7	34	2.1	16.3
G96-2272	1+	1.4	33	2.7	14.1
G98-1420	0	1.7	32	2.8	14.7
G98-3157	2+	2.0	36	2.4	16.9
G98-3520	1-	1.9	33	2.9	13.7
N97-9599	6+	1.6	33	2.8	17.3
N97-9658	6+	1.4	30	2.7	15.2
N97-9693	7+	1.5	30	2.6	17.3
SC96-1476	3+	1.7	32	2.9	14.6
SC96-1628	5+	1.8	35	2.5	15.7
SC98-1063	2+	1.6	32	2.4	15.3
SC98-318	3+	1.2	28	2.6	16.1
SC98-353	0	1.2	29	2.5	11.3

TABLE 53 ~ Continued

## PEST REACTIONS

STRAIN/ VARIETY	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER
BENNING	4.1	1.3	5.0	1.0	2.0	R	R
HASKELL	4.6	4.4	4.7	1.3	2.3	S	R
Au96-1693	4.7	4.9	4.5	5.0	4.5	S	MS
G96-2272	4.4	1.0	4.7	1.0	3.0	S	R
G98-1420	5.0	1.2	4.3	2.0	3.0	R	R
G98-3157	4.5	1.5	4.8	4.8	4.5	R	MS
G98-3520	4.8	1.0	3.0	1.5	2.5	S	MS
N97-9599	5.0	4.6	3.6	5.0	3.8	R	MS
N97-9658	4.5	5.0	2.9	1.8	4.3	R	MS
N97-9693	4.7	4.3	4.1	5.0	3.3	R	MR
SC96-1476	4.6	1.0	4.7	2.0	4.3	R	MR
SC96-1628	4.4	1.0	4.9	1.3	4.3	S	MR
SC98-1063	4.6	1.0	3.6	2.0	3.8	R	MS
SC98-318	4.4	1.3	4.0	2.0	4.3	R	MR
SC98-353	4.7	1.6	4.7	1.0	4.3	R	R

**TABLE 54 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY  
GROWN IN UNIFORM GROUP VII, 2002**

STRAIN/ VARIETY	EAST		MEAN
	FLORENCE SC	KINSTON NC	
BENNING	43.8	34.7	39.3
HASKELL	41.6	32.3	36.9
Au96-1693	40.4	32.6	36.5
G96-2272	39.6	28.3	34.0
G98-1420	39.8	35.6	37.7
G98-3157	43.9	29.5	36.7
G98-3520	39.5	45.1	42.3
N97-9599	41.7	32.3	37.0
N97-9658	47.8	34.7	41.3
N97-9693	45.8	41.2	43.5
SC96-1476	47.4	31.0	39.2
SC96-1628	45.6	34.6	40.1
SC98-1063	43.6	35.0	39.3
SC98-318	46.0	39.8	42.9
SC98-353	38.9	29.2	34.0
L. S. D. (0.05)	5.8	9.0	.
C. V. (%)	8.0	15.6	.

TABLE 54 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACK- VILLE SC(A)	BLACK- VILLE SC(B)	CALHOUN GA	FAIR- HOPE AL	MIDVILLE GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	46.1	37.8	36.9	32.0	18.2	48.1	34.5	34.8	50.1	37.6
HASKELL	40.5	35.9	44.9	33.2	15.5	54.8	37.1	33.1	39.2	37.1
Au96-1693	47.2	37.1	38.6	28.1	16.4	58.6	39.9	34.0	37.0	37.4
G96-2272	49.4	41.9	39.8	25.1	24.5	52.8	41.0	42.0	45.7	40.3
G98-1420	50.7	43.4	43.7	28.7	17.8	38.2	35.9	44.4	51.2	39.3
G98-3157	44.0	39.1	41.6	31.1	14.3	60.4	37.0	44.5	43.1	39.5
G98-3520	43.0	37.8	39.3	31.3	14.4	46.1	34.8	41.8	44.6	37.0
N97-9599	46.2	43.9	47.0	32.5	12.3	49.0	35.0	28.6	42.8	37.5
N97-9658	45.0	42.2	45.6	35.7	20.7	64.7	37.9	39.8	49.0	42.3
N97-9693	51.1	38.1	47.3	32.5	15.3	56.4	45.9	42.4	45.6	41.6
SC96-1476	45.7	43.9	44.5	33.7	13.6	46.6	41.7	47.9	47.4	40.6
SC96-1628	44.6	41.9	42.1	33.6	18.9	48.6	37.8	40.8	48.6	39.6
SC98-1063	41.4	41.1	38.7	28.5	15.6	50.6	34.1	40.1	51.3	37.9
SC98-318	49.4	37.5	33.1	27.8	16.6	34.0	36.1	45.7	47.2	36.4
SC98-353	44.3	31.8	36.5	31.0	15.5	41.0	23.0	36.5	45.7	33.9
L. S. D. (0.05)	7.4	5.6	5.5	9.1	3.2	4.8	7.8	10.9	6.4	.
C. V. (%)	9.6	8.5	7.9	17.6	11.4	5.8	12.4	16.4	8.4	.

**TABLE 55 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2002**

**OIL PERCENTAGES**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	CALHOUN GA	FLORENCE SC	KINSTON NC	MIDVILLE GA	TIFTON GA	MEAN
BENNING	21.3	19.6	21.0	.	20.9	19.2	20.1	.	20.4
HASKELL	19.5	19.0	21.4	.	20.8	17.3	19.8	.	19.6
Au96-1693	19.3	18.8	20.8	.	20.4	18.5	19.3	.	19.5
G96-2272	19.9	18.5	19.7	.	21.3	19.7	20.3	.	19.9
G98-1420	21.3	20.7	22.0	.	21.3	18.5	21.7	.	20.9
G98-3157	20.5	19.6	22.6	.	21.5	18.5	21.0	.	20.6
G98-3520	20.4	19.2	21.8	.	21.3	18.3	.	.	20.2
N97-9599	19.7	18.7	20.5	.	19.6	17.8	18.7	.	19.2
N97-9658	19.6	18.8	20.7	.	20.3	18.7	19.9	.	19.7
N97-9693	20.9	19.0	21.6	.	21.2	18.7	21.2	.	20.4
SC96-1476	20.0	18.3	20.5	.	20.7	18.0	20.7	.	19.7
SC96-1628	21.1	19.8	21.9	.	21.4	19.1	20.9	.	20.7
SC98-1063	19.0	19.8	20.7	.	20.4	18.0	18.7	.	19.4
SC98-318	19.8	18.3	19.9	.	20.8	19.2	20.4	.	19.7
SC98-353	21.1	17.8	20.6	.	20.1	18.6	19.6	.	19.6

**PROTEIN PERCENTAGES**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	CALHOUN GA	FLORENCE SC	KINSTON NC	MIDVILLE GA	TIFTON GA	MEAN
BENNING	37.9	38.2	39.5	.	40.4	40.7	39.8	.	39.4
HASKELL	40.8	38.2	38.1	.	40.4	39.1	40.8	.	39.6
Au96-1693	45.0	45.5	42.3	.	44.9	46.0	44.2	.	44.7
G96-2272	40.3	38.7	41.3	.	42.0	41.3	40.8	.	40.7
G98-1420	37.0	38.0	39.8	.	41.3	40.5	40.7	.	39.6
G98-3157	41.4	41.4	40.5	.	42.1	42.8	43.5	.	42.0
G98-3520	36.9	38.1	38.0	.	40.9	38.2	.	.	38.4
N97-9599	39.0	40.3	38.5	.	40.0	41.6	40.3	.	40.0
N97-9658	40.3	40.0	39.8	.	40.5	41.3	40.6	.	40.4
N97-9693	39.0	38.7	38.1	.	39.4	43.0	38.9	.	39.5
SC96-1476	39.4	39.5	39.4	.	41.7	41.3	39.2	.	40.1
SC96-1628	39.3	39.6	39.6	.	41.1	42.3	42.6	.	40.8
SC98-1063	40.4	38.3	40.4	.	41.2	42.2	42.1	.	40.8
SC98-318	37.5	39.1	40.6	.	39.7	39.2	40.6	.	39.5
SC98-353	37.5	37.9	41.0	.	41.3	42.0	41.3	.	40.2

TABLE 55 ~ Continued

## GRAMS PER 100 SEED

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	CALHOUN GA	FLORENCE SC	KINSTON NC	MIDVILLE GA	TIFTON GA	MEAN
BENNING	15.9	15.6	15.9	16.8	18.0	17.8	14.8	19.2	16.8
HASKELL	18.4	17.8	17.3	17.3	16.6	17.0	16.6	18.6	17.5
Au96-1693	17.4	16.2	15.8	15.5	17.3	16.5	14.8	17.1	16.3
G96-2272	14.6	12.8	15.5	15.0	15.0	13.6	11.9	14.7	14.1
G98-1420	14.4	14.1	14.9	14.6	15.1	15.6	12.3	16.8	14.7
G98-3157	18.5	16.7	16.6	17.1	17.3	17.1	15.0	16.6	16.9
G98-3520	13.7	13.0	13.7	12.9	14.6	14.3	11.8	15.4	13.7
N97-9599	17.7	16.6	17.6	15.5	18.3	18.5	15.8	18.7	17.3
N97-9658	15.4	14.4	16.4	14.6	16.0	14.0	13.8	16.7	15.2
N97-9693	17.9	17.2	17.3	16.2	18.2	18.1	15.5	17.7	17.3
SC96-1476	13.7	13.8	14.7	12.9	16.4	15.8	13.8	15.9	14.6
SC96-1628	15.0	14.1	15.6	14.9	15.9	16.9	15.0	18.4	15.7
SC98-1063	15.9	13.8	14.4	13.6	15.9	15.5	14.5	18.5	15.3
SC98-318	15.7	13.8	17.6	16.4	16.3	15.9	14.0	19.2	16.1
SC98-353	10.7	10.4	10.8	11.5	11.6	12.7	9.6	13.2	11.3

**TABLE 56 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BENNING, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2002**

STRAIN/ VARIETY	EAST		MEAN
	FLORENCE SC	KINSTON NC	
BENNING	10/24	10/30	10/27
HASKELL	1	0	1
Au96-1693	2	2	2
G96-2272	-1	2	0
G98-1420	0	0	0
G98-3157	0	5	3
G98-3520	0	0	0
N97-9599	9	5	7
N97-9658	9	5	7
N97-9693	7	5	6
SC96-1476	3	5	4
SC96-1628	3	5	4
SC98-1063	3	3	3
SC98-318	5	3	4
SC98-353	1	0	0



TABLE 56 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACK- VILLE SC(A)	BLACK- VILLE SC(B)	CALHOUN GA	FAIR- HOPE AL	MIDVILLE GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	10/29	11/05	10/29	.	10/21	10/15	.	10/21	10/14	10/24
HASKELL	4	0	4	.	4	5	.	7	5	4
Au96-1693	4	3	7	.	8	7	.	7	1	5
G96-2272	2	0	5	.	-1	3	.	0	-1	1
G98-1420	-4	1	4	.	5	-1	.	-6	-5	-1
G98-3157	-1	1	1	.	5	3	.	0	6	2
G98-3520	-1	-1	-1	.	-1	0	.	0	-4	-2
N97-9599	4	2	5	.	8	5	.	7	6	5
N97-9658	4	3	6	.	5	7	.	7	8	5
N97-9693	4	3	6	.	13	5	.	7	10	6
SC96-1476	-1	0	1	.	4	2	.	7	2	2
SC96-1628	3	3	2	.	10	5	.	7	5	5
SC98-1063	1	-1	0	.	0	3	.	0	4	0
SC98-318	3	-1	4	.	4	-3	.	7	-2	1
SC98-353	-4	-1	1	.	-1	-1	.	0	-1	-2

**TABLE 57 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VII, 2002**

STRAIN/ VARIETY	EAST		MEAN
	FLORENCE SC	KINSTON NC	
BENNING	28	33	30
HASKELL	27	33	30
Au96-1693	28	40	34
G96-2272	32	38	35
G98-1420	26	37	32
G98-3157	33	40	37
G98-3520	30	36	33
N97-9599	29	36	33
N97-9658	26	34	30
N97-9693	25	34	29
SC96-1476	27	36	31
SC96-1628	32	37	34
SC98-1063	30	35	32
SC98-318	25	34	30
SC98-353	24	34	29

TABLE 57 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACK- VILLE SC(A)	BLACK- VILLE SC(B)	CALHOUN GA	FAIR- HOPE AL	MIDVILLE GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	40	23	27	24	40	33	27	29	31	30
HASKELL	41	27	29	26	39	32	30	31	32	32
Au96-1693	41	28	25	27	44	36	32	34	35	33
G96-2272	43	25	26	25	45	35	32	29	33	33
G98-1420	40	26	30	26	39	35	29	30	37	32
G98-3157	43	28	33	30	45	35	33	38	37	36
G98-3520	43	27	30	24	45	32	27	34	40	34
N97-9599	41	28	29	26	37	34	30	30	37	33
N97-9658	39	24	26	29	40	30	25	28	34	31
N97-9693	35	24	28	26	38	31	29	30	35	31
SC96-1476	41	27	27	26	43	33	26	34	31	32
SC96-1628	43	28	29	26	45	36	37	34	39	35
SC98-1063	39	28	28	23	39	33	28	30	39	32
SC98-318	34	23	22	21	34	29	26	29	30	27
SC98-353	35	21	25	23	40	31	25	28	30	29

**TABLE 58 ~ PLANT LODGING FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VII, 2002**

STRAIN/ VARIETY	EAST		MEAN
	FLORENCE SC	KINSTON NC	
BENNING	2.3	2.8	2.6
HASKELL	3.0	3.3	3.2
Au96-1693	3.0	2.0	2.5
G96-2272	2.0	2.3	2.2
G98-1420	2.0	2.3	2.2
G98-3157	3.0	2.3	2.7
G98-3520	2.7	2.2	2.4
N97-9599	2.0	3.0	2.5
N97-9658	1.7	1.8	1.8
N97-9693	2.0	2.0	2.0
SC96-1476	2.3	2.5	2.4
SC96-1628	2.7	1.5	2.1
SC98-1063	2.0	2.3	2.2
SC98-318	1.7	1.5	1.6
SC98-353	1.0	1.5	1.3

TABLE 58 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(A)	BLACKVILLE SC(B)	CALHOUN GA	MIDVILLE GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	3.0	1.3	1.0	1.3	2.3	2.0	1.0	1.0	1.6
HASKELL	2.7	2.0	2.0	1.3	2.3	2.3	1.0	1.0	1.8
Au96-1693	2.3	2.0	1.0	1.3	1.7	2.0	1.0	1.0	1.5
G96-2272	2.0	1.3	1.0	1.0	1.3	1.3	1.0	1.0	1.3
G98-1420	2.3	1.7	1.3	1.0	2.0	2.3	1.0	1.0	1.6
G98-3157	2.3	2.0	2.3	2.0	1.7	2.0	1.0	1.0	1.8
G98-3520	2.3	2.0	1.7	1.0	2.7	2.5	1.0	1.0	1.8
N97-9599	2.3	1.7	1.0	1.0	1.0	1.7	1.0	1.0	1.3
N97-9658	2.3	1.0	1.0	1.0	1.0	2.3	1.0	1.0	1.3
N97-9693	1.7	1.3	1.3	1.0	1.0	2.3	1.0	1.0	1.3
SC96-1476	2.3	2.0	1.0	1.0	2.0	2.0	1.0	1.0	1.5
SC96-1628	2.7	2.0	1.7	1.3	2.0	1.7	1.0	1.0	1.7
SC98-1063	2.0	2.0	1.3	1.0	2.0	1.7	1.0	1.0	1.5
SC98-318	1.7	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.1
SC98-353	2.0	1.0	1.0	1.0	1.7	1.0	1.0	1.0	1.2

**TABLE 59 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VII, 2002**

STRAIN/ VARIETY	EAST
	KINSTON NC
BENNING	2.5
HASKELL	2.5
Au96-1693	2.0
G96-2272	2.5
G98-1420	2.5
G98-3157	1.5
G98-3520	2.0
N97-9599	2.0
N97-9658	2.0
N97-9693	2.0
SC96-1476	2.5
SC96-1628	2.0
SC98-1063	2.0
SC98-318	2.0
SC98-353	2.0

TABLE 59 ~ Continued

STRAIN/ VARIETY	SOUTH				MEAN
	ATHENS GA(A)	ATHENS GA(B)	MIDVILLE GA	TIFTON GA	
BENNING	3.0	1.8	3.7	2.0	2.6
HASKELL	2.8	2.0	3.7	1.7	2.5
Au96-1693	2.3	1.7	2.5	2.0	2.1
G96-2272	3.2	2.0	3.7	2.0	2.7
G98-1420	3.3	2.2	3.5	2.7	2.9
G98-3157	2.3	2.2	3.7	2.3	2.6
G98-3520	3.3	2.5	4.0	2.7	3.1
N97-9599	3.0	2.2	3.7	3.0	3.0
N97-9658	2.8	2.0	3.7	3.0	2.9
N97-9693	2.5	2.0	3.7	2.7	2.7
SC96-1476	3.2	2.2	3.8	2.7	3.0
SC96-1628	2.8	2.0	3.5	2.3	2.7
SC98-1063	2.7	2.0	3.0	2.3	2.5
SC98-318	2.5	1.8	3.5	3.0	2.7
SC98-353	2.7	2.0	3.8	2.0	2.6

## PRELIMINARY GROUP VII

2002

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



**TABLE 60 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2002**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	Hutcheson x Coker 6738	
2. G99-G6682 (HASKELL-RR)	Haskell ( ) x RR	
3. Au99-1861	SC91-2007 x Au90-585	
4. Au99-2001	SC91-2007 x Au90-585	
5. Au99-2729	N92-727 x Au90-585	
6. Au99-3255	N93-132 x Au90-585	
7. Au99-3729	SC91-2007 x N92-598	
8. G99-1214	G91-2244 x Benni ng	F5d
9. G99-2604	Pri chard x NKS75-55	F5d
10. G99-2678	Pri chard x NKS75-55	F5d
11. G99-2721	Pri chard x NKS75-55	F5d
12. G99-2894	Pri chard x NKS75-55	F5d
13. G99-2982	Pri chard x NKS75-55	F5d
14. G99-3081	Pri chard x NKS75-55	F5d
15. N00-363	Au92-916 x N90-845	F5
16. N00-370	Au92-916 x N90-845	F5
17. N00-377	Au92-916 x N90-845	F5
18. N00-483	Cl i fford x N94-696	F5
19. N90-7199	N77-114 x PI 416937	F5
20. N96-6809	N90-7202 x N90-7199	F5
21. N99-8216	Cl i fford x N6201	F5
22. SC00-947RR	BC3MUSEN RR	F5
23. SC00-948RR	BC3MUSEN RR	F5
24. SC97-2010	SC89-181 x PEARL	F5
25. SC97-2074	SC89-181 x PEARL	F5
26. SC99-279	V88-494 x BENNING	F5
27. SC99-356	V88-494 x BENNING	F5
28. SC99-605	SC89-147 x G89-2223	F5

**TABLE 61 ~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2002 ~ MEAN OF 5 LOCATIONS**

STRAIN/ VARIETY	SEED		AVG.	MAT.					SEED		----PERCENT----		STEM	SCN	SCN	SCN	FL	PUB.	POD
	YIELD	RANK	RANK	INDEX	LODGING	HEIGHT	QUALITY	SIZE	PROTEIN	OIL	CANKER	2	3	14	COLOR	COLOR	COLOR		
BENNING	40.4	12	6	10/26	1.6	32	3.3	17.2	40.9	20.7	R	4.8	1.2	4.5	P	T	T		
G99-G6682RR	38.2	18	8	4+	1.9	36	2.9	16.5	40.1	19.5-	R	5.0	1.4	3.9	P	T	T		
Au99-1861	37.9	19	8	0	1.6	37	3.3	16.3	42.1	20.2	R	4.7	1.1	3.7	P	G	T		
Au99-2001	38.7	16	7	4-	1.6	28	3.7	17.8	38.7-	21.2	S	5.0	2.0	2.8	W	T	T		
Au99-2729	41.9	8	6	2-	1.6	30	3.4	15.1	39.7	20.7	R	5.0	1.1	1.9	P	S	T		
Au99-3255	36.8	22	8	5-	1.9	30	3.3	14.6	40.1	20.9	R	5.0	5.0	2.9	W	T	T		
Au99-3729	40.7	11	6	1-	1.7	34	3.4	19.3	40.5	21.7	S	4.9	1.3	3.3	W	T	T		
G99-1214	40.0	13	7	0	1.8	35	3.5	15.1	40.6	20.4	R	4.9	1.0	3.7	P	T	T		
G99-2604	42.4	7	5	1+	1.7	34	3.5	17.2	42.2	20.3	R	4.9	1.3	3.7	W	T	T		
G99-2678	45.3	2	4	2+	1.9	35	3.3	16.8	40.6	20.0	R	4.7	1.0	2.3	W	T	T		
G99-2721	43.3	5	5	2+	1.7	34	2.8	15.9	40.8	20.0	R	5.0	1.0	4.3	P	T	T		
G99-2894	41.4	10	6	2+	1.6	32	3.2	15.9	43.2+	19.3-	R	4.8	1.0	4.4	P	G	T		
G99-2982	42.5	6	6	1+	1.7	30	2.8	16.1	43.4+	19.7	R	5.0	1.0	4.2	W	T	T		
G99-3081	41.4	10	6	2-	1.8	31	3.7	16.2	41.6	19.1-	R	4.8	1.1	3.9	W	T	T		
N00-363	37.0	21	8	7+	2.5	31	3.5	18.4	38.8-	20.8	R	5.0	4.2	4.1	P	G	T		
N00-370	46.1	1	4	1-	2.0	31	3.5	18.6	40.5	21.2	S	4.7	5.0	4.7	P	G	T		
N00-377	44.8	3	5	9+	1.5	29	2.8	18.7	41.2	19.4-	R	4.7	5.0	4.1	P	G	T		
N00-483	29.9-	28	11	1-	1.6	29	3.2	20.4	40.3	20.4	S	5.0	4.4	5.0	P	T	BR		
N90-7199	38.7	16	7	3+	1.7	26	3.3	16.7	39.5	19.7	MS	4.8	4.6	4.5	P	G	BR		
N96-6809	38.7	16	7	2+	1.8	28	3.2	15.3	38.9-	20.6	MS	5.0	4.4	4.6	P	G	BR		
N99-8216	32.7	26	9	8-	2.1	35	3.8	22.5	41.3	20.0	S	5.0	3.6	4.2	P	G	T		
SC00-947RR	35.8	25	9	1-	1.7	34	3.2	13.8	42.4	19.5-	R	5.0	2.1	3.7	W	G	T		
SC00-948RR	37.4	20	8	1-	1.4	28	2.7	13.0	41.7	18.9-	R	5.0	1.0	4.0	W	G	T		
SC97-2010	38.8	14	8	3+	1.6	32	3.4	9.7	41.0	18.4-	R	4.8	1.0	4.3	W	G	T		
SC97-2074	32.4	27	10	1+	1.6	28	3.0	10.1	39.9	19.9	R	4.4	4.4	2.7	W	G	T		
SC99-279	36.2	23	8	6+	1.9	36	3.1	18.3	40.5	20.7	MR	4.7	4.6	4.4	P	G	T		
SC99-356	35.8	25	8	1+	1.7	34	3.3	16.3	41.0	20.1	MR	4.5	4.8	4.6	P	T	T		
SC99-605	44.6	4	5	1-	2.0	31	3.3	15.7	40.7	19.5-	MR	4.2	1.0	4.9	W	G	T		
OVERALL MEAN	39.3								40.8	20.1									
LSD (.05)	8.1								1.8	1.1									
C. V.	16%								3%	4%									

**TABLE 62 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2002**

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JACKSON SPRINGS NC	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	41.4	52.3	30.3	41.3	36.7	40.4
G99-G6682RR	34.4	54.0	36.6	38.5	27.7	38.2
Au99-1861	40.1	55.3	29.8	38.5	25.6-	37.9
Au99-2001	34.7	38.9-	41.0+	49.7+	29.3	38.7
Au99-2729	39.1	48.7	39.3+	43.8	38.6	41.9
Au99-3255	33.9	53.8	28.8	43.4	24.3-	36.8
Au99-3729	40.9	52.6	36.5	42.0	31.3	40.7
G99-1214	45.6	58.0	34.8	24.1-	37.4	40.0
G99-2604	45.9	51.8	31.7	40.5	42.4	42.4
G99-2678	50.9	53.6	39.3+	38.9	43.6	45.3
G99-2721	48.5	55.5	40.3+	26.9-	45.6	43.3
G99-2894	43.2	51.4	30.8	31.2-	50.4+	41.4
G99-2982	46.6	54.8	36.4	27.1-	47.5+	42.5
G99-3081	45.3	46.7	40.0+	39.2	35.7	41.4
N00-363	29.0-	51.2	27.7	46.0	31.1	37.0
N00-370	41.6	54.5	49.0+	57.7+	27.7	46.1
N00-377	44.7	62.8	38.5+	49.2+	29.1	44.8
N00-483	27.4-	42.3	24.1	34.6-	21.3-	29.9-
N90-7199	42.1	49.2	33.3	39.0	29.8	38.7
N96-6809	40.5	47.6	34.2	44.8	26.6	38.7
N99-8216	37.1	36.2-	36.5	42.0	11.7-	32.7
SC00-947RR	31.0-	52.5	28.5	38.7	28.4	35.8
SC00-948RR	38.9	44.7	29.0	36.2-	38.4	37.4
SC97-2010	38.5	52.9	29.7	35.7-	36.9	38.8
SC97-2074	35.9	35.0-	28.2	38.5	24.6-	32.4
SC99-279	42.2	53.7	35.6	25.7-	24.2-	36.2
SC99-356	41.0	51.6	30.2	38.4	18.1-	35.8
SC99-605	44.0	57.1	36.9	46.6+	38.7	44.6
L. S. D. (0.05)	9.8	11.7	7.9	5.0	10.7	8.1
C. V. (%)	11.9	11.3	11.3	6.2	16.2	16.4

**TABLE 63 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VII, 2002**

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JACKSON SPRINGS NC	STONEVILLE MS	MEAN
BENNING	20.7	20.4	20.0	21.6	20.7
G99-G6682RR	19.7	20.2	17.9	20.2	19.5
Au99-1861	19.4	20.9	19.1	21.3	20.2
Au99-2001	19.4	20.7	20.8	23.9	21.2
Au99-2729	20.6	19.2	19.8	23.0	20.7
Au99-3255	20.9	20.8	19.4	22.3	20.9
Au99-3729	21.4	21.9	20.0	23.3	21.7
G99-1214	20.1	19.8	19.4	22.4	20.4
G99-2604	20.8	20.2	18.8	21.3	20.3
G99-2678	20.4	20.3	18.4	21.0	20.0
G99-2721	20.7	20.4	18.9	20.0	20.0
G99-2894	19.7	19.0	18.0	20.6	19.3
G99-2982	19.2	19.8	18.9	20.9	19.7
G99-3081	19.8	17.5	18.8	20.3	19.1
N00-363	20.7	20.3	19.7	22.4	20.8
N00-370	20.3	21.7	20.8	21.9	21.2
N00-377	20.1	20.1	18.6	18.9	19.4
N00-483	20.6	20.3	18.5	22.0	20.4
N90-7199	19.7	20.4	19.6	19.2	19.7
N96-6809	20.4	21.1	19.6	21.3	20.6
N99-8216	20.2	19.2	19.3	21.2	20.0
SC00-947RR	19.9	19.4	18.5	20.1	19.5
SC00-948RR	19.7	18.9	19.0	17.9	18.9
SC97-2010	18.4	18.2	18.0	19.0	18.4
SC97-2074	19.7	20.2	18.6	20.9	19.9
SC99-279	19.8	20.6	18.3	24.1	20.7
SC99-356	19.5	19.9	19.8	21.0	20.1
SC99-605	19.7	19.3	18.5	20.5	19.5

**TABLE 64 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VII, 2002**

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JACKSON SPRINGS NC	STONEVILLE MS	MEAN
BENNING	38.5	40.8	42.1	42.0	40.9
G99-G6682RR	40.5	40.1	40.2	39.7	40.1
Au99-1861	40.5	41.5	42.6	43.7	42.1
Au99-2001	39.2	39.6	38.4	37.7	38.7
Au99-2729	39.3	40.4	40.5	38.7	39.7
Au99-3255	40.2	41.9	41.8	36.5	40.1
Au99-3729	39.8	40.0	41.7	40.3	40.5
G99-1214	36.7	40.0	40.5	45.1	40.6
G99-2604	40.6	43.5	44.3	40.4	42.2
G99-2678	38.8	40.7	40.2	42.6	40.6
G99-2721	37.8	40.4	41.5	43.3	40.8
G99-2894	41.8	43.9	44.3	42.7	43.2
G99-2982	41.5	43.6	45.0	43.4	43.4
G99-3081	39.0	42.5	42.5	42.3	41.6
N00-363	38.5	40.9	38.8	36.9	38.8
N00-370	40.1	42.3	40.1	39.3	40.5
N00-377	40.8	41.4	41.3	41.1	41.2
N00-483	39.0	41.1	40.6	40.5	40.3
N90-7199	38.1	40.9	39.7	39.1	39.5
N96-6809	38.3	39.1	40.6	37.4	38.9
N99-8216	41.0	41.6	42.7	39.9	41.3
SC00-947RR	40.6	42.0	44.0	43.1	42.4
SC00-948RR	40.3	41.6	43.5	41.4	41.7
SC97-2010	40.4	42.4	40.8	40.3	41.0
SC97-2074	39.0	41.1	40.8	38.5	39.9
SC99-279	40.1	40.7	42.0	39.3	40.5
SC99-356	41.6	42.0	41.0	39.2	41.0
SC99-605	39.3	40.9	42.0	40.7	40.7

**TABLE 65 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY  
GROUP VII, 2002**

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JACKSON SPRINGS NC	MEAN
BENNING	17.7	17.1	16.7	17.2
G99-G6682RR	18.2	14.9	16.5	16.5
Au99-1861	18.1	15.8	15.0	16.3
Au99-2001	17.2	17.9	18.4	17.8
Au99-2729	16.0	15.0	14.2	15.1
Au99-3255	14.6	14.9	14.2	14.6
Au99-3729	20.4	18.4	19.1	19.3
G99-1214	15.4	14.6	15.4	15.1
G99-2604	17.4	16.7	17.4	17.2
G99-2678	16.8	16.3	17.3	16.8
G99-2721	16.2	15.7	15.7	15.9
G99-2894	17.0	15.7	15.1	15.9
G99-2982	17.2	14.9	16.3	16.1
G99-3081	16.2	15.6	16.8	16.2
N00-363	17.6	19.5	18.1	18.4
N00-370	19.1	18.4	18.2	18.6
N00-377	19.1	18.8	18.1	18.7
N00-483	21.0	20.7	19.4	20.4
N90-7199	16.2	16.8	17.2	16.7
N96-6809	15.2	15.5	15.1	15.3
N99-8216	23.5	22.8	21.3	22.5
SC00-947RR	14.3	14.7	12.5	13.8
SC00-948RR	14.8	13.2	11.1	13.0
SC97-2010	10.6	9.4	9.1	9.7
SC97-2074	10.0	10.4	9.8	10.1
SC99-279	18.7	18.0	18.1	18.3
SC99-356	17.9	15.4	15.7	16.3
SC99-605	17.1	14.9	15.0	15.7

**TABLE 66 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2002**

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	39	31	28	32	32
G99-G6682RR	39	36	34	37	36
Au99-1861	39	37	38	34	37
Au99-2001	36	23	24	28	28
Au99-2729	38	28	22	33	30
Au99-3255	35	33	22	30	30
Au99-3729	42	35	28	33	34
G99-1214	41	34	30	34	35
G99-2604	44	35	26	31	34
G99-2678	43	38	26	34	35
G99-2721	41	35	26	35	34
G99-2894	39	30	26	33	32
G99-2982	36	33	20	30	30
G99-3081	43	31	22	28	31
N00-363	36	31	24	33	31
N00-370	40	30	24	32	31
N00-377	36	29	26	25	29
N00-483	33	27	28	30	29
N90-7199	31	23	22	27	26
N96-6809	35	27	26	25	28
N99-8216	40	32	36	31	35
SC00-947RR	36	35	30	34	34
SC00-948RR	35	28	20	31	28
SC97-2010	38	31	30	32	32
SC97-2074	33	25	26	27	28
SC99-279	42	35	33	36	36
SC99-356	39	35	26	36	34
SC99-605	37	35	26	28	31

**TABLE 67 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2002**

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JACKSON SPRINGS NC	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	2.5	1.0	1.5	2.0	1.0	1.6
G99-G6682RR	2.0	1.5	3.0	2.0	1.0	1.9
Au99-1861	2.0	1.0	2.0	2.0	1.0	1.6
Au99-2001	2.0	1.0	2.0	2.0	1.0	1.6
Au99-2729	2.0	1.0	2.0	2.0	1.0	1.6
Au99-3255	3.0	2.0	1.5	2.0	1.0	1.9
Au99-3729	2.0	1.0	2.5	2.0	1.0	1.7
G99-1214	2.5	1.0	2.5	2.0	1.0	1.8
G99-2604	2.5	1.0	2.0	2.0	1.0	1.7
G99-2678	3.0	1.0	2.5	2.0	1.0	1.9
G99-2721	2.0	1.0	2.5	2.0	1.0	1.7
G99-2894	2.0	1.0	2.0	2.0	1.0	1.6
G99-2982	2.0	1.0	2.5	2.0	1.0	1.7
G99-3081	2.0	1.0	3.0	2.0	1.0	1.8
N00-363	4.0	2.5	3.0	2.0	1.0	2.5
N00-370	3.0	1.0	3.0	2.0	1.0	2.0
N00-377	2.0	1.0	1.5	2.0	1.0	1.5
N00-483	2.0	1.0	2.0	2.0	1.0	1.6
N90-7199	2.0	1.0	2.5	2.0	1.0	1.7
N96-6809	2.0	1.0	3.0	2.0	1.0	1.8
N99-8216	3.5	1.0	3.0	2.0	1.0	2.1
SC00-947RR	2.5	1.0	2.0	2.0	1.0	1.7
SC00-948RR	2.0	1.0	1.0	2.0	1.0	1.4
SC97-2010	2.5	1.0	1.5	2.0	1.0	1.6
SC97-2074	2.5	1.0	1.5	2.0	1.0	1.6
SC99-279	2.5	1.0	3.0	2.0	1.0	1.9
SC99-356	2.5	1.0	2.0	2.0	1.0	1.7
SC99-605	3.0	1.5	2.5	2.0	1.0	2.0



**TABLE 68 ~ SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VII, 2002**

STRAIN/ VARIETY	ATHENS GA	JACKSON SPRINGS NC	STONEVILLE MS	MEAN
BENNING	3.0	3.0	4.0	3.3
G99-G6682RR	2.8	2.0	4.0	2.9
Au99-1861	3.0	3.0	4.0	3.3
Au99-2001	3.0	4.0	4.0	3.7
Au99-2729	2.3	4.0	4.0	3.4
Au99-3255	2.8	3.0	4.0	3.3
Au99-3729	3.3	3.0	4.0	3.4
G99-1214	2.5	4.0	4.0	3.5
G99-2604	2.5	4.0	4.0	3.5
G99-2678	2.8	3.0	4.0	3.3
G99-2721	2.3	2.0	4.0	2.8
G99-2894	2.5	3.0	4.0	3.2
G99-2982	2.5	2.0	4.0	2.8
G99-3081	3.0	4.0	4.0	3.7
N00-363	2.5	4.0	4.0	3.5
N00-370	2.5	4.0	4.0	3.5
N00-377	2.5	2.0	4.0	2.8
N00-483	2.5	3.0	4.0	3.2
N90-7199	2.8	3.0	4.0	3.3
N96-6809	2.5	3.0	4.0	3.2
N99-8216	3.5	4.0	4.0	3.8
SC00-947RR	2.5	3.0	4.0	3.2
SC00-948RR	2.0	2.0	4.0	2.7
SC97-2010	2.3	4.0	4.0	3.4
SC97-2074	2.0	3.0	4.0	3.0
SC99-279	2.3	3.0	4.0	3.1
SC99-356	2.8	3.0	4.0	3.3
SC99-605	3.0	3.0	4.0	3.3

## UNIFORM GROUP VIII

2002

Uniform Group VIII nurseries were planted in 12 locations. Data were obtained from 7 of these locations. The parentage for each strain is reported in Table 69. Table 70 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 71 - 76.

**TABLE 69 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2002**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. PRICHARD	Coker 82-622 x Howard	
2. COOK	Braxton x Young	
3. Au97-10	SC88-2872 x D87-4429	
4. G97-1387	Doles x D87-4429	F6d
5. G98-2641	G89-375 x D87-4429	F7d
6. G98-2866	Brim x Doles	F7d
7. G98-5393	G89-146 x Cook	F7d
8. N96-6752	N91-7202 x N90-7199	F5
9. N97-10074	N90-7199 x N91-8005	F5
10. N97-9612	N90-7199 x COOK	F5
11. N97-9636	N90-7199 x COOK	F5
12. N97-9677	N90-7199 x COOK	F5
13. N98-7961	N90-7199 x NTCPR93-283	F5
14. SC96-1574	SC89-181 x NK' S S75-55	F5
15. SC96-2736	HAGOOD x SC84-931	F5
16. SC97-1746	NK' S S83-30 x (HUTCHESON x D87-4429)	F5
17. SC98-469	HUTCHESON x NK' S S75-55	F5
18. SC98-679	STONEWALL x NK' S S75-55	F5

**TABLE 70 ~ GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2002**

STRAIN/ VARIETY	RANK 2002	AVERAGE RANK 2002	YIELD*			PROTEIN			OIL		
			2002	01-02	00-02	2002	01-02	00-02	2002	01-02	00-02
PRICHARD	2	6	44.2	45.0	43.9	42.0	40.9	41.3	19.0	19.4	19.2
COOK	15	14	38.4	40.5	39.8	41.4	41.0	41.5	18.8	19.5	19.3
Au97-10	11	8	41.1	.	.	39.2	.	.	19.8	.	.
G97-1387	9	10	41.5	44.3	.	41.7	41.0	.	19.8	19.9	.
G98-2641	12	11	40.8	.	.	40.4	.	.	19.9	.	.
G98-2866	8	9	41.6	.	.	41.7	.	.	19.6	.	.
G98-5393	13	12	40.5	.	.	40.9	.	.	20.3	.	.
N96-6752	5	7	42.4	44.8	42.6	38.7	38.7	39.2	19.5	20.2	20.1
N97-10074	18	13	37.2	41.5	.	38.8	38.3	.	19.8	20.9	.
N97-9612	1	5	44.9	47.5	.	40.7	40.5	.	18.3	19.1	.
N97-9636	16	11	37.8	41.2	.	39.1	38.7	.	19.0	19.8	.
N97-9677	3	6	44.0	.	.	40.3	.	.	19.6	.	.
N98-7961	17	14	37.8	.	.	39.3	.	.	21.0	.	.
SC96-1574	6	9	41.8	43.7	43.1	39.9	39.1	39.4	20.6	20.7	20.4
SC96-2736	4	7	43.2	44.0	42.7	42.2	41.5	41.8	19.1	19.5	19.4
SC97-1746	10	7	41.2	43.2	.	42.2	41.3	.	20.0	20.2	.
SC98-469	7	10	41.7	.	.	40.7	.	.	20.8	.	.
SC98-679	14	12	39.8	.	.	40.4	.	.	20.5	.	.

\*Data not included in mean: **2003 - Blackville, SC(B); Tallassee, AL(B)**  
**2001 - Florence, SC; Clinton, NC; Tallassee, AL(L)**

TABLE 70 ~ Continued

<b>BOTANICAL TRAITS</b>					
STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE
PRI CHARD	11/02	1.9	32	2.2	15.2
COOK	4-	1.8	33	2.9	17.0
Au97-10	10-	2.0	32	2.7	16.2
G97-1387	3-	2.2	30	2.1	15.6
G98-2641	4-	2.0	33	2.5	16.0
G98-2866	7-	1.9	29	2.4	12.8
G98-5393	7-	1.9	34	3.1	15.0
N96-6752	2-	1.6	26	3.0	15.3
N97-10074	4-	1.7	27	2.4	15.7
N97-9612	3-	1.8	31	2.8	17.0
N97-9636	0	1.7	30	2.9	15.9
N97-9677	0	1.6	31	2.8	18.8
N98-7961	2-	1.7	27	2.7	15.0
SC96-1574	6-	2.2	33	3.0	16.2
SC96-2736	6-	1.8	34	2.6	15.5
SC97-1746	5-	1.8	32	3.0	17.6
SC98-469	4-	1.9	33	2.7	15.4
SC98-679	7-	1.8	32	3.1	16.2

TABLE 70 ~ Continued

## PEST REACTIONS

STRAIN/ VARIETY	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER
PRI CHARD	3.9	1.0	1.7	1.0	5.0	R	MR
COOK	4.1	1.6	4.1	2.0	4.8	R	MR
Au97-10	2.9	1.1	4.8	1.0	4.3	R	MS
G97-1387	4.6	1.4	4.8	1.0	3.8	R	MS
G98-2641	4.9	1.1	4.7	1.3	3.8	S	MR
G98-2866	4.2	1.6	4.9	5.0	3.5	R	MS
G98-5393	3.8	1.1	5.0	1.0	2.8	R	MR
N96-6752	4.4	3.6	5.0	5.0	3.8	R	MS
N97-10074	4.3	3.0	5.0	3.5	4.0	R	MR
N97-9612	3.6	3.4	4.7	2.3	4.8	R	MR
N97-9636	3.7	2.1	4.9	4.5	3.5	R	MR
N97-9677	3.9	3.6	5.0	5.0	4.0	R	MR
N98-7961	3.8	3.5	5.0	4.8	4.0	R	MS
SC96-1574	3.7	1.3	4.0	1.0	4.8	R	MR
SC96-2736	4.2	1.6	4.9	1.5	4.3	R	S
SC97-1746	3.7	1.2	5.0	2.5	4.3	R	R
SC98-469	4.3	1.5	4.1	2.0	4.0	R	MR
SC98-679	4.6	2.0	5.0	1.3	4.3	S	S

**TABLE 71 ~ SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY  
GROWN IN UNIFORM GROUP VIII, 2002**

STRAIN/ VARIETY	EAST
	FLORENCE SC
PRI CHARD	51.4
COOK	44.8
Au97-10	50.3
G97-1387	43.0
G98-2641	41.0
G98-2866	39.3
G98-5393	40.8
N96-6752	44.9
N97-10074	39.9
N97-9612	48.2
N97-9636	46.1
N97-9677	47.6
N98-7961	37.0
SC96-1574	44.7
SC96-2736	45.8
SC97-1746	48.3
SC98-469	39.7
SC98-679	43.4
L. S. D. (0.05)	7.3
C. V. (%)	10.0

TABLE 71 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS	ATHENS	BLACKVILLE*	FAIRHOPE	MIDVILLE	TALLASSEE	TALLASSEE*	TIFTON	MEAN
	GA(A)	GA(B)	SC(B)	AL	GA	AL(A)	AL(B)	GA	
PRI CHARD	51.4	46.1	33.5	47.6	35.8	40.0	27.2	36.9	43.0
COOK	49.2	37.7	23.8	50.7	30.2	25.2	27.1	31.2	37.4
Au97-10	47.4	39.2	18.8	32.4	32.6	45.4	29.4	40.7	39.6
G97-1387	51.5	42.1	35.4	48.8	34.3	35.2	26.5	35.5	41.2
G98-2641	45.6	36.7	31.7	47.3	32.4	40.8	30.1	41.5	40.7
G98-2866	53.2	39.0	26.4	54.5	37.3	36.3	25.2	31.6	42.0
G98-5393	45.9	38.0	34.4	54.0	31.3	38.8	35.1	34.8	40.5
N96-6752	51.8	45.7	16.0	57.0	34.7	26.0	22.9	37.0	42.0
N97-10074	44.8	41.8	16.1	52.7	30.7	26.4	25.0	24.0	36.7
N97-9612	56.1	44.6	30.9	59.9	41.2	25.3	22.2	39.3	44.4
N97-9636	39.6	42.7	25.7	54.5	32.8	24.0	24.6	24.7	36.4
N97-9677	48.5	40.7	29.8	61.4	38.7	28.4	21.9	42.3	43.3
N98-7961	44.6	38.5	13.9	51.8	27.7	30.9	26.7	33.9	37.9
SC96-1574	50.4	47.0	33.2	43.9	26.1	43.5	29.5	37.2	41.4
SC96-2736	52.3	44.6	34.8	51.9	31.8	35.2	29.3	41.0	42.8
SC97-1746	54.8	44.5	31.8	25.1	37.5	42.2	34.3	35.8	40.0
SC98-469	50.1	38.9	24.1	51.0	26.6	43.8	27.4	41.6	42.0
SC98-679	49.6	42.1	28.4	45.5	28.8	35.2	30.5	34.0	39.2
L. S. D. (0.05)	7.7	7.6	8.3	6.4	9.2	8.8	11.8	10.8	.
C. V. (%)	9.5	11.0	18.4	7.7	16.8	15.3	25.8	18.1	.

\*Data not included in mean



**TABLE 72 ~ CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY  
GROWN IN UNIFORM GROUP VIII, 2002**

STRAIN/ VARIETY	OIL PERCENTAGES					MEAN
	ATHENS GA(A)	ATHENS GA(B)	FLORENCE SC	MIDVILLE GA	TIFTON GA	
PRI CHARD	18.9	17.6	19.9	19.6	.	19.0
COOK	18.6	17.9	19.5	19.1	.	18.8
Au97-10	19.0	18.5	20.9	20.8	.	19.8
G97-1387	20.1	18.8	20.4	20.0	.	19.8
G98-2641	19.7	19.3	20.1	20.5	.	19.9
G98-2866	19.9	19.0	20.2	19.4	.	19.6
G98-5393	19.8	19.8	20.9	20.8	.	20.3
N96-6752	19.3	17.0	20.4	21.2	.	19.5
N97-10074	19.7	18.8	21.3	19.3	.	19.8
N97-9612	18.2	17.3	19.7	17.8	.	18.3
N97-9636	18.6	18.2	19.3	19.7	.	19.0
N97-9677	19.4	18.9	20.3	19.9	.	19.6
N98-7961	20.3	20.4	21.7	21.7	.	21.0
SC96-1574	21.2	19.6	20.8	20.8	.	20.6
SC96-2736	19.1	18.1	19.7	19.4	.	19.1
SC97-1746	19.4	18.9	20.6	20.9	.	20.0
SC98-469	19.8	19.6	21.6	22.0	.	20.8
SC98-679	21.5	20.3	20.9	19.3	.	20.5

TABLE 72 ~ Continued

STRAIN/ VARIETY	PROTEIN PERCENTAGES					MEAN
	ATHENS GA(A)	ATHENS GA(B)	FLORENCE SC	MIDVILLE GA	TIFTON GA	
PRI CHARD	40.4	41.7	42.3	43.4	.	42.0
COOK	40.3	40.5	42.2	42.5	.	41.4
Au97-10	37.5	38.8	39.9	40.5	.	39.2
G97-1387	40.6	42.2	41.7	42.3	.	41.7
G98-2641	39.3	40.2	40.6	41.3	.	40.4
G98-2866	39.8	42.1	42.7	42.2	.	41.7
G98-5393	39.1	39.0	42.5	43.1	.	40.9
N96-6752	37.8	38.7	39.4	39.0	.	38.7
N97-10074	37.8	39.2	38.8	39.5	.	38.8
N97-9612	39.6	40.5	40.2	42.4	.	40.7
N97-9636	39.5	38.6	39.2	39.1	.	39.1
N97-9677	39.1	39.8	40.9	41.2	.	40.3
N98-7961	38.7	38.7	38.9	41.0	.	39.3
SC96-1574	37.9	39.6	40.6	41.5	.	39.9
SC96-2736	41.5	42.0	42.9	42.5	.	42.2
SC97-1746	41.0	41.8	41.5	44.3	.	42.2
SC98-469	37.8	40.6	42.1	42.3	.	40.7
SC98-679	39.0	38.5	42.1	42.0	.	40.4

TABLE 72 ~ Continued

STRAIN/ VARIETY	GRAMS PER 100 SEED					MEAN
	ATHENS GA(A)	ATHENS GA(B)	FLORENCE SC	MIDVILLE GA	TIFTON GA	
PRI CHARD	15.1	13.9	16.0	15.3	15.5	15.2
COOK	18.8	16.2	18.0	14.5	17.3	17.0
Au97-10	16.9	14.1	17.6	15.3	16.9	16.2
G97-1387	15.6	14.8	16.8	15.9	15.0	15.6
G98-2641	15.9	15.2	16.9	14.9	16.9	16.0
G98-2866	14.1	7.5	15.6	12.7	14.2	12.8
G98-5393	15.8	13.9	16.1	14.0	15.3	15.0
N96-6752	15.4	15.0	17.0	12.7	16.6	15.3
N97-10074	15.5	15.9	17.9	14.0	15.0	15.7
N97-9612	17.0	14.5	18.8	16.6	18.1	17.0
N97-9636	16.8	16.5	16.7	13.6	16.1	15.9
N97-9677	20.1	16.3	20.9	16.4	20.3	18.8
N98-7961	16.2	15.7	17.6	11.4	14.1	15.0
SC96-1574	17.3	14.7	17.7	14.6	16.5	16.2
SC96-2736	16.6	14.7	17.5	13.6	15.2	15.5
SC97-1746	18.6	16.7	19.4	15.6	17.9	17.6
SC98-469	16.6	12.9	17.7	13.3	16.3	15.4
SC98-679	17.0	15.5	17.0	13.6	17.9	16.2

**TABLE 73 ~ RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN PRICHARD, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2002**

STRAIN/ VARIETY	EAST
	FLORENCE SC
PRICHARD	11/05
COOK	-5
Au97-10	-12
G97-1387	-3
G98-2641	-4
G98-2866	-10
G98-5393	-8
N96-6752	-4
N97-10074	-5
N97-9612	-3
N97-9636	2
N97-9677	1
N98-7961	1
SC96-1574	-9
SC96-2736	-5
SC97-1746	-1
SC98-469	-5
SC98-679	-10

TABLE 73 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC(B)	FAIRHOPE AL	MIDVILLE GA	TALLASSEE AL(A)	TALLASSEE* AL(B)	TIFTON GA	MEAN
PRI CHARD	11/05	11/10	.	10/23	.	11/04	11/04	10/25	11/01
COOK	1	-1	.	-4	.	-7	0	-7	-4
Au97-10	-11	-4	.	-12	.	-7	-6	-11	-9
G97-1387	-2	1	.	-3	.	-4	0	-6	-3
G98-2641	-3	-2	.	-4	.	-4	0	-3	-3
G98-2866	-8	-4	.	-5	.	-7	-1	-9	-7
G98-5393	-7	-5	.	-3	.	-7	0	-10	-6
N96-6752	-2	-2	.	-1	.	-2	-2	-1	-2
N97-10074	-3	-2	.	-1	.	-6	-4	-4	-3
N97-9612	-3	-1	.	-2	.	-4	-1	-3	-3
N97-9636	0	1	.	0	.	0	0	-2	0
N97-9677	2	0	.	1	.	-3	-1	-1	0
N98-7961	-1	0	.	-1	.	-3	0	-4	-2
SC96-1574	-6	-3	.	-4	.	-7	-2	-7	-6
SC96-2736	-3	-3	.	-5	.	-7	-1	-10	-6
SC97-1746	-2	-1	.	-12	.	-6	0	-6	-5
SC98-469	-1	-1	.	-2	.	-4	-1	-9	-4
SC98-679	-8	-3	.	-4	.	-7	0	-11	-7

\*Data not included in mean

**TABLE 74 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VIII, 2002**

STRAIN/ VARIETY	EAST	
	FLORENCE	
	SC	
PRI CHARD	29	
COOK	28	
Au97-10	27	
G97-1387	26	
G98-2641	30	
G98-2866	25	
G98-5393	31	
N96-6752	23	
N97-10074	24	
N97-9612	28	
N97-9636	28	
N97-9677	25	
N98-7961	22	
SC96-1574	29	
SC96-2736	30	
SC97-1746	29	
SC98-469	26	
SC98-679	28	

TABLE 74 ~ Continued

**SOUTH**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE* SC(B)	FAIRHOPE AL	MIDVILLE GA	TALLASSEE AL(A)	TALLASSEE* AL(B)	TIFTON GA	MEAN
PRI CHARD	41	28	23	35	34	28	26	32	33
COOK	42	29	23	34	35	33	28	33	34
Au97-10	40	27	25	33	33	30	30	31	32
G97-1387	36	28	26	33	33	27	28	29	31
G98-2641	43	27	26	33	29	33	28	33	33
G98-2866	37	24	22	30	32	30	24	28	30
G98-5393	44	30	29	34	35	29	28	32	34
N96-6752	33	21	17	26	27	23	25	30	27
N97-10074	37	23	17	28	30	20	23	29	28
N97-9612	42	26	26	34	30	24	27	33	31
N97-9636	41	27	25	31	26	26	27	31	30
N97-9677	38	27	26	33	30	30	28	35	32
N98-7961	33	23	20	25	28	26	23	29	27
SC96-1574	45	30	23	36	31	32	32	31	34
SC96-2736	42	30	28	36	34	35	29	33	35
SC97-1746	41	28	29	33	30	31	30	30	32
SC98-469	41	26	25	37	33	35	30	31	34
SC98-679	41	28	21	35	32	32	29	31	33

\*Data not included in mean

**TABLE 75 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM  
GROUP VIII, 2002**

STRAIN/ VARIETY	EAST	
	FLORENCE	
	SC	
PRI CHARD	2.3	
COOK	2.3	
Au97-10	2.3	
G97-1387	2.7	
G98-2641	3.0	
G98-2866	2.7	
G98-5393	2.7	
N96-6752	1.3	
N97-10074	2.3	
N97-9612	2.3	
N97-9636	2.0	
N97-9677	2.0	
N98-7961	1.3	
SC96-1574	3.0	
SC96-2736	2.3	
SC97-1746	3.0	
SC98-469	2.3	
SC98-679	2.7	



TABLE 75 ~ Continued

## SOUTH

STRAIN/ VARIETY	ATHENS GA (A)	ATHENS GA (B)	BLACKVILLE* SC (B)	MIDVILLE GA	TALLASSEE AL (A)	TALLASSEE* AL (B)	TIFTON GA	MEAN
PRI CHARD	3.0	2.0	1.0	2.3	1.0	1.0	1.0	1.9
COOK	2.3	2.0	1.0	2.3	1.0	1.0	1.0	1.7
Au97-10	2.7	2.7	1.0	2.3	1.0	1.0	1.0	1.9
G97-1387	3.0	3.0	1.3	2.7	1.0	1.0	1.0	2.1
G98-2641	2.3	2.0	1.8	2.7	1.0	1.0	1.0	1.8
G98-2866	2.3	2.0	1.0	2.3	1.0	1.0	1.0	1.7
G98-5393	2.3	2.0	1.7	2.7	1.0	1.0	1.0	1.8
N96-6752	2.0	1.7	1.0	2.3	1.0	1.0	1.0	1.6
N97-10074	2.0	1.7	1.0	2.0	1.0	1.0	1.0	1.5
N97-9612	2.3	1.7	1.0	2.3	1.0	1.0	1.0	1.7
N97-9636	2.7	2.0	1.0	1.7	1.0	1.0	1.0	1.7
N97-9677	2.0	2.3	1.0	1.3	1.0	1.0	1.0	1.5
N98-7961	2.0	2.0	1.0	3.0	1.0	1.0	1.0	1.8
SC96-1574	3.7	2.0	1.3	2.3	1.0	1.0	1.0	2.0
SC96-2736	2.0	1.7	1.0	2.7	1.0	1.0	1.0	1.7
SC97-1746	2.0	2.3	1.7	1.7	1.0	1.0	1.0	1.6
SC98-469	3.0	1.7	1.0	2.3	1.0	1.0	1.0	1.8
SC98-679	2.3	2.0	1.0	2.0	1.0	1.0	1.0	1.7

\*Data not included in mean

**TABLE 76 ~ SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2002**

STRAIN/ VARIETY	SOUTH			MEAN
	ATHENS GA(A)	ATHENS GA(B)	MIDVILLE GA	
PRI CHARD	2.2	1.7	2.8	2.2
COOK	2.8	2.0	4.0	2.9
Au97-10	2.3	2.3	3.5	2.7
G97-1387	1.8	1.7	2.8	2.1
G98-2641	2.2	1.8	3.5	2.5
G98-2866	2.7	1.7	2.8	2.4
G98-5393	2.8	2.2	4.2	3.1
N96-6752	2.7	2.3	4.0	3.0
N97-10074	2.2	2.0	3.2	2.4
N97-9612	2.3	2.2	3.8	2.8
N97-9636	3.0	2.0	3.7	2.9
N97-9677	3.0	1.8	3.5	2.8
N98-7961	2.5	1.7	4.0	2.7
SC96-1574	3.3	1.8	3.8	3.0
SC96-2736	2.5	1.8	3.3	2.6
SC97-1746	3.0	2.2	3.8	3.0
SC98-469	2.7	1.8	3.7	2.7
SC98-679	3.3	1.8	4.0	3.1

\*Data not included in mean

## PRELIMINARY GROUP VIII

2002

Preliminary Group VIII nurseries were planted at 6 locations. Data were obtained from 5 all of the locations. The parentage for each strain is reported in Table 77. Table 78 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 79 - 85.

**TABLE 77 ~ PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2002**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. PRICHARD	Coker 82-622 x Howard	
2. COOK	Braxton x Young	
3. Au99-1030	Boggs x Au90-585	
4. Au99-1977	SC91-2007 x Au90-585	
5. Au99-2549	N92-727 x Au90-585	
6. Au99-2577	N92-727 x Au90-585	
7. Au99-3633	SC91-2007 x N92-598	
8. G99-1166	G91-2244 x Benni ng	F5d
9. G99-1308	G91-2244 x Benni ng	F5d
10. G99-1486	G91-2244 x Benni ng	F5d
11. G99-2172	V91-3036 x Dol es	F5d
12. G99-3211	G91-2244 x Dol es	F5d
13. G99-3349	G91-2244 x Dol es	F5d
14. G99-3519	G91-2244 x Dol es	F5d
15. SC00-1075RR	BC3HAG00D RR	F5
16. SC00-977RR	BC3MAXCY RR	F5
17. SC93-1287	HOWARD x CROCKETT	F5
18. SC99-1761	BC3MAXCY x N565	F5
19. SC99-280	V88-494 x BENNING	F5
20. SC99-284	V88-494 x BENNING	F5
21. SC99-615	SC89-147 x G89-2223	F5

**TABLE 78 ~ GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2002 ~ MEAN OF 5 LOCATIONS**

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----	PROTEIN	OIL	STEM CANKER	SCN 2	SCN 3	SCN 14
PRI CHARD	48.3	3	5	11/08	1.8	34	2.2	14.6	41.7	18.7	MR	3.6	1.1	5.0	
COOK	42.7	15	7	4-	2.0	35	2.6	16.7	41.4	18.6	R	4.6	3.1	4.3	
Au99-1030	38.2-	20	8	4-	2.3	35	3.5	14.7	41.1	19.3	MS	4.3	2.7	5.0	
Au99-1977	48.1	5	5	5-	1.6	35	3.3	15.6	39.7-	20.7+	MR	4.0	1.4	5.0	
Au99-2549	44.6	13	6	2-	2.0	37	3.1	14.4	40.9	20.1+	S	4.5	3.6	5.0	
Au99-2577	45.9	10	5	2-	2.1	35	2.8	15.1	40.6-	20.3+	S	4.1	1.0	5.0	
Au99-3633	46.5	9	5	4-	2.0	35	2.5	15.2	38.0-	20.9+	R	4.4	2.9	4.9	
G99-1166	48.1	5	5	2-	1.9	34	2.7	17.3	40.7	19.2	R	3.8	1.1	4.9	
G99-1308	50.1	2	4	2-	2.1	32	2.3	14.5	39.2-	20.1+	S	3.2	1.1	5.0	
G99-1486	45.1	11	6	3-	1.7	29	2.5	15.2	40.4-	19.6+	MR	3.7	1.4	4.9	
G99-2172	48.0	6	5	1-	2.1	35	2.6	14.0	39.6-	20.3+	MS	3.6	1.0	5.0	
G99-3211	50.3	1	4	2-	1.5	35	2.8	15.4	40.0-	19.7+	R	4.1	1.7	4.5	
G99-3349	44.7	12	6	5-	1.6	33	2.5	15.2	40.0-	19.4	S	4.3	1.3	4.3	
G99-3519	47.1	8	5	2-	1.7	33	2.7	14.6	41.3	19.9+	MR	3.0	1.6	4.9	
SC00-1075RR	42.6	16	7	3-	1.6	35	2.1	15.4	42.5	19.2	MS	3.7	1.0	4.6	
SC00-977RR	42.5	17	6	2-	2.3	36	1.9	12.6	41.1	20.0+	MS	4.0	1.4	4.4	
SC93-1287	41.2-	18	7	4-	1.9	32	2.7	16.0	41.4	18.6	MS	4.0	1.1	4.7	
SC99-1761	40.5-	19	8	0	2.9	35	2.7	12.5	40.8	18.6	MS	3.3	1.6	4.3	
SC99-280	35.9-	21	10	2-	1.8	36	2.3	16.0	40.2-	19.9+	MR	3.8	2.0	4.7	
SC99-284	43.5	14	6	2-	1.8	34	2.5	17.3	40.0-	19.0	R	4.1	3.6	4.0	
SC99-615	47.4	7	5	4-	2.7	35	2.5	15.0	41.3	18.9	R	3.2	1.1	2.2	
OVERALL MEAN	44.8								40.6	19.6					
LSD (.05)	6.1								1.1	0.8					
C. V.	11%								2%	3%					

**TABLE 79 ~ SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY  
GROWN IN PRELIMINARY GROUP VIII, 2002**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE* AL	MEAN
PRICHARD	48.7	41.1	57.0	33.4	61.6	35.4	48.3
COOK	46.6	34.3-	53.1	39.9	39.8-	37.1	42.7
Au99-1030	37.3-	31.2-	44.2-	.	40.2-	36.8	38.2-
Au99-1977	40.9-	36.9	63.6	41.7	57.7	39.0	48.1
Au99-2549	43.5	32.5-	64.0	35.4	47.8-	36.8	44.6
Au99-2577	47.1	38.6	57.9	35.9	50.1-	43.4	45.9
Au99-3633	51.2	37.2	53.2	35.0	55.9	35.3	46.5
G99-1166	41.0-	41.6	60.9	38.3	58.6	47.4	48.1
G99-1308	55.2	36.8	51.3	.	57.3	48.7	50.1
G99-1486	49.9	34.7	51.8	34.7	54.3	40.6	45.1
G99-2172	47.4	41.2	55.2	35.8	60.7	43.6	48.0
G99-3211	52.9	44.3	56.6	39.7	57.8	45.9	50.3
G99-3349	39.2-	41.1	56.2	32.8	54.0	39.7	44.7
G99-3519	40.2-	36.7	57.9	38.1	62.9	44.9	47.1
SC00-1075RR	43.3	37.0	45.1	36.6	51.0-	43.3	42.6
SC00-977RR	44.8	37.7	48.6	25.8	55.9	36.7	42.5
SC99-1761	44.2	33.4-	43.3-	40.7	44.6-	33.9	41.2-
SC93-1287	38.1-	33.5-	46.6	28.8	55.6	40.4	40.5-
SC99-280	37.1-	34.6-	48.2	29.0	30.9-	24.2	35.9-
SC99-284	44.1	33.2-	56.5	39.4	44.6-	32.8	43.5
SC99-615	47.8	38.6	58.1	35.0	57.6	39.4	47.4
L. S. D. (0.05)	7.3	6.4	12.0	9.4	8.6	17.7	6.1
C. V. (%)	7.8	8.3	10.7	10.4	7.9	21.5	10.6

\*Data not included in mean

**TABLE 80 ~ OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VIII, 2002**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC	JACKSON SPRINGS NC	PLAINS GA	MEAN
PRICHARD	18.8	18.0	19.2	18.7	18.7	18.7
COOK	18.9	18.1	19.0	18.5	18.6	18.6
Au99-1030	19.4	19.0	19.6	18.8	19.5	19.3
Au99-1977	21.8	20.1	21.2	20.8	19.4	20.7
Au99-2549	20.5	19.1	22.0	18.7	20.1	20.1
Au99-2577	20.8	18.8	21.0	20.0	21.0	20.3
Au99-3633	21.4	20.0	21.5	20.4	21.4	20.9
G99-1166	18.3	18.7	20.1	19.7	19.4	19.2
G99-1308	20.7	19.0	19.7	19.8	21.3	20.1
G99-1486	20.0	18.8	20.1	19.1	20.0	19.6
G99-2172	21.3	18.9	20.9	19.5	21.0	20.3
G99-3211	20.9	17.8	20.5	18.8	20.3	19.7
G99-3349	20.9	18.7	18.5	18.7	20.3	19.4
G99-3519	20.9	18.7	20.3	18.9	20.7	19.9
SC00-1075RR	19.9	17.9	19.7	18.8	19.9	19.2
SC00-977RR	20.0	19.0	20.0	19.5	21.3	20.0
SC99-1761	18.6	18.0	18.4	18.2	19.7	18.6
SC93-1287	19.7	17.6	19.4	17.5	18.6	18.6
SC99-280	20.3	19.1	19.0	19.3	21.8	19.9
SC99-284	17.3	18.9	19.8	19.4	19.6	19.0
SC99-615	19.0	18.0	19.2	18.2	20.1	18.9

**TABLE 81 ~ PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN  
PRELIMINARY GROUP VIII, 2002**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC	JACKSON SPRINGS NC	PLAINS GA	MEAN
PRICHARD	41.7	41.5	42.2	42.2	40.8	41.7
COOK	41.3	41.1	41.4	42.9	40.2	41.4
Au99-1030	41.5	40.2	42.3	41.3	40.0	41.1
Au99-1977	39.6	39.4	40.4	40.5	38.5	39.7
Au99-2549	40.9	41.0	39.5	42.7	40.3	40.9
Au99-2577	39.4	40.8	41.8	41.1	40.1	40.6
Au99-3633	37.2	36.7	39.3	39.6	37.4	38.0
G99-1166	39.9	40.1	41.3	40.6	41.5	40.7
G99-1308	37.0	39.5	41.0	39.0	39.7	39.2
G99-1486	39.2	40.1	41.1	41.3	40.4	40.4
G99-2172	36.8	39.7	40.4	41.4	39.7	39.6
G99-3211	37.8	40.1	40.8	41.4	40.0	40.0
G99-3349	38.2	41.1	41.4	39.6	39.9	40.0
G99-3519	39.3	41.4	42.2	41.4	42.1	41.3
SC00-1075RR	41.8	41.3	42.3	44.0	42.9	42.5
SC00-977RR	39.1	40.6	42.8	42.8	40.0	41.1
SC99-1761	40.9	40.3	43.0	41.1	41.6	41.4
SC93-1287	39.3	40.8	41.6	41.1	41.1	40.8
SC99-280	40.1	39.4	39.9	43.7	37.9	40.2
SC99-284	38.8	40.1	41.1	41.0	39.1	40.0
SC99-615	40.5	40.4	41.6	42.9	41.2	41.3



**TABLE 82 ~ SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY  
GROUP VIII, 2002**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC	JACKSON SPRINGS NC	PLAINS GA	MEAN
PRICHARD	15.9	13.9	14.4	15.1	13.7	14.6
COOK	18.1	16.6	17.0	17.4	14.5	16.7
Au99-1030	16.5	14.3	15.3	14.5	13.2	14.7
Au99-1977	15.6	15.8	17.0	14.5	15.0	15.6
Au99-2549	13.9	14.0	17.1	13.6	13.5	14.4
Au99-2577	15.7	16.1	15.4	13.7	14.5	15.1
Au99-3633	15.8	15.1	16.0	14.7	14.3	15.2
G99-1166	18.2	16.8	18.1	16.7	16.5	17.3
G99-1308	14.6	15.2	14.4	14.3	14.2	14.5
G99-1486	15.5	15.2	15.7	15.0	14.7	15.2
G99-2172	13.1	14.4	14.1	14.9	13.4	14.0
G99-3211	15.6	15.3	15.2	16.4	14.7	15.4
G99-3349	14.2	14.4	16.6	15.8	15.1	15.2
G99-3519	14.6	14.4	14.9	14.4	14.9	14.6
SC00-1075RR	15.0	15.7	15.3	15.0	15.9	15.4
SC00-977RR	12.1	13.0	13.0	12.7	12.4	12.6
SC99-1761	16.7	15.4	15.9	15.4	16.6	16.0
SC93-1287	11.5	14.1	12.9	11.5	12.7	12.5
SC99-280	16.4	17.4	16.0	17.1	13.0	16.0
SC99-284	18.3	15.9	18.3	18.7	15.3	17.3
SC99-615	14.9	13.8	16.2	14.6	15.6	15.0

**TABLE 83 ~ PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2002**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE* AL	MEAN
PRICHARD	42	29	35	25	38	29	34
COOK	42	29	37	35	36	34	35
Au99-1030	40	28	36	36	36	31	35
Au99-1977	40	25	37	31	40	36	35
Au99-2549	42	28	39	36	39	32	37
Au99-2577	41	26	34	35	38	38	35
Au99-3633	39	27	36	33	40	37	35
G99-1166	41	26	36	27	40	32	34
G99-1308	38	25	34	31	33	33	32
G99-1486	36	24	28	27	33	28	29
G99-2172	43	29	36	31	38	35	35
G99-3211	42	27	37	32	38	31	35
G99-3349	38	26	36	32	36	33	33
G99-3519	38	25	35	28	38	34	33
SC00-1075RR	40	27	35	37	38	32	35
SC00-977RR	41	28	38	34	41	35	36
SC99-1761	36	27	31	30	34	28	32
SC93-1287	39	29	36	33	39	33	35
SC99-280	41	26	38	35	40	38	36
SC99-284	38	26	33	33	39	35	34
SC99-615	43	28	35	34	37	34	35

\*Data not included in mean

**TABLE 84 ~ LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2002**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	BLACKVILLE SC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE* AL	MEAN
PRICHARD	2.0	2.0	1.0	2.0	2.0	1.0	1.8
COOK	2.0	2.0	1.0	3.0	2.0	1.0	2.0
Au99-1030	2.0	2.0	2.5	2.5	2.5	1.0	2.3
Au99-1977	2.0	1.5	1.0	2.0	1.5	1.0	1.6
Au99-2549	2.5	1.5	2.0	2.0	2.0	1.0	2.0
Au99-2577	2.5	2.0	1.5	2.5	2.0	1.0	2.1
Au99-3633	2.0	1.5	1.8	2.5	2.0	1.0	2.0
G99-1166	3.0	1.0	1.5	2.0	2.0	1.0	1.9
G99-1308	2.0	2.0	2.0	2.5	2.0	1.0	2.1
G99-1486	2.0	1.5	1.0	2.0	2.0	1.0	1.7
G99-2172	2.5	2.0	1.0	3.0	2.0	1.0	2.1
G99-3211	2.0	1.0	1.0	2.0	1.5	1.0	1.5
G99-3349	1.5	1.0	1.5	2.0	2.0	1.0	1.6
G99-3519	2.0	1.5	1.0	2.0	2.0	1.5	1.7
SC00-1075RR	2.0	1.5	1.0	2.0	1.5	1.0	1.6
SC00-977RR	2.5	2.0	2.3	2.5	2.0	1.0	2.3
SC99-1761	2.0	2.0	1.0	2.5	2.0	1.0	1.9
SC93-1287	3.0	3.0	2.3	3.0	3.0	1.5	2.9
SC99-280	2.0	1.5	1.5	2.0	2.0	1.0	1.8
SC99-284	2.5	1.5	1.0	2.0	2.0	1.0	1.8
SC99-615	4.0	2.5	2.0	3.0	2.0	1.0	2.7

\*Data not included in mean

**TABLE 85 ~ SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2002**

STRAIN/ VARIETY	ATHENS GA(A)	ATHENS GA(B)	JACKSON SPRINGS NC	PLAINS GA	MEAN
PRI CHARD	2.0	2.0	2.0	2.9	2.2
COOK	2.5	1.8	3.0	3.3	2.6
Au99-1030	3.5	3.0	4.0	3.5	3.5
Au99-1977	3.5	2.8	3.0	4.0	3.3
Au99-2549	2.8	2.3	4.0	3.5	3.1
Au99-2577	2.5	2.0	3.0	3.5	2.8
Au99-3633	2.5	2.0	3.0	2.5	2.5
G99-1166	2.5	2.0	3.0	3.3	2.7
G99-1308	2.3	1.8	3.0	2.3	2.3
G99-1486	2.5	1.8	3.0	2.8	2.5
G99-2172	2.5	1.5	3.0	3.5	2.6
G99-3211	2.0	2.0	4.0	3.3	2.8
G99-3349	2.3	2.0	3.0	2.8	2.5
G99-3519	2.3	1.5	4.0	3.0	2.7
SC00-1075RR	1.8	2.0	2.0	2.8	2.1
SC00-977RR	1.8	1.5	2.0	2.5	1.9
SC99-1761	2.5	2.0	3.0	3.3	2.7
SC93-1287	2.5	1.5	4.0	2.8	2.7
SC99-280	2.3	1.8	2.0	3.0	2.3
SC99-284	2.3	1.5	3.0	3.3	2.5
SC99-615	2.5	2.0	2.0	3.5	2.5