UNIFORM SOYBEAN TESTS

SOUTHERN STATES

2001

USDA-ARS
Crop Genetics and Production Research Unit

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INTRODUCTION

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

Eleven uniform test groups have been established to evaluate the best strains developed in the breeding programs. The groups 00 through IV are adapted in the northern part of the United States, and the groups IV-S through VIII are grown in the southern part. Within their area of adaptation, there is a maturity range of 12 to 18 days within each maturity class. The best public varieties available in each maturity class are used as check varieties with which to compare new strains as to seed yield, chemical composition, maturity, height, lodging, seed quality, and reaction to diseases and nematodes. For the groups grown in the southern area, the check varieties are: 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 area, the potential soybean-growing areas would include the 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 with the states. Different methods are used for extraction and reporting by the various laboratories.

POLICY ON EVALUATION AND RELEASE OF STRAINS

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

Qualifications for Participation in the Uniform Soybean Tests

1. **Participants must be willing and able to conduct unified tests with conventional strains and strains containing proprietary and/or transgenic traits.**

2. **Participants, upon submission of entries, must disclose pedigrees to the Uniform Soybean Test Coordinator for publication with performance data in the Uniform Soybean Test Report.**

3. **Participants are individually responsible to ensure that any transgenic entries that they submit are cleared for sale as commodity seed.**

Use of Uniform Soybean Test Entries in Soybean Breeding and Research

1. **Seed of Uniform Soybean Test entries is for evaluation in the Uniform Soybean Tests only, and may not be distributed to non-participants in these tests without prior approval by the originator of the entry.**

2. **Non-transgenic entries in the Uniform Soybean Test may be used by Uniform Soybean Test participants as parents only in biparental crosses or for developing recurrent selection populations. Transgenic entries may be used in crossing subject to similar rules unless licensing or patenting restrictions regarding ownership of the transgenic trait limit this use.**

3. **Uniform Soybean Test participants must obtain prior approval before using any entry, other than their own, for a recurrent parent in backcrossing, molecular research, genetic studies, or any other research which may lead to the citation of the entry in a patent.**

4. **Seed of any transgenic entry must not be used for further evaluation without written permission from the originator of the entry, and must be discarded at the end of the season, except for crossing purposes, subject to the restrictions outlined in the preceding sections two and three.**

5. **All published results from the USDA-ARS Uniform Soybean Tests Southern States may be used as a data base for statistical research and publication related to soybean breeding.**

Release of Uniform Soybean Test Entries

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

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STRAIN DESIGNATION

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

AU	**-**	**Alabama Agricultural Experiment Station, Auburn**
DT	**-**	**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 = Σ(Rating category x # plants receiving rating)/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.

<u>Soybean Cyst Nematode (SCN)</u>. 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*DS)/9.
DX is reported.

Frogeye Leaf Spot (FELS). FELS was evaluated for UIV-S and UV at Ullin, Illinois, in two plots 10 feet long. Disease incidence was rated on a 0-9 scale, with 0 = no visible symptoms, and 9 = 90% of leaf area covered.

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.

UNIFORM GROUP IV-S

2001

Uniform Group IV-S nurseries were planted at 18 locations. Data were obtained from 15 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, 2001

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	CHECK	
2. KS4694	CHECK	
3. LS97-1610	S90-1435 x Manokin	
4. LS97-3004	Pharaoh x K1191	
5. Md 94-5332	Clifford x Corsica	F5
6. Md 96-5275	Ky88-4080 x Manokin	F5
7. Md 96-5696	Ky88-4080 x Corsica	F5
8. Md 97-5905	Tn90-3 x Stressland	F5
9. Md 97-6491	Holladay x Stressland	F5
10. TN96-63	N85-578 x MANOKIN	
11. TN98-149	N87-325 x S88-1855	
12. V94-0198	DP 415 x Manokin	
13. V96-0332	Hutcheson x Clifford	

TABLE 2 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2001

STRAIN/	YIELD※			PROTEIN			OIL		
VARIETY	2001	00-01	99-01	2001	00-01	99-01	2001	00-01	99-01
MANOKIN	42.6	44.5	43.0	38.4	39.7	40.1	21.7	20.9	20.4
KS4694	45.0	45.7	43.5	40.4	41.2	41.4	21.7	20.9	20.4
LS97-1610	47.5	.	.	40.3	.	.	21.6	.	.
LS97-3004	41.6	.	.	39.9	.	.	22.1	.	.
Md 94-5332	45.9	46.5	.	40.7	41.4	.	21.7	21.0	.
Md 96-5275	46.0	46.6	.	40.0	40.5	.	21.3	20.8	.
Md 96-5696	44.6	46.0	.	41.9	42.8	.	20.9	20.3	.
Md 97-5905	44.9	.	.	39.5	.	.	22.3	.	.
Md 97-6491	45.4	.	.	43.3	.	.	19.9	.	.
TN96-63	50.2	48.6	.	39.1	39.9	.	21.9	21.2	.
TN98-149	49.2	.	.	40.3	.	.	20.8	.	.
V94-0198	47.4	47.5	45.6	40.5	41.8	41.9	21.2	20.5	20.1
V96-0332	46.2	47.6	.	40.0	40.7	.	21.1	20.5	.

※Data not included in mean: 2001 - Ullin, IL
2000 - Cooper, TX
1999 - Springfield, TN; Princeton, KY

TABLE 2 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
MANOKIN	W	10/01	2.0	30	2.1	12.5	T	T
KS4694	W	5-	1.6	33	2.3	14.8	G	BR
LS97-1610	P	1+	1.9	30	2.0	12.0	G	T
LS97-3004	W	9-	1.7	35	2.5	14.6	G	BR
Md 94-5332	P	0	1.5	30	2.3	16.9	T	BR
Md 96-5275	W	0	1.8	31	1.8	11.9	G	T
Md 96-5696	W	2-	1.8	36	2.5	13.4	G	BR
Md 97-5905	P	12-	1.9	38	3.1	13.3	G	BR
Md 97-6491	P	11-	1.4	34	2.9	15.3	T	BR
TN96-63	W	3+	2.5	32	1.8	11.9	G	T
TN98-149	W	1+	1.5	31	1.9	14.7	T	T
V94-0198	P	1-	2.1	34	2.1	13.7	T	T
V96-0332	W	0	1.9	32	2.1	14.7	G	BR

PEST REACTIONS

STRAIN/ VARIETY	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER	SDS DX	FELS
MANOKIN	2.0	1.0	3.7	2.0	2.0	S	R	0	2.0
KS4694	4.6	5.0	4.7	5.0	3.8	S	S	1	4.0
LS97-1610	4.3	1.0	3.6	1.5	2.3	S	MS	1	2.7
LS97-3004	2.8	1.1	4.8	1.3	2.8	S	?	9	0.3
Md 94-5332	4.1	5.0	4.9	4.5	3.0	R	R	12	1.0
Md 96-5275	3.4	1.0	4.4	5.0	2.3	S	R	3	2.0
Md 96-5696	4.9	5.0	5.0	4.0	3.0	R	R	7	3.0
Md 97-5905	4.6	4.7	4.6	5.0	3.3	S	MS	6	2.7
Md 97-6491	5.0	4.9	5.0	5.0	4.0	R	MR	3	1.0
TN96-63	4.6	1.0	5.0	5.0	1.5	S	R	0	0.3
TN98-149	4.9	3.2	4.9	4.5	2.0	S	MS	1	0.0
V94-0198	4.9	1.0	5.0	2.0	1.0	R	R	11	0.7
V96-0332	4.3	5.0	4.4	4.3	3.3	R	R	1	1.7

TABLE 3 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2001

EAST

STRAIN/ VARIETY	GEORGETOWN DE	ORANGE VA	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	38.1	31.5	42.2	57.9	42.4
KS4694	56.2	45.6	37.1	59.3	49.6
LS97-1610	55.2	37.1	48.7	54.8	48.9
LS97-3004	49.1	37.1	54.6	53.5	48.6
Md 94-5332	54.0	32.7	47.3	58.8	48.2
Md 96-5275	56.2	31.5	49.2	57.3	48.6
Md 96-5696	53.8	33.5	48.6	58.0	48.5
Md 97-5905	53.2	42.0	48.1	58.1	50.3
Md 97-6491	50.5	43.5	61.0	55.4	52.6
TN96-63	57.6	42.8	43.2	62.3	51.5
TN98-149	63.3	40.9	46.1	61.1	52.9
V94-0198	52.3	45.2	45.7	53.4	49.2
V96-0332	67.4	40.3	40.8	63.6	53.0
L.S.D. (0.05)	9.0	6.0	.	6.6	.
C.V. (%)	9.9	8.9	14.6	6.7	.

TABLE 3 - Continued

SOUTH

STRAIN/ VARIETY	KNOXVILLE TN	PRINCETON KY	SPRINGFIELD TN	STARKVILLE MS	ULLIN⁕ IL	MEAN
MANOKIN	53.7	40.0	33.7	46.5	23.7	43.5
KS4694	53.0	57.7	42.4	32.1	30.8	46.3
LS97-1610	48.2	55.5	35.9	52.1	30.3	47.9
LS97-3004	37.6	53.1	36.6	35.1	40.3	40.6
Md 94-5332	34.7	54.0	49.9	43.0	38.0	45.4
Md 96-5275	51.7	58.3	39.5	55.9	36.3	51.4
Md 96-5696	46.3	53.7	41.6	42.5	41.4	46.0
Md 97-5905	42.6	54.6	50.8	36.4	31.4	46.1
Md 97-6491	35.8	51.3	47.3	34.5	43.0	42.2
TN96-63	45.5	54.7	41.0	55.2	41.3	49.1
TN98-149	40.9	61.9	54.6	53.0	41.5	52.6
V94-0198	49.3	52.5	52.7	55.1	44.2	52.4
V96-0332	44.8	58.1	53.1	54.6	33.1	52.7
L.S.D. (0.05)	7.7	9.8	9.9	5.1	17.4	.
C.V. (%)	10.2	10.7	12.7	6.7	24.4	.

⁕**Data not included in mean.**

TABLE 3 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PINE TREE✳ AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	50.8	41.2	22.2	51.4	42.5	46.1	46.4
KS4694	64.9	41.2	34.3	41.7	41.8	56.2	49.2
LS97-1610	62.7	47.3	39.4	48.2	46.7	58.5	52.7
LS97-3004	53.3	38.7	44.0	33.8	41.0	51.0	43.6
Md 94-5332	57.8	39.8	40.6	45.5	58.4	66.9	53.7
Md 96-5275	47.9	40.8	36.5	50.8	45.1	49.7	46.9
Md 96-5696	50.2	38.8	34.3	43.7	51.0	60.2	48.8
Md 97-5905	49.5	40.8	34.4	48.0	48.3	54.1	48.1
Md 97-6491	60.0	39.1	40.3	49.1	51.8	53.3	50.7
TN96-63	66.2	48.6	39.3	52.7	55.0	67.8	58.1
TN98-149	67.6	45.2	41.6	47.8	47.8	58.9	53.4
V94-0198	56.2	45.6	39.1	45.7	45.3	56.5	49.8
V96-0332	49.9	37.8	38.4	48.1	36.3	52.4	44.9
L.S.D. (0.05)	10.3	5.2	10.7	7.1	5.0	12.2	.
C.V. (%)	8.0	5.8	17.2	9.0	6.3	12.9	.

✳Data not included in mean.

TABLE 3 - Continued

WEST

STRAIN/ VARIETY	MCCUNE KS	PITTSBURG KS	PROSPER⁕ TX	MEAN
MANOKIN	29.1	34.8	10.3	31.9
KS4694	22.8	22.4	9.1	22.6
LS97-1610	27.8	33.3	13.8	30.6
LS97-3004	22.8	27.1	14.0	25.0
Md 94-5332	23.9	21.4	12.4	22.7
Md 96-5275	26.5	29.8	13.4	28.1
Md 96-5696	23.4	24.4	15.2	23.9
Md 97-5905	23.6	23.8	19.0	23.7
Md 97-6491	22.4	25.8	19.5	24.1
TN96-63	27.7	32.6	19.1	30.2
TN98-149	26.3	23.1	17.8	24.7
V94-0198	25.8	29.7	11.7	27.7
V96-0332	23.0	23.2	14.0	23.1
L.S.D. (0.05)	3.1	4.0	1.0	.
C.V. (%)	7.4	9.1	.	.

⁕**Data not included in mean.**

TABLE 4 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2001

OIL PERCENTAGES

STRAIN/ VARIETY	KNOXVILLE TN	MCCUNE KS	ORANGE VA	PINE TREE AR	PITTS-BURG KS	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	PRINCE-TON KY	PROSPER❊ TX	QUEENSTOWN MD	STONEVILLE MS	ULLIN❊ IL	WARSAW VA	MEAN
MANOKIN	22.7	21.4	20.3	.	.	22.3	.	20.6	22.6	21.8	23.1	19.5	21.1	21.7
KS4694	21.6	21.9	21.3	.	.	21.9	.	20.8	20.7	21.6	23.1	21.2	21.5	21.7
LS97-1610	22.1	21.9	20.2	.	.	21.6	.	21.8	21.6	21.3	21.9	21.2	21.8	21.6
LS97-3004	21.7	21.2	21.6	.	.	23.2	.	21.3	22.4	21.4	24.3	22.5	22.3	22.1
Md 94-5332	22.5	21.6	21.1	.	.	22.0	.	20.7	19.7	20.9	22.7	21.8	22.0	21.7
Md 96-5275	22.4	21.5	20.2	.	.	21.2	.	21.4	22.9	20.3	22.7	21.4	21.0	21.3
Md 96-5696	22.0	20.1	19.8	.	.	20.4	.	22.3	21.9	20.4	21.5	20.0	21.0	20.9
Md 97-5905	22.7	22.1	22.0	.	.	23.0	.	21.5	21.8	21.2	23.4	22.2	22.1	22.3
Md 97-6491	20.4	18.3	20.1	.	.	20.1	.	19.1	20.3	19.6	21.3	20.4	20.1	19.9
TN96-63	23.3	22.2	21.4	.	.	22.4	.	20.7	21.6	20.6	22.9	21.9	22.0	21.9
TN98-149	21.1	21.0	20.2	.	.	21.2	.	20.1	20.4	19.9	20.8	21.9	21.7	20.8
V94-0198	22.5	21.4	21.0	.	.	21.7	.	20.2	21.2	20.2	21.8	21.0	20.4	21.2
V96-0332	21.1	21.4	20.6	.	.	21.6	.	20.4	18.9	21.2	21.2	21.0	20.9	21.1

❊**Data not included in mean.**

TABLE 4 - Continued

PROTEIN PERCENTAGES

STRAIN/ VARIETY	KNOXVILLE TN	MCCUNE KS	ORANGE VA	PINE TREE AR	PITTS-BURG KS	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	PRINCE-TON KY	PROSPER❊ TX	QUEENSTOWN MD	STONEVILLE MS	ULLIN❊ IL	WARSAW VA	MEAN
MANOKIN	38.5	38.0	38.4	.	.	38.7	.	39.2	40.0	36.6	41.3	41.2	36.8	38.4
KS4694	40.9	39.2	39.8	.	.	40.9	.	41.2	42.3	39.8	41.5	41.2	40.2	40.4
LS97-1610	42.0	39.2	41.7	.	.	41.5	.	37.4	42.6	40.1	42.1	42.1	38.7	40.3
LS97-3004	40.7	41.0	39.4	.	.	39.5	.	40.2	39.5	39.1	40.0	40.3	38.9	39.9
Md 94-5332	41.2	40.5	40.3	.	.	41.4	.	40.9	44.6	40.8	40.8	40.7	39.8	40.7
Md 96-5275	39.9	39.3	39.7	.	.	40.9	.	39.3	39.6	40.5	41.0	40.4	39.3	40.0
Md 96-5696	42.0	42.5	43.0	.	.	44.0	.	38.1	41.9	41.8	42.9	42.5	41.0	41.9
Md 97-5905	40.3	38.7	38.2	.	.	39.2	.	39.1	40.2	40.4	41.1	40.5	39.0	39.5
Md 97-6491	43.4	45.3	41.5	.	.	44.3	.	42.7	40.8	42.9	43.3	43.9	42.8	43.3
TN96-63	39.5	38.3	38.4	.	.	39.2	.	39.7	40.7	39.0	39.0	40.0	39.3	39.1
TN98-149	40.8	40.2	40.3	.	.	41.2	.	40.1	42.8	41.2	41.3	41.1	36.9	40.3
V94-0198	40.5	38.8	39.1	.	.	41.1	.	41.4	42.7	40.5	42.4	41.1	40.5	40.5
V96-0332	40.5	39.0	39.3	.	.	40.4	.	40.6	43.4	39.5	41.1	41.2	39.2	40.0

❊Data not included in mean.

TABLE 4 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	KNOXVILLE TN	MCCUNE KS	ORANGE VA	PINE✳ TREE AR	PITTS- BURG KS	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	PRINCE- TON KY	PROSPER TX	QUEENSTOWN MD	STONEVILLE MS	ULLIN✳ IL	WARSAW VA	MEAN
MANOKIN	12.2	14.6	11.8	14.6	13.8	12.9	11.0	12.4	.	12.7	11.0	12.4	13.0	12.5
KS4694	16.0	15.6	15.5	16.1	14.1	13.5	16.7	11.7	.	14.0	16.0	10.8	14.8	14.8
LS97-1610	12.2	12.6	10.8	16.2	12.5	12.2	12.5	11.5	.	12.2	11.7	10.4	12.2	12.0
LS97-3004	13.2	15.0	14.3	16.7	15.0	12.3	14.0	17.6	.	14.1	15.9	11.3	14.1	14.6
Md 94-5332	15.8	17.3	15.4	15.9	17.2	16.7	18.4	12.2	.	18.9	20.1	14.5	17.4	16.9
Md 96-5275	11.6	12.1	11.6	16.4	12.2	11.4	12.8	11.3	.	12.9	10.1	11.0	12.7	11.9
Md 96-5696	13.2	14.5	11.7	15.8	14.2	12.2	15.2	12.8	.	13.3	14.1	12.0	13.1	13.4
Md 97-5905	13.4	13.9	14.2	16.0	14.7	12.1	12.0	12.9	.	12.9	13.3	9.8	14.0	13.3
Md 97-6491	14.8	13.2	16.5	17.2	15.1	14.1	15.6	16.1	.	14.6	15.5	14.2	17.2	15.3
TN96-63	10.9	11.6	10.2	14.7	12.2	16.5	12.9	11.1	.	10.5	11.9	11.4	11.1	11.9
TN98-149	13.5	15.1	13.3	17.8	15.3	13.1	16.2	15.5	.	15.3	14.2	13.1	15.5	14.7
V94-0198	13.8	14.3	13.3	17.2	14.9	11.5	13.4	13.9	.	14.1	13.8	12.6	14.1	13.7
V96-0332	14.0	14.0	13.1	17.0	14.7	14.9	15.2	14.4	.	15.6	15.2	14.0	15.9	14.7

✳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, 2001

EAST

STRAIN/ VARIETY	GEORGETOWN DE	ORANGE VA	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	.	.	10/13	10/13	10/13
KS4694	.	.	-5	-9	-9
LS97-1610	.	.	0	-1	-3
LS97-3004	.	.	-4	-9	-9
Md 94-5332	.	.	2	-3	-3
Md 96-5275	.	.	1	-1	-2
Md 96-5696	.	.	-4	-5	-6
Md 97-5905	.	.	-8	-10	-12
Md 97-6491	.	.	-6	-11	-11
TN96-63	.	.	2	0	-1
TN98-149	.	.	3	0	1
V94-0198	.	.	0	-4	-4
V96-0332	.	.	0	-2	-3

SOUTH

STRAIN/ VARIETY	KNOXVILLE TN	PRINCETON KY	SPRINGFIELD TN	STARKVILLE MS	ULLIN✳ IL	MEAN
MANOKIN	09/30	.	10/03	.	10/06	10/01
KS4694	-9	.	-1	.	-14	-4
LS97-1610	-3	.	1	.	-11	0
LS97-3004	-14	.	0	.	-11	-16
Md 94-5332	-8	.	1	.	-8	-3
Md 96-5275	-4	.	1	.	-11	-1
Md 96-5696	-13	.	1	.	-11	-5
Md 97-5905	-16	.	-4	.	-14	-18
Md 97-6491	-18	.	-3	.	-13	-18
TN96-63	-3	.	3	.	2	1
TN98-149	-4	.	2	.	-1	0
V94-0198	-7	.	0	.	-10	-3
V96-0332	-8	.	1	.	-8	-3

✳**Data not included in mean.**

TABLE 5 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PINE✳ TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	.	.	09/29	09/23	10/05	09/11	09/23
KS4694	.	.	-16	-5	-7	-3	-5
LS97-1610	.	.	-3	2	0	1	1
LS97-3004	.	.	-9	-9	-7	-4	-7
Md 94-5332	.	.	3	0	0	2	1
Md 96-5275	.	.	-9	2	-2	-2	-1
Md 96-5696	.	.	-3	1	-1	0	0
Md 97-5905	.	.	-9	-10	-9	-8	-9
Md 97-6491	.	.	-9	-10	-7	-3	-7
TN96-63	.	.	2	6	3	4	4
TN98-149	.	.	3	5	1	-1	2
V94-0198	.	.	-3	-3	-3	-1	-2
V96-0332	.	.	0	3	0	3	2

✳**Data not included in mean.**

TABLE 6 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2001

EAST

STRAIN/ VARIETY	GEORGETOWN DE	ORANGE VA	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	32	40	32	27	33
KS4694	35	42	27	31	34
LS97-1610	33	39	29	25	32
LS97-3004	38	43	35	32	37
Md 94-5332	36	38	28	25	32
Md 96-5275	36	37	31	27	33
Md 96-5696	37	41	29	32	35
Md 97-5905	36	46	32	33	37
Md 97-6491	35	39	36	29	35
TN96-63	36	41	29	29	34
TN98-149	37	41	28	27	33
V94-0198	35	43	34	26	34
V96-0332	37	41	32	29	35

SOUTH

STRAIN/ VARIETY	KNOXVILLE TN	PRINCETON KY	SPRINGFIELD TN	STARKVILLE MS	ULLIN⁕ IL	MEAN
MANOKIN	30	36	34	21	17	30
KS4694	31	42	38	24	32	34
LS97-1610	27	42	39	22	21	33
LS97-3004	29	44	42	27	35	36
Md 94-5332	29	42	38	20	22	32
Md 96-5275	29	41	36	22	24	32
Md 96-5696	33	43	39	28	44	36
Md 97-5905	34	45	45	30	37	39
Md 97-6491	29	44	42	27	34	36
TN96-63	30	39	42	22	23	33
TN98-149	30	43	38	21	25	33
V94-0198	30	42	46	26	30	36
V96-0332	29	42	44	24	26	35

⁕**Data not included in mean.**

TABLE 6 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PINE* TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	32	27	38	25	32	22	28
KS4694	39	38	36	36	34	30	35
LS97-1610	35	30	34	26	32	21	29
LS97-3004	39	40	41	38	35	28	36
Md 94-5332	30	29	35	25	33	23	28
Md 96-5275	31	31	36	31	31	22	29
Md 96-5696	48	43	38	42	36	38	41
Md 97-5905	47	45	41	39	38	38	41
Md 97-6491	38	35	42	37	36	30	35
TN96-63	32	33	38	31	36	29	32
TN98-149	36	31	33	25	34	27	31
V94-0198	39	34	40	34	35	28	34
V96-0332	37	32	37	32	31	26	31

***Data not included in mean.**

WEST

STRAIN/ VARIETY	MCCUNE KS	PITTSBURG KS	PROSPER* TX	MEAN
MANOKIN	25	30	16	27
KS4694	27	25	18	26
LS97-1610	27	28	15	28
LS97-3004	27	29	20	28
Md 94-5332	25	26	17	25
Md 96-5275	26	29	18	27
Md 96-5696	30	27	21	28
Md 97-5905	33	30	23	32
Md 97-6491	27	28	21	28
TN96-63	28	30	21	29
TN98-149	25	25	18	25
V94-0198	31	27	19	29
V96-0332	24	26	17	25

***Data not included in mean.**

TABLE 7 - LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2001

EAST

STRAIN/ VARIETY	GEORGETOWN DE	ORANGE VA	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	2.7	3.0	3.3	2.0	2.8
KS4694	2.3	1.0	1.3	1.0	1.4
LS97-1610	2.7	2.3	2.8	2.3	2.5
LS97-3004	2.0	1.7	1.8	1.0	1.6
Md 94-5332	2.0	1.3	1.2	2.0	1.6
Md 96-5275	2.7	2.3	2.3	2.0	2.3
Md 96-5696	2.0	1.7	1.5	1.7	1.7
Md 97-5905	1.7	1.3	1.8	1.3	1.5
Md 97-6491	1.7	1.0	2.0	1.3	1.5
TN96-63	4.3	3.7	3.7	3.0	3.7
TN98-149	2.0	2.0	2.0	1.7	1.9
V94-0198	2.7	3.0	3.2	2.0	2.7
V96-0332	2.3	3.0	2.0	2.0	2.3

SOUTH

STRAIN/ VARIETY	KNOXVILLE TN	PRINCETON KY	SPRINGFIELD TN	STARKVILLE MS	ULLIN⁕ IL	MEAN
MANOKIN	1.5	3.0	3.7	1.0	3.0	2.3
KS4694	1.5	2.7	3.3	1.0	1.5	2.1
LS97-1610	2.0	2.2	3.0	1.0	1.7	2.0
LS97-3004	1.3	2.5	4.0	1.0	1.3	2.2
Md 94-5332	1.3	2.5	2.7	1.0	1.0	1.9
Md 96-5275	1.8	2.5	3.0	1.0	1.5	2.1
Md 96-5696	1.5	2.7	3.0	1.0	2.3	2.0
Md 97-5905	1.5	2.3	3.0	1.0	1.7	2.0
Md 97-6491	1.2	2.0	2.7	1.0	1.3	1.7
TN96-63	2.2	2.8	3.3	1.0	3.7	2.3
TN98-149	1.2	2.3	2.0	1.0	1.0	1.6
V94-0198	1.3	2.5	3.7	1.0	1.7	2.1
V96-0332	1.7	2.7	3.0	1.0	1.7	2.1

⁕**Data not included in mean.**

TABLE 7 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PINE☼ TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	1.5	1.0	3.0	1.5	1.5	2.0	1.5
KS4694	1.0	2.0	1.0	1.5	1.2	2.0	1.5
LS97-1610	1.0	2.5	2.0	1.2	2.0	2.0	1.7
LS97-3004	2.0	2.0	2.0	1.2	1.2	2.0	1.7
Md 94-5332	1.0	1.0	1.0	1.2	1.3	2.0	1.3
Md 96-5275	1.0	2.0	3.0	1.0	1.5	2.0	1.5
Md 96-5696	1.5	2.0	2.0	2.0	1.7	3.0	2.0
Md 97-5905	3.0	3.0	1.0	1.5	1.5	3.0	2.4
Md 97-6491	1.0	1.0	1.0	1.3	1.0	2.0	1.3
TN96-63	1.5	3.0	3.0	1.5	2.8	2.0	2.2
TN98-149	1.0	1.0	1.0	1.0	1.3	2.0	1.3
V94-0198	1.0	3.0	3.0	1.7	2.0	2.0	1.9
V96-0332	1.5	2.0	2.0	1.5	1.2	2.0	1.6

☼**Data not included in mean.**

WEST

STRAIN/ VARIETY	MCCUNE KS	PITTSBURG KS	MEAN
MANOKIN	1.0	1.0	1.0
KS4694	1.0	1.0	1.0
LS97-1610	1.0	1.0	1.0
LS97-3004	1.0	1.0	1.0
Md 94-5332	1.0	1.0	1.0
Md 96-5275	1.0	1.0	1.0
Md 96-5696	1.0	1.0	1.0
Md 97-5905	1.0	1.0	1.0
Md 97-6491	1.0	1.0	1.0
TN96-63	1.0	1.0	1.0
TN98-149	1.0	1.0	1.0
V94-0198	1.0	1.0	1.0
V96-0332	1.0	1.0	1.0

TABLE 8 - SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 2001

EAST

STRAIN/ VARIETY	ORANGE VA	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	2.3	1.0	1.3	1.6
KS4694	2.0	1.0	2.0	1.7
LS97-1610	2.0	1.0	2.0	1.7
LS97-3004	2.0	1.3	2.3	1.9
Md 94-5332	2.0	1.0	1.3	1.4
Md 96-5275	2.0	1.0	1.0	1.3
Md 96-5696	2.0	1.0	2.0	1.7
Md 97-5905	3.0	1.0	3.0	2.3
Md 97-6491	2.7	1.0	3.0	2.2
TN96-63	1.0	1.0	1.7	1.2
TN98-149	1.3	1.0	1.3	1.2
V94-0198	2.0	1.0	1.3	1.4
V96-0332	2.3	1.0	2.0	1.8

SOUTH

STRAIN/ VARIETY	KNOXVILLE TN	PRINCETON KY	ULLIN⁕ IL	MEAN
MANOKIN	2.0	2.0	1.0	2.0
KS4694	2.0	3.0	3.5	2.5
LS97-1610	2.0	2.0	2.0	2.0
LS97-3004	3.0	3.0	2.3	3.0
Md 94-5332	2.0	2.0	2.0	2.0
Md 96-5275	2.0	2.0	1.0	2.0
Md 96-5696	2.0	4.0	1.3	3.0
Md 97-5905	3.0	4.0	4.3	3.5
Md 97-6491	3.0	4.0	4.7	3.5
TN96-63	1.0	3.0	2.0	2.0
TN98-149	1.0	3.0	1.7	2.0
V94-0198	1.0	3.0	1.3	2.0
V96-0332	1.0	2.0	2.0	1.5

⁕Data not included in mean.

TABLE 8 - Continued

DELTA

STRAIN/ VARIETY	PINE TREE✳ AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	2.0	3.0	3.0	2.0	2.7
KS4694	1.7	3.0	2.0	4.0	3.0
LS97-1610	2.3	3.0	3.0	2.0	2.7
LS97-3004	2.3	3.0	3.0	2.0	2.7
Md 94-5332	2.3	3.0	3.0	3.0	3.0
Md 96-5275	2.3	3.0	2.0	2.0	2.3
Md 96-5696	2.3	3.0	3.0	4.0	3.3
Md 97-5905	1.3	3.0	3.0	4.0	3.3
Md 97-6491	2.0	3.0	3.0	4.0	3.3
TN96-63	2.0	3.0	2.0	2.0	2.3
TN98-149	2.0	3.0	3.0	2.0	2.7
V94-0198	2.0	3.0	3.0	3.0	3.0
V96-0332	2.7	3.0	3.0	3.0	3.0

✳**Data not included in mean.**

WEST

STRAIN/ VARIETY	MCCUNE KS	PITTSBURG KS	MEAN
MANOKIN	2.0	2.0	2.0
KS4694	2.0	2.0	2.0
LS97-1610	1.0	2.0	1.5
LS97-3004	2.0	3.0	2.5
Md 94-5332	3.0	3.0	3.0
Md 96-5275	1.0	2.0	1.5
Md 96-5696	2.0	2.0	2.0
Md 97-5905	3.0	4.0	3.5
Md 97-6491	2.0	3.0	2.5
TN96-63	1.0	2.0	1.5
TN98-149	1.0	2.0	1.5
V94-0198	2.0	2.0	2.0
V96-0332	2.0	2.0	2.0

PRELIMINARY GROUP IV-S

2001

Preliminary Group IV-S nurseries were planted at 8 locations. Data were obtained from 7 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, 2001

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	CHECK	
2. KS4694	CHECK	
3. DT97-4290	A5979 x DP3478	
4. DT97-4293	A5979 x DP3478	
5. DT98-9102	N90-516 x P9592	
6. K1524	MANOKIN x K1307	F5
7. K1525	S92-2713 x KY88-4080	F5
8. K1526	MANOKIN x K1307	F5
9. K1527	MANOKIN x K1305	F5
10. K1528	S92-2713 x KY88-4080	F5
11. LS98-0160	Northup King 46-44 x Pioneer 9362	
12. LS98-0358	LS90-1920 x Dairyland Seeds 373	
13. LS98-1771	LS79-238 x LS92-1800	
14. LS98-1782	LS79-238 x LS92-1800	
15. LS98-3032	Northup King 46-44 x Pioneer 9451	
16. Md 98-5579	S91-5371-19 x LN89-3615	F5
17. Md 98-5584	S91-5371-19 x LN89-3615	F5
18. Md 98-6334	K1276 x Stressland	F5
19. R98-1523	A 5403 x Hartz 5545	
20. R98-1692	KY88-4080 x Hartz 5545	
21. R98-1817	Hartz 5545 x KS 4895	
22. S99-1116	Anand x S94-1808	
23. S99-1842	Delsoy 5710 x HY 574	
24. S99-2281	N90-516 x S92-1069	
25. S99-4073	Delsoy 5500 x CX1512-44	
26. TN96-115	K1192 x MANOKIN	
27. TN98-170	TN88-63 x TN 5-92	
28. TN98-99	TN4-94 x TN91-55	
29. TN99-184	K1309 x V90-1012	
30. TN99-186	K1309 x V90-1012	

TABLE 10 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP IV-S, 2001 - MEAN OF 7 LOCATIONS

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT---- PROTEIN	OIL	STEM CANKER	SCN 2	SCN 3	SCN 14	FL COLOR	PUB. COLOR	POD COLOR
MANOKIN	44.7	10/02	2.3	29	2.3	12.0	39.3	21.4	R	1.8	1.0	3.0	W	T	T
KS4694	48.9	8-	1.7	34	2.3	14.5	40.9+	21.4	S	5.0	4.6	4.0	W	G	BR
DT97-4290	50.8+	3-	2.0	37	2.4	13.8	40.6+	20.6-	R	5.0	4.7	4.3	P	T	BR
DT97-4293	49.8	4-	1.9	37	2.3	13.5	40.6+	20.4-	R	5.0	4.8	4.3	P	T	BR
DT98-9102	49.9	0	2.0	32	2.2	14.4	39.4	21.4	MR	5.0	5.0	3.2	W	G	T
K1524	47.8	1+	1.8	28	2.0	11.7	40.3+	20.4-	S	4.3	1.5	3.1	P	T	T
K1525	48.0	0	1.9	30	1.8	14.4	41.1+	21.5	R	1.2	.	2.0	W	G	BR
K1526	50.2+	1-	2.0	27	2.3	12.2	38.5	21.8	S	4.3	1.0	2.3	P	T	T
K1527	48.0	2-	1.8	30	1.9	11.8	39.5	22.2+	SEG	4.0	1.0	2.0	P	G	T
K1528	46.7	1+	1.9	36	2.3	17.0	41.2+	21.3	R	2.2	1.0	1.2	W	T	T
LS98-0160	44.9	10-	1.8	36	2.6	13.0	42.2+	20.8	S	3.8	1.3	1.0	W	T	T
LS98-0358	47.9	5-	1.5	28	2.6	15.3	40.6+	21.8	R	4.0	2.2	1.0	W	T	T
LS98-1771	46.3	6-	1.7	30	2.0	12.1	40.8+	20.9	R	4.3	1.7	1.9	P	T	T
LS98-1782	47.9	6-	1.8	30	2.0	11.8	40.8+	21.1	R	3.9	2.0	2.0	P	T	T
LS98-3032	38.6-	12-	1.6	35	3.2	14.2	41.3+	21.6	S	3.4	1.3	1.0	P	T	BR
Md 98-5579	49.9	9-	2.3	34	2.5	14.2	41.4+	20.9	R	4.4	3.0	1.3	P	T	BR
Md 98-5584	48.5	10-	2.8	36	3.0	15.3	41.8+	21.3	S	2.1	3.3	1.0	P	T	BR
Md 98-6334	48.1	10-	2.2	40	2.8	12.3	41.3+	21.9	S	4.9	3.5	4.0	P	T	BR
R98-1523	49.4	1+	2.1	33	1.8	11.6	40.3+	20.3-	R	3.0	1.0	1.1	P	G	T
R98-1692	47.9	2+	2.2	35	1.7	12.6	41.0+	20.8	R	4.9	1.5	3.9	W	G	T
R98-1817	53.0+	0	1.9	31	1.8	11.2	41.3+	20.2-	R	4.7	4.7	3.8	P	G	T
S99-1116	49.5	0	1.9	36	2.2	12.9	40.8+	20.2-	R	1.0	1.7	1.5	P	T	T
S99-1842	44.1	0	2.8	37	1.7	11.7	39.1	19.6-	MR	1.1	2.6	1.0	W	T	T
S99-2281	54.7+	1+	2.0	34	1.8	12.7	39.7	20.7	S	1.0	1.0	1.0	W	G	T
S99-4073	46.1	0	1.8	40	2.5	15.9	39.8	21.6	R	4.3	5.0	3.0	P	T	T
TN96-115	47.4	2-	2.0	29	1.7	10.6	41.4+	19.9-	R	3.7	3.8	1.9	W	G	T
TN98-170	48.8	1-	1.9	29	1.8	11.9	40.2	21.1	R	1.3	1.8	3.5	W	T	T
TN98-99	47.3	4-	2.1	37	2.3	13.3	40.8+	21.5	R	3.8	1.0	1.4	P	T	T
TN99-184	52.9+	0	1.7	27	1.8	13.5	41.0+	20.3-	R	4.7	5.0	4.3	P	G	T
TN99-186	49.4	0	1.8	30	2.3	13.7	40.8+	21.4	R	5.0	5.0	3.8	P	G	T
OVERALL MEAN	48.2						40.6	21.0							
LSD (.05)	5.4						1.0	0.7							
C.V.	11%						2%	3%							

TABLE 11 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2001

STRAIN/ VARIETY	KEISER AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN✲ IL	WARSAW VA	MEAN
MANOKIN	40.7	38.7	46.8	29.0	49.0	53.2	17.3	55.7	44.7
KS4694	53.3+	17.7-	46.7	53.6+	59.5+	53.8	33.2+	58.1	48.9
DT97-4290	59.0+	22.8-	49.4	63.3+	50.6	60.2	21.9	50.7	50.8+
DT97-4293	59.5+	21.7-	45.8	66.3+	45.3	58.5	43.9+	51.7	49.8
DT98-9102	53.1+	29.7-	53.1	54.8+	47.1	57.5	50.0+	53.7	49.9
K1524	49.9	28.7-	44.6	53.3+	48.6	52.3	35.0+	57.4	47.8
K1525	55.8+	24.5-	45.3	51.4+	47.8	56.3	36.7+	55.2	48.0
K1526	54.7+	36.8	42.1	53.6+	46.2	57.7	42.5+	60.3	50.2+
K1527	51.1	27.9-	43.6	59.2+	47.7	58.1	29.3	48.5	48.0
K1528	47.5	27.5-	44.8	47.4+	50.5	53.9	32.6+	55.5	46.7
LS98-0160	49.9	25.5-	50.7	45.6+	50.1	44.0-	37.8+	48.8	44.9
LS98-0358	54.9+	28.4-	48.6	56.9+	49.0	47.6	35.7+	49.8	47.9
LS98-1771	49.0	27.9-	46.6	55.6+	45.2	52.8	26.0	46.9	46.3
LS98-1782	47.3	30.1-	48.3	49.8+	50.3	57.4	36.3+	52.1	47.9
LS98-3032	47.1	25.3-	36.7-	35.4	47.5	36.5-	18.5	41.9-	38.6-
Md 98-5579	62.0+	21.8-	49.4	57.6+	53.0	56.9	38.2+	48.8	49.9
Md 98-5584	59.6+	26.8-	49.3	50.5+	50.9	51.3	31.0+	51.3	48.5
Md 98-6334	56.4+	18.1-	41.3	53.1+	53.2	54.4	31.4+	60.4	48.1
R98-1523	52.5+	31.0-	43.9	58.9+	48.9	51.2	46.1+	59.9	49.4
R98-1692	49.4	25.9-	45.9	57.8+	42.8	58.7	39.5+	55.0	47.9
R98-1817	55.4+	25.2-	47.2	66.3+	48.7	68.3+	41.0+	60.3	53.0+
S99-1116	50.1	27.7-	46.1	54.0+	48.6	61.7+	36.5+	58.7	49.5
S99-1842	46.7	33.3-	46.9	43.5+	37.8-	50.9	41.0+	49.5	44.1
S99-2281	55.5+	39.2	53.1	58.9+	54.4	64.5+	56.8+	57.3	54.7+
S99-4073	38.6	26.7-	48.9	48.5+	53.5	52.1	41.6+	54.3	46.1
TN96-115	57.6+	29.8-	52.4	46.7+	47.6	51.6	41.5+	46.2	47.4
TN98-170	53.3+	37.5	50.6	46.8+	49.7	53.2	44.9+	50.2	48.8
TN98-99	49.6	30.6-	45.4	54.6+	47.8	54.0	37.1+	49.3	47.3
TN99-184	56.6+	29.2-	42.7	60.9+	51.7	68.8+	49.2+	60.5	52.9+
TN99-186	56.5+	24.8-	44.7	56.0+	44.8	65.8+	45.8+	53.3	49.4
L.S.D. (0.05)	11.4	5.4	8.2	9.9	9.1	7.6	12.9	9.8	5.4
C.V. (%)	10.5	9.5	8.5	9.1	9.1	6.7	16.5	8.9	10.7

✲Data not included in mean.

TABLE 12 - OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2001

STRAIN/ VARIETY	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN✲ IL	WARSAW VA	MEAN
MANOKIN	21.8	20.8	20.0	23.1	21.4	21.2	21.4
KS4694	21.7	20.6	21.1	22.7	21.2	20.7	21.4
DT97-4290	20.8	19.8	19.7	21.5	20.5	21.3	20.6
DT97-4293	20.3	19.4	19.6	21.9	20.8	20.7	20.4
DT98-9102	22.0	20.9	20.5	22.7	22.5	21.1	21.4
K1524	20.5	19.9	19.4	22.0	20.3	20.4	20.4
K1525	21.5	21.2	21.2	21.6	21.5	22.2	21.5
K1526	21.9	20.9	21.1	23.7	22.5	21.6	21.8
K1527	22.9	21.8	21.1	23.1	22.1	22.3	22.2
K1528	20.8	20.8	21.0	21.9	21.4	21.8	21.3
LS98-0160	20.9	19.8	20.0	22.0	20.9	21.2	20.8
LS98-0358	21.9	21.3	19.7	23.9	22.3	22.3	21.8
LS98-1771	20.3	21.0	20.2	21.1	21.0	22.1	20.9
LS98-1782	21.4	20.9	20.3	21.0	21.4	22.0	21.1
LS98-3032	21.7	20.4	21.2	23.2	21.5	21.7	21.6
Md 98-5579	20.0	20.9	20.3	22.2	21.4	21.3	20.9
Md 98-5584	20.9	20.6	20.0	23.1	21.5	21.7	21.3
Md 98-6334	21.5	21.6	20.9	23.7	22.0	21.9	21.9
R98-1523	20.1	19.8	19.4	21.9	20.5	20.1	20.3
R98-1692	20.5	21.1	19.6	21.6	20.9	21.2	20.8
R98-1817	20.3	19.6	19.4	20.4	20.1	21.1	20.2
S99-1116	20.6	20.0	19.4	20.9	20.7	20.1	20.2
S99-1842	19.3	19.3	18.8	20.3	19.6	20.1	19.6
S99-2281	20.5	19.5	19.9	23.5	21.4	20.1	20.7
S99-4073	21.6	20.8	21.1	23.2	22.2	21.2	21.6
TN96-115	20.2	19.2	19.1	20.7	20.1	20.2	19.9
TN98-170	21.1	20.7	19.8	21.9	21.6	21.8	21.1
TN98-99	21.4	20.7	20.6	22.0	21.4	22.6	21.5
TN99-184	20.2	20.7	18.7	21.6	20.9	20.3	20.3
TN99-186	21.3	21.8	21.0	21.7	21.7	21.2	21.4

✲Data not included in mean.

TABLE 13 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2001

STRAIN/ VARIETY	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN✳ IL	WARSAW VA	MEAN
MANOKIN	40.1	38.4	40.3	40.9	40.6	36.9	39.3
KS4694	41.0	41.1	40.0	41.3	41.8	41.2	40.9
DT97-4290	41.8	39.9	40.5	42.3	41.5	38.7	40.6
DT97-4293	41.9	40.2	40.5	41.5	40.5	39.1	40.6
DT98-9102	40.6	38.6	39.2	39.7	38.9	38.7	39.4
K1524	42.1	38.1	41.1	41.1	40.8	38.9	40.3
K1525	42.2	41.4	40.5	41.6	41.8	39.9	41.1
K1526	40.3	38.6	37.4	38.8	38.6	37.5	38.5
K1527	40.3	39.2	39.4	40.6	40.0	38.2	39.5
K1528	43.3	41.1	40.3	42.1	42.5	39.4	41.2
LS98-0160	42.7	42.3	42.0	43.3	42.0	40.9	42.2
LS98-0358	41.5	40.0	41.7	40.8	40.1	38.8	40.6
LS98-1771	42.8	39.7	40.6	42.9	41.1	38.0	40.8
LS98-1782	42.5	39.4	40.9	43.0	40.6	38.4	40.8
LS98-3032	41.7	40.7	41.8	42.7	40.9	39.6	41.3
Md 98-5579	42.7	39.9	42.0	42.0	41.0	40.3	41.4
Md 98-5584	43.3	41.2	41.0	43.0	42.4	40.6	41.8
Md 98-6334	43.0	40.5	41.3	42.0	42.5	39.8	41.3
R98-1523	42.0	39.8	40.3	40.1	41.7	39.2	40.3
R98-1692	43.4	39.2	41.5	41.2	42.2	39.5	41.0
R98-1817	42.7	41.5	40.9	42.6	42.1	39.0	41.3
S99-1116	41.7	39.5	41.4	40.6	40.4	40.7	40.8
S99-1842	42.1	37.2	38.5	40.6	41.2	37.0	39.1
S99-2281	42.4	39.0	38.2	39.5	39.8	39.3	39.7
S99-4073	42.4	39.7	38.9	39.0	40.3	39.0	39.8
TN96-115	42.1	41.1	41.5	42.1	41.7	40.1	41.4
TN98-170	41.7	40.4	40.5	40.6	40.2	37.6	40.2
TN98-99	41.3	41.2	41.2	41.8	41.0	38.5	40.8
TN99-184	43.1	40.2	42.3	40.2	40.8	39.4	41.0
TN99-186	42.6	40.3	39.9	41.5	40.8	39.8	40.8

✳Data not included in mean.

TABLE 14 - SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2001

STRAIN/ VARIETY	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN⁕ IL	WARSAW VA	MEAN
MANOKIN	13.6	11.1	11.4	12.4	11.2	12.8	12.6	12.0
KS4694	14.2	13.0	14.4	16.0	14.9	11.6	14.7	14.5
DT97-4290	13.8	12.2	14.9	13.9	13.2	13.7	15.0	13.8
DT97-4293	14.5	11.9	14.2	12.9	14.0	12.3	13.7	13.5
DT98-9102	16.0	11.4	14.1	16.1	14.0	15.4	15.1	14.4
K1524	13.5	10.2	11.3	11.7	10.7	10.9	12.8	11.7
K1525	15.6	12.8	14.9	14.2	14.0	13.8	14.9	14.4
K1526	13.6	10.2	12.3	12.9	10.8	11.7	13.4	12.2
K1527	11.9	11.1	11.7	12.7	11.1	10.3	12.1	11.8
K1528	16.8	15.8	16.3	17.7	15.8	15.3	19.4	17.0
LS98-0160	12.9	13.2	13.1	12.3	13.0	11.0	13.3	13.0
LS98-0358	15.4	15.1	15.2	15.5	14.9	13.4	15.5	15.3
LS98-1771	12.9	11.6	11.6	12.1	12.4	11.4	12.1	12.1
LS98-1782	12.3	11.1	10.5	12.7	12.1	11.2	12.3	11.8
LS98-3032	15.3	13.1	13.3	13.9	13.7	10.4	15.7	14.2
Md 98-5579	16.0	12.1	14.6	14.4	14.2	11.3	13.7	14.2
Md 98-5584	17.2	14.2	15.2	15.5	14.3	11.8	15.5	15.3
Md 98-6334	11.6	10.5	13.1	13.0	12.4	10.5	13.0	12.3
R98-1523	13.5	10.1	11.7	11.6	10.3	11.3	12.2	11.6
R98-1692	13.7	12.2	12.1	12.5	12.1	12.4	13.1	12.6
R98-1817	12.1	9.4	11.6	12.1	10.1	10.5	12.1	11.2
S99-1116	14.9	12.4	11.7	12.5	12.5	11.6	13.5	12.9
S99-1842	12.4	10.7	11.5	11.6	10.9	11.2	13.2	11.7
S99-2281	13.8	11.8	12.6	12.9	11.5	13.2	13.3	12.7
S99-4073	16.7	14.3	16.7	17.3	12.3	14.2	17.8	15.9
TN96-115	13.0	10.0	10.0	11.2	9.0	11.1	10.5	10.6
TN98-170	13.1	10.9	12.5	11.9	10.6	12.7	12.4	11.9
TN98-99	14.7	12.8	13.1	14.0	12.4	11.0	12.9	13.3
TN99-184	13.0	12.5	12.7	14.8	13.5	12.7	14.4	13.5
TN99-186	12.9	13.0	13.2	14.3	14.3	13.1	14.4	13.7

⁕**Data not included in mean.**

TABLE 15 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2001

STRAIN/ VARIETY	KEISER AR	PITTS-BURG KS	PORTAGE-VILLE MO(A)	PRINCETON KY	QUEENS-TOWN MD	STONEVILLE MS	ULLIN* IL	WARSAW VA	MEAN
MANOKIN	32	28	30	33	31	20	15	28	29
KS4694	38	27	34	44	34	32	28	31	34
DT97-4290	41	28	38	49	33	34	38	34	37
DT97-4293	44	30	38	51	30	36	38	34	37
DT98-9102	36	27	33	39	31	30	35	32	32
K1524	30	25	29	37	30	20	20	28	28
K1525	35	27	26	41	33	21	24	30	30
K1526	25	26	26	40	29	19	28	27	27
K1527	33	27	32	40	31	21	15	30	30
K1528	42	24	38	44	32	40	34	33	36
LS98-0160	43	31	38	46	33	33	31	32	36
LS98-0358	24	27	23	40	27	29	29	26	28
LS98-1771	25	30	31	42	30	24	19	27	30
LS98-1782	31	28	28	44	29	22	22	29	30
LS98-3032	36	29	36	46	33	34	32	29	35
Md 98-5579	42	25	37	43	32	34	35	28	34
Md 98-5584	44	30	38	42	34	36	31	31	36
Md 98-6334	47	31	40	50	39	34	35	37	40
R98-1523	36	30	34	41	29	34	28	31	33
R98-1692	38	30	32	45	33	34	35	34	35
R98-1817	31	25	29	42	29	32	25	31	31
S99-1116	40	33	35	46	35	31	33	35	36
S99-1842	42	36	36	50	35	30	36	30	37
S99-2281	32	34	35	46	35	28	25	31	34
S99-4073	50	26	45	46	36	43	45	32	40
TN96-115	31	30	26	35	32	24	18	27	29
TN98-170	34	29	28	38	25	24	19	26	29
TN98-99	39	35	40	46	36	36	42	31	37
TN99-184	30	25	21	34	30	22	20	26	27
TN99-186	32	27	30	37	33	25	28	28	30

***Data not included in mean.**

TABLE 16 - LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2001

STRAIN/ VARIETY	KEISER AR	PITTS-BURG KS	PORTAGE-VILLE MO(A)	PRINCETON KY	QUEENS-TOWN MD	STONEVILLE MS	ULLIN✳ IL	WARSAW VA	MEAN
MANOKIN	1.5	1.0	1.5	3.8	3.5	2.0	1.5	2.5	2.3
KS4694	1.5	1.0	1.5	2.3	2.3	2.0	1.5	1.5	1.7
DT97-4290	2.0	1.0	1.5	2.3	2.0	3.0	3.0	2.0	2.0
DT97-4293	2.0	1.0	1.5	2.3	1.8	3.0	2.5	2.0	1.9
DT98-9102	1.0	1.0	1.0	2.8	3.5	2.0	1.5	2.5	2.0
K1524	1.0	1.0	1.0	3.3	2.5	2.0	1.0	2.0	1.8
K1525	1.0	1.0	1.0	3.0	2.8	2.0	1.0	2.5	1.9
K1526	1.5	1.0	1.3	3.5	2.5	2.0	1.0	2.5	2.0
K1527	1.0	1.0	1.0	2.8	2.5	2.0	1.0	2.0	1.8
K1528	1.0	1.0	1.8	2.5	1.8	3.0	3.0	2.0	1.9
LS98-0160	1.5	1.0	1.5	2.3	2.3	3.0	1.5	1.0	1.8
LS98-0358	1.0	1.0	1.0	2.3	2.0	2.0	1.0	1.5	1.5
LS98-1771	1.0	1.0	1.0	2.5	2.3	2.0	1.0	2.0	1.7
LS98-1782	1.5	1.0	1.0	2.8	2.5	2.0	1.0	2.0	1.8
LS98-3032	1.0	1.0	1.0	2.3	1.8	2.0	1.0	2.0	1.6
Md 98-5579	2.5	1.0	2.5	3.0	2.5	3.0	1.5	1.5	2.3
Md 98-5584	3.5	1.0	2.8	3.0	3.5	3.0	2.0	2.5	2.8
Md 98-6334	2.0	1.0	1.3	2.8	3.0	3.0	2.5	2.5	2.2
R98-1523	1.0	1.0	1.8	3.3	3.5	2.0	2.5	2.5	2.1
R98-1692	2.0	1.0	1.3	3.0	3.5	2.0	4.0	2.5	2.2
R98-1817	1.0	1.0	1.3	2.5	2.8	2.0	1.5	2.5	1.9
S99-1116	1.0	1.0	1.0	2.8	3.0	2.0	1.5	2.5	1.9
S99-1842	3.0	1.0	2.8	4.0	3.3	3.0	3.0	2.5	2.8
S99-2281	1.5	1.0	1.3	3.3	2.8	2.0	2.0	2.5	2.0
S99-4073	2.5	1.0	1.3	2.3	1.5	3.0	2.0	1.0	1.8
TN96-115	1.0	1.0	1.0	3.8	3.0	2.0	1.0	2.0	2.0
TN98-170	1.0	1.0	1.3	3.0	3.3	2.0	1.0	2.0	1.9
TN98-99	2.0	1.0	1.5	2.8	3.3	2.0	2.5	2.0	2.1
TN99-184	1.0	1.0	1.3	2.3	2.3	2.0	1.0	2.0	1.7
TN99-186	1.0	1.0	1.3	2.5	2.8	2.0	1.5	2.0	1.8

✳**Data not included in mean.**

TABLE 17 - SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 2001

STRAIN/ VARIETY	PITTSBURG KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN⁕ IL	WARSAW VA	MEAN
MANOKIN	3.0	3.0	3.0	1.0	2.0	1.0	2.0	2.3
KS4694	3.0	3.0	3.0	1.0	2.0	2.0	2.0	2.3
DT97-4290	2.0	3.0	3.0	1.0	4.0	2.0	1.5	2.4
DT97-4293	2.0	3.0	3.0	1.0	3.0	1.5	2.0	2.3
DT98-9102	2.0	3.0	3.0	1.0	2.0	1.0	2.0	2.2
K1524	2.0	3.0	2.0	1.0	2.0	2.5	2.0	2.0
K1525	2.0	2.0	2.0	1.0	2.0	1.0	2.0	1.8
K1526	2.0	3.0	3.0	1.0	3.0	1.0	2.0	2.3
K1527	2.0	3.0	2.0	1.0	2.0	1.0	1.5	1.9
K1528	2.0	3.0	2.0	1.0	4.0	1.5	2.0	2.3
LS98-0160	2.0	3.0	3.0	1.0	4.0	3.5	2.5	2.6
LS98-0358	3.0	2.0	4.0	1.0	3.0	1.5	2.5	2.6
LS98-1771	2.0	3.0	2.0	1.0	2.0	3.0	2.0	2.0
LS98-1782	2.0	2.0	2.0	1.0	3.0	1.5	2.0	2.0
LS98-3032	4.0	3.0	3.0	1.0	5.0	3.0	3.0	3.2
Md 98-5579	2.0	3.0	3.0	1.0	4.0	4.0	2.0	2.5
Md 98-5584	3.0	3.0	4.0	1.0	4.0	4.5	3.0	3.0
Md 98-6334	3.0	3.0	3.0	1.0	4.0	2.5	3.0	2.8
R98-1523	2.0	2.0	2.0	1.0	2.0	1.0	2.0	1.8
R98-1692	1.0	2.0	2.0	1.0	2.0	1.0	2.0	1.7
R98-1817	2.0	2.0	2.0	1.0	2.0	1.0	1.5	1.8
S99-1116	3.0	3.0	2.0	1.0	2.0	4.0	2.0	2.2
S99-1842	2.0	2.0	1.0	1.0	2.0	1.0	2.0	1.7
S99-2281	2.0	2.0	2.0	1.0	2.0	1.0	2.0	1.8
S99-4073	3.0	3.0	3.0	1.0	3.0	1.5	2.0	2.5
TN96-115	2.0	2.0	2.0	1.0	2.0	1.0	1.0	1.7
TN98-170	2.0	2.0	2.0	1.0	2.0	1.5	2.0	1.8
TN98-99	2.0	3.0	3.0	1.0	3.0	1.0	2.0	2.3
TN99-184	2.0	2.0	2.0	1.0	2.0	1.0	1.5	1.8
TN99-186	2.0	3.0	3.0	1.0	3.0	1.5	2.0	2.3

⁕Data not included in mean.

UNIFORM GROUP V

2001

Uniform Group V nurseries were planted at 23 locations. Data were obtained from 21 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, 2001

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	CHECK	
2. MANOKIN	CHECK	
3. BOLIVAR	A5979 x DPL 3589	
4. DT96-6840	Hutcheson x P9641	
5. K1463	S88-1934 x N90-516	F5
6. LS96-1631	LS79-238 x Hutcheson	
7. Md 97-6065	Manokin x Holladay	F5
8. Md 97-6590	Ky 88-5037 x Clifford	F5
9. N98-293	N91-78 x SC89-181	F6
10. N98-7182	Hutcheson x PI 471938	F4
11. N98-7265	Hutcheson x PI 471938	F4
12. N98-74	N91-78 x SC89-181	F6
13. R95-2210	Manokin x A6297	
14. R96-209	Holladay x DP 415	
15. R96-3427	P 9592 x KS 4895	
16. S97-1753	H5545 x S91-138	
17. S97-1759	H5545 x S91-1381	
18. TN96-58	HUTCHESON x TN89-39	
19. TN96-68	N85-578 x MANOKIN	
20. TN96-84	TN5-95 x MANOKIN	
21. TN97-271	N86-7687 x HUTCHESON	
22. V93-3114	FFR544 x Hutcheson	
23. V95-0016	KS5292 x Accomac	
24. V96-0310	Hutcheson x Clifford	
25. V96-0340	Hutcheson x Clifford	
26. V96-1772	KS5292 x Md87-5602	

TABLE 19 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2001

STRAIN/	YIELD※			PROTEIN			OIL		
VARIETY	2001	00-01	99-01	2001	00-01	99-01	2001	00-01	99-01
HUTCHESON	48.5	46.5	45.3	40.1	40.9	40.9	21.4	20.9	20.6
MANOKIN	42.3	44.1	42.8	39.0	40.1	40.7	21.4	20.6	20.1
BOLIVAR	47.1	.	.	40.0	.	.	20.0	.	.
DT96-6840	48.5	47.3	45.7	41.3	42.2	42.2	20.6	20.1	19.8
K1463	47.4	46.9	.	39.6	40.4	.	19.7	19.2	.
LS96-1631	49.0	47.5	.	39.3	40.8	.	21.2	20.6	.
Md 97-6065	52.9	.	.	39.2	.	.	21.1	.	.
Md 97-6590	47.5	.	.	40.1	.	.	20.7	.	.
N98-293	45.5	.	.	40.6	.	.	20.2	.	.
N98-7182	43.9	.	.	38.9	.	.	21.4	.	.
N98-7265	45.1	.	.	39.9	.	.	21.1	.	.
N98-74	46.4	.	.	39.7	.	.	20.9	.	.
R95-2210	49.0	47.2	45.9	40.3	41.3	41.6	20.0	19.5	19.3
R96-209	50.5	.	.	40.2	.	.	20.8	.	.
R96-3427	49.5	.	.	40.1	.	.	20.9	.	.
S97-1753	46.7	.	.	41.0	.	.	20.6	.	.
S97-1759	47.4	.	.	41.3	.	.	20.0	.	.
TN96-58	51.1	50.6	48.4	41.2	42.3	42.2	20.5	19.9	19.6
TN96-68	53.0	50.8	47.9	39.9	40.6	41.0	21.3	20.6	20.3
TN96-84	47.5	.	.	39.1	.	.	20.9	.	.
TN97-271	50.8	.	.	40.7	.	.	21.0	.	.
V93-3114	49.0	48.1	45.8	39.7	40.6	40.6	21.4	20.8	20.5
V95-0016	49.8	48.5	.	40.2	41.1	.	20.8	20.2	.
V96-0310	49.3	.	.	40.4	.	.	20.9	.	.
V96-0340	50.9	.	.	40.0	.	.	21.4	.	.
V96-1772	48.0	.	.	41.5	.	.	20.8	.	.

※Data not included in mean: 2001 - Orange, VA; Prosper, TX
2000 - Belle Mina, AL; Suffolk, VA
1999 - Springfield, TN; Ullin, IL; Prosper, TX; Belle Mina, AL

TABLE 19 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
HUTCHESON	W	10/10	1.6	32	1.7	13.8	G	T
MANOKIN	W	6-	1.8	26	1.9	13.0	T	T
BOLIVAR	P	1-	2.4	39	1.7	14.6	T	T
DT96-6840	W	1+	2.5	34	1.5	14.4	G	T
K1463	W	2-	1.9	33	1.6	13.2	T	T
LS96-1631	P	4-	1.5	31	1.8	14.4	G	T
Md 97-6065	P	5-	1.8	30	1.6	13.3	G	T
Md 97-6590	W	6-	1.5	29	2.1	16.1	T	BR
N98-293	W	2-	1.8	31	1.8	13.8	T	BR
N98-7182	P	2+	1.7	33	1.6	14.2	G	T
N98-7265	W	4+	1.9	35	1.5	13.8	G	T
N98-74	P	6-	1.8	27	2.0	13.3	T	BR
R95-2210	W	2+	2.1	33	2.0	12.6	G	T
R96-209	P	3-	1.7	32	1.8	14.6	G	T
R96-3427	W	1+	1.4	33	1.7	14.4	S	T
S97-1753	W	6-	2.4	32	2.0	14.8	G	T
S97-1759	P	6-	2.1	33	1.6	12.7	T	T
TN96-58	W	1-	1.5	32	1.8	13.5	G	T
TN96-68	W	6-	1.7	28	1.9	14.5	T	T
TN96-84	P	4-	1.6	30	1.8	13.0	T	T
TN97-271	P	1+	1.6	31	1.5	13.1	G	T
V93-3114	W	3-	1.7	36	1.5	14.2	G	BR
V95-0016	P	2-	1.7	32	1.5	12.3	G	T
V96-0310	P	2-	1.6	31	1.9	14.9	T	T
V96-0340	P	5-	1.5	30	1.8	15.5	G	BR
V96-1772	W	7-	1.4	26	1.6	10.8	G	T

TABLE 19 - Continued

PEST REACTIONS

STRAIN/ VARIETY	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER	SDS DX	FELS
HUTCHESON	4.7	5.0	3.8	4.8	3.3	R	R	1	2.2
MANOKIN	1.0	1.0	5.0	2.5	2.0	S	R	0	1.7
BOLIVAR	5.0	1.0	4.3	3.8	1.3	R	SEG	0	3.3
DT96-6840	1.0	5.0	4.4	3.8	2.5	R	R	0	1.0
K1463	3.3	1.2	2.5	1.5	1.3	R	S	6	3.0
LS96-1631	4.6	2.2	4.2	3.5	2.5	M	R	2	2.0
Md 97-6065	4.5	1.0	4.5	2.0	1.8	S	S	0	0.7
Md 97-6590	3.8	5.0	4.7	4.0	3.0	R	S	1	0.7
N98-293	3.3	1.4	2.8	2.5	1.3	R	R	0	0.7
N98-7182	4.7	5.0	4.9	5.0	4.8	R	S	1	2.0
N98-7265	5.0	5.0	4.7	4.8	3.5	R	S	3	2.0
N98-74	5.0	5.0	5.0	1.0	3.0	R	S	3	0.3
R95-2210	4.8	1.0	3.9	4.0	2.5	S	R	1	5.3
R96-209	4.7	5.0	4.8	3.8	3.3	R	R	1	1.0
R96-3427	3.0	5.0	3.8	5.0	4.0	S	R	0	4.3
S97-1753	2.1	1.1	2.3	3.3	3.3	S	S	15	2.3
S97-1759	3.3	1.0	2.7	4.8	1.3	S	S	5	2.7
TN96-58	4.6	5.0	4.2	3.8	2.0	R	R	5	0.7
TN96-68	5.0	4.8	4.9	4.0	2.8	S	R	0	0.0
TN96-84	4.7	3.1	3.6	4.0	3.5	M	SEG?	2	1.7
TN97-271	4.6	4.8	4.6	5.0	4.8	R	R	5	1.0
V93-3114	4.5	5.0	4.9	4.8	2.3	R	R	10	2.0
V95-0016	4.7	1.0	4.0	1.5	1.8	S	SEG	4	2.0
V96-0310	5.0	4.3	3.5	4.5	4.0	R	S	14	1.0
V96-0340	5.0	4.3	4.9	4.0	3.5	R	R	3	2.3
V96-1772	4.6	1.2	5.0	1.3	1.0	S	?	5	1.3

TABLE 20 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2001

EAST

STRAIN/ VARIETY	GEORGETOWN DE	ORANGE✳ VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
HUTCHESON	56.2	36.8	49.6	43.6	61.2	52.6
MANOKIN	42.6	34.7	43.0	45.6	62.8	48.5
BOLIVAR	48.5	33.2	50.0	43.4	59.6	50.4
DT96-6840	60.1	35.6	50.0	46.6	64.2	55.2
K1463	53.2	33.5	44.6	42.8	62.2	50.7
LS96-1631	59.5	33.9	48.6	50.1	63.8	55.5
Md 97-6065	56.2	41.5	54.1	55.3	68.5	58.5
Md 97-6590	54.0	47.0	51.9	50.5	64.2	55.2
N98-293	45.6	38.4	53.4	44.9	59.8	50.9
N98-7182	53.2	36.3	48.3	43.7	60.9	51.5
N98-7265	49.3	34.1	47.2	40.7	60.0	49.3
N98-74	49.9	38.0	52.4	49.7	65.0	54.2
R95-2210	50.7	31.0	53.1	45.3	57.4	51.6
R96-209	56.8	40.7	50.6	46.3	63.2	54.2
R96-3427	62.9	37.9	50.6	49.0	64.0	56.6
S97-1753	48.9	35.5	47.6	39.1	61.7	49.3
S97-1759	60.7	34.6	46.5	39.7	61.8	52.2
TN96-58	55.8	44.2	50.6	47.9	66.8	55.3
TN96-68	57.4	36.7	56.1	51.2	71.7	59.1
TN96-84	51.3	27.3	49.2	43.7	63.3	51.9
TN97-271	56.0	35.6	54.4	41.8	67.6	54.9
V93-3114	55.8	43.3	53.1	44.2	64.0	54.3
V95-0016	52.1	34.3	55.2	50.3	68.1	56.5
V96-0310	59.5	44.2	56.3	46.4	66.8	57.2
V96-0340	51.1	40.0	53.9	47.2	65.7	54.5
V96-1772	48.7	42.8	45.7	53.8	65.5	53.4
L.S.D. (0.05)	8.4	9.1	6.2	7.1	5.1	.
C.V. (%)	9.1	15.0	7.5	9.4	4.9	.

✳Data not included in mean.

TABLE 20- Continued

SOUTH

STRAIN/ VARIETY	BATON ROUGE LA	BELLE MINA AL	KNOXVILLE TN	PRINCETON KY	SPRINGFIELD TN	STARKVILLE MS	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	52.6	56.7	46.0	62.4	37.2	50.0	49.2	45.6	50.0
MANOKIN	43.1	55.4	49.9	43.4	31.8	50.7	47.0	22.6	43.0
BOLIVAR	52.7	62.6	48.2	56.3	35.1	59.2	44.4	40.0	49.8
DT96-6840	51.9	58.8	48.5	51.2	32.2	59.9	43.0	45.2	48.8
K1463	49.7	61.0	60.4	56.0	31.4	51.4	48.1	42.4	50.1
LS96-1631	52.9	49.2	51.6	65.0	40.7	46.5	54.7	44.1	50.6
Md 97-6065	58.2	63.2	49.6	63.5	39.1	58.4	50.4	48.8	53.9
Md 97-6590	43.6	49.5	44.3	64.8	45.4	44.0	49.4	46.8	48.5
N98-293	39.0	53.6	46.1	51.7	31.6	49.7	47.5	38.6	44.7
N98-7182	51.4	51.1	41.1	59.3	36.0	43.4	35.0	39.5	44.6
N98-7265	53.3	52.0	38.8	64.3	42.3	45.2	35.7	44.5	47.0
N98-74	51.9	53.0	47.0	50.0	27.7	45.3	43.0	37.9	44.5
R95-2210	58.6	58.8	54.1	56.5	34.0	54.7	46.4	42.0	50.7
R96-209	52.3	54.5	49.1	73.0	44.9	54.7	39.3	50.4	52.3
R96-3427	51.1	49.9	50.3	59.9	42.0	47.9	45.5	49.5	49.5
S97-1753	56.2	52.6	51.4	61.2	37.5	60.8	43.6	38.2	50.2
S97-1759	55.4	50.8	51.5	51.1	34.8	57.6	48.5	38.9	48.6
TN96-58	51.7	53.9	46.7	68.0	47.8	52.7	53.1	42.4	52.0
TN96-68	60.9	54.5	48.0	72.6	50.7	60.0	46.6	54.1	55.9
TN96-84	52.3	54.5	45.3	69.0	36.8	52.9	47.8	42.7	50.2
TN97-271	67.9	55.1	52.5	63.9	43.3	57.2	42.1	44.4	53.3
V93-3114	50.8	57.6	55.4	64.0	45.8	55.4	47.5	43.1	52.5
V95-0016	52.9	52.0	56.4	61.2	39.7	53.1	44.1	49.0	51.0
V96-0310	59.2	47.4	37.3	63.9	46.9	40.1	46.8	41.2	47.9
V96-0340	58.0	58.5	51.8	74.1	48.9	54.8	45.0	50.1	55.1
V96-1772	43.9	47.1	49.6	63.6	38.4	43.9	49.1	41.9	47.2
L.S.D. (0.05)	7.4	5.9	8.5	9.9	6.2	6.4	8.1	8.7	.
C.V. (%)	8.4	6.6	10.7	9.8	9.5	7.4	10.8	12.3	.

TABLE 20- Continued

DELTA

STRAIN/ VARIETY	KEISER AR	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
HUTCHESON	58.8	47.8	55.8	48.6	48.2	51.8
MANOKIN	38.5	34.5	52.6	46.0	47.3	43.8
BOLIVAR	51.8	36.2	53.6	36.0	48.9	45.3
DT96-6840	53.7	36.1	60.5	46.5	47.4	48.8
K1463	53.8	38.3	54.5	37.0	55.3	47.8
LS96-1631	51.8	43.8	57.7	46.3	49.7	49.9
Md 97-6065	64.6	48.1	58.4	47.0	58.6	55.3
Md 97-6590	56.6	44.0	47.5	44.6	56.8	49.9
N98-293	58.5	44.5	52.8	38.2	44.8	47.8
N98-7182	51.5	44.3	50.2	34.0	30.9	42.2
N98-7265	57.1	42.8	48.6	39.4	36.7	44.9
N98-74	55.8	44.2	52.8	44.6	60.2	51.5
R95-2210	53.9	39.4	57.5	44.9	50.5	49.2
R96-209	56.8	47.0	58.3	50.6	54.1	53.3
R96-3427	53.9	42.5	58.0	50.2	51.0	51.1
S97-1753	50.9	40.4	56.1	21.4	53.1	44.4
S97-1759	55.2	35.9	52.0	45.8	51.7	48.1
TN96-58	63.3	46.2	59.1	45.3	54.2	53.6
TN96-68	57.7	47.2	52.6	50.5	60.2	53.6
TN96-84	52.9	44.1	58.7	44.1	42.9	48.5
TN97-271	53.7	45.9	55.2	51.7	56.4	52.6
V93-3114	59.2	41.8	48.4	44.1	43.5	47.4
V95-0016	53.5	46.5	65.6	46.9	48.6	52.2
V96-0310	56.3	48.4	51.6	51.3	53.5	52.2
V96-0340	59.9	46.1	56.3	36.4	59.5	51.6
V96-1772	54.3	44.4	54.5	47.9	57.7	51.8
L.S.D. (0.05)	10.8	8.2	7.5	7.5	7.1	.
C.V. (%)	9.5	11.7	8.3	10.4	8.5	.

TABLE 20- Continued

WEST

STRAIN VARIETY	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	PROSPER☼ TX	STUTTGART AR	MEAN
HUTCHESON	47.1	25.5	23.2	29.4	52.3	37.0
MANOKIN	44.4	25.0	34.3	21.4	28.7	33.1
BOLIVAR	57.8	23.1	31.2	41.7	50.6	40.7
DT96-6840	53.9	25.9	26.0	19.9	56.7	40.6
K1463	53.1	23.3	33.1	32.6	44.1	38.4
LS96-1631	51.5	25.8	28.3	31.6	46.6	38.0
Md 97-6065	62.0	24.2	33.3	38.0	49.7	42.3
Md 97-6590	46.6	21.2	20.3	22.2	51.7	34.9
N98-293	51.0	22.8	32.5	24.2	49.6	39.0
N98-7182	60.6	24.0	19.1	31.9	44.9	37.1
N98-7265	54.0	22.2	19.4	28.2	53.4	37.3
N98-74	49.5	23.9	24.5	27.7	47.0	36.2
R95-2210	60.6	24.0	34.1	29.0	53.1	42.9
R96-209	55.1	24.9	23.6	22.6	54.3	39.5
R96-3427	58.8	24.9	27.9	30.7	49.6	40.3
S97-1753	46.1	22.9	34.7	23.7	51.0	38.7
S97-1759	52.0	23.0	32.3	23.9	52.3	39.9
TN96-58	59.3	27.1	27.1	36.6	53.5	41.7
TN96-68	58.6	26.1	24.2	24.6	51.4	40.1
TN96-84	45.3	26.2	30.3	31.2	45.0	36.7
TN97-271	56.2	23.9	26.3	28.8	51.8	39.6
V93-3114	52.9	23.9	21.7	22.0	56.8	38.8
V95-0016	48.1	23.6	30.3	32.4	47.8	37.4
V96-0310	63.8	24.8	22.0	32.5	52.6	40.8
V96-0340	49.7	22.8	22.4	32.8	57.5	38.1
V96-1772	48.2	26.0	35.9	30.0	47.2	39.3
L.S.D. (0.05)	8.4	2.6	3.5	10.1	7.1	.
C.V. (%)	9.6	6.6	7.6	.	6.9	.

☼**Data not included in mean.**

TABLE 21 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2001

OIL PERCENTAGES

STRAIN/ VARIETY	BELLE MINA AL	KNOX-VILLE TN	MCCUNE KS	ORANGE❊ VA	PINE TREE AR	PITTS-BURG KS	PLY-MOUTH NC	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	PRINCE-TON KY	PROSPER❊ TX	QUEENS-TOWN MD	STONE-VILLE MS	SUF-FOLK VA	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	.	21.7	21.2	21.1	.	.	21.2	21.4	.	22.0	20.9	20.1	22.0	.	21.6	21.5	21.4
MANOKIN	.	21.4	22.5	20.9	.	.	21.4	21.4	.	21.0	22.8	19.5	23.0	.	21.5	20.7	21.4
BOLIVAR	.	20.0	19.2	19.3	.	.	20.2	20.0	.	20.3	20.2	18.8	20.7	.	20.0	20.6	20.0
DT96-6840	.	20.9	20.9	20.8	.	.	20.7	21.1	.	20.8	20.4	19.8	20.9	.	21.0	19.3	20.6
K1463	.	20.0	20.3	19.3	.	.	19.7	20.1	.	19.0	21.1	18.1	20.1	.	19.9	20.5	19.7
LS96-1631	.	21.0	22.2	20.8	.	.	21.3	21.9	.	21.1	22.2	20.0	22.5	.	21.2	19.5	21.2
Md 97-6065	.	21.2	20.6	20.3	.	.	21.0	21.7	.	21.3	21.4	19.3	22.6	.	21.0	21.1	21.1
Md 97-6590	.	20.6	19.8	20.2	.	.	19.7	21.7	.	20.9	19.9	19.6	22.1	.	21.3	20.4	20.7
N98-293	.	20.3	20.6	19.9	.	.	20.0	20.3	.	20.9	20.3	18.6	20.7	.	20.3	19.9	20.2
N98-7182	.	21.8	21.1	20.9	.	.	21.5	22.1	.	21.3	22.6	20.0	23.4	.	21.7	20.1	21.4
N98-7265	.	20.4	21.6	21.7	.	.	21.9	21.0	.	21.6	23.2	19.9	21.9	.	21.2	20.8	21.1
N98-74	.	21.0	21.3	20.0	.	.	20.5	21.2	.	21.7	21.3	19.7	21.4	.	20.4	21.1	20.9
R95-2210	.	20.3	19.5	19.8	.	.	20.1	20.4	.	19.7	22.3	19.2	20.9	.	20.0	20.0	20.0
R96-209	.	21.1	21.1	20.6	.	.	20.2	21.3	.	20.9	22.1	19.3	22.1	.	22.0	19.5	20.8
R96-3427	.	21.8	20.8	20.1	.	.	20.1	21.6	.	20.0	21.3	19.6	21.9	.	21.8	20.5	20.9
S97-1753	.	20.8	20.7	19.9	.	.	20.6	20.6	.	21.2	20.6	19.2	22.2	.	20.7	19.8	20.6
S97-1759	.	20.2	20.8	19.4	.	.	19.7	19.8	.	19.7	19.9	18.6	20.9	.	20.0	19.9	20.0
TN96-58	.	20.5	21.6	20.2	.	.	20.1	21.0	.	20.7	21.8	19.3	20.9	.	20.9	19.8	20.5
TN96-68	.	21.5	21.7	20.1	.	.	20.8	22.3	.	21.1	22.4	20.0	22.3	.	22.0	19.9	21.3
TN96-84	.	21.1	21.4	19.7	.	.	20.4	21.4	.	20.6	22.5	19.5	22.2	.	21.3	20.6	20.9
TN97-271	.	21.4	21.4	20.7	.	.	21.2	21.1	.	20.9	21.5	19.3	21.9	.	20.9	21.2	21.0
V93-3114	.	20.9	21.3	21.4	.	.	20.7	22.7	.	21.9	21.4	19.7	22.2	.	22.2	20.8	21.4
V95-0016	.	21.1	20.6	20.1	.	.	20.1	21.8	.	20.9	21.3	18.9	21.6	.	20.9	20.9	20.8
V96-0310	.	21.4	20.2	20.8	.	.	21.3	21.7	.	21.1	20.2	19.6	21.5	.	20.9	20.5	20.9
V96-0340	.	22.0	21.0	20.5	.	.	20.8	22.4	.	21.7	20.6	19.8	21.8	.	21.6	21.1	21.4
V96-1772	.	20.9	21.7	19.6	.	.	20.7	20.7	.	20.5	21.1	19.8	21.2	.	20.6	20.9	20.8

❊Data not included in mean.

TABLE 21 - Continued

PROTEIN PERCENTAGES

STRAIN/ VARIETY	BELLE MINA AL	KNOX-VILLE TN	MCCUNE KS	ORANGE✳ VA	PINE TREE AR	PITTS-BURG KS	PLY-MOUTH NC	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	PRINCE-TON KY	PROSPER✳ TX	QUEENS-TOWN MD	STONE-VILLE MS	SUF-FOLK VA	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	.	41.1	40.0	39.3	.	.	40.0	40.9	.	38.6	41.8	40.9	39.8	.	40.8	38.7	40.1
MANOKIN	.	40.8	35.3	36.5	.	.	36.9	40.8	.	37.9	39.3	40.4	39.1	.	39.7	40.3	39.0
BOLIVAR	.	42.0	40.6	39.6	.	.	38.7	41.4	.	38.5	41.4	40.3	40.3	.	41.0	37.0	40.0
DT96-6840	.	42.7	40.0	39.9	.	.	40.4	42.2	.	40.3	43.0	42.6	41.6	.	41.9	39.7	41.3
K1463	.	41.0	37.7	38.0	.	.	38.4	40.5	.	38.7	39.4	40.2	40.2	.	40.1	39.9	39.6
LS96-1631	.	41.5	37.5	38.4	.	.	38.3	40.3	.	38.7	39.9	40.3	39.0	.	40.6	37.5	39.3
Md 97-6065	.	40.7	38.9	38.2	.	.	37.7	40.4	.	37.2	40.1	39.8	38.8	.	40.0	39.3	39.2
Md 97-6590	.	41.9	40.5	38.2	.	.	40.8	40.5	.	38.4	43.1	41.3	40.1	.	39.8	37.6	40.1
N98-293	.	42.3	39.7	38.9	.	.	39.6	41.9	.	38.1	41.5	41.0	40.6	.	42.1	40.4	40.6
N98-7182	.	40.2	38.5	38.4	.	.	37.7	39.9	.	37.8	38.7	39.2	38.7	.	39.5	38.9	38.9
N98-7265	.	41.9	38.9	38.0	.	.	38.1	42.3	.	37.7	38.1	40.5	40.0	.	40.9	38.7	39.9
N98-74	.	41.8	38.5	39.3	.	.	39.6	41.5	.	36.7	41.2	39.8	40.1	.	41.0	38.5	39.7
R95-2210	.	41.5	39.5	39.0	.	.	39.5	41.5	.	39.1	36.5	40.4	41.3	.	40.9	38.8	40.3
R96-209	.	41.9	38.7	37.6	.	.	39.9	40.8	.	38.4	38.8	40.1	39.2	.	42.9	40.3	40.2
R96-3427	.	40.8	39.9	38.7	.	.	40.7	40.5	.	39.9	41.8	40.8	39.4	.	39.8	38.8	40.1
S97-1753	.	43.1	40.3	39.5	.	.	39.9	42.6	.	38.6	42.4	39.6	41.2	.	41.8	41.8	41.0
S97-1759	.	42.9	39.0	39.6	.	.	40.4	43.3	.	40.0	43.6	40.8	41.6	.	42.0	41.6	41.3
TN96-58	.	42.9	39.6	40.4	.	.	41.7	42.7	.	40.4	40.8	40.9	41.5	.	42.1	39.3	41.2
TN96-68	.	40.9	37.7	38.5	.	.	39.1	41.0	.	38.7	39.5	40.8	40.1	.	40.0	40.8	39.9
TN96-84	.	40.6	38.5	39.7	.	.	38.9	40.0	.	38.7	38.2	38.8	38.5	.	39.6	38.4	39.1
TN97-271	.	42.3	40.4	40.1	.	.	40.0	42.3	.	40.6	41.7	41.5	40.0	.	42.2	37.2	40.7
V93-3114	.	41.3	39.8	38.4	.	.	39.9	39.9	.	37.1	42.7	40.1	39.8	.	39.1	40.4	39.7
V95-0016	.	41.1	38.9	39.0	.	.	40.2	40.7	.	39.2	40.6	39.8	41.1	.	41.1	39.4	40.2
V96-0310	.	41.5	40.7	39.4	.	.	39.5	42.0	.	38.6	43.8	40.7	40.3	.	41.6	38.4	40.4
V96-0340	.	40.5	40.3	39.7	.	.	40.6	40.0	.	38.4	43.2	40.5	40.5	.	40.5	38.9	40.0
V96-1772	.	43.5	39.4	42.3	.	.	40.8	43.8	.	40.5	42.2	41.1	42.2	.	42.7	39.3	41.5

✳Data not included in mean.

TABLE 21 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	BELLE MINA AL	KNOX-VILLE TN	MCCUNE KS	ORANGE✳ VA	PINE TREE AR	PITTS-BURG KS	PLY-MOUTH NC	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	PRINCE-TON KY	PROSPER TX	QUEENS-TOWN MD	STONE-VILLE MS	SUF-FOLK VA	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	16.8	13.0	15.1	12.8	15.3	14.2	15.4	14.2	14.5	11.8	.	12.4	10.9	12.4	12.5	14.8	13.8
MANOKIN	14.2	12.3	13.7	11.8	14.2	14.4	13.4	13.2	13.8	12.3	.	11.5	11.0	11.3	12.5	13.5	13.0
BOLIVAR	16.3	14.1	16.7	13.5	17.0	17.5	15.0	13.8	15.4	13.3	.	13.6	11.6	12.3	12.7	14.7	14.6
DT96-6840	17.1	14.5	16.2	13.6	15.9	14.3	15.3	12.7	15.4	13.4	.	13.6	11.5	13.3	14.3	14.4	14.4
K1463	17.2	13.6	14.1	11.4	14.4	12.6	12.9	12.6	12.8	12.0	.	12.0	11.6	12.4	13.1	13.7	13.2
LS96-1631	17.3	13.5	15.9	12.4	15.7	15.8	15.4	13.9	14.5	13.9	.	13.4	11.7	12.7	12.9	15.4	14.4
Md 97-6065	15.4	12.7	15.2	12.4	15.3	13.9	14.1	11.4	15.0	12.1	.	12.2	12.0	11.1	12.3	13.7	13.3
Md 97-6590	18.4	15.4	17.4	16.0	16.4	17.3	18.4	14.5	17.0	14.3	.	16.1	14.4	14.8	13.6	17.5	16.1
N98-293	16.7	12.7	14.8	12.5	16.7	15.2	14.7	12.6	15.5	12.4	.	12.2	11.2	12.1	13.3	13.7	13.8
N98-7182	16.7	13.4	17.2	13.1	16.1	15.1	14.7	13.6	15.4	13.2	.	12.6	9.8	13.2	13.1	14.5	14.2
N98-7265	18.3	13.7	16.5	12.5	15.3	14.2	14.8	13.1	14.0	12.6	.	11.9	9.9	12.4	12.6	14.5	13.8
N98-74	14.6	13.0	15.1	12.3	15.2	13.7	14.9	11.5	13.5	13.4	.	12.8	10.4	12.3	11.9	13.7	13.3
R95-2210	16.1	12.4	14.4	10.8	14.8	14.8	13.6	11.2	11.8	11.3	.	11.0	10.3	10.7	11.0	12.9	12.6
R96-209	17.2	14.2	15.0	13.8	17.4	14.2	14.9	13.9	15.8	13.4	.	13.4	12.5	13.0	13.8	15.1	14.6
R96-3427	14.1	15.1	16.0	12.7	15.6	14.8	16.3	13.9	14.9	12.5	.	13.5	12.8	13.2	13.6	14.9	14.4
S97-1753	15.9	14.6	15.3	12.4	15.4	14.1	15.5	14.5	14.7	13.7	.	14.1	13.3	13.8	15.7	16.1	14.8
S97-1759	14.0	12.5	12.7	11.0	14.8	12.6	14.1	11.9	12.5	12.0	.	12.1	11.2	11.3	11.8	13.8	12.7
TN96-58	18.2	11.8	13.9	11.6	15.0	13.6	14.3	12.8	14.0	12.7	.	12.4	10.9	12.5	12.7	14.0	13.5
TN96-68	17.0	13.7	13.7	12.7	14.5	12.9	16.2	14.7	15.5	14.6	.	13.8	13.7	12.9	14.9	15.3	14.5
TN96-84	15.7	12.5	14.2	11.7	14.6	13.6	14.3	11.8	13.3	12.5	.	11.4	11.3	10.8	12.7	13.8	13.0
TN97-271	15.5	12.0	14.1	12.0	15.4	13.6	14.1	13.0	13.0	12.5	.	11.8	10.8	11.7	12.4	13.3	13.1
V93-3114	18.1	13.6	16.4	13.7	16.7	14.2	15.3	12.4	15.8	11.7	.	13.3	11.1	12.6	12.4	15.5	14.2
V95-0016	14.1	11.7	13.1	11.3	14.7	12.3	14.4	11.6	13.1	9.9	.	10.6	12.6	10.4	11.0	12.4	12.3
V96-0310	17.4	13.9	17.7	13.2	16.6	16.0	17.3	13.5	16.0	12.8	.	13.8	10.1	13.4	13.5	16.0	14.9
V96-0340	16.3	15.4	17.5	13.8	15.5	16.8	18.1	14.4	17.3	15.0	.	14.4	12.6	13.9	14.1	16.0	15.5
V96-1772	14.6	10.9	12.1	10.0	12.8	11.6	14.4	9.7	11.7	9.6	.	10.4	10.1	10.4	9.7	11.5	11.4

✳Data not included in mean.

TABLE 22 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN HUTCHESON, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2001

EAST

STRAIN/ VARIETY	GEORGETOWN DE	ORANGE VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
HUTCHESON	.	.	10/08	10/21	10/19	10/16
MANOKIN	.	.	1	-6	-5	-3
BOLIVAR	.	.	0	2	0	1
DT96-6840	.	.	6	2	1	3
K1463	.	.	0	-2	-1	-1
LS96-1631	.	.	0	-3	-4	-2
Md 97-6065	.	.	-2	-4	-3	-3
Md 97-6590	.	.	1	-6	-5	-3
N98-293	.	.	1	-3	-1	-1
N98-7182	.	.	7	2	2	4
N98-7265	.	.	8	1	4	4
N98-74	.	.	-4	-4	-4	-4
R95-2210	.	.	0	1	3	1
R96-209	.	.	0	-4	-3	-2
R96-3427	.	.	7	-3	1	2
S97-1753	.	.	1	-4	-4	-2
S97-1759	.	.	-1	-4	-4	-3
TN96-58	.	.	8	-2	-2	1
TN96-68	.	.	-1	-5	-4	-3
TN96-84	.	.	-4	-5	-4	-4
TN97-271	.	.	4	0	0	2
V93-3114	.	.	0	-2	0	-1
V95-0016	.	.	1	-2	-1	-1
V96-0310	.	.	0	-2	-1	-1
V96-0340	.	.	-3	-3	-4	-3
V96-1772	.	.	0	-5	-6	-4

TABLE 22 - Continued

SOUTH

STRAIN/ VARIETY	BATON ROUGE LA	BELLE MINA AL	KNOXVILLE TN	PRINCETON KY	SPRINGFIELD TN	STARKVILLE MS	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	.	10/05	10/06	.	10/14	.	10/09	10/13	10/10
MANOKIN	.	-9	-5	.	-10	.	-3	-8	-7
BOLIVAR	.	-1	-2	.	-4	.	-3	-4	-3
DT96-6840	.	-1	1	.	0	.	4	5	1
K1463	.	-1	0	.	-6	.	-1	-6	-4
LS96-1631	.	-5	-3	.	-7	.	-1	-5	-5
Md 97-6065	.	-7	-6	.	-10	.	-3	-7	-7
Md 97-6590	.	-9	-8	.	-9	.	-4	-11	-9
N98-293	.	-2	-3	.	-6	.	1	-4	-4
N98-7182	.	4	1	.	1	.	1	6	2
N98-7265	.	4	3	.	1	.	6	11	4
N98-74	.	-7	-6	.	-10	.	-1	-9	-7
R95-2210	.	1	3	.	-2	.	6	4	2
R96-209	.	-7	-4	.	-5	.	-2	-2	-5
R96-3427	.	-1	0	.	0	.	-1	0	-1
S97-1753	.	-8	-7	.	-10	.	-3	-5	-7
S97-1759	.	-8	-4	.	-10	.	-3	-9	-7
TN96-58	.	-2	-4	.	-3	.	-1	-5	-4
TN96-68	.	-9	-7	.	-10	.	-4	-8	-8
TN96-84	.	-3	-6	.	-9	.	1	-8	-6
TN97-271	.	-1	0	.	0	.	6	5	1
V93-3114	.	-3	-4	.	-9	.	-1	-7	-5
V95-0016	.	-4	0	.	-6	.	3	-4	-3
V96-0310	.	-2	-4	.	-6	.	2	-8	-4
V96-0340	.	-8	-5	.	-10	.	-1	-7	-7
V96-1772	.	-8	-9	.	-11	.	-5	-13	-10

TABLE 22 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
HUTCHESON	.	10/08	10/05	10/14	10/18	10/04
MANOKIN	.	-7	-7	-8	-8	-8
BOLIVAR	.	3	2	-3	0	0
DT96-6840	.	4	2	-1	2	1
K1463	.	2	0	-7	1	-1
LS96-1631	.	-1	-5	-6	-6	-5
Md 97-6065	.	-4	-8	-5	-7	-6
Md 97-6590	.	-1	-11	-6	-7	-7
N98-293	.	1	-3	-2	3	0
N98-7182	.	-6	7	2	0	1
N98-7265	.	4	8	3	0	3
N98-74	.	-1	-7	-6	-8	-6
R95-2210	.	3	4	0	3	2
R96-209	.	-1	-3	-2	-6	-3
R96-3427	.	-1	3	2	2	1
S97-1753	.	-4	-6	-10	-7	-7
S97-1759	.	-2	-7	-9	-7	-7
TN96-58	.	3	-1	-1	-7	-2
TN96-68	.	-3	-6	-6	-5	-5
TN96-84	.	2	-4	-4	-8	-4
TN97-271	.	6	2	-2	0	1
V93-3114	.	1	-2	0	-7	-2
V95-0016	.	4	-3	-3	-7	-3
V96-0310	.	4	-2	1	-6	-1
V96-0340	.	-5	-4	-8	-7	-6
V96-1772	.	-5	-9	-9	-8	-8

TABLE 22 - Continued

WEST

STRAIN VARIETY	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	PROSPER✳ TX	STUTTGART AR	MEAN
HUTCHESON	10/20	.	.	10/08	.	10/20
MANOKIN	-9	.	.	-5	.	-9
BOLIVAR	-5	.	.	1	.	-5
DT96-6840	-7	.	.	-3	.	-7
K1463	-5	.	.	2	.	-5
LS96-1631	-3	.	.	-3	.	-3
Md 97-6065	2	.	.	0	.	2
Md 97-6590	-5	.	.	2	.	-5
N98-293	-5	.	.	-6	.	-5
N98-7182	-4	.	.	1	.	-4
N98-7265	0	.	.	2	.	0
N98-74	-8	.	.	-3	.	-8
R95-2210	-1	.	.	3	.	-1
R96-209	-6	.	.	-4	.	-6
R96-3427	0	.	.	4	.	0
S97-1753	-8	.	.	-2	.	-8
S97-1759	-8	.	.	-6	.	-8
TN96-58	0	.	.	1	.	0
TN96-68	-6	.	.	-5	.	-6
TN96-84	-3	.	.	-2	.	-3
TN97-271	-5	.	.	-4	.	-5
V93-3114	-5	.	.	-3	.	-5
V95-0016	-5	.	.	3	.	-5
V96-0310	-6	.	.	-1	.	-6
V96-0340	-4	.	.	2	.	-4
V96-1772	-6	.	.	-2	.	-6

✳Data not included in mean.

TABLE 23 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2001

EAST

STRAIN/ VARIETY	GEORGETOWN DE	ORANGE✳ VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
HUTCHESON	35	44	28	30	32	31
MANOKIN	29	42	23	27	29	27
BOLIVAR	39	49	37	38	40	39
DT96-6840	34	44	29	33	37	33
K1463	36	43	26	37	33	33
LS96-1631	36	42	30	34	32	33
Md 97-6065	36	41	28	31	28	31
Md 97-6590	36	42	29	33	28	32
N98-293	34	45	31	34	32	33
N98-7182	42	46	31	32	32	34
N98-7265	38	44	35	33	30	34
N98-74	32	37	27	31	27	29
R95-2210	36	44	30	33	31	32
R96-209	34	46	32	32	31	32
R96-3427	37	46	31	40	34	36
S97-1753	37	47	34	31	31	33
S97-1759	38	45	33	33	34	34
TN96-58	35	43	32	34	34	34
TN96-68	35	45	28	28	27	29
TN96-84	37	43	30	30	28	31
TN97-271	36	40	28	32	32	32
V93-3114	39	48	33	35	35	35
V95-0016	37	45	31	31	31	32
V96-0310	39	40	33	30	31	33
V96-0340	35	41	28	32	29	31
V96-1772	32	40	23	26	25	27

✳Data not included in mean.

TABLE 23 - Continued

SOUTH

STRAIN/ VARIETY	BELLE MINA AL	KNOXVILLE TN	PRINCETON KY	SPRINGFIELD TN	STARKVILLE MS	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	33	30	39	43	24	28	35	33
MANOKIN	21	27	35	39	23	28	19	27
BOLIVAR	41	39	53	47	32	33	47	42
DT96-6840	36	35	43	42	29	30	35	36
K1463	34	34	45	43	30	28	29	35
LS96-1631	31	30	40	41	27	26	27	32
Md 97-6065	27	30	38	40	28	22	25	30
Md 97-6590	31	29	43	37	25	24	23	30
N98-293	30	29	39	47	29	27	28	33
N98-7182	33	31	45	43	27	24	28	33
N98-7265	36	28	46	44	32	28	34	35
N98-74	26	26	35	37	26	23	21	28
R95-2210	35	33	41	48	29	26	31	35
R96-209	32	31	42	46	28	23	29	33
R96-3427	32	34	44	43	25	28	31	34
S97-1753	29	34	46	41	31	24	24	33
S97-1759	32	34	43	48	30	28	31	35
TN96-58	30	30	42	46	25	27	29	33
TN96-68	26	27	35	42	23	22	23	28
TN96-84	27	28	41	43	26	22	31	31
TN97-271	33	31	42	43	29	26	31	34
V93-3114	36	36	46	48	30	28	33	37
V95-0016	30	30	41	46	30	24	27	33
V96-0310	34	29	41	42	28	27	29	33
V96-0340	31	31	42	42	24	26	28	32
V96-1772	25	26	36	39	23	21	24	28

TABLE 23 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
HUTCHESON	40	38	33	35	40	37
MANOKIN	24	31	28	32	26	28
BOLIVAR	41	41	47	39	40	42
DT96-6840	44	38	37	34	36	38
K1463	35	35	34	37	32	35
LS96-1631	35	39	31	34	30	34
Md 97-6065	35	35	33	34	28	33
Md 97-6590	36	25	25	33	28	29
N98-293	38	30	28	35	30	32
N98-7182	40	41	38	36	36	38
N98-7265	40	41	39	37	34	38
N98-74	31	32	26	31	28	30
R95-2210	40	37	37	38	30	36
R96-209	38	34	35	37	30	35
R96-3427	41	33	34	37	30	35
S97-1753	37	35	34	33	28	33
S97-1759	39	38	34	38	32	36
TN96-58	38	41	29	36	32	35
TN96-68	32	39	27	34	26	32
TN96-84	36	34	29	36	28	33
TN97-271	39	35	33	35	30	34
V93-3114	38	41	37	40	40	39
V95-0016	34	37	30	37	30	34
V96-0310	39	34	33	36	28	34
V96-0340	36	37	33	33	28	33
V96-1772	34	25	26	32	26	29

TABLE 23 - Continued

WEST

STRAIN/ VARIETY	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	PROSPER✳ TX	STUTTGART AR	MEAN
HUTCHESON	25	24	25	19	21	24
MANOKIN	21	24	29	16	14	22
BOLIVAR	34	38	36	27	24	33
DT96-6840	27	27	28	18	22	26
K1463	33	30	31	20	20	28
LS96-1631	29	27	25	18	16	24
Md 97-6065	32	26	28	21	15	25
Md 97-6590	27	24	25	19	17	23
N98-293	30	27	29	25	17	26
N98-7182	28	30	30	21	19	26
N98-7265	37	31	31	23	21	30
N98-74	25	24	27	17	15	23
R95-2210	30	29	31	26	21	28
R96-209	29	26	29	19	17	25
R96-3427	25	27	28	19	17	24
S97-1753	27	28	33	20	17	26
S97-1759	31	26	30	22	18	26
TN96-58	29	30	28	23	17	26
TN96-68	25	27	26	18	15	23
TN96-84	29	28	27	13	15	25
TN97-271	21	22	24	18	18	21
V93-3114	37	30	32	25	20	30
V95-0016	30	26	30	15	18	26
V96-0310	25	27	25	19	20	24
V96-0340	25	21	25	19	17	22
V96-1772	25	22	26	18	15	22

✳Data not included in mean.

TABLE 24 - LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2001

EAST

STRAIN/ VARIETY	GEORGETOWN DE	ORANGE✳ VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
HUTCHESON	1.3	2.3	2.3	2.2	2.0	2.0
MANOKIN	2.3	3.0	1.3	3.3	2.0	2.2
BOLIVAR	3.7	3.7	3.0	3.5	3.0	3.3
DT96-6840	2.3	3.0	3.3	3.0	3.7	3.1
K1463	2.7	3.3	1.7	2.8	2.7	2.5
LS96-1631	2.3	1.7	1.7	2.5	2.0	2.1
Md 97-6065	3.7	3.0	1.7	2.8	2.0	2.6
Md 97-6590	2.7	2.0	2.0	2.8	1.7	2.3
N98-293	3.3	3.0	2.3	3.5	2.0	2.8
N98-7182	2.7	3.0	2.0	2.3	2.0	2.3
N98-7265	2.3	3.3	2.0	2.7	2.3	2.3
N98-74	3.0	3.3	2.3	3.0	2.0	2.6
R95-2210	3.7	3.7	2.0	3.5	2.3	2.9
R96-209	3.3	3.0	1.3	2.8	2.0	2.4
R96-3427	1.3	2.0	1.0	2.5	2.0	1.7
S97-1753	5.0	4.3	2.7	3.7	3.0	3.6
S97-1759	3.7	4.0	3.0	3.5	3.0	3.3
TN96-58	2.0	2.7	1.3	3.2	2.0	2.1
TN96-68	2.7	3.3	2.0	2.8	2.0	2.4
TN96-84	2.3	3.0	1.0	2.3	2.0	1.9
TN97-271	2.0	2.7	2.0	2.8	2.0	2.2
V93-3114	2.0	2.7	1.7	3.2	2.3	2.3
V95-0016	2.7	2.7	1.7	2.3	2.0	2.2
V96-0310	2.3	2.7	2.3	2.8	2.0	2.4
V96-0340	1.3	2.7	1.7	2.3	2.0	1.8
V96-1772	2.0	1.3	1.0	1.8	1.7	1.6

✳Data not included in mean.

TABLE 24 - Continued

SOUTH

STRAIN/ VARIETY	BELLE MINA AL	KNOXVILLE TN	PRINCETON KY	SPRINGFIELD TN	STARKVILLE MS	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	1.0	1.8	2.8	3.0	1.0	1.0	3.7	2.0
MANOKIN	1.0	1.5	3.3	4.3	1.0	1.3	2.3	2.1
BOLIVAR	1.0	2.5	3.2	3.3	2.0	1.3	4.0	2.5
DT96-6840	1.0	3.5	3.7	3.7	2.0	1.0	4.0	2.7
K1463	1.0	1.7	4.0	4.3	1.0	1.0	3.0	2.3
LS96-1631	1.0	1.5	2.7	2.3	1.0	1.0	1.7	1.6
Md 97-6065	1.0	1.5	3.2	4.3	1.0	1.0	2.3	2.0
Md 97-6590	1.0	1.5	2.3	2.0	1.0	1.0	1.3	1.5
N98-293	1.0	1.7	3.5	3.7	1.0	1.0	2.7	2.1
N98-7182	1.0	1.5	3.0	2.3	1.0	1.0	2.0	1.7
N98-7265	1.0	1.7	3.5	2.3	2.0	1.0	2.3	2.0
N98-74	1.0	1.5	3.7	4.3	1.0	1.0	1.7	2.0
R95-2210	1.0	2.2	3.5	2.7	2.0	1.0	3.3	2.2
R96-209	1.0	1.8	3.0	2.7	1.0	1.0	2.0	1.8
R96-3427	1.0	1.8	2.5	2.7	1.0	1.0	1.0	1.6
S97-1753	1.0	2.3	4.2	3.3	1.0	1.3	3.0	2.3
S97-1759	1.0	2.0	4.0	3.0	1.0	1.3	3.0	2.2
TN96-58	1.0	1.5	2.7	2.3	1.0	1.0	1.0	1.5
TN96-68	1.0	1.5	3.0	3.3	1.0	1.0	1.3	1.7
TN96-84	1.0	1.3	2.8	2.3	1.0	1.0	2.0	1.6
TN97-271	1.0	1.7	3.0	2.7	1.0	1.0	2.0	1.8
V93-3114	1.0	1.7	3.0	2.0	1.0	1.0	2.7	1.8
V95-0016	1.0	1.5	3.5	3.0	1.0	1.0	2.0	1.9
V96-0310	1.0	2.0	3.0	2.7	1.0	1.0	2.0	1.8
V96-0340	1.0	1.5	2.5	3.0	1.0	1.0	1.7	1.7
V96-1772	1.0	1.3	2.3	2.7	1.0	1.0	1.3	1.5

TABLE 24 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
HUTCHESON	1.0	1.0	1.2	1.3	2.0	1.3
MANOKIN	2.0	1.0	1.5	1.5	2.0	1.6
BOLIVAR	4.0	1.0	2.3	1.5	3.0	2.4
DT96-6840	4.0	3.0	2.3	1.7	3.0	2.8
K1463	2.0	1.0	1.2	1.7	2.0	1.6
LS96-1631	1.0	1.0	1.0	1.0	2.0	1.2
Md 97-6065	1.0	1.0	1.0	2.0	2.0	1.4
Md 97-6590	1.0	1.0	1.0	1.5	2.0	1.3
N98-293	1.0	1.0	1.3	1.7	2.0	1.4
N98-7182	1.0	1.0	1.5	1.7	2.0	1.4
N98-7265	2.0	3.0	1.2	1.5	2.0	1.9
N98-74	2.0	1.0	1.0	1.3	2.0	1.5
R95-2210	3.0	2.0	1.8	1.7	2.0	2.1
R96-209	1.0	1.3	1.0	1.7	2.0	1.4
R96-3427	1.0	1.0	1.0	1.0	2.0	1.2
S97-1753	3.0	3.0	1.5	1.8	2.0	2.3
S97-1759	2.0	2.0	1.0	1.2	2.0	1.6
TN96-58	1.0	2.0	1.2	1.7	2.0	1.6
TN96-68	1.0	2.0	1.0	1.7	2.0	1.5
TN96-84	1.0	2.0	1.2	1.2	2.0	1.5
TN97-271	1.0	2.0	1.0	1.7	2.0	1.5
V93-3114	2.0	2.0	1.0	1.7	2.0	1.7
V95-0016	1.0	3.0	1.0	1.3	2.0	1.7
V96-0310	1.0	1.0	1.2	1.0	2.0	1.2
V96-0340	1.0	1.0	1.0	1.0	2.0	1.2
V96-1772	1.0	1.0	1.0	1.0	2.0	1.2

TABLE 24 - Continued

WEST

STRAIN/ VARIETY	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	STUTTGART AR	MEAN
HUTCHESON	1.3	1.0	1.0	1.0	1.1
MANOKIN	2.0	1.0	1.0	1.0	1.3
BOLIVAR	1.7	1.3	1.0	1.0	1.3
DT96-6840	1.0	1.0	1.0	1.0	1.0
K1463	2.0	1.0	1.0	1.0	1.3
LS96-1631	1.3	1.0	1.0	1.0	1.1
Md 97-6065	2.0	1.0	1.0	1.0	1.3
Md 97-6590	1.3	1.0	1.0	1.0	1.1
N98-293	1.0	1.0	1.0	1.0	1.0
N98-7182	2.0	1.0	1.0	1.0	1.3
N98-7265	2.0	1.3	1.0	1.0	1.3
N98-74	1.3	1.0	1.0	1.0	1.1
R95-2210	2.0	1.0	1.0	1.0	1.3
R96-209	1.3	1.0	1.0	1.0	1.1
R96-3427	1.0	1.0	1.0	1.0	1.0
S97-1753	2.3	1.3	1.0	1.0	1.4
S97-1759	1.7	1.0	1.0	1.0	1.2
TN96-58	1.0	1.0	1.0	1.0	1.0
TN96-68	1.7	1.0	1.0	1.0	1.2
TN96-84	1.7	1.0	1.0	1.0	1.2
TN97-271	1.0	1.0	1.0	1.0	1.0
V93-3114	1.0	1.0	1.0	1.0	1.0
V95-0016	1.3	1.0	1.0	1.0	1.1
V96-0310	1.3	1.0	1.0	1.0	1.1
V96-0340	1.0	1.0	1.0	1.0	1.0
V96-1772	1.0	1.0	1.0	1.0	1.0

TABLE 25 - SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 2001

EAST

STRAIN/ VARIETY	ORANGE✳ VA	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
HUTCHESON	1.7	2.0	1.0	1.0	1.3
MANOKIN	2.0	2.0	1.0	1.3	1.4
BOLIVAR	2.0	2.0	1.0	1.3	1.4
DT96-6840	2.0	2.0	1.0	1.0	1.3
K1463	2.3	2.0	1.0	2.0	1.7
LS96-1631	2.0	2.0	1.0	1.3	1.4
Md 97-6065	2.0	2.0	1.0	1.3	1.4
Md 97-6590	2.3	2.0	1.0	1.7	1.6
N98-293	2.3	2.0	1.0	1.7	1.6
N98-7182	2.0	2.0	1.0	1.3	1.4
N98-7265	2.0	2.0	1.0	1.3	1.4
N98-74	2.3	2.0	1.0	2.0	1.7
R95-2210	2.0	2.0	1.0	2.0	1.7
R96-209	2.0	2.0	1.0	1.3	1.4
R96-3427	2.3	2.0	1.0	1.3	1.4
S97-1753	2.0	2.0	1.0	1.3	1.4
S97-1759	2.0	2.0	1.0	1.3	1.4
TN96-58	2.0	2.0	1.0	2.0	1.7
TN96-68	2.0	2.0	1.0	1.7	1.6
TN96-84	2.0	2.0	1.0	1.7	1.6
TN97-271	2.0	2.0	1.0	1.0	1.3
V93-3114	2.0	2.0	1.0	1.0	1.3
V95-0016	2.0	2.0	1.0	1.3	1.4
V96-0310	2.0	2.0	1.0	1.3	1.4
V96-0340	2.0	2.0	1.0	1.7	1.6
V96-1772	1.7	2.0	1.0	1.0	1.3

✳**Data not included in mean.**

TABLE 25 - Continued

SOUTH

STRAIN/ VARIETY	BATON ROUGE LA	BELLE MINA AL	KNOXVILLE TN	PRINCETON KY	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	1.2	2.0	2.0	3.0	1.0	1.7	1.8
MANOKIN	1.3	2.0	3.0	2.0	1.7	1.7	1.9
BOLIVAR	1.3	2.0	1.0	1.0	2.0	1.0	1.4
DT96-6840	1.1	1.0	2.0	2.0	1.0	1.3	1.4
K1463	1.0	1.3	2.0	2.0	1.3	1.0	1.4
LS96-1631	1.3	1.7	2.0	2.0	1.0	1.0	1.5
Md 97-6065	1.4	2.0	1.0	2.0	1.0	1.3	1.5
Md 97-6590	1.6	2.0	2.0	2.0	3.0	2.0	2.1
N98-293	1.5	2.0	2.0	2.0	2.0	1.3	1.8
N98-7182	1.3	1.7	2.0	2.0	1.0	1.0	1.5
N98-7265	1.5	2.0	2.0	1.0	1.0	1.3	1.5
N98-74	2.3	2.0	2.0	2.0	2.0	1.0	1.9
R95-2210	1.3	2.0	3.0	2.0	1.0	2.0	1.9
R96-209	1.2	2.0	2.0	3.0	2.3	1.3	2.0
R96-3427	1.5	2.0	2.0	1.0	1.3	1.3	1.5
S97-1753	1.8	2.0	2.0	3.0	1.7	2.3	2.1
S97-1759	1.0	2.0	1.0	2.0	1.3	1.0	1.4
TN96-58	1.2	1.7	2.0	3.0	1.0	1.0	1.6
TN96-68	1.0	2.0	2.0	1.0	2.7	1.0	1.6
TN96-84	1.3	2.0	2.0	2.0	2.0	1.7	1.8
TN97-271	1.3	2.0	1.0	1.0	1.0	1.0	1.2
V93-3114	1.2	2.0	1.0	1.0	1.0	1.0	1.2
V95-0016	1.0	2.0	1.0	1.0	1.0	1.0	1.2
V96-0310	1.8	1.7	2.0	2.0	1.0	1.3	1.6
V96-0340	1.6	1.7	2.0	2.0	2.3	1.3	1.8
V96-1772	1.7	1.7	2.0	3.0	1.0	1.3	1.8

TABLE 25 - Continued

DELTA

STRAIN/ VARIETY	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
HUTCHESON	1.7	3.0	2.0	2.0	2.2
MANOKIN	2.3	3.0	2.0	2.0	2.3
BOLIVAR	2.0	3.0	2.0	2.0	2.3
DT96-6840	2.0	2.0	2.0	2.0	2.0
K1463	1.7	2.0	2.0	2.0	1.9
LS96-1631	2.0	3.0	2.0	2.0	2.3
Md 97-6065	1.7	3.0	2.0	2.0	2.2
Md 97-6590	2.7	3.0	2.0	3.0	2.7
N98-293	1.7	3.0	2.0	2.0	2.2
N98-7182	1.3	2.0	3.0	2.0	2.1
N98-7265	1.0	2.0	3.0	2.0	2.0
N98-74	1.7	3.0	3.0	2.0	2.4
R95-2210	1.7	3.0	3.0	2.0	2.4
R96-209	2.0	2.0	3.0	2.0	2.3
R96-3427	1.7	3.0	3.0	2.0	2.4
S97-1753	2.0	2.0	3.0	3.0	2.5
S97-1759	1.7	2.0	3.0	2.0	2.2
TN96-58	1.7	3.0	3.0	2.0	2.4
TN96-68	1.7	2.0	3.0	3.0	2.4
TN96-84	2.0	3.0	2.0	2.0	2.3
TN97-271	1.7	3.0	2.0	2.0	2.2
V93-3114	2.0	2.0	3.0	2.0	2.3
V95-0016	1.3	3.0	3.0	2.0	2.3
V96-0310	1.7	3.0	3.0	2.0	2.4
V96-0340	1.0	2.0	3.0	2.0	2.0
V96-1772	1.0	2.0	2.0	2.0	1.8

TABLE 25 - Continued

WEST

STRAIN/ VARIETY	MCCUNE KS	PITTSBURG KS	MEAN
HUTCHESON	1.0	1.0	1.0
MANOKIN	1.0	2.0	1.5
BOLIVAR	2.0	2.0	2.0
DT96-6840	1.0	1.0	1.0
K1463	1.0	1.0	1.0
LS96-1631	2.0	2.0	2.0
Md 97-6065	1.0	2.0	1.5
Md 97-6590	2.0	2.0	2.0
N98-293	1.0	2.0	1.5
N98-7182	1.0	1.0	1.0
N98-7265	1.0	1.0	1.0
N98-74	2.0	2.0	2.0
R95-2210	2.0	2.0	2.0
R96-209	1.0	1.0	1.0
R96-3427	1.0	2.0	1.5
S97-1753	1.0	2.0	1.5
S97-1759	1.0	1.0	1.0
TN96-58	1.0	1.0	1.0
TN96-68	2.0	3.0	2.5
TN96-84	1.0	2.0	1.5
TN97-271	1.0	1.0	1.0
V93-3114	1.0	1.0	1.0
V95-0016	1.0	1.0	1.0
V96-0310	2.0	2.0	2.0
V96-0340	2.0	2.0	2.0
V96-1772	1.0	1.0	1.0

PRELIMINARY GROUP V

2001

Preliminary Group V nurseries were planted at 9 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, 2001

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	CHECK	
2. MANOKIN	CHECK	
3. K1529	Hutcheson x N90-7199	F5
4. K1530	KS5292 x SC91-2007	F5
5. K1531	S91-1661 x HUTCHESON	F5
6. K1532	KS5292 x SC91-2007	F5
7. K1533	KS5292 x SC91-2007	F5
8. LS98-0466	LS90-1920 x Pioneer 9394	
9. LS98-0484	Pharaoh x Dairyland Seeds 373	
10. LS98-3645	Northup King 46-44 x Manokin	
11. LS98-3854	LS90-1920 x Asgrow 5112	
12. LS98-3966	LS90-1920 x Hutcheson	
13. Md 98-5095	D92-9779 x Probst	F5
14. Md 98-5927	Hartwig x LN89-295	F5
15. Md 98-5987	Md 90-5473 x Tn 90-3	F5
16. N98-6403	N87-539(3) x Hartwig	F5
17. N99-8234	Clifford x NTCPR92-40	F4
18. N98-7261	HUTCHESON x PI 471938	F4
19. N98-7275	HUTCHESON x PI 471938	F4
20. N98-7288	HUTCHESON x PI 471938	F4
21. N98-7289	HUTCHESON x PI 471938	F4
22. N99-186	N90-516 x N90-845	F6
23. N99-579	N92-32 x K1309	F6
24. N99-58	N92-32 x K1309	F6
25. N99-701	N93-1264 x D91-4759	F6
26. R95-1705	Hutcheson x Barc-7	
27. R97-1634	P 9592 x Holladay	
28. R97-1650	P 9592 x Holladay	
29. R97-818	Hutcheson x ASG A5885	
30. S98-1375	N90-516 x S92-1666	
31. S99-1117	Anand x S94-1808	
32. S99-1171	Delsoy 5500 x Anand	
33. S99-1177	Delsoy 5500 x Anand	
34. S99-1779	S93-1475 x Delsoy 5500	
35. S99-2176	S93-1591 x S94-1808	
36. TN96-192	HARTWIG x MANOKIN	
37. TN97-02	K1192 x N87-325	
38. TN97-134	TN90-58 x SPENCER	
39. TN97-167	TN89-39 x MANOKIN	
40. TN98-219	S85-1009 x TN 5-92	
41. TN99-191	TN92-64 x TN93-55	
42. V97-1827	Essex x (Hut.(3)xAvery)	
43. V97-1843	Essex x (Hut.(3)xAvery)	
44. V97-1911	Hartwig x Clifford	
45. V97-2276	Hutcheson x KS5292	
46. V97-2303	Hutcheson x KS5292	

TABLE 27 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2001 - MEAN OF 7 LOCATIONS

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT---- PROTEIN	OIL	STEM CANKER	SCN 2	SCN 3	SCN 14	FL COLOR	PUB. COLOR	POD COLOR
HUTCHESON	45.3	10/11	1.8	30	1.4	13.4	39.9	21.2	R	4.7	5.0	5.0	W	G	T
MANOKIN	42.8	6-	1.9	25	1.9	12.4	38.4-	21.4	R	1.3	1.0	3.8	W	T	T
K1529	43.7	3-	1.6	24	1.7	14.1	39.4	21.1	S	4.8	5.0	4.0	P	G	T
K1530	48.2	5-	1.7	28	1.9	12.4	40.2	21.4	R	3.3	1.7	2.4	W	G	T
K1531	43.3	2+	2.3	29	1.8	13.3	39.0	20.9	SEG	2.5	1.8	1.5	W	T	T
K1532	44.1	2-	1.8	32	2.1	14.8	41.2+	20.9	SEG	4.8	1.5	3.7	W	G	T
K1533	49.1	1-	1.6	31	1.8	13.6	40.3	21.8+	R	4.6	1.0	2.7	W	G	T
LS98-0466	42.1	7-	1.7	32	1.9	13.5	40.9	20.6	R	4.7	1.3	3.7	W	T	T
LS98-0484	45.3	6-	1.8	33	1.9	13.9	39.3	21.3	R	4.8	1.5	1.5	W	T	T
LS98-3645	46.5	6-	1.3	30	2.2	14.3	39.5	21.3	S	4.6	1.2	1.9	P	T	BR
LS98-3854	45.5	6-	1.8	33	1.8	12.5	41.3+	20.6	R?	4.8	1.3	2.0	P	T	BR
LS98-3966	46.2	6-	1.4	28	1.7	13.1	40.2	21.7	R?	4.3	2.0	2.0	P	T	T
Md 98-5095	46.2	6-	1.5	28	1.7	11.8	39.2	20.7	R	5.0	1.7	2.7	P	T	T
Md 98-5927	46.0	5-	1.4	25	2.0	15.2	39.8	20.3-	SEG	1.0	1.0	3.6	W	T	BR
Md 98-5987	45.5	7-	1.6	27	1.9	15.7	38.3-	20.8	?	4.3	1.3	2.8	P	G	T
N98-6403	44.7	3-	1.4	27	1.7	13.4	37.7-	22.1+	?	1.9	4.3	1.3	W	G	T
N99-8234	38.5-	6+	2.5	38	2.2	16.9	41.1+	19.8-	S	4.0	5.0	2.3	P	G	T
N98-7261	40.9	2+	1.9	35	2.0	15.1	41.2+	20.8	SEG	4.8	4.7	4.0	W	G	T
N98-7275	40.6	1+	2.2	32	1.8	14.5	41.7+	20.2-	S	5.0	4.5	4.5	W	G	T
N98-7288	43.6	3+	1.7	34	1.8	14.6	39.2	20.8	R	5.0	3.8	4.4	W	G	T
N98-7289	43.6	2+	1.7	33	1.6	13.8	38.9	20.9	R	4.7	4.5	4.7	W	G	T
N99-186	47.3	4-	1.6	28	1.7	12.9	39.9	20.9	S	5.0	4.5	4.6	P	G	T
N99-579	45.5	1+	1.5	26	1.8	13.7	38.0-	22.0+	S	4.7	4.5	4.0	P	G	T
N99-58	48.7	5-	1.5	27	1.8	12.3	37.3-	22.6+	R	3.0	4.6	3.9	P	G	T
N99-701	37.7-	0	1.6	29	1.5	10.5	42.6+	18.5-	R	4.7	4.1	4.4	W	G	T
R95-1705	41.8	3-	1.8	30	1.8	14.6	46.0+	17.9-	R	4.8	4.0	4.3	W	G	T
R97-1634	49.2	2+	1.9	31	1.8	14.6	40.7	20.9	SEG	5.0	4.2	2.9	W	G	T
R97-1650	47.0	2-	2.1	34	1.8	14.8	40.5	21.2	S	4.5	4.9	4.3	S	G	T
R97-818	47.2	2-	1.8	31	1.9	14.2	40.8	20.8	SEG	2.9	2.3	2.7	W	T	T
S98-1375	49.2	2-	1.8	32	2.0	14.5	38.5-	20.5-	S	1.0	1.3	1.5	W	T	T
S99-1117	48.6	2+	2.0	34	2.0	13.5	39.1	20.3-	S	1.1	4.0	1.4	P	T	T
S99-1171	51.0+	5+	1.4	32	2.0	14.8	41.0+	20.4-	SEG	1.3	3.3	1.3	W	T	T
S99-1177	47.1	2-	1.6	34	1.8	13.8	40.4	21.4	SEG	3.0	4.0	1.1	P	T	T
S99-1779	45.7	0	1.3	27	1.7	13.8	41.1+	20.4-	S	4.0	1.3	1.3	W	G	T
S99-2176	47.3	4-	2.4	38	1.8	9.9	39.8	19.4-	S	1.0	1.8	1.0	P	T	T
TN96-192	47.8	5-	1.9	33	1.9	13.3	40.0	20.5-	R	4.0	2.0	1.1	P	T	T
TN97-02	47.6	3-	1.5	32	2.0	12.2	40.2	20.6	R	4.4	5.0	2.3	P	T	BR
TN97-134	48.5	6-	1.8	29	1.9	14.8	40.5	20.4-	R	4.5	2.2	1.1	W	T	T
TN97-167	50.6+	3-	1.6	30	1.8	12.9	39.9	19.8-	R	4.7	1.4	3.6	W	G	T
TN98-219	47.2	3-	1.7	32	2.0	11.7	40.7	19.5-	S	4.0	1.2	3.7	S	G	T
TN99-191	48.0	3+	1.7	29	2.2	15.6	40.0	21.1	R	4.9	5.0	1.7	P	G	T
V97-1827	46.1	6-	1.5	26	2.0	12.3	41.2+	21.9+	?	4.4	5.0	2.5	W	G	T
V97-1843	46.0	6-	1.3	26	1.8	14.0	41.9+	20.5-	?	4.4	4.7	4.2	W	G	T
V97-1911	45.5	5-	1.6	31	2.0	12.7	37.9-	21.2	S	2.0	1.3	1.5	P	T	BR
V97-2276	48.9	5-	1.5	31	1.8	11.9	39.7	21.3	S	4.1	1.5	3.8	W	G	T
V97-2303	47.8	3-	1.5	31	1.8	12.9	41.8+	20.6	S	4.9	4.7	4.1	W	G	T
OVERALL MEAN	45.8						40.1	20.8							
LSD (.05)	5.2						1.1	0.6							
C.V.	11%						2%	3%							

TABLE 28 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2001

STRAIN/ VARIETY	JACKSON TN	KEISER AR	MCCUNE KS	PLYMOUTH NC	PORTAGEVILLE✳ MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN✳ IL	WARSAW VA	MEAN
HUTCHESON	48.6	53.7	27.2	44.8	52.9	42.6	47.8	29.9	53.2	45.3
MANOKIN	37.0-	38.2	29.8	40.4	50.5	44.7	47.6	10.9-	49.4	42.8
K1529	40.0	49.8	27.3	40.2	46.1	44.0	54.0	51.5+	54.4	43.7
K1530	56.4	40.7	29.2	38.4	53.4	58.4+	53.2	36.0	48.7	48.2
K1531	45.1	37.9	27.2	34.6-	54.2	43.3	45.4	34.3	53.4	43.3
K1532	40.6	38.0	25.8	36.6	51.0	56.1+	48.8	35.6	50.0	44.1
K1533	55.5	57.6	27.3	40.0	55.4	54.0+	56.5+	43.7	55.4	49.1
LS98-0466	52.5	44.2	24.1-	34.4-	41.3-	44.3	52.3	43.8	45.5	42.1
LS98-0484	51.2	40.0	23.2-	43.7	45.3	52.1+	52.5	28.3	49.3	45.3
LS98-3645	50.1	49.0	26.2	47.2	55.1	48.8	48.0	35.8	49.9	46.5
LS98-3854	51.0	41.9	26.4	42.1	48.9	49.9	51.6	36.9	48.7	45.5
LS98-3966	55.7	44.6	25.0	44.7	48.8	47.9	49.4	43.0	51.8	46.2
Md 98-5095	59.8+	53.4	27.6	41.6	49.2	44.0	51.2	34.0	50.4	46.2
Md 98-5927	58.7	50.8	25.3	40.8	44.9	45.2	51.2	31.4	56.1	46.0
Md 98-5987	54.0	47.9	29.7	39.1	41.8-	49.5	51.1	55.4+	53.5	45.5
N98-6403	57.2	52.5	28.7	35.4	53.7	53.8+	38.8-	38.9	45.4	44.7
N99-8234	43.8	47.4	20.2-	36.4	48.4	32.7-	36.5-	42.6	51.6	38.5-
N98-7261	45.6	47.5	24.8	36.0	43.9	36.6	46.1	44.4	53.3	40.9
N98-7275	42.4	51.2	24.2-	37.5	40.7-	36.2	48.2	32.9	54.7	40.6
N98-7288	43.1	45.4	25.8	43.4	49.2	35.2	54.2	47.2+	54.5	43.6
N98-7289	46.8	53.9	26.3	41.2	47.2	39.0	48.9	34.8	55.6	43.6
N99-186	57.6	59.9	31.2+	41.8	52.3	38.8	51.6	39.5	57.9	47.3
N99-579	55.0	42.7	25.3	41.5	43.1-	37.6	56.2+	33.1	60.2	45.5
N99-58	58.2	53.1	28.1	43.0	46.6	43.6	68.0+	37.7	53.4	48.7
N99-701	47.5	54.6	21.9-	40.0	44.3	37.1	23.3-	37.7	49.6	37.7-
R95-1705	46.6	42.4	23.3-	39.9	45.6	39.7	46.4	25.9	51.5	41.8
R97-1634	59.1	58.2	27.9	45.3	58.8	37.1	60.5+	53.1+	55.6	49.2
R97-1650	53.5	58.0	27.2	42.6	58.7	38.3	57.8+	54.4+	50.8	47.0
R97-818	52.6	46.6	23.1-	47.9	54.1	44.4	54.2	49.7+	53.8	47.2
S98-1375	62.0+	49.4	25.9	49.2	58.1	50.8	47.0	43.4	51.6	49.2
S99-1117	57.9	59.4	22.4-	49.3	60.3	45.3	50.0	57.9+	54.8	48.6
S99-1171	56.5	49.9	25.4	43.8	65.6+	51.1	54.5	54.3+	60.0	51.0+
S99-1177	57.8	51.0	27.1	45.1	58.2	42.3	44.5	51.1+	55.0	47.1
S99-1779	46.1	45.8	31.8+	35.0	52.6	45.3	52.8	32.7	56.2	45.7
S99-2176	59.6+	45.3	25.9	45.0	40.4-	46.9	60.1+	47.1+	53.6	47.3
TN96-192	49.2	49.3	27.0	48.7	50.5	51.0	54.3	32.5	54.1	47.8
TN97-02	62.9+	57.9	24.4	45.0	50.9	36.9	55.7+	46.4+	57.2	47.6
TN97-134	58.1	61.3	25.7	48.1	57.0	46.5	49.8	54.2+	54.3	48.5
TN97-167	59.7+	58.8	30.3+	47.5	60.9	50.9	52.1	55.6+	52.8	50.6+
TN98-219	58.0	48.3	31.8+	38.9	57.2	44.7	48.9	41.6	51.4	47.2
TN99-191	61.7+	52.3	25.2	47.4	60.1	45.6	46.6	52.8+	49.4	48.0
V97-1827	50.2	43.9	27.3	45.7	54.0	36.1	56.1+	42.2	53.2	46.1
V97-1843	55.1	54.0	24.7	43.2	35.1-	44.6	62.6+	48.1+	56.6	46.0
V97-1911	61.7+	47.0	26.8	40.5	48.7	43.7	51.0	42.4	46.1	45.5
V97-2276	58.5	46.2	26.7	44.6	56.5	50.6	53.4	48.9+	52.4	48.9
V97-2303	55.7	50.8	27.5	41.7	56.8	45.0	53.2	45.4	54.6	47.8
L.S.D. (0.05)	10.8	15.9	2.9	10.0	9.6	9.3	7.1	15.5	7.9	5.2
C.V. (%)	10.2	16.0	5.5	8.5	9.4	10.4	7.0	17.5	7.4	10.7

✳**Data not included in mean.**

TABLE 29 - OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2001

STRAIN/ VARIETY	MCCUNE KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN* IL	WARSAW VA	MEAN
HUTCHESON	21.4	21.4	21.7	19.8	22.3	21.7	20.8	21.2
MANOKIN	22.6	21.5	20.8	19.3	23.0	21.6	21.0	21.4
K1529	21.0	20.9	21.5	20.0	22.1	19.5	20.9	21.1
K1530	21.6	21.0	22.0	20.4	21.4	21.8	22.1	21.4
K1531	20.5	21.6	21.6	19.8	21.6	21.2	20.0	20.9
K1532	21.0	21.0	21.7	19.9	21.0	21.0	20.5	20.9
K1533	21.9	21.8	22.7	21.0	22.1	20.9	21.5	21.8
LS98-0466	20.8	19.9	21.5	19.4	20.9	20.8	21.1	20.6
LS98-0484	21.6	21.0	21.7	20.6	22.1	19.9	21.0	21.3
LS98-3645	20.9	21.1	21.1	20.2	22.7	21.1	21.9	21.3
LS98-3854	20.8	20.0	20.3	20.2	20.5	19.2	21.7	20.6
LS98-3966	22.6	21.8	21.5	21.0	22.5	21.1	20.6	21.7
Md 98-5095	20.9	20.4	20.1	20.1	21.4	20.2	21.2	20.7
Md 98-5927	19.7	20.1	20.6	19.4	21.9	20.1	20.3	20.3
Md 98-5987	20.8	20.0	21.6	19.2	22.6	21.3	20.4	20.8
N98-6403	23.1	22.1	22.3	20.3	22.6	21.7	22.2	22.1
N99-8234	19.4	20.4	19.7	19.3	21.0	20.2	19.1	19.8
N98-7261	20.7	20.9	21.0	19.7	22.4	20.8	20.1	20.8
N98-7275	20.3	20.5	19.5	19.5	21.3	19.6	19.9	20.2
N98-7288	20.3	20.7	20.7	20.0	22.3	20.5	20.6	20.8
N98-7289	20.9	20.6	20.8	20.5	21.7	20.6	20.7	20.9
N99-186	20.9	20.1	21.3	20.2	22.0	20.8	21.0	20.9
N99-579	21.8	21.7	22.2	20.9	23.7	22.2	21.7	22.0
N99-58	23.3	22.4	23.5	21.7	23.6	22.2	21.1	22.6
N99-701	18.6	18.4	17.7	17.7	19.8	17.9	19.0	18.5
R95-1705	18.7	17.0	17.5	18.6	17.4	17.3	18.2	17.9
R97-1634	20.3	21.8	21.4	19.9	21.5	20.7	20.3	20.9
R97-1650	21.2	20.7	22.0	20.3	21.9	21.1	21.0	21.2
R97-818	20.1	20.5	21.2	20.5	21.6	21.1	21.1	20.8
S98-1375	19.6	20.6	20.6	19.7	20.9	19.7	21.5	20.5
S99-1117	20.4	20.6	20.8	18.7	21.1	20.7	19.9	20.3
S99-1171	19.8	20.8	20.7	19.2	22.0	20.4	19.8	20.4
S99-1177	21.8	21.2	22.5	20.5	22.1	21.9	20.5	21.4
S99-1779	20.5	19.7	21.0	19.2	21.7	19.8	20.0	20.4
S99-2176	19.2	18.8	19.4	18.4	20.5	19.1	19.9	19.4
TN96-192	20.1	19.5	20.9	19.5	22.2	19.7	20.5	20.5
TN97-02	20.2	21.1	20.7	20.0	21.1	20.2	20.3	20.6
TN97-134	20.1	19.9	21.1	19.9	21.2	20.8	19.9	20.4
TN97-167	20.1	19.4	20.1	18.8	21.3	19.8	19.1	19.8
TN98-219	19.4	18.8	20.3	18.6	20.7	19.3	19.3	19.5
TN99-191	20.9	21.2	21.8	19.6	23.2	21.9	20.0	21.1
V97-1827	21.7	21.0	21.8	21.7	23.0	21.2	22.0	21.9
V97-1843	20.6	19.8	21.5	20.3	20.7	20.8	20.2	20.5
V97-1911	21.1	20.9	21.5	19.7	22.8	20.8	21.0	21.2
V97-2276	21.9	20.6	21.5	20.7	21.8	20.8	21.2	21.3
V97-2303	21.1	19.9	21.2	19.8	20.7	20.5	21.0	20.6

*Data not included in mean.

TABLE 30 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2001

STRAIN/ VARIETY	MCCUNE KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN✳ IL	WARSAW VA	MEAN
HUTCHESON	39.8	39.1	40.4	40.3	39.2	41.0	40.5	39.9
MANOKIN	36.2	36.4	41.5	39.3	38.6	39.4	38.3	38.4
K1529	39.1	37.6	40.8	39.6	39.5	41.3	39.6	39.4
K1530	39.1	40.1	42.2	39.4	41.5	41.1	38.9	40.2
K1531	38.6	36.5	40.6	38.4	39.4	40.1	40.6	39.0
K1532	40.4	40.7	42.1	40.6	42.2	42.3	41.2	41.2
K1533	39.8	38.7	42.1	40.0	41.0	41.8	40.0	40.3
LS98-0466	39.0	40.9	43.3	39.9	42.8	41.6	39.3	40.9
LS98-0484	37.8	38.7	40.6	39.2	40.3	41.7	39.0	39.3
LS98-3645	38.4	38.7	42.4	39.5	40.0	41.3	37.8	39.5
LS98-3854	41.0	40.2	43.7	40.8	43.7	43.6	38.6	41.3
LS98-3966	38.1	39.6	42.3	38.7	41.5	41.6	40.8	40.2
Md 98-5095	38.2	37.8	42.0	39.7	39.8	40.7	37.8	39.2
Md 98-5927	41.3	38.6	41.5	38.6	40.3	40.8	38.2	39.8
Md 98-5987	36.4	39.6	39.5	38.1	37.5	37.9	38.4	38.3
N98-6403	35.6	36.4	40.2	37.5	39.3	40.2	37.3	37.7
N99-8234	40.7	39.2	43.6	40.3	41.1	42.1	41.8	41.1
N98-7261	40.8	40.6	42.8	41.5	40.1	42.3	41.3	41.2
N98-7275	40.8	40.8	44.4	41.2	40.8	43.1	42.0	41.7
N98-7288	39.9	37.9	41.1	39.0	37.6	40.8	39.8	39.2
N98-7289	38.3	38.6	41.0	37.3	38.8	40.8	39.1	38.9
N99-186	39.1	39.3	41.2	40.1	39.6	41.0	39.9	39.9
N99-579	37.2	37.4	40.1	37.9	36.8	38.9	38.3	38.0
N99-58	35.0	35.4	39.5	37.1	36.8	40.1	39.9	37.3
N99-701	41.7	42.0	45.8	42.5	42.3	44.0	41.5	42.6
R95-1705	43.9	46.8	48.1	43.8	47.2	47.7	46.2	46.0
R97-1634	40.3	41.5	42.1	39.0	40.4	41.8	40.8	40.7
R97-1650	40.1	40.4	41.7	39.7	40.8	41.7	40.5	40.5
R97-818	40.5	39.9	42.7	40.5	40.7	41.1	40.4	40.8
S98-1375	40.0	36.2	40.8	38.2	38.7	39.6	36.9	38.5
S99-1117	39.5	37.5	40.7	39.2	38.6	40.0	38.9	39.1
S99-1171	40.4	39.1	43.8	41.3	40.4	42.2	40.9	41.0
S99-1177	39.4	38.8	41.7	40.1	40.8	41.1	41.3	40.4
S99-1779	41.2	40.6	41.7	41.8	40.4	42.6	40.9	41.1
S99-2176	40.4	38.0	42.5	39.2	40.1	41.4	38.8	39.8
TN96-192	39.4	40.4	41.8	40.3	40.2	42.3	38.0	40.0
TN97-02	40.9	37.7	42.7	40.1	40.3	41.8	39.5	40.2
TN97-134	39.7	39.9	42.1	39.2	41.5	40.5	40.6	40.5
TN97-167	38.8	40.2	42.4	38.2	40.5	41.6	39.2	39.9
TN98-219	40.1	41.0	42.1	40.3	40.8	43.0	40.0	40.7
TN99-191	39.5	38.7	41.3	40.6	39.6	41.0	40.1	40.0
V97-1827	40.9	41.6	43.2	39.1	41.8	43.3	40.7	41.2
V97-1843	41.9	41.9	42.9	41.2	41.9	42.6	41.7	41.9
V97-1911	38.1	37.4	40.2	37.5	35.9	39.2	38.5	37.9
V97-2276	38.4	39.5	42.1	38.1	41.0	42.1	38.9	39.7
V97-2303	41.6	41.7	43.4	41.1	42.3	39.8	40.9	41.8

✳Data not included in mean.

TABLE 31 - SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2001

STRAIN/ VARIETY	MCCUNE KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN* IL	WARSAW VA	MEAN
HUTCHESON	14.6	13.9	13.1	12.8	10.7	12.6	15.2	13.4
MANOKIN	14.4	12.5	12.6	12.2	10.2	12.8	12.7	12.4
K1529	15.0	15.3	12.9	13.6	13.0	14.8	14.7	14.1
K1530	13.3	13.7	12.4	11.8	11.7	12.3	11.7	12.4
K1531	14.1	13.4	12.9	13.1	11.3	12.8	15.2	13.3
K1532	16.0	16.6	14.4	14.2	12.4	13.1	15.2	14.8
K1533	15.2	13.0	13.0	13.7	12.6	13.6	14.2	13.6
LS98-0466	13.5	14.8	13.6	12.4	14.2	12.4	12.8	13.5
LS98-0484	14.4	15.1	12.8	14.2	13.3	11.3	13.5	13.9
LS98-3645	15.9	15.4	13.0	14.0	13.0	11.9	14.6	14.3
LS98-3854	13.2	13.0	10.7	13.8	11.0	10.0	13.1	12.5
LS98-3966	13.8	13.9	12.1	13.5	11.2	12.2	13.9	13.1
Md 98-5095	12.1	12.0	12.1	12.7	9.7	10.1	12.0	11.8
Md 98-5927	14.9	15.1	14.1	16.5	14.9	12.2	15.9	15.2
Md 98-5987	16.0	17.9	14.9	15.2	15.0	14.7	15.2	15.7
N98-6403	14.1	13.4	13.9	13.8	10.7	13.6	14.3	13.4
N99-8234	19.2	18.6	17.3	16.8	12.9	15.4	16.7	16.9
N98-7261	17.4	16.0	13.7	14.1	13.0	15.0	16.5	15.1
N98-7275	16.7	15.5	12.0	13.4	13.9	12.6	15.6	14.5
N98-7288	18.3	14.6	13.5	13.5	12.8	13.4	14.9	14.6
N98-7289	17.1	13.8	13.0	11.9	12.6	12.2	14.4	13.8
N99-186	15.0	12.7	11.5	12.6	12.1	11.6	13.6	12.9
N99-579	14.7	14.6	13.1	11.9	12.9	11.5	15.1	13.7
N99-58	12.9	12.9	11.3	12.2	11.9	11.5	12.6	12.3
N99-701	11.1	11.0	10.6	9.8	10.4	9.8	10.2	10.5
R95-1705	14.4	15.8	13.9	15.1	12.2	12.9	16.3	14.6
R97-1634	15.2	16.7	14.5	13.5	13.2	14.7	14.7	14.6
R97-1650	16.8	15.9	15.1	13.5	13.1	15.1	14.5	14.8
R97-818	15.5	14.5	13.5	14.1	12.9	13.9	14.5	14.2
S98-1375	15.9	14.8	13.9	14.7	12.2	12.3	15.8	14.5
S99-1117	15.4	14.3	13.9	11.8	12.1	13.5	13.7	13.5
S99-1171	16.2	14.5	15.7	13.8	13.2	16.1	15.6	14.8
S99-1177	16.8	14.2	12.1	12.6	12.1	12.2	14.9	13.8
S99-1779	15.7	12.9	14.2	13.0	12.6	12.1	14.3	13.8
S99-2176	10.9	10.1	9.4	9.3	9.3	9.1	10.2	9.9
TN96-192	14.3	14.3	11.9	13.8	11.2	10.4	14.1	13.3
TN97-02	13.3	12.5	11.2	12.9	10.4	10.7	12.9	12.2
TN97-134	16.0	15.3	14.7	15.2	12.7	14.5	15.2	14.8
TN97-167	15.2	13.8	12.1	12.0	11.7	12.8	12.9	12.9
TN98-219	12.5	12.9	11.5	11.1	10.7	9.5	11.7	11.7
TN99-191	16.0	16.8	15.8	15.8	13.1	15.6	16.2	15.6
V97-1827	13.0	13.4	11.3	12.3	11.2	11.3	12.9	12.3
V97-1843	13.2	16.1	13.2	13.9	13.9	14.2	13.7	14.0
V97-1911	13.9	12.0	12.7	13.7	10.9	11.3	13.2	12.7
V97-2276	12.5	13.1	12.2	10.6	11.9	11.8	11.4	11.9
V97-2303	14.0	14.2	11.9	12.8	11.1	11.8	13.2	12.9

***Data not included in mean.**

TABLE 32 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2001

STRAIN/ VARIETY	JACKSON TN	KEISER* AR	MCCUNE KS	PLYMOUTH NC	PORTAGE-VILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN* IL	WARSAW VA	MEAN
HUTCHESON	36	42	24	34	30	28	32	25	28	30
MANOKIN	29	27	25	23	27	29	20	16	24	25
K1529	30	28	23	23	23	25	20	19	23	24
K1530	35	32	28	28	27	32	20	17	26	28
K1531	32	33	28	27	30	26	28	23	32	29
K1532	35	35	31	33	30	41	24	27	30	32
K1533	39	38	27	29	32	33	26	30	31	31
LS98-0466	36	39	33	31	32	32	34	25	27	32
LS98-0484	40	30	30	35	32	36	26	27	29	33
LS98-3645	36	28	25	33	32	31	26	26	24	30
LS98-3854	34	43	31	35	33	36	32	27	31	33
LS98-3966	37	31	25	29	30	27	26	27	25	28
Md 98-5095	32	33	27	30	29	29	26	19	26	28
Md 98-5927	29	31	22	30	23	25	26	21	23	25
Md 98-5987	32	26	28	26	24	30	24	29	24	27
N98-6403	38	32	27	27	25	29	24	19	22	27
N99-8234	37	41	32	37	43	40	40	41	37	38
N98-7261	38	42	34	30	41	31	40	32	32	35
N98-7275	36	36	29	32	34	28	34	29	30	32
N98-7288	39	40	31	33	38	32	36	37	31	34
N98-7289	36	43	32	32	38	30	32	28	31	33
N99-186	35	37	26	26	30	27	28	20	25	28
N99-579	37	39	23	26	25	26	20	23	25	26
N99-58	34	28	25	26	28	28	26	32	25	27
N99-701	41	34	32	32	34	27	12	32	26	29
R95-1705	36	33	26	31	29	31	30	21	29	30
R97-1634	38	36	30	32	35	27	30	23	27	31
R97-1650	37	45	32	35	37	34	36	34	27	34
R97-818	37	37	29	33	33	30	28	34	30	31
S98-1375	36	42	28	33	34	33	36	29	28	32
S99-1117	43	41	34	31	35	33	32	31	30	34
S99-1171	38	35	29	30	33	33	34	30	30	32
S99-1177	38	43	31	36	36	31	36	35	29	34
S99-1779	33	30	27	23	29	24	30	22	23	27
S99-2176	43	37	36	37	40	38	38	38	33	38
TN96-192	38	42	34	33	37	30	32	25	27	33
TN97-02	40	34	27	34	33	31	30	33	30	32
TN97-134	35	31	29	30	30	28	26	23	24	29
TN97-167	31	36	28	30	33	29	30	27	27	30
TN98-219	36	38	30	31	31	35	30	36	29	32
TN99-191	36	34	26	34	24	32	24	29	27	29
V97-1827	32	32	25	26	30	26	20	27	25	26
V97-1843	33	24	22	25	29	26	22	18	25	26
V97-1911	38	36	31	31	32	34	28	26	25	31
V97-2276	37	30	30	30	31	31	28	30	28	31
V97-2303	36	36	26	29	35	33	28	34	29	31

***Data not included in mean.**

TABLE 33 - LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2001

STRAIN/ VARIETY	JACKSON TN	KEISER✳ AR	MCCUNE KS	PLYMOUTH NC	PORTAGE-VILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN✳ IL	WARSAW VA	MEAN
HUTCHESON	2.4	2.0	1.0	2.0	1.0	2.0	2.0	3.0	2.0	1.8
MANOKIN	2.0	3.0	1.0	1.5	1.3	3.5	2.0	2.0	2.0	1.9
K1529	2.5	1.0	1.0	1.5	1.0	1.5	2.0	3.0	2.0	1.6
K1530	2.0	2.0	1.0	1.0	1.3	3.0	2.0	1.5	1.5	1.7
K1531	3.3	2.0	1.5	2.0	1.0	3.5	2.0	4.5	2.5	2.3
K1532	2.5	1.0	1.0	1.0	1.0	3.0	2.0	2.0	2.0	1.8
K1533	1.5	2.0	1.0	1.0	1.3	2.8	2.0	1.5	2.0	1.6
LS98-0466	2.3	2.0	1.0	1.0	1.3	2.3	2.0	1.5	2.0	1.7
LS98-0484	2.8	1.0	1.0	1.5	1.0	2.5	2.0	2.5	2.0	1.8
LS98-3645	1.3	1.0	1.0	1.0	1.0	1.5	2.0	1.5	1.0	1.3
LS98-3854	1.8	3.0	1.0	1.5	1.0	3.0	2.0	2.5	2.0	1.8
LS98-3966	1.8	1.0	1.0	1.0	1.0	1.8	2.0	1.5	1.5	1.4
Md 98-5095	1.4	1.0	1.0	1.0	1.0	2.0	2.0	1.5	2.0	1.5
Md 98-5927	1.4	1.0	1.0	1.0	1.0	1.8	2.0	1.0	2.0	1.4
Md 98-5987	2.5	1.0	1.0	1.0	1.0	2.3	2.0	1.0	1.5	1.6
N98-6403	1.7	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0	1.4
N99-8234	2.3	4.0	1.5	2.5	2.0	3.5	3.0	2.5	3.0	2.5
N98-7261	2.5	2.0	1.0	2.5	1.0	2.0	2.0	3.0	2.0	1.9
N98-7275	3.8	2.0	1.0	2.5	1.0	2.0	3.0	4.5	2.0	2.2
N98-7288	1.8	2.0	1.0	2.0	1.0	2.0	2.0	3.0	2.0	1.7
N98-7289	1.8	2.0	1.0	2.0	1.0	2.0	2.0	2.5	2.0	1.7
N99-186	3.0	1.0	1.0	1.0	1.0	2.0	2.0	1.5	1.0	1.6
N99-579	1.5	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	1.5
N99-58	2.0	1.0	1.0	1.0	1.0	2.0	2.0	1.5	1.5	1.5
N99-701	1.7	2.0	1.0	1.5	1.0	2.3	2.0	3.5	2.0	1.6
R95-1705	1.8	1.0	1.0	2.0	1.0	2.5	2.0	3.0	2.0	1.8
R97-1634	2.0	1.0	1.0	2.5	1.3	2.8	2.0	2.0	1.5	1.9
R97-1650	3.0	2.0	1.0	2.0	1.0	3.5	2.0	4.0	2.0	2.1
R97-818	1.8	2.0	1.0	2.0	1.0	3.0	2.0	2.0	2.0	1.8
S98-1375	2.0	3.0	1.0	2.0	1.0	2.8	2.0	4.5	2.0	1.8
S99-1117	2.5	2.0	1.5	1.5	1.3	3.3	2.0	2.0	2.0	2.0
S99-1171	1.5	1.0	1.0	1.0	1.0	2.0	2.0	1.5	1.5	1.4
S99-1177	1.8	2.0	1.0	2.0	1.0	2.0	2.0	2.5	1.5	1.6
S99-1779	1.9	1.0	1.0	1.0	1.0	1.5	2.0	2.0	1.0	1.3
S99-2176	2.8	4.0	1.5	2.0	2.3	3.5	2.0	3.5	2.5	2.4
TN96-192	2.3	2.0	1.5	2.0	1.0	2.8	2.0	3.5	2.0	1.9
TN97-02	1.7	1.0	1.0	1.0	1.0	1.5	2.0	1.5	2.0	1.5
TN97-134	2.8	1.0	1.0	1.5	1.0	2.5	2.0	1.0	2.0	1.8
TN97-167	1.4	3.0	1.0	1.5	1.0	2.5	2.0	2.5	2.0	1.6
TN98-219	1.8	1.0	1.0	1.0	1.0	3.3	2.0	2.0	2.0	1.7
TN99-191	2.0	1.0	1.0	1.5	1.0	2.3	2.0	1.5	2.0	1.7
V97-1827	1.8	3.0	1.0	1.0	1.0	1.8	2.0	2.0	2.0	1.5
V97-1843	1.3	1.0	1.0	1.0	1.0	1.5	2.0	1.5	1.5	1.3
V97-1911	1.8	2.0	1.0	1.0	1.0	3.3	2.0	1.5	1.0	1.6
V97-2276	1.8	1.0	1.0	1.0	1.0	2.3	2.0	2.5	1.5	1.5
V97-2303	1.5	1.0	1.0	1.5	1.0	2.3	2.0	2.0	1.5	1.5

✳Data not included in mean.

TABLE 34 - SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 2001

STRAIN/ VARIETY	MCCUNE KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN* IL	WARSAW VA	MEAN
HUTCHESON	1.0	1.0	2.0	1.0	2.0	1.5	1.5	1.4
MANOKIN	2.0	1.0	3.0	1.0	3.0	2.0	1.5	1.9
K1529	2.0	1.0	3.0	1.0	2.0	1.0	1.0	1.7
K1530	2.0	2.0	3.0	1.0	2.0	1.5	1.5	1.9
K1531	1.0	2.0	3.0	1.0	2.0	1.5	2.0	1.8
K1532	2.0	2.0	3.0	1.0	3.0	1.5	1.5	2.1
K1533	1.0	2.0	2.0	1.0	3.0	1.0	1.5	1.8
LS98-0466	2.0	2.0	3.0	1.0	2.0	2.0	1.5	1.9
LS98-0484	2.0	2.0	2.0	1.0	3.0	1.0	1.5	1.9
LS98-3645	2.0	2.0	3.0	1.0	3.0	2.0	2.0	2.2
LS98-3854	1.0	2.0	3.0	1.0	2.0	1.5	2.0	1.8
LS98-3966	1.0	2.0	2.0	1.0	2.0	1.5	2.0	1.7
Md 98-5095	1.0	2.0	2.0	1.0	2.0	3.5	2.0	1.7
Md 98-5927	1.0	2.0	3.0	1.0	3.0	2.5	2.0	2.0
Md 98-5987	1.0	2.0	3.0	1.0	3.0	2.0	1.5	1.9
N98-6403	1.0	1.0	3.0	1.0	2.0	1.0	2.0	1.7
N99-8234	2.0	2.0	3.0	1.3	3.0	3.5	2.0	2.2
N98-7261	2.0	2.0	3.0	1.0	2.0	2.0	2.0	2.0
N98-7275	2.0	2.0	2.0	1.0	2.0	1.5	1.5	1.8
N98-7288	2.0	2.0	2.0	1.0	2.0	1.5	1.5	1.8
N98-7289	1.0	2.0	2.0	1.0	2.0	1.5	1.5	1.6
N99-186	1.0	2.0	3.0	1.0	2.0	2.5	1.0	1.7
N99-579	1.0	2.0	3.0	1.0	2.0	1.0	2.0	1.8
N99-58	2.0	2.0	3.0	1.0	2.0	1.5	1.0	1.8
N99-701	1.0	1.0	2.0	1.0	3.0	1.5	1.0	1.5
R95-1705	1.0	2.0	3.0	1.0	2.0	1.5	2.0	1.8
R97-1634	1.0	2.0	3.0	1.0	2.0	2.0	2.0	1.8
R97-1650	1.0	2.0	3.0	1.0	2.0	1.0	1.5	1.8
R97-818	2.0	2.0	3.0	1.0	2.0	1.5	1.5	1.9
S98-1375	2.0	2.0	3.0	1.0	2.0	2.0	2.0	2.0
S99-1117	2.0	2.0	3.0	1.0	2.0	1.5	2.0	2.0
S99-1171	2.0	2.0	3.0	1.0	2.0	2.5	2.0	2.0
S99-1177	1.0	2.0	3.0	1.0	2.0	1.5	2.0	1.8
S99-1779	1.0	1.0	3.0	1.0	2.0	2.0	2.0	1.7
S99-2176	1.0	2.0	3.0	1.0	2.0	1.5	2.0	1.8
TN96-192	2.0	2.0	3.0	1.0	2.0	1.5	1.5	1.9
TN97-02	2.0	2.0	3.0	1.0	2.0	1.0	2.0	2.0
TN97-134	1.0	2.0	3.0	1.0	3.0	1.5	1.5	1.9
TN97-167	1.0	2.0	3.0	1.0	2.0	1.0	1.5	1.8
TN98-219	2.0	2.0	3.0	1.0	2.0	2.0	2.0	2.0
TN99-191	2.0	2.0	3.0	1.0	3.0	1.5	2.0	2.2
V97-1827	1.0	2.0	3.0	1.0	3.0	1.0	2.0	2.0
V97-1843	2.0	2.0	3.0	1.0	2.0	1.5	1.0	1.8
V97-1911	2.0	2.0	3.0	1.0	2.0	1.5	2.0	2.0
V97-2276	1.0	2.0	3.0	1.0	3.0	1.0	1.0	1.8
V97-2303	2.0	2.0	3.0	1.0	2.0	1.0	1.0	1.8

***Data not included in mean.**

UNIFORM GROUP VI

2001

Uniform Group VI nurseries were planted at 18 locations. Data were obtained from 16 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, 2001

	STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1.	BOGGS	CHECK	
2.	DILLON	CHECK	
3.	Au97-1637	N91-1639 × Benning	F6
4.	G95-179	G86-1434 x G86-1267	F5d
5.	G97-1486	Doles x D87-4429	F6d
6.	G97-3149	DPL3776 x Hartwig	F7d
7.	N97-61	N90-541 x N90-1101	F6
8.	N97-9812	N90-7199 x N91-7254	F4
9.	N97-9944	N90-7199 x N91-8005	F4
10.	N98-234	V88-494 x N90-1101	F6
11.	N98-445	Cook x N93-1188	F6
12.	R96-1559	A5403 x A6297	
13.	R97-1053	P 9592 x NK S59-60	
14.	R97-1801	Manokin x ASG A6297	
15.	SC95-1070	NK’S S83-30/MANOKIN	F5
16.	SC96-1624	SC89-181 x NK’S S75-55	F5
17.	SC97-1770	NK'S S83-30 x (HUTCHESON/D87-4429)	F5
18.	TN99-368	Soyola x [BRIM(2) x N88-431(2) x (N90-2013 x C1726)]	
19.	TN99-376	Soyola x [BRIM(2) x N88-431(2) x (N90-2013 x C1726)]	
20.	VS98-363	PI 159319 x ESSEX (2)	F6
21.	VS98-369	PI 159319 x ESSEX (2)	F6
22.	Au97-55	SC89-181 × Au90-592	

TABLE 36 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2001

STRAIN/	YIELD※			PROTEIN			OIL		
VARIETY	2001	00-01	99-01	2001	00-01	99-01	2001	00-01	99-01
BOGGS	47.0	43.9	43.9	40.0	41.1	41.7	20.5	20.1	19.9
DILLON	45.9	43.4	43.3	40.1	41.4	41.6	20.6	20.1	19.9
Au97-1637	46.3	.	.	39.5	.	.	21.0	.	.
G95-179	44.7	44.0	.	39.9	40.7	.	19.9	19.5	.
G97-1486	44.8	.	.	40.5	.	.	20.5	.	.
G97-3149	44.5	.	.	39.7	.	.	19.7	.	.
N97-61	45.3	42.8	.	40.2	41.5	.	21.7	21.4	.
N97-9812	43.0	41.2	.	38.1	39.7	.	22.1	21.5	.
N97-9944	41.0	.	.	40.1	.	.	21.1	.	.
N98-234	42.7	.	.	40.3	.	.	20.3	.	.
N98-445	42.2	.	.	42.8	.	.	19.3	.	.
R96-1559	47.3	43.5	.	39.8	40.7	.	20.5	20.0	.
R97-1053	47.4	.	.	40.1	.	.	20.6	.	.
R97-1801	47.2	.	.	38.2	.	.	21.4	.	.
SC95-1070	45.7	43.8	43.2	38.4	39.5	39.7	21.0	20.5	20.2
SC96-1624	47.5	46.0	.	40.0	40.9	.	20.5	20.2	.
SC97-1770	46.5	.	.	40.0	.	.	20.1	.	.
TN99-368	39.7	.	.	42.6	.	.	19.5	.	.
TN99-376	38.9	.	.	42.9	.	.	19.4	.	.
VS98-363	41.7	.	.	41.5	.	.	20.0	.	.
VS98-369	39.4	.	.	42.4	.	.	19.9	.	.

※Data not included in mean: 2001 - Florence, SC; Tifton, GA
2000 - Belle Mina, AL; Jay, FL; Suffolk, VA; Bossier City, LA
1999 - Belle Mina, AL

TABLE 36 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
BOGGS	W	10/19	1.8	32	1.5	11.9	T	T
DILLON	P	4-	1.5	36	1.4	13.2	G	T
Au97-1637	W	2-	1.3	28	1.6	11.4	T	T
G95-179	W	2+	2.0	35	1.7	12.1	T	T
G97-1486	W	1-	2.6	36	1.6	11.0	T	T
G97-3149	W	0	1.6	35	1.6	11.8	G	T
N97-61	W	6-	1.4	26	1.3	11.5	G	T
N97-9812	P	1-	2.0	28	1.5	12.3	G	T
N97-9944	P	1-	1.2	24	1.6	13.7	G	BR
N98-234	W	1-	1.8	36	1.4	13.1	G	BR
N98-445	P	1+	2.5	36	1.4	12.4	G	BR
R96-1559	P	6-	1.2	32	1.7	11.9	G	T
R97-1053	W	5-	1.4	33	1.7	13.3	T	T
R97-1801	W	6-	1.3	28	1.6	11.3	S	T
SC95-1070	W	1-	1.9	36	1.5	12.6	G	T
SC96-1624	P	0	1.6	35	1.7	13.5	T	T
SC97-1770	P	0	2.1	38	1.5	11.8	G	T
TN99-368	W	3-	2.1	34	1.8	13.5	G	T
TN99-376	W	3-	2.0	34	1.8	13.3	G	T
VS98-363	P	0	1.9	33	1.6	10.4	G	T
VS98-369	S	1+	2.1	43	1.5	13.7	G	T
Au97-55	W	1+	2.3	36	1.4	11.4	G	T

TABLE 36 - Continued

PEST REACTIONS

STRAIN/ VARIETY	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER	SDS DX	FELS
BOGGS	.	1.0	5.0	1.0	1.5	S	R	.	.
DILLON	.	5.0	4.9	2.0	2.3	R	S	.	.
Au97-1637	.	4.2	4.7	2.8	2.5	R	R	.	.
G95-179	.	1.3	5.0	1.0	1.5	S	S	.	.
G97-1486	.	1.0	2.0	1.0	4.0	R	S	.	.
G97-3149	.	1.0	2.7	2.0	2.3	S	R	.	.
N97-61	.	3.6	4.8	4.0	4.0	R	R	.	.
N97-9812	.	3.6	4.8	5.0	4.0	R	R	.	.
N97-9944	.	4.4	4.7	2.3	2.0	R	S	.	.
N98-234	.	3.8	4.8	3.0	2.5	R	R	.	.
N98-445	.	2.5	5.0	4.8	2.8	R	SEG	.	.
R96-1559	.	1.8	1.3	3.8	4.8	S	R	.	.
R97-1053	.	2.0	1.6	4.8	2.0	S	S	.	.
R97-1801	.	1.0	2.6	4.8	2.5	S	SEG	.	.
SC95-1070	.	1.0	2.7	2.0	1.5	S	R	.	.
SC96-1624	.	1.4	1.4	3.5	3.0	R	R	.	.
SC97-1770	.	1.0	3.9	2.3	3.3	R	R	.	.
TN99-368	.	3.3	4.7	5.0	2.0	R	S	.	.
TN99-376	.	2.2	4.4	3.0	2.8	R	S	.	.
VS98-363	.	4.1	4.9	3.0	4.8	R	S	.	.
VS98-369	.	2.4	4.5	4.3	4.3	M	S	.	.
Au97-55	.	1.0	1.9	2.3	5.0	R	R	.	.

TABLE 37 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2001

EAST

STRAIN/ VARIETY	CLINTON NC	FLORENCE✳ SC	PETERSBURG VA	PLYMOUTH NC	WARSAW VA	MEAN
BOGGS	49.5	14.2	42.4	46.5	46.2	46.1
DILLON	57.3	13.0	37.5	44.5	51.7	47.7
Au97-1637	51.5	14.1	34.3	40.1	54.4	45.1
G95-179	48.0	16.3	36.4	41.3	47.3	43.3
G97-1486	48.5	15.8	38.8	36.5	49.6	43.4
G97-3149	47.5	15.3	36.0	36.2	46.5	41.6
N97-61	52.5	12.3	40.3	47.4	49.3	47.4
N97-9812	48.7	9.8	42.4	39.1	45.6	44.0
N97-9944	49.7	10.3	38.7	45.9	45.1	44.8
N98-234	49.1	14.0	38.7	45.2	52.6	46.4
N98-445	47.5	12.7	41.4	39.7	48.6	44.3
R96-1559	46.2	11.6	38.0	39.1	48.9	43.1
R97-1053	52.7	12.2	38.2	40.4	49.5	45.2
R97-1801	56.6	12.5	34.4	39.9	55.0	46.5
SC95-1070	50.9	14.2	43.1	38.7	45.1	44.4
SC96-1624	45.1	14.4	40.9	41.0	53.2	45.0
SC97-1770	53.7	18.5	40.9	40.5	45.6	45.2
TN99-368	42.1	10.3	32.7	39.6	45.4	39.9
TN99-376	44.3	11.1	26.5	40.8	42.8	38.6
VS98-363	42.2	16.2	35.8	41.7	48.5	42.1
VS98-369	43.5	11.7	41.0	35.6	51.0	42.8
Au97-55	49.6	14.3	37.0	39.5	50.6	44.2
L.S.D. (0.05)	5.3	3.3	7.6	5.3	5.6	.
C.V. (%)	7.9	14.9	14.7	7.9	7.0	.

✳**Data not included in mean.**

TABLE 37 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACKVILLE SC	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	STARKVILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON✳ GA	MEAN
BOGGS	41.7	53.2	37.4	53.0	51.3	60.2	51.2	47.5	41.4	71.2	48.5
DILLON	40.8	34.7	34.6	51.3	56.5	54.5	46.5	35.0	34.0	64.9	43.1
Au97-1637	50.1	40.1	39.9	52.3	47.1	58.6	43.1	37.2	40.8	63.8	45.5
G95-179	49.0	51.7	34.0	53.0	48.7	58.0	40.1	44.5	44.1	69.1	47.0
G97-1486	51.1	50.5	32.0	33.4	52.1	55.1	49.9	49.0	42.8	81.4	46.2
G97-3149	39.4	48.3	32.0	50.9	51.2	55.1	43.7	43.0	44.2	69.4	45.3
N97-61	40.9	30.7	34.2	59.4	52.0	57.0	40.2	38.7	35.3	60.1	43.2
N97-9812	40.7	37.4	31.4	46.4	47.0	55.7	40.7	39.0	35.8	41.3	41.6
N97-9944	20.9	34.4	34.8	50.2	54.2	51.0	36.9	35.5	39.0	56.9	39.6
N98-234	37.0	38.9	36.1	51.4	45.6	51.2	42.8	29.6	32.4	67.6	40.6
N98-445	40.5	33.1	34.4	49.4	44.0	55.8	48.0	29.2	31.3	58.7	40.7
R96-1559	45.7	45.9	34.8	59.5	52.9	61.1	47.2	51.3	48.5	6.8	49.7
R97-1053	44.4	52.0	30.1	59.9	49.9	59.0	50.1	42.2	50.5	6.7	48.7
R97-1801	41.8	48.6	36.0	55.9	53.4	58.3	49.9	44.1	43.1	43.7	47.9
SC95-1070	51.0	52.3	34.4	53.7	50.4	50.5	50.1	49.8	40.5	64.9	48.1
SC96-1624	48.0	46.5	35.2	45.1	57.8	64.4	56.8	45.2	54.4	62.1	50.4
SC97-1770	43.2	48.6	36.1	50.6	52.8	56.2	49.6	47.8	43.6	65.7	47.6
TN99-368	39.0	31.0	26.9	46.8	42.4	45.7	43.2	37.4	29.3	43.6	38.0
TN99-376	38.9	28.9	27.8	43.5	42.5	43.4	42.6	30.9	29.1	33.4	36.4
VS98-363	40.3	38.6	35.8	47.1	52.2	49.8	32.8	41.2	36.4	49.9	41.6
VS98-369	34.9	36.8	34.3	45.1	46.1	43.9	34.3	39.6	32.4	47.9	38.6
Au97-55	48.2	53.8	37.3	46.3	51.6	61.4	47.6	45.2	47.1	65.7	48.7
L.S.D. (0.05)	6.3	8.0	4.7	5.0	8.4	4.3	5.8	9.6	5.6	22.9	.
C.V. (%)	9.1	11.4	8.4	6.0	10.1	4.9	7.9	14.3	8.5	25.6	.

✳Data not included in mean.

TABLE 37 - Continued

	DELTA
STRAIN/ VARIETY	STONEVILLE MS
BOGGS	15.0
DILLON	41.5
Au97-1637	36.4
G95-179	9.1
G97-1486	31.4
G97-3149	31.9
N97-61	34.7
N97-9812	30.6
N97-9944	24.1
N98-234	23.8
N98-445	23.8
R96-1559	41.2
R97-1053	36.0
R97-1801	41.9
SC95-1070	19.0
SC96-1624	20.2
SC97-1770	16.4
TN99-368	39.4
TN99-376	39.9
VS98-363	20.7
VS98-369	13.4
Au97-55	30.6
L.S.D. (0.05)	5.0
C.V. (%)	10.7

TABLE 37 - Continued

WEST

STRAIN/ VARIETY	BOSSIER CITY LA	STUTTGART AR	MEAN
BOGGS	62.0	52.9	57.5
DILLON	61.3	52.4	56.8
Au97-1637	63.8	50.4	57.1
G95-179	60.2	50.3	55.2
G97-1486	49.3	46.9	48.1
G97-3149	57.1	49.4	53.2
N97-61	59.7	52.5	56.1
N97-9812	62.2	45.3	53.7
N97-9944	52.8	42.9	47.8
N98-234	58.6	50.0	54.3
N98-445	55.9	52.8	54.3
R96-1559	45.5	50.9	48.2
R97-1053	60.2	43.3	51.8
R97-1801	53.5	42.5	48.0
SC95-1070	55.1	46.7	50.9
SC96-1624	61.5	44.2	52.8
SC97-1770	66.0	52.3	59.1
TN99-368	49.3	45.3	47.3
TN99-376	53.3	46.7	50.0
VS98-363	57.7	46.3	52.0
VS98-369	57.3	41.4	49.3
Au97-55	57.3	50.4	53.8
L.S.D. (0.05)	7.5	5.8	.
C.V. (%)	7.9	5.8	.

TABLE 38 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2001

OIL PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACK-VILLE SC	CALHOUN GA	CLEMSON SC	CLINTON NC	FAIR-HOPE AL	FLORENCE SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON GA	WARSAW VA	MEAN
BOGGS	20.2	.	19.9	.	20.7	19.9	20.9	.	20.1	19.9	20.8	.	22.8	.	19.7	20.5
DILLON	20.9	.	19.8	.	21.4	20.5	20.9	.	20.5	20.3	21.6	.	21.4	.	18.9	20.6
Au97-1637	21.3	.	20.8	.	21.3	20.8	21.5	.	20.5	20.4	20.9	.	22.6	.	20.3	21.0
G95-179	19.9	.	19.0	.	19.6	19.0	19.6	.	19.2	19.4	19.5	.	23.1	.	20.6	19.9
G97-1486	20.6	.	19.9	.	21.3	20.0	21.6	.	19.9	19.9	21.0	.	21.6	.	19.3	20.5
G97-3149	20.4	.	19.9	.	19.7	18.2	19.2	.	19.4	19.4	19.8	.	21.4	.	19.3	19.7
N97-61	21.0	.	21.5	.	22.2	22.1	22.4	.	20.2	21.3	22.9	.	24.4	.	19.0	21.7
N97-9812	22.5	.	21.6	.	22.5	20.9	23.2	.	20.7	21.4	23.3	.	24.4	.	20.8	22.1
N97-9944	20.9	.	20.9	.	22.0	20.6	22.0	.	19.8	20.2	21.6	.	22.0	.	20.9	21.1
N98-234	20.7	.	19.4	.	20.9	19.9	20.1	.	19.4	19.8	20.2	.	22.1	.	20.5	20.3
N98-445	19.6	.	18.8	.	19.8	18.2	20.6	.	18.7	18.9	18.6	.	20.2	.	19.4	19.3
R96-1559	21.1	.	20.0	.	20.9	20.2	20.9	.	20.4	20.8	20.7	.	21.6	.	18.2	20.5
R97-1053	21.0	.	20.0	.	21.1	20.4	20.7	.	20.2	20.3	21.9	.	21.0	.	19.7	20.6
R97-1801	21.3	.	21.0	.	21.2	21.0	21.5	.	20.4	21.8	22.3	.	23.9	.	19.7	21.4
SC95-1070	21.0	.	20.9	.	21.5	21.0	21.0	.	19.8	20.3	20.8	.	23.1	.	20.3	21.0
SC96-1624	20.6	.	20.2	.	20.5	19.7	20.9	.	20.1	20.0	20.4	.	22.5	.	19.6	20.5
SC97-1770	20.8	.	20.2	.	20.4	19.8	20.7	.	19.3	20.1	19.4	.	22.1	.	18.4	20.1
TN99-368	19.3	.	18.7	.	19.2	18.9	19.7	.	18.9	19.5	20.7	.	20.9	.	18.9	19.5
TN99-376	19.1	.	18.9	.	19.4	18.8	19.8	.	18.9	19.9	20.4	.	20.3	.	18.7	19.4
VS98-363	20.3	.	19.7	.	20.8	19.5	20.2	.	20.0	19.6	19.5	.	20.9	.	19.7	20.0
VS98-369	20.3	.	19.4	.	20.7	19.9	20.6	.	20.0	19.2	18.5	.	21.2	.	18.9	19.9
Au97-55	20.2	.	20.0	.	20.1	19.2	20.4	.	19.7	19.6	19.6	.	21.3	.	19.3	19.9

TABLE 38 - Continued

PROTEIN PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACK-VILLE SC	CALHOUN GA	CLEMSON SC	CLINTON NC	FAIR-HOPE AL	FLORENCE SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON GA	WARSAW VA	MEAN
BOGGS	38.5	.	40.2	.	41.2	38.9	41.2	.	41.4	39.6	41.6	.	37.4	.	40.4	40.0
DILLON	38.6	.	40.5	.	40.2	38.9	41.3	.	40.1	39.6	40.5	.	39.9	.	41.4	40.1
Au97-1637	39.0	.	39.4	.	40.0	38.8	40.4	.	40.8	40.0	39.9	.	38.3	.	38.4	39.5
G95-179	38.5	.	40.2	.	40.4	38.7	41.0	.	40.2	42.0	42.8	.	35.6	.	39.8	39.9
G97-1486	39.2	.	41.8	.	40.8	39.6	41.2	.	41.3	40.5	42.6	.	38.9	.	39.2	40.5
G97-3149	36.3	.	39.2	.	40.7	41.3	42.7	.	39.9	38.8	41.4	.	37.4	.	39.5	39.7
N97-61	40.4	.	40.6	.	41.0	39.1	40.8	.	41.7	40.1	39.6	.	37.7	.	40.6	40.2
N97-9812	35.4	.	38.5	.	39.0	39.7	37.2	.	39.6	38.2	38.2	.	35.0	.	40.5	38.1
N97-9944	39.8	.	41.0	.	40.2	39.1	42.4	.	41.3	39.9	40.1	.	38.8	.	38.3	40.1
N98-234	38.6	.	41.8	.	39.9	39.5	40.9	.	40.8	40.4	41.6	.	37.6	.	41.4	40.3
N98-445	41.4	.	43.4	.	42.9	43.4	45.0	.	43.6	42.3	44.7	.	40.7	.	40.2	42.8
R96-1559	38.2	.	40.7	.	41.1	39.6	39.3	.	39.7	37.9	39.8	.	38.1	.	43.3	39.8
R97-1053	37.6	.	40.2	.	40.7	39.0	41.1	.	40.5	40.2	40.8	.	39.8	.	40.9	40.1
R97-1801	36.9	.	38.9	.	40.6	36.9	39.0	.	39.0	36.7	39.2	.	35.9	.	38.9	38.2
SC95-1070	37.2	.	38.6	.	38.7	36.3	39.8	.	39.7	38.6	41.2	.	35.5	.	38.0	38.4
SC96-1624	38.3	.	41.1	.	41.0	40.3	40.8	.	40.3	38.7	42.0	.	38.5	.	38.8	40.0
SC97-1770	39.0	.	40.7	.	39.9	39.4	40.4	.	40.8	39.6	43.2	.	36.8	.	40.3	40.0
TN99-368	41.6	.	44.5	.	42.7	41.8	43.0	.	43.8	42.0	44.2	.	40.0	.	42.6	42.6
TN99-376	42.4	.	43.6	.	43.2	42.2	43.2	.	43.5	42.3	44.2	.	41.7	.	42.8	42.9
VS98-363	40.7	.	42.0	.	41.4	41.2	42.0	.	42.0	40.2	44.0	.	40.4	.	41.5	41.5
VS98-369	41.4	.	42.9	.	41.8	41.3	42.3	.	42.6	42.4	45.7	.	40.9	.	42.6	42.4
Au97-55	39.8	.	41.4	.	41.3	39.8	40.0	.	40.4	39.8	42.1	.	39.7	.	40.7	40.5

TABLE 38 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACK-VILLE SC	CALHOUN GA	CLEMSON SC	CLINTON NC	FAIR-HOPE AL	FLORENCE✳ SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON✳ GA	WARSAW VA	MEAN
BOGGS	12.3	14.4	14.7	15.0	12.6	11.6	15.7	14.1	11.9	13.7	9.5	12.1	11.9	15.0	12.4	12.9
DILLON	14.3	13.8	17.0	17.0	14.9	13.2	17.0	14.3	13.3	14.3	12.0	13.0	13.2	16.0	13.6	14.4
Au97-1637	13.2	12.0	11.9	13.0	11.5	10.7	16.3	12.7	12.7	13.0	9.2	11.9	12.0	15.0	12.8	12.3
G95-179	12.9	14.0	13.7	15.0	13.8	12.2	16.8	14.3	12.0	13.4	9.1	12.1	13.3	15.0	12.4	13.1
G97-1486	11.4	12.7	13.0	13.0	13.0	10.7	15.3	12.7	9.1	11.6	11.7	10.8	11.7	12.0	10.4	11.9
G97-3149	11.4	12.2	12.8	13.0	12.5	12.4	16.9	14.2	12.4	12.2	11.0	12.0	12.3	16.0	13.7	12.7
N97-61	11.6	12.7	12.9	15.0	12.3	11.0	16.0	11.7	11.9	12.0	11.0	11.3	13.0	14.0	13.0	12.6
N97-9812	11.0	13.6	15.6	16.0	13.5	14.3	16.7	14.2	11.8	13.7	11.0	11.9	13.1	15.0	12.6	13.5
N97-9944	16.7	14.4	15.6	18.0	14.9	14.2	17.0	13.2	12.5	14.4	13.0	12.9	14.8	19.0	15.2	14.9
N98-234	12.6	14.8	17.0	16.0	14.4	13.6	16.8	14.7	12.4	14.4	12.0	12.3	14.4	18.0	14.2	14.2
N98-445	13.3	13.5	14.8	15.0	14.0	12.7	16.8	12.7	13.0	14.0	10.0	12.2	12.1	16.0	13.2	13.4
R96-1559	12.5	13.3	13.4	15.0	13.1	12.2	16.1	12.8	11.5	12.3	10.0	11.8	13.3	13.0	13.4	12.9
R97-1053	13.4	15.2	15.8	17.0	15.0	13.5	17.7	14.5	13.0	14.2	12.0	12.5	14.5	18.0	14.1	14.5
R97-1801	11.2	13.8	13.8	13.0	11.9	11.7	15.4	12.4	10.5	11.7	10.0	11.3	12.1	14.0	12.2	12.2
SC95-1070	13.4	14.3	15.9	14.0	13.6	12.6	17.1	15.8	12.4	13.0	12.0	12.2	13.0	17.0	12.9	13.6
SC96-1624	14.3	16.0	16.2	17.0	14.9	13.6	17.9	16.6	13.0	14.4	12.0	13.3	15.2	18.0	13.3	14.7
SC97-1770	11.4	13.8	13.0	14.0	13.4	12.4	16.6	14.7	12.5	12.9	9.0	11.5	13.0	15.0	12.4	12.8
TN99-368	14.5	13.4	15.2	16.0	14.4	14.3	16.6	13.3	13.9	14.4	14.0	14.4	15.0	16.0	13.4	14.6
TN99-376	14.6	13.3	14.9	16.0	14.0	14.1	16.5	14.0	14.1	13.8	13.0	14.8	14.5	15.0	13.5	14.4
VS98-363	10.3	11.6	11.6	12.0	12.1	10.2	15.6	11.2	10.0	11.3	9.0	10.1	10.6	13.0	11.0	11.2
VS98-369	13.9	15.4	16.3	17.0	16.0	13.4	17.4	15.0	14.9	14.3	11.0	14.4	14.7	17.0	14.2	14.8
Au97-55	12.5	12.8	13.0	13.0	12.6	11.3	15.4	11.9	11.5	12.3	10.0	11.0	13.7	14.0	11.2	12.3

✳Data not included in mean.

TABLE 39 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BOGGS FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2001

EAST

STRAIN/ VARIETY	CLINTON NC	FLORENCE✳ SC	PETERSBURG VA	PLYMOUTH NC	WARSAW VA	MEAN
BOGGS	10/19	10/13	10/23	10/23	11/02	10/25
DILLON	-4	-2	1	-4	-6	-4
Au97-1637	0	4	-7	-5	-8	-5
G95-179	3	9	1	2	-3	0
G97-1486	-2	0	-5	0	-5	-3
G97-3149	-4	5	1	0	-4	-2
N97-61	-8	0	-7	-6	-9	-8
N97-9812	0	2	-3	0	-6	-3
N97-9944	-4	4	1	0	-10	-4
N98-234	3	6	1	0	-5	-1
N98-445	5	4	1	2	-7	0
R96-1559	-8	-3	-7	-7	-5	-7
R97-1053	-4	-2	-7	-7	-8	-7
R97-1801	-4	-3	-7	-6	-8	-7
SC95-1070	3	6	0	-4	-7	-2
SC96-1624	0	8	0	0	-5	-2
SC97-1770	-2	5	0	0	-7	-3
TN99-368	-4	0	-2	-5	-10	-6
TN99-376	-2	3	-7	-6	-9	-7
VS98-363	1	6	0	2	-6	-1
VS98-369	0	5	0	0	-4	-1
Au97-55	3	5	1	0	-6	-1

✳**Data not included in mean.**

TABLE 39 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACK-VILLE SC	CALHOUN GA	CLEMSON SC	FAIR-HOPE AL	STARK-VILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON❊ GA	MEAN
BOGGS	10/20	10/21	10/18	10/12	10/27	10/19	.	10/22	10/11	10/03	10/19
DILLON	-4	-10	-4	-1	-3	-9	.	-1	-3	-1	-4
Au97-1637	-1	-1	-2	-2	-6	-4	.	-2	-2	5	-3
G95-179	0	3	1	8	-1	3	.	0	3	6	2
G97-1486	-2	-3	0	-3	0	-3	.	0	5	-1	-1
G97-3149	-3	-3	-2	-3	-5	0	.	-2	2	4	-2
N97-61	-6	-10	-8	-2	-11	-5	.	-6	-8	-1	-7
N97-9812	-3	-6	-1	-5	-2	-2	.	-1	2	-1	-2
N97-9944	0	-8	-2	5	-9	3	.	-3	-3	7	-2
N98-234	-4	-2	0	6	-5	-9	.	-2	-2	6	-3
N98-445	-5	2	1	2	-3	2	.	-3	1	8	0
R96-1559	-5	-11	-5	-3	-6	-5	.	-3	-6	.	-6
R97-1053	-4	-11	-2	-5	-7	-9	.	-7	-5	.	-6
R97-1801	-5	-10	-5	-5	-10	-7	.	-4	-5	-1	-7
SC95-1070	-3	-5	-1	-4	-5	-2	.	-3	2	3	-3
SC96-1624	-1	-2	1	-1	-3	-2	.	0	1	4	-1
SC97-1770	-5	0	0	7	-5	-1	.	-2	3	6	-1
TN99-368	-3	-8	-4	2	-10	0	.	-1	-6	3	-4
TN99-376	-4	-9	-4	2	-8	-2	.	0	-7	-1	-4
VS98-363	-3	-3	1	7	-3	-1	.	0	-2	5	-1
VS98-369	-2	-3	0	6	-1	3	.	0	0	7	0
Au97-55	-1	0	0	2	-5	-2	.	0	0	5	-1

❊Data not included in mean.

TABLE 39 - Continued

DELTA

STRAIN/ VARIETY	STONEVILLE MS
BOGGS	10/01
DILLON	-5
Au97-1637	0
G95-179	0
G97-1486	-6
G97-3149	8
N97-61	-6
N97-9812	0
N97-9944	1
N98-234	2
N98-445	3
R96-1559	-7
R97-1053	-7
R97-1801	-7
SC95-1070	0
SC96-1624	1
SC97-1770	1
TN99-368	1
TN99-376	1
VS98-363	1
VS98-369	8
Au97-55	8

TABLE 39 - Continued

WEST

STRAIN/ VARIETY	BOSSIER CITY LA	STUTTGART AR	MEAN
BOGGS	10/21	.	10/21
DILLON	-6	.	-6
Au97-1637	5	.	5
G95-179	7	.	7
G97-1486	0	.	0
G97-3149	4	.	4
N97-61	0	.	0
N97-9812	3	.	3
N97-9944	4	.	4
N98-234	3	.	3
N98-445	6	.	6
R96-1559	-4	.	-4
R97-1053	1	.	1
R97-1801	0	.	0
SC95-1070	5	.	5
SC96-1624	3	.	3
SC97-1770	5	.	5
TN99-368	6	.	6
TN99-376	5	.	5
VS98-363	6	.	6
VS98-369	3	.	3
Au97-55	4	.	4

TABLE 40 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2001

EAST

STRAIN/ VARIETY	CLINTON NC	FLORENCE❊ SC	PETERSBURG VA	PLYMOUTH NC	WARSAW VA	MEAN
BOGGS	30	21	31	31	29	30
DILLON	30	22	34	38	34	34
Au97-1637	21	19	29	31	26	27
G95-179	31	23	36	40	33	35
G97-1486	27	25	37	40	34	34
G97-3149	29	24	36	38	32	34
N97-61	26	19	30	30	27	28
N97-9812	24	20	27	30	25	27
N97-9944	26	16	28	30	21	26
N98-234	31	23	37	42	36	37
N98-445	33	26	40	37	35	36
R96-1559	29	21	30	33	30	31
R97-1053	30	20	31	34	29	31
R97-1801	24	17	28	31	27	27
SC95-1070	33	23	37	38	29	34
SC96-1624	28	21	36	40	34	35
SC97-1770	36	26	39	41	34	38
TN99-368	31	23	39	37	31	34
TN99-376	30	20	38	38	31	34
VS98-363	28	27	34	36	33	33
VS98-369	37	26	44	40	39	40
Au97-55	30	24	36	37	33	34

❊Data not included in mean.

TABLE 40 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACK-VILLE SC	CALHOUN GA	CLEMSON SC	FAIR-HOPE AL	STARK-VILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON❊ GA	MEAN
BOGGS	26	37	32	37	30	29	28	35	33	31	32
DILLON	32	39	37	41	42	33	35	30	39	34	36
Au97-1637	26	32	31	38	30	25	30	25	29	21	30
G95-179	30	39	40	42	39	28	36	34	41	26	37
G97-1486	33	38	38	37	39	33	35	36	38	30	36
G97-3149	27	40	39	40	39	32	37	32	37	31	36
N97-61	25	27	30	32	30	22	21	24	26	18	26
N97-9812	24	30	29	34	31	25	27	26	35	30	29
N97-9944	19	26	25	28	29	17	20	25	21	18	23
N98-234	28	39	33	42	41	30	38	31	42	33	36
N98-445	30	39	38	41	38	37	34	33	40	35	37
R96-1559	26	36	35	40	40	30	30	31	36	31	34
R97-1053	27	35	33	38	39	30	34	29	34	30	33
R97-1801	24	27	30	31	29	30	33	24	30	25	29
SC95-1070	32	40	38	40	38	31	35	33	48	34	37
SC96-1624	28	42	38	42	36	32	30	33	37	29	35
SC97-1770	34	40	41	41	45	33	32	37	42	31	38
TN99-368	28	39	35	38	33	26	29	32	39	31	33
TN99-376	26	40	35	37	36	32	32	30	36	23	34
VS98-363	25	38	35	40	40	30	30	32	36	33	34
VS98-369	29	48	41	42	43	47	47	39	47	51	42
Au97-55	32	39	37	39	36	34	34	35	38	33	36

❊Data not included in mean.

TABLE 40 - Continued

	DELTA
STRAIN/ VARIETY	STONEVILLE MS
BOGGS	38
DILLON	46
Au97-1637	24
G95-179	36
G97-1486	46
G97-3149	40
N97-61	24
N97-9812	38
N97-9944	22
N98-234	42
N98-445	38
R96-1559	38
R97-1053	42
R97-1801	28
SC95-1070	42
SC96-1624	36
SC97-1770	38
TN99-368	42
TN99-376	36
VS98-363	30
VS98-369	60
Au97-55	46

TABLE 40 - Continued

WEST

STRAIN/ VARIETY	BOSSIER CITY LA	STUTTGART AR	MEAN
BOGGS	32	27	29
DILLON	35	25	30
Au97-1637	24	24	24
G95-179	33	27	30
G97-1486	34	28	31
G97-3149	34	29	32
N97-61	24	21	23
N97-9812	26	22	24
N97-9944	24	18	21
N98-234	35	28	31
N98-445	30	32	31
R96-1559	28	23	25
R97-1053	32	22	27
R97-1801	29	18	24
SC95-1070	39	29	34
SC96-1624	35	28	31
SC97-1770	37	34	35
TN99-368	30	32	31
TN99-376	34	34	34
VS98-363	27	27	27
VS98-369	44	37	40
Au97-55	35	31	33

TABLE 41 - LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2001

EAST

STRAIN/ VARIETY	CLINTON NC	FLORENCE✳ SC	PETERSBURG VA	PLYMOUTH NC	WARSAW VA	MEAN
BOGGS	2.5	1.0	2.0	3.3	2.3	2.5
DILLON	1.5	1.0	1.7	2.0	2.0	1.8
Au97-1637	1.5	1.0	1.0	2.3	1.7	1.6
G95-179	2.3	1.0	2.0	3.3	2.7	2.6
G97-1486	3.3	1.0	2.7	3.7	2.7	3.1
G97-3149	1.7	1.0	1.3	2.7	2.3	2.0
N97-61	1.7	1.0	1.0	2.3	2.0	1.8
N97-9812	2.7	1.0	1.3	3.3	2.3	2.4
N97-9944	2.0	1.0	1.3	2.0	1.3	1.7
N98-234	2.3	1.0	1.7	3.0	3.0	2.5
N98-445	3.0	1.0	3.0	3.3	3.0	3.1
R96-1559	1.0	1.0	1.0	1.3	2.0	1.3
R97-1053	1.3	1.0	1.0	1.7	2.0	1.5
R97-1801	1.3	1.0	1.0	1.7	1.7	1.4
SC95-1070	2.3	1.0	2.7	2.7	2.0	2.4
SC96-1624	1.7	1.0	1.7	3.0	2.0	2.1
SC97-1770	3.0	1.0	1.7	3.3	2.3	2.6
TN99-368	2.0	1.0	3.0	3.0	2.7	2.7
TN99-376	2.7	1.0	2.7	3.0	2.0	2.6
VS98-363	2.3	1.0	2.7	3.0	2.7	2.7
VS98-369	2.3	1.0	2.3	2.7	3.0	2.6
Au97-55	3.0	1.0	3.0	3.0	2.7	2.9

✳**Data not included in mean.**

TABLE 41 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACK-VILLE SC	CALHOUN GA	CLEMSON SC	FAIR-HOPE AL	STARK-VILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON❊ GA	MEAN
BOGGS	1.3	1.0	2.3	1.3	2.3	1.7	1.0	1.2	1.7	1.0	1.5
DILLON	1.0	1.0	1.0	1.0	2.3	2.0	1.0	1.0	1.0	1.0	1.3
Au97-1637	1.0	1.0	1.0	1.3	1.0	1.3	1.0	1.0	1.0	1.0	1.1
G95-179	1.0	1.0	2.0	1.3	3.3	2.3	2.0	1.5	1.7	1.0	1.8
G97-1486	2.3	1.0	3.3	4.0	4.0	2.7	2.0	2.2	2.3	1.0	2.6
G97-3149	1.0	1.0	1.7	1.0	2.0	2.0	1.0	1.0	1.7	1.0	1.4
N97-61	1.0	1.0	1.0	1.3	2.3	1.7	1.0	1.0	1.0	1.0	1.3
N97-9812	1.3	1.0	2.3	2.0	3.7	2.7	1.0	1.2	1.0	1.0	1.8
N97-9944	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0
N98-234	1.0	1.0	2.3	2.0	3.0	1.7	1.0	1.0	1.0	1.0	1.6
N98-445	2.0	1.0	3.3	2.7	3.7	3.7	1.0	1.5	1.0	1.0	2.2
R96-1559	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0
R97-1053	1.0	1.0	1.0	1.0	1.3	2.0	1.0	1.0	1.0	1.0	1.1
R97-1801	1.0	1.0	1.0	1.0	1.7	2.0	1.0	1.0	1.0	1.0	1.2
SC95-1070	1.7	1.0	2.0	1.3	3.3	2.0	1.0	1.2	1.7	1.0	1.7
SC96-1624	1.0	1.0	2.0	2.3	2.3	1.0	1.0	1.0	1.0	1.0	1.4
SC97-1770	2.0	1.0	3.0	3.0	3.0	3.0	1.0	1.3	1.3	1.0	2.1
TN99-368	2.0	1.0	2.7	2.3	3.0	3.3	1.0	1.2	1.0	1.0	1.9
TN99-376	1.7	1.0	2.3	1.7	3.0	3.0	1.0	1.2	1.3	1.0	1.8
VS98-363	1.0	1.0	2.3	2.0	2.7	2.0	1.0	1.0	1.3	1.0	1.6
VS98-369	1.0	1.0	2.0	1.7	2.3	3.3	2.0	1.0	1.3	1.3	1.7
Au97-55	2.0	1.0	2.3	2.3	3.7	1.3	1.0	2.3	1.0	1.0	1.9

❊Data not included in mean.

TABLE 41 - Continued

	DELTA
STRAIN/ VARIETY	STONEVILLE MS
BOGGS	2.0
DILLON	2.0
Au97-1637	2.0
G95-179	2.0
G97-1486	2.0
G97-3149	2.0
N97-61	2.0
N97-9812	3.0
N97-9944	2.0
N98-234	2.0
N98-445	3.0
R96-1559	3.0
R97-1053	3.0
R97-1801	2.0
SC95-1070	2.0
SC96-1624	2.0
SC97-1770	2.0
TN99-368	2.0
TN99-376	2.0
VS98-363	2.0
VS98-369	3.0
Au97-55	3.0

TABLE 41 - Continued

WEST

STRAIN/ VARIETY	BOSSIER CITY LA	STUTTGART AR	MEAN
BOGGS	2.0	1.0	1.5
DILLON	2.0	1.0	1.5
Au97-1637	1.3	1.0	1.2
G95-179	2.0	1.0	1.5
G97-1486	2.7	1.0	1.8
G97-3149	2.0	1.0	1.5
N97-61	1.0	1.0	1.0
N97-9812	1.7	1.0	1.3
N97-9944	1.0	1.0	1.0
N98-234	1.7	1.0	1.3
N98-445	3.0	2.5	2.8
R96-1559	1.0	1.0	1.0
R97-1053	1.3	1.0	1.2
R97-1801	1.3	1.0	1.2
SC95-1070	2.3	1.0	1.7
SC96-1624	2.0	1.0	1.5
SC97-1770	2.3	1.0	1.7
TN99-368	2.7	1.0	1.8
TN99-376	2.7	1.0	1.8
VS98-363	2.0	1.0	1.5
VS98-369	3.0	2.0	2.5
Au97-55	2.3	2.0	2.2

TABLE 42 - SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 2001

EAST

STRAIN/ VARIETY	CLINTON NC	PETERSBURG VA	PLYMOUTH NC	WARSAW VA	MEAN
BOGGS	2.0	2.0	1.0	1.7	1.7
DILLON	2.0	1.0	1.0	1.3	1.3
Au97-1637	2.0	1.0	2.0	2.0	1.8
G95-179	2.0	2.0	2.0	1.7	1.9
G97-1486	2.0	2.0	2.0	1.3	1.8
G97-3149	2.0	1.0	1.0	2.0	1.5
N97-61	1.0	1.0	1.0	2.0	1.3
N97-9812	2.0	1.0	2.0	2.0	1.8
N97-9944	2.0	2.0	1.0	2.0	1.8
N98-234	1.0	1.0	2.0	2.0	1.5
N98-445	1.0	1.0	1.0	2.0	1.3
R96-1559	2.0	2.0	2.0	2.0	2.0
R97-1053	2.0	2.0	2.0	1.7	1.9
R97-1801	2.0	2.0	1.0	2.0	1.8
SC95-1070	2.0	2.0	1.0	1.3	1.6
SC96-1624	2.0	2.0	2.0	1.3	1.8
SC97-1770	2.0	1.0	2.0	1.3	1.6
TN99-368	2.0	1.0	2.0	2.0	1.8
TN99-376	2.0	1.0	2.0	2.0	1.8
VS98-363	2.0	1.0	2.0	1.3	1.6
VS98-369	2.0	1.0	2.0	1.3	1.6
Au97-55	2.0	1.0	2.0	1.0	1.5

TABLE 42 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	CALHOUN GA	FAIRHOPE AL	SUFFOLK VA	TALLASSEE AL	TIFTON✳ GA	MEAN
BOGGS	1.7	1.0	1.3	1.7	1.0	1.0	1.0	1.3
DILLON	1.7	1.0	1.7	2.0	1.0	1.0	2.3	1.4
Au97-1637	1.5	1.7	2.0	1.0	1.0	1.0	2.7	1.4
G95-179	1.5	1.3	2.0	1.7	1.0	1.0	2.3	1.4
G97-1486	1.7	1.3	1.7	2.0	1.0	1.0	1.7	1.4
G97-3149	1.7	1.3	2.3	2.0	1.0	1.0	2.0	1.6
N97-61	1.7	1.0	1.0	1.7	1.0	1.0	2.3	1.2
N97-9812	1.7	1.0	1.3	1.0	1.0	1.0	2.0	1.2
N97-9944	1.7	1.3	1.7	1.7	1.0	1.0	2.7	1.4
N98-234	1.5	1.0	2.0	1.0	1.0	1.0	2.0	1.3
N98-445	1.7	1.3	2.0	1.7	1.0	1.0	2.0	1.4
R96-1559	1.5	1.3	1.7	2.0	1.0	1.0	2.3	1.4
R97-1053	1.7	1.0	2.0	2.0	1.0	1.0	2.0	1.4
R97-1801	1.5	1.0	2.0	2.0	1.0	1.0	2.3	1.4
SC95-1070	1.5	1.0	1.7	1.7	1.0	1.0	2.3	1.3
SC96-1624	1.5	1.0	2.0	2.3	1.0	1.0	1.7	1.5
SC97-1770	1.5	1.0	2.0	1.3	1.0	1.0	1.7	1.3
TN99-368	1.8	1.0	2.0	3.0	2.0	1.3	3.3	1.9
TN99-376	1.7	1.0	1.3	3.0	2.3	1.3	2.7	1.8
VS98-363	1.7	1.3	2.3	1.7	1.0	1.3	2.0	1.6
VS98-369	1.5	1.0	1.7	2.0	1.3	1.0	2.7	1.4
Au97-55	1.5	1.0	1.7	1.3	1.0	1.0	1.3	1.3

✳Data not included in mean.

TABLE 42 - Continued

DELTA

STRAIN/ VARIETY	STONEVILLE MS
BOGGS	2.0
DILLON	2.0
Au97-1637	2.0
G95-179	2.0
G97-1486	2.0
G97-3149	2.0
N97-61	2.0
N97-9812	2.0
N97-9944	2.0
N98-234	2.0
N98-445	2.0
R96-1559	2.0
R97-1053	2.0
R97-1801	2.0
SC95-1070	2.0
SC96-1624	2.0
SC97-1770	2.0
TN99-368	2.0
TN99-376	2.0
VS98-363	2.0
VS98-369	2.0
Au97-55	2.0

PRELIMINARY GROUP VI

2001

Preliminary Group VI nurseries were planted at 6 locations. Data were obtained from all 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, 2001

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BOGGS	CHECK	
2. DILLON	CHECK	
3. Au97-104	SC89-181 × Au90-592	F6
4. Au97-1232	N91-639 × Au90-592	F6
5. Au97-23	SC88-2872 × D87-4429	F6
6. Au97-60	SC89-181 × Au90-592	F6
7. Au97-73	SC89-181 × Au90-592	F6
8. G98-1053	Boggs x Doles	F5d
9. G98-1131	Boggs x Doles	F5d
10. G98-1709	Boggs x Doles	F5d
11. G98-304	Boggs x Benning	F5d
12. G98-465	Boggs x Benning	F5d
13. N96-6717	TCPR92-64 x TCPR92-5	F4
14. N96-6755	N90-7202 x N90-7199	F4
15. N98-7881	CLIFFORD x BLUE SIDE	F4
16. N99-3120	N93-132 x [Brim(2) x (N88-431(2) x N35-2-19)]	F4
17. N99-356	N92-598 x Haskell	F6
18. N99-396	G90-3258 x N95-3375	F6
19. N99-510	N92-32 x K1309	F6
20. N99-8114	N90-7199 x Graham	F4
21. N99-8119	N90-7199 x Graham	F4
22. N99-813	N93-1264 x Holladay	F6
23. R97-1832	Manokin x ASG A6297	
24. R98-209	A 6297 x Clifford	
25. SC98-1279	BENNING x MANOKIN	F5
26. SC98-1427	HAGOOD x D90-7256	F5
27. SC98-1428	HAGOOD x D90-7256	F5
28. TN97-258	HUTCHESON x TN89-39	
29. TN98-227	N86-7687 x HUTCHESON	
30. TN98-228	N86-7687 x MANOKIN	
31. TN99-117	N92-189 x V90-1012	
32. TN99-123	TN91-276 x TN90-91	
33. VS99-385	PI 159319 x ESSEX (2) X PI 96089 x ESSEX (2)	F6
34. VS99-391	PI 159319 x ESSEX (2) X PI 96089 x ESSEX (2)	F6
35. VS99-392	PI 159319 x ESSEX (2) X PI 96089 x ESSEX (2)	F6

TABLE 44 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2001 - MEAN OF 6 LOCATIONS

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT---- PROTEIN	OIL	STEM CANKER	SCN 2	SCN 3	SCN 14	FL COLOR	PUB. COLOR	POD COLOR
BOGGS	40.2	10/18	1.8	31	1.5	12.3	39.8	20.4	R	.	1.0	4.8	W	T	T
DILLON	42.4	2-	1.6	35	1.3	13.6	38.9	21.0	S	.	5.0	5.0	P	G	T
Au97-104	41.3	2-	2.3	32	1.3	11.6	39.4	20.8	S	.	1.2	4.3	W	G	T
Au97-1232	39.9	2-	2.8	34	1.5	11.4	38.3-	20.5	R	.	5.0	4.8	P	G	T
Au97-23	42.6	0	2.1	33	1.5	14.0	40.2	19.9	S	.	2.0	5.0	W	S	T
Au97-60	42.6	4-	2.4	35	1.4	11.8	40.2	20.4	S	.	1.0	2.0	P	G	T
Au97-73	41.7	2+	2.6	38	1.5	11.9	40.2	21.1	R	.	1.1	1.9	W	G	T
G98-1053	47.4+	1-	2.1	35	1.5	11.7	39.3	20.6	S	.	1.0	4.4	W	T	T
G98-1131	44.4	3-	1.5	33	1.7	12.4	40.8	20.7	R	.	1.1	4.9	W	T	T
G98-1709	40.4	2-	2.6	34	1.6	12.4	40.5	20.9	R	.	1.0	4.5	W	T	T
G98-304	43.6	2-	2.0	35	1.6	13.4	39.9	20.8	R	.	1.0	4.7	W	T	T
G98-465	44.0	8-	1.8	37	1.6	11.2	39.5	20.8	?	.	1.2	4.7	P	T	T
N96-6717	32.2-	0	2.0	35	1.6	16.5	40.0	19.5-	S	.	5.0	4.3	P	G	S
N96-6755	46.1	5-	2.0	32	1.4	14.0	37.9-	21.7+	S	.	4.8	3.7	P	G	BR
N98-7881	41.3	3-	2.3	29	1.7	17.7	39.7	20.7	R	.	5.0	4.8	P	T	BR
N99-3120	39.6	1-	2.3	34	1.6	13.7	41.0	19.6	S	.	4.3	4.8	W	G	T
N99-356	41.0	2-	2.2	35	1.5	14.2	38.3-	21.1	R	.	1.2	4.7	P	T	T
N99-396	42.9	3-	2.4	36	1.6	12.3	37.5-	21.7+	S	.	5.0	4.1	P	G	T
N99-510	47.3+	6-	1.3	29	1.6	14.5	36.0-	22.1+	R	.	5.0	3.0	P	G	T
N99-8114	40.8	1+	1.9	32	1.5	13.4	37.8-	20.9	S	.	5.0	4.1	P	G	S
N99-8119	41.1	1+	2.1	34	1.3	13.3	38.3-	20.8	S	.	5.0	4.6	P	G	BR
N99-813	43.3	4-	1.6	31	1.7	13.4	39.3	20.9	R	.	4.9	4.7	P	G	T
R97-1832	43.8	4-	1.7	34	1.5	13.3	39.0	20.4	S	.	1.0	4.0	W	T	T
R98-209	46.9	3-	2.1	37	1.7	13.6	39.0	20.8	S	.	1.0	4.3	P	G	T
SC98-1279	42.5	5-	2.3	37	1.6	13.4	38.7	21.2+	R	.	1.1	5.0	P	T	T
SC98-1427	42.8	4-	2.2	35	1.6	13.1	42.7+	18.4-	S	.	1.0	5.0	W	T	T
SC98-1428	44.8	3-	1.7	34	1.7	12.7	41.6+	19.5-	S	.	1.0	5.0	W	T	T
TN97-258	42.4	9-	1.6	34	1.4	13.1	40.9	20.8	R	.	5.0	4.5	W	G	T
TN98-227	41.1	8-	1.7	31	1.5	13.7	39.3	21.4+	R	.	4.9	4.7	W	G	T
TN98-228	43.3	9-	1.5	31	1.4	12.8	40.5	21.5+	R	.	5.0	4.6	P	G	T
TN99-117	47.1+	6-	2.1	32	1.3	14.1	37.7-	21.7+	R	.	5.0	4.9	P	T	T
TN99-123	44.9	7-	2.1	36	1.4	13.2	40.4	20.9	R	.	1.7	4.6	P	G	T
VS99-385	36.0	4+	2.4	38	1.6	12.0	40.2	19.3-	S	.	5.0	5.0	P	G	T
VS99-391	30.2-	4+	2.5	37	1.6	11.8	39.9	19.5-	S	.	5.0	5.0	P	G	T
VS99-392	33.9	3+	2.5	37	1.8	11.7	39.6	19.2-	S	.	5.0	5.0	P	G	T
OVERALL MEAN	41.9						39.5	20.6							
LSD (.05)	6.7						1.4	0.8							
C.V.	14%						3%	4%							

TABLE 45 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2001

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
BOGGS	50.2	38.2	35.5	41.0	26.1	50.3	40.2
DILLON	47.6	49.5	35.3	45.4	37.7+	38.9-	42.4
Au97-104	53.7	42.0	35.9	38.7	26.2	51.3	41.3
Au97-1232	49.7	43.0	44.2+	39.7	22.2	40.9-	39.9
Au97-23	55.0	49.3	42.9+	39.4	19.4-	49.5	42.6
Au97-60	49.1	46.9	47.5+	33.0-	30.4	48.8	42.6
Au97-73	53.5	47.9	36.1	36.5	23.5	52.5	41.7
G98-1053	56.4	56.7+	43.0+	44.7	33.4+	50.4	47.4+
G98-1131	59.8+	63.0+	37.5	38.4	24.9	42.9	44.4
G98-1709	51.3	50.0	30.2	39.0	26.5	45.1	40.4
G98-304	48.4	54.2+	35.4	42.5	30.4	51.0	43.6
G98-465	51.4	47.8	41.2	38.0	32.1	53.6	44.0
N96-6717	39.9-	44.9	28.9	36.2	20.3	23.1-	32.2-
N96-6755	49.4	53.9+	43.5+	42.1	43.1+	44.5	46.1
N98-7881	48.2	46.6	36.3	42.9	40.9+	32.9-	41.3
N99-3120	51.6	42.2	32.1	30.8-	41.9+	39.3-	39.6
N99-356	51.8	41.6	45.1+	31.6-	36.1+	39.9-	41.0
N99-396	55.2	52.9+	37.2	43.2	19.4-	49.3	42.9
N99-510	51.2	50.6	40.7	39.4	52.3+	49.6	47.3+
N99-8114	43.0	50.9	37.3	43.7	30.4	39.7-	40.8
N99-8119	45.7	51.6+	33.2	40.9	31.6	43.5	41.1
N99-813	52.8	54.0+	33.1	44.7	32.2	42.9	43.3
R97-1832	51.8	44.0	38.3	42.8	32.1	53.6	43.8
R98-209	52.4	44.9	38.2	47.9	40.9+	56.9	46.9
SC98-1279	46.6	47.2	40.7	32.8-	.	45.2	42.5
SC98-1427	47.6	41.4	45.8+	38.5	.	40.8-	42.8
SC98-1428	56.1	46.7	41.9	37.7	.	41.8-	44.8
TN97-258	46.1	51.3+	40.6	38.8	35.5+	42.0-	42.4
TN98-227	46.8	42.6	34.7	40.9	40.2+	41.6-	41.1
TN98-228	47.2	44.4	33.8	47.9	45.2+	41.4-	43.3
TN99-117	50.3	55.3+	39.2	43.0	47.5+	47.1	47.1+
TN99-123	55.3	49.8	39.2	40.0	38.5+	46.9	44.9
VS99-385	49.2	44.0	34.3	19.4-	.	33.2-	36.0
VS99-391	42.4	41.6	32.9	20.7-	13.8-	29.8-	30.2-
VS99-392	49.4	53.6+	37.6	19.5-	12.8-	30.2-	33.9
L.S.D. (0.05)	8.5	12.8	6.8	7.9	6.3	8.1	6.7
C.V. (%)	8.4	13.1	10.6	10.2	10.7	9.2	13.8

TABLE 46 - OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2001

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
BOGGS	19.9	19.7	20.6	20.4	20.5	21.3	20.4
DILLON	20.7	20.3	20.4	21.1	22.0	21.5	21.0
Au97-104	21.2	20.3	19.7	21.2	20.7	21.8	20.8
Au97-1232	19.7	20.5	20.0	21.1	19.1	22.5	20.5
Au97-23	20.4	20.2	18.9	19.4	19.6	20.9	19.9
Au97-60	20.5	19.4	20.3	20.9	20.1	20.9	20.4
Au97-73	20.8	20.2	20.7	20.5	23.1	21.0	21.1
G98-1053	20.7	20.5	18.6	21.2	20.0	22.4	20.6
G98-1131	20.6	20.3	20.3	20.7	20.2	22.0	20.7
G98-1709	20.7	20.6	20.5	21.4	20.0	22.0	20.9
G98-304	21.2	20.9	20.2	20.2	20.5	21.8	20.8
G98-465	20.3	20.2	20.0	20.9	20.9	22.4	20.8
N96-6717	19.1	19.6	18.4	19.0	19.1	21.5	19.5
N96-6755	21.7	21.0	20.1	21.4	22.6	23.6	21.7
N98-7881	20.1	20.6	20.8	20.5	20.2	21.9	20.7
N99-3120	19.1	18.5	19.0	20.2	20.7	20.2	19.6
N99-356	20.2	19.9	20.8	21.7	22.0	22.2	21.1
N99-396	21.6	21.1	20.3	22.2	21.3	23.4	21.7
N99-510	20.8	21.3	20.7	22.6	24.2	23.2	22.1
N99-8114	20.7	20.4	20.0	20.9	21.1	22.5	20.9
N99-8119	20.4	20.5	19.7	20.4	21.8	21.8	20.8
N99-813	20.2	20.7	20.3	20.4	22.4	21.5	20.9
R97-1832	20.2	19.8	19.9	20.6	21.0	20.7	20.4
R98-209	20.4	19.9	20.9	20.9	21.6	21.1	20.8
SC98-1279	21.9	21.3	20.4	21.8	18.7	23.1	21.2
SC98-1427	19.0	18.4	18.4	19.0	15.4	20.1	18.4
SC98-1428	19.6	19.0	18.7	19.6	18.3	22.0	19.5
TN97-258	21.3	20.7	19.6	19.8	21.2	22.3	20.8
TN98-227	19.9	21.2	20.6	20.9	23.0	22.8	21.4
TN98-228	20.2	21.4	20.8	21.8	22.6	21.9	21.5
TN99-117	22.3	21.3	19.7	21.8	22.3	23.0	21.7
TN99-123	20.9	20.6	20.4	21.4	20.8	21.5	20.9
VS99-385	19.3	18.4	19.2	19.8	18.9	20.0	19.3
VS99-391	19.5	18.5	19.3	20.0	19.0	20.6	19.5
VS99-392	19.3	18.1	19.3	19.9	19.2	19.5	19.2

TABLE 47 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2001

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
BOGGS	40.0	38.9	39.7	37.5	42.0	40.5	39.8
DILLON	38.6	39.2	39.9	36.3	40.2	39.4	38.9
Au97-104	38.9	39.2	40.8	37.4	41.0	39.2	39.4
Au97-1232	40.1	38.2	38.7	35.7	41.7	35.2	38.3
Au97-23	38.2	41.2	40.4	39.1	43.4	39.0	40.2
Au97-60	40.7	41.5	40.0	36.8	42.0	40.2	40.2
Au97-73	40.3	40.4	40.3	39.4	39.5	41.4	40.2
G98-1053	38.5	38.3	42.1	36.3	42.7	37.8	39.3
G98-1131	39.9	40.4	41.5	38.8	44.0	40.0	40.8
G98-1709	40.4	40.1	40.8	38.5	43.1	39.9	40.5
G98-304	39.4	38.6	40.8	39.5	41.6	39.2	39.9
G98-465	40.2	39.4	40.1	37.9	41.2	38.1	39.5
N96-6717	39.0	39.0	42.0	38.2	42.5	39.0	40.0
N96-6755	36.5	38.7	41.1	36.9	38.9	35.0	37.9
N98-7881	40.4	39.0	41.3	38.1	41.7	37.7	39.7
N99-3120	40.9	41.4	42.9	37.2	43.1	40.2	41.0
N99-356	38.7	39.7	39.8	35.0	39.6	37.2	38.3
N99-396	36.8	37.0	38.9	34.3	42.1	35.7	37.5
N99-510	36.7	36.2	39.6	34.1	35.4	34.0	36.0
N99-8114	37.6	38.4	40.2	36.3	38.7	35.8	37.8
N99-8119	38.3	37.6	40.5	38.1	38.4	36.6	38.3
N99-813	39.9	38.7	40.3	39.2	38.7	39.1	39.3
R97-1832	38.8	38.4	40.2	35.6	41.0	39.9	39.0
R98-209	39.1	39.4	38.9	37.9	39.5	39.4	39.0
SC98-1279	37.2	36.4	40.2	37.2	44.2	36.7	38.7
SC98-1427	40.6	41.4	42.8	42.0	48.4	40.9	42.7
SC98-1428	41.1	41.0	42.3	40.1	45.1	40.0	41.6
TN97-258	39.6	40.6	42.3	40.9	42.1	40.0	40.9
TN98-227	39.3	38.6	41.5	39.3	39.0	37.9	39.3
TN98-228	41.2	40.2	41.9	38.8	40.6	40.1	40.5
TN99-117	36.5	37.4	40.9	36.5	38.5	36.1	37.7
TN99-123	40.4	41.2	41.5	39.0	41.5	39.0	40.4
VS99-385	40.1	40.5	40.5	37.0	44.3	38.7	40.2
VS99-391	39.7	40.2	40.7	37.6	43.5	37.7	39.9
VS99-392	39.0	40.9	39.6	35.7	43.0	39.3	39.6

TABLE 48 - SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2001

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
BOGGS	14.6	13.1	10.2	12.8	10.5	12.8	12.3
DILLON	17.0	13.9	11.7	13.5	11.0	14.6	13.6
Au97-104	12.1	10.9	12.3	11.1	11.0	12.2	11.6
Au97-1232	13.4	11.4	11.9	11.1	8.5	12.2	11.4
Au97-23	16.1	14.4	10.7	14.4	11.5	16.7	14.0
Au97-60	12.7	13.1	12.7	10.4	9.5	12.2	11.8
Au97-73	13.6	12.1	10.7	11.1	10.0	14.0	11.9
G98-1053	13.7	12.0	11.7	11.7	9.5	11.8	11.7
G98-1131	15.7	12.9	10.5	11.8	10.5	12.9	12.4
G98-1709	14.5	12.7	11.3	12.6	9.5	13.7	12.4
G98-304	15.6	14.3	11.5	14.7	10.0	14.5	13.4
G98-465	12.9	11.7	10.6	11.1	8.5	12.2	11.2
N96-6717	20.1	17.7	11.9	17.8	13.5	18.2	16.5
N96-6755	15.0	15.1	11.5	13.5	14.5	14.3	14.0
N98-7881	21.7	19.4	13.3	18.4	13.5	20.0	17.7
N99-3120	15.2	14.2	12.2	12.9	12.5	15.4	13.7
N99-356	17.5	15.6	10.2	13.8	12.0	15.9	14.2
N99-396	14.4	13.5	10.5	11.3	11.0	13.3	12.3
N99-510	16.9	15.2	11.9	13.0	13.0	16.8	14.5
N99-8114	14.7	13.8	14.2	13.4	11.0	13.2	13.4
N99-8119	15.3	14.8	10.6	13.8	11.5	13.6	13.3
N99-813	16.5	15.1	9.5	12.7	11.5	15.3	13.4
R97-1832	16.3	14.2	9.9	12.5	12.0	15.1	13.3
R98-209	15.1	12.9	11.4	13.6	13.5	15.1	13.6
SC98-1279	15.9	14.0	11.9	13.9	9.5	15.0	13.4
SC98-1427	15.3	14.4	11.1	13.6	10.5	13.9	13.1
SC98-1428	15.1	12.9	11.2	12.9	10.0	14.1	12.7
TN97-258	14.3	13.7	11.0	14.1	11.5	14.1	13.1
TN98-227	16.5	13.0	11.5	12.7	12.0	16.7	13.7
TN98-228	14.5	12.3	12.1	12.3	11.9	14.0	12.8
TN99-117	16.9	13.4	12.8	13.9	11.9	15.7	14.1
TN99-123	15.7	13.5	10.9	14.0	11.2	14.2	13.2
VS99-385	14.0	12.3	12.4	11.3	8.8	13.4	12.0
VS99-391	13.2	12.9	10.8	11.9	8.8	13.0	11.8
VS99-392	13.3	12.7	10.4	11.8	9.0	13.3	11.7

TABLE 49 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN PRELIMINARY GROUP VI, 2001

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
BOGGS	34	24	34	29	30	37	31
DILLON	36	36	31	36	38	35	35
Au97-104	35	28	31	32	32	36	32
Au97-1232	37	33	36	31	28	41	34
Au97-23	31	31	30	31	30	44	33
Au97-60	38	30	37	34	36	34	35
Au97-73	42	39	34	35	38	42	38
G98-1053	39	35	31	34	38	35	35
G98-1131	36	34	29	30	36	35	33
G98-1709	37	36	29	33	34	37	34
G98-304	36	35	34	30	36	38	35
G98-465	38	37	37	34	38	39	37
N96-6717	38	40	29	38	32	32	35
N96-6755	31	32	39	25	32	34	32
N98-7881	29	30	32	29	26	27	29
N99-3120	34	31	35	31	36	35	34
N99-356	35	37	31	30	38	38	35
N99-396	41	39	31	33	28	41	36
N99-510	30	27	29	26	28	32	29
N99-8114	33	35	28	31	32	35	32
N99-8119	35	37	32	30	32	38	34
N99-813	31	32	32	31	28	33	31
R97-1832	38	31	32	31	36	36	34
R98-209	40	36	36	35	40	38	37
SC98-1279	39	36	32	33	38	44	37
SC98-1427	36	35	31	35	38	37	35
SC98-1428	37	36	33	31	34	36	34
TN97-258	34	37	30	31	40	32	34
TN98-227	33	25	31	28	36	34	31
TN98-228	33	30	31	27	36	31	31
TN99-117	35	31	36	28	32	34	32
TN99-123	38	33	35	34	36	43	36
VS99-385	41	33	36	28	44	44	38
VS99-391	38	38	34	29	42	40	37
VS99-392	42	36	33	28	42	42	37

TABLE 50 - LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2001

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
BOGGS	2.5	1.5	2.0	2.0	2.0	1.0	1.8
DILLON	1.0	2.0	2.0	1.5	2.0	1.0	1.6
Au97-104	2.0	2.5	2.0	4.0	2.0	1.5	2.3
Au97-1232	2.5	3.0	3.0	4.5	2.0	1.5	2.8
Au97-23	2.0	2.0	1.0	3.5	2.0	2.0	2.1
Au97-60	2.5	2.0	2.0	4.5	2.0	1.5	2.4
Au97-73	2.5	3.5	2.0	4.0	2.0	1.5	2.6
G98-1053	2.0	2.5	2.0	2.0	3.0	1.0	2.1
G98-1131	1.0	2.0	1.0	2.0	2.0	1.0	1.5
G98-1709	2.5	4.0	2.0	3.5	2.0	1.5	2.6
G98-304	1.5	2.5	1.5	2.0	3.0	1.5	2.0
G98-465	1.0	1.5	2.0	3.0	2.0	1.0	1.8
N96-6717	1.5	2.5	2.0	3.0	2.0	1.0	2.0
N96-6755	1.5	2.0	3.0	2.5	2.0	1.0	2.0
N98-7881	1.5	2.5	3.0	3.5	2.0	1.0	2.3
N99-3120	2.0	3.5	2.0	2.5	2.0	1.5	2.3
N99-356	1.5	4.0	2.0	2.5	2.0	1.0	2.2
N99-396	2.0	3.5	3.0	3.0	2.0	1.0	2.4
N99-510	1.0	1.0	1.0	2.0	2.0	1.0	1.3
N99-8114	1.5	2.5	2.0	2.5	2.0	1.0	1.9
N99-8119	2.5	2.5	1.5	3.0	2.0	1.0	2.1
N99-813	1.0	1.5	1.5	2.5	2.0	1.0	1.6
R97-1832	2.0	2.0	1.5	1.5	2.0	1.0	1.7
R98-209	2.0	2.5	2.5	2.5	2.0	1.0	2.1
SC98-1279	2.5	3.0	1.5	3.5	2.0	1.5	2.3
SC98-1427	2.0	2.5	2.5	3.0	2.0	1.0	2.2
SC98-1428	1.5	1.5	2.0	2.0	2.0	1.0	1.7
TN97-258	1.0	2.0	1.0	2.5	2.0	1.0	1.6
TN98-227	1.5	1.0	1.5	3.0	2.0	1.0	1.7
TN98-228	1.5	1.0	1.5	2.0	2.0	1.0	1.5
TN99-117	1.5	1.5	2.5	3.0	3.0	1.0	2.1
TN99-123	2.0	1.5	2.0	3.5	2.0	1.5	2.1
VS99-385	2.0	2.0	2.0	3.0	4.0	1.5	2.4
VS99-391	1.5	3.0	2.0	3.0	4.0	1.5	2.5
VS99-392	2.5	2.5	2.0	3.0	4.0	1.0	2.5

TABLE 51 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 2001

STRAIN/ VARIETY	ATHENS GA	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
BOGGS	1.5	1.0	2.0	2.0	1.0	1.5
DILLON	1.5	1.0	1.0	2.0	1.0	1.3
Au97-104	1.5	1.0	1.0	2.0	1.0	1.3
Au97-1232	1.5	1.0	2.0	2.0	1.0	1.5
Au97-23	1.5	1.0	2.0	2.0	1.0	1.5
Au97-60	1.5	1.5	1.0	2.0	1.0	1.4
Au97-73	1.5	1.0	2.0	2.0	1.0	1.5
G98-1053	1.5	1.0	2.0	2.0	1.0	1.5
G98-1131	1.5	2.0	2.0	2.0	1.0	1.7
G98-1709	1.5	1.5	2.0	2.0	1.0	1.6
G98-304	1.5	1.5	2.0	2.0	1.0	1.6
G98-465	1.5	2.0	1.0	2.0	1.5	1.6
N96-6717	1.5	1.5	2.0	2.0	1.0	1.6
N96-6755	1.5	1.5	1.0	2.0	1.0	1.4
N98-7881	2.0	1.5	2.0	2.0	1.0	1.7
N99-3120	1.8	2.0	1.0	2.0	1.0	1.6
N99-356	1.5	1.0	2.0	2.0	1.0	1.5
N99-396	1.5	1.5	2.0	2.0	1.0	1.6
N99-510	1.8	2.0	1.0	2.0	1.0	1.6
N99-8114	1.5	1.0	2.0	2.0	1.0	1.5
N99-8119	1.5	1.0	1.0	2.0	1.0	1.3
N99-813	1.8	1.5	2.0	2.0	1.0	1.7
R97-1832	1.5	1.0	2.0	2.0	1.0	1.5
R98-209	1.8	1.6	2.0	2.0	1.0	1.7
SC98-1279	1.5	1.5	2.0	2.0	1.0	1.6
SC98-1427	1.5	1.5	2.0	2.0	1.0	1.6
SC98-1428	1.5	2.0	2.0	2.0	1.0	1.7
TN97-258	1.5	1.5	1.0	2.0	1.0	1.4
TN98-227	1.5	2.0	1.0	2.0	1.0	1.5
TN98-228	1.5	1.5	1.0	2.0	1.0	1.4
TN99-117	1.5	1.0	1.0	2.0	1.0	1.3
TN99-123	1.5	1.5	1.0	2.0	1.0	1.4
VS99-385	1.5	1.5	2.0	2.0	1.0	1.6
VS99-391	1.5	1.5	2.0	2.0	1.0	1.6
VS99-392	1.8	2.0	2.0	2.0	1.0	1.8

UNIFORM GROUP VII

2001

Uniform Group VII nurseries were planted at 14 locations. Data were obtained from 13 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, 2001

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	CHECK	
2. HASKELL	CHECK	
3. Au96-1693	N90-1085 x D87-4429	F6
4. G95-2484	G86-1434 x HY798	F5d
5. G96-1170	G86-1434 x D87-4429	F5d
6. G96-2272	DPL3776 x G86-1267	F4d
7. G97-1417	Doles x D87-4429	F6d
8. N96-6809	N90-7202 x N90-7199	F4
9. N97-9599	N90-7199 x COOK	F4
10. N97-9658	N90-7199 x COOK	F4
11. N97-9827	N90-7199 x N91-7254	F4
12. N98-223	V88-494 x N90-1101	F6
13. N98-479	Cook x N93-1188	F6
14. SC94-1573	NK'S S83-30 x BRYAN	
15. SC95-988	HAGOOD x G83-198	F5
16. SC96-1476	SC89-181 x SC84-931	F5
17. SC96-1628	SC89-181 x NK'S S75-55	F5
18. SC96-1688	SC89-181 x NK'S S75-55	F5
19. SC97-259	NK'S S83-30 x MANOKIN	F7

TABLE 53 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNFORM GROUP VI, 2001

STRAIN/	YIELD※			PROTEIN			OIL		
VARIETY	2001	00-01	99-01	2001	00-01	99-01	2001	00-01	99-01
BENNING	47.2	43.8	43.2	39.7	40.7	41.0	21.2	20.7	20.5
HASKELL	47.9	44.0	42.8	38.7	39.2	39.8	20.6	20.3	20.1
Au96-1693	48.7	45.2	.	41.6	42.7	.	19.5	19.0	.
G95-2484	47.8	45.6	.	38.7	39.6	.	20.6	20.1	.
G96-1170	46.3	.	.	40.8	.	.	19.2	.	.
G96-2272	49.7	.	.	38.9	.	.	20.7	.	.
G97-1417	47.8	.	.	40.3	.	.	19.9	.	.
N96-6809	48.4	44.8	43.3	37.6	38.6	39.3	21.9	21.4	20.9
N97-9599	47.9	.	.	39.1	.	.	21.3	.	.
N97-9658	51.6	.	.	39.6	.	.	20.6	.	.
N97-9827	44.2	.	.	39.0	.	.	21.0	.	.
N98-223	47.7	.	.	39.0	.	.	20.8	.	.
N98-479	45.4	.	.	41.8	.	.	19.2	.	.
SC94-1573	48.7	45.1	44.4	37.9	39.0	39.4	20.3	19.9	20.0
SC95-988	48.8	45.7	44.8	39.6	40.7	41.3	21.1	20.5	20.4
SC96-1476	48.3	46.2	.	38.6	39.9	.	20.3	19.6	.
SC96-1628	48.2	44.9	.	40.2	40.9	.	20.5	20.0	.
SC96-1688	46.2	44.6	.	39.7	40.5	.	21.0	20.5	.
SC97-259	45.1	.	.	38.3	.	.	20.4	.	.

※Data not included in mean: 2001 - Florence, SC

TABLE 53 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
BENNING	.	10/20	1.8	37	1.8	12.1	.	.
HASKELL	.	3+	2.6	37	1.8	12.5	.	.
Au96-1693	.	3+	2.1	38	1.7	11.6	.	.
G95-2484	.	3+	3.0	39	1.8	13.1	.	.
G96-1170	.	0	2.0	34	1.8	11.4	.	.
G96-2272	.	1+	1.6	36	1.5	9.9	.	.
G97-1417	.	2+	1.6	34	1.6	12.9	.	.
N96-6809	.	1+	1.7	30	1.7	10.9	.	.
N97-9599	.	2+	2.2	37	1.8	12.0	.	.
N97-9658	.	2+	1.6	34	1.6	10.8	.	.
N97-9827	.	1+	2.9	34	1.7	12.5	.	.
N98-223	.	1+	1.7	33	1.7	11.7	.	.
N98-479	.	2+	2.3	41	1.8	12.7	.	.
SC94-1573	.	1+	1.8	38	1.5	11.7	.	.
SC95-988	.	1-	1.5	35	1.4	10.6	.	.
SC96-1476	.	2+	2.0	37	1.4	10.3	.	.
SC96-1628	.	2+	2.1	40	1.8	11.5	.	.
SC96-1688	.	1+	2.1	40	1.8	10.8	.	.
SC97-259	.	3+	1.9	37	1.4	11.8	.	.

TABLE 53 - Continued

PEST REACTIONS

STRAIN/ VARIETY	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER	SDS DX	FELS
BENNING	.	1.0	5.0	1.0	1.5	R	MR	.	.
HASKELL	.	4.8	5.0	1.3	2.3	S	R	.	.
Au96-1693	.	4.6	4.4	3.8	4.5	S	S	.	.
G95-2484	.	2.7	5.0	1.3	2.8	R	R	.	.
G96-1170	.	1.6	1.1	2.0	4.3	S	S	.	.
G96-2272	.	1.0	4.6	1.0	.	S	R	.	.
G97-1417	.	1.0	4.7	1.0	3.0	R	S	.	.
N96-6809	.	4.4	4.8	3.5	2.0	R	S	.	.
N97-9599	.	3.6	4.6	4.5	3.5	R	S	.	.
N97-9658	.	4.6	4.4	2.0	3.3	R	S	.	.
N97-9827	.	4.6	5.0	2.8	1.5	R	S	.	.
N98-223	.	5.0	5.0	3.0	3.8	R	S	.	.
N98-479	.	3.8	5.0	4.3	5.0	R	S	.	.
SC94-1573	.	1.0	4.7	1.5	4.0	R	SEG	.	.
SC95-988	.	1.0	4.4	2.3	4.0	R	S	.	.
SC96-1476	.	1.0	3.3	1.5	3.3	R	R	.	.
SC96-1628	.	1.0	1.6	2.3	3.3	M	R	.	.
SC96-1688	.	1.1	2.0	2.3	4.3	R	R	.	.
SC97-259	.	1.0	5.0	3.0	4.5	R	R	.	.

TABLE 54 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2001

EAST

STRAIN/ VARIETY	CLINTON NC	FLORENCE✳ SC	JACKSON SPRINGS NC	MEAN
BENNING	49.3	15.2	37.6	43.5
HASKELL	55.1	13.3	50.9	53.0
Au96-1693	54.3	14.5	45.3	49.8
G95-2484	58.0	16.4	45.5	51.7
G96-1170	49.0	15.6	42.6	45.8
G96-2272	52.2	15.3	43.4	47.8
G97-1417	48.4	17.5	37.4	42.9
N96-6809	55.2	14.3	42.6	48.9
N97-9599	48.9	14.7	45.9	47.4
N97-9658	61.7	15.7	44.2	53.0
N97-9827	47.1	13.4	39.1	43.1
N98-223	58.9	15.3	43.5	51.2
N98-479	52.9	11.7	43.8	48.3
SC94-1573	52.7	16.8	38.2	45.5
SC95-988	49.2	16.9	39.6	44.4
SC96-1476	49.3	14.0	36.7	43.0
SC96-1628	50.2	17.3	42.2	46.2
SC96-1688	48.8	13.9	39.4	44.1
SC97-259	49.3	14.7	35.4	42.3
L.S.D. (0.05)	6.1	3.5	5.3	.
C.V. (%)	7.1	14.0	7.7	.

✳**Data not included in mean.**

TABLE 54 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(B)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	53.8	31.8	48.5	53.1	47.2	58.9	42.0	36.8	42.7	53.5	46.8
HASKELL	52.8	31.3	39.9	51.4	51.9	64.0	37.5	45.5	27.4	55.7	45.7
Au96-1693	52.4	30.4	41.4	50.8	47.9	65.1	43.6	53.9	31.6	53.2	47.0
G95-2484	56.6	28.9	49.6	47.9	47.7	59.8	39.7	53.3	32.5	50.2	46.6
G96-1170	50.9	29.0	46.0	42.2	50.5	61.0	37.5	45.9	40.7	52.2	45.6
G96-2272	55.0	33.3	45.6	53.3	46.7	63.3	42.2	49.9	44.3	59.6	49.3
G97-1417	52.2	28.5	44.6	51.4	52.8	57.4	40.9	54.8	39.4	55.1	47.7
N96-6809	59.5	32.8	43.8	50.7	51.6	66.4	42.9	49.9	32.1	47.1	47.7
N97-9599	58.4	31.4	51.8	46.7	50.9	61.1	42.5	51.6	33.7	49.2	47.7
N97-9658	56.1	35.7	51.4	55.8	50.4	64.5	45.5	51.2	33.2	59.9	50.4
N97-9827	52.7	30.8	44.1	45.6	44.9	58.9	41.9	46.6	26.8	53.7	44.6
N98-223	48.9	33.8	46.1	46.2	52.4	60.9	49.1	43.5	33.8	47.9	46.3
N98-479	46.3	26.1	47.8	45.5	44.4	59.1	38.8	55.0	27.2	48.0	43.8
SC94-1573	54.3	30.7	45.6	51.2	49.3	58.8	42.8	54.0	45.5	52.0	48.4
SC95-988	54.3	34.0	47.1	46.5	49.4	61.2	47.4	54.3	45.5	51.7	49.1
SC96-1476	54.1	32.8	46.0	47.6	45.1	60.9	42.4	57.9	40.2	51.7	47.9
SC96-1628	55.0	31.7	44.4	52.6	46.7	61.6	38.6	44.8	47.4	52.3	47.5
SC96-1688	56.6	30.9	43.5	40.0	47.2	58.6	40.0	45.6	44.2	48.9	45.5
SC97-259	51.3	28.8	40.7	47.5	48.1	56.9	33.9	47.4	39.6	48.4	44.2
L.S.D. (0.05)	5.4	4.4	8.9	7.3	6.0	3.8	5.2	8.6	7.0	8.2	.
C.V. (%)	6.1	8.5	11.7	9.1	7.5	3.8	7.5	10.4	11.3	9.5	.

TABLE 54 - Continued

	WEST
STRAIN/ VARIETY	BOSSIER CITY LA
BENNING	58.6
HASKELL	59.7
Au96-1693	62.9
G95-2484	51.3
G96-1170	54.9
G96-2272	57.1
G97-1417	58.0
N96-6809	54.8
N97-9599	51.0
N97-9658	61.5
N97-9827	42.3
N98-223	55.5
N98-479	55.9
SC94-1573	57.7
SC95-988	54.2
SC96-1476	63.3
SC96-1628	59.7
SC96-1688	57.5
SC97-259	59.1
L.S.D. (0.05)	7.8
C.V. (%)	8.3

TABLE 55 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2001

OIL PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(B)	CALHOUN GA	CLEMSON SC	CLINTON NC	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	20.4	21.0	.	.	20.6	21.1	21.6	.	20.6	20.6	21.9	22.9	.	21.2
HASKELL	20.5	20.4	.	.	19.5	19.6	20.7	.	20.4	19.7	21.4	23.6	.	20.6
Au96-1693	19.4	18.8	.	.	18.3	18.8	20.3	.	19.5	19.5	20.1	21.1	.	19.5
G95-2484	20.4	19.9	.	.	19.4	19.9	20.9	.	20.2	20.3	21.5	23.0	.	20.6
G96-1170	19.0	18.4	.	.	18.3	18.1	21.0	.	18.2	19.0	19.5	21.2	.	19.2
G96-2272	20.2	19.6	.	.	20.5	19.7	20.8	.	20.5	20.7	21.3	23.1	.	20.7
G97-1417	20.0	19.1	.	.	18.9	18.9	20.3	.	19.5	20.8	20.6	21.4	.	19.9
N96-6809	21.8	21.2	.	.	21.0	21.1	21.1	.	21.2	22.7	22.0	25.2	.	21.9
N97-9599	21.2	21.1	.	.	19.8	20.6	21.3	.	20.7	20.8	22.3	23.6	.	21.3
N97-9658	20.0	19.9	.	.	20.0	19.9	20.6	.	20.3	20.5	20.9	22.9	.	20.6
N97-9827	20.1	19.5	.	.	21.4	20.3	20.6	.	20.6	21.3	22.3	23.0	.	21.0
N98-223	20.9	19.7	.	.	20.9	19.4	20.6	.	19.9	21.0	22.2	22.6	.	20.8
N98-479	19.3	18.9	.	.	18.8	18.9	19.2	.	19.3	18.1	19.9	20.8	.	19.2
SC94-1573	19.8	19.1	.	.	18.8	20.1	20.8	.	20.2	20.7	20.7	22.3	.	20.3
SC95-988	21.0	20.3	.	.	20.5	20.4	20.8	.	21.0	21.4	21.4	23.1	.	21.1
SC96-1476	20.1	19.3	.	.	19.6	19.6	20.6	.	20.0	19.8	21.5	22.0	.	20.3
SC96-1628	20.1	19.6	.	.	19.4	19.8	21.7	.	19.9	19.7	21.9	22.0	.	20.5
SC96-1688	21.1	20.5	.	.	20.8	20.3	20.8	.	21.1	20.0	22.1	22.6	.	21.0
SC97-259	19.7	19.6	.	.	18.9	19.9	21.5	.	20.3	20.3	21.1	22.0	.	20.4

TABLE 55 - Continued

PROTEIN PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(B)	CALHOUN GA	CLEMSON SC	CLINTON NC	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	41.2	38.9	.	.	41.3	38.5	40.6	.	38.4	41.9	37.9	38.4	.	39.7
HASKELL	37.9	37.7	.	.	41.3	39.6	40.2	.	37.7	41.3	36.8	35.5	.	38.7
Au96-1693	40.6	42.6	.	.	42.9	40.8	42.6	.	40.9	43.6	40.7	39.9	.	41.6
G95-2484	38.2	39.1	.	.	41.5	38.7	40.7	.	37.7	40.8	36.8	34.8	.	38.7
G96-1170	40.4	41.6	.	.	41.9	40.3	41.3	.	40.6	42.3	40.5	37.9	.	40.8
G96-2272	39.1	39.9	.	.	39.9	38.3	40.6	.	37.8	39.9	38.1	36.5	.	38.9
G97-1417	39.3	40.8	.	.	42.3	39.7	41.6	.	39.4	41.8	39.8	38.1	.	40.3
N96-6809	37.5	37.5	.	.	40.6	37.8	39.9	.	36.2	38.0	38.1	33.2	.	37.6
N97-9599	38.9	39.5	.	.	42.2	39.3	39.5	.	38.3	40.7	37.5	36.3	.	39.1
N97-9658	39.7	40.3	.	.	41.0	39.3	40.1	.	39.1	40.7	38.9	37.3	.	39.6
N97-9827	40.1	40.0	.	.	40.4	39.5	35.9	.	39.2	40.7	38.3	36.9	.	39.0
N98-223	38.3	40.0	.	.	40.3	40.4	39.2	.	38.3	39.8	37.3	37.3	.	39.0
N98-479	41.6	41.8	.	.	43.1	41.7	42.5	.	40.4	44.3	41.0	40.1	.	41.8
SC94-1573	39.0	38.8	.	.	38.3	35.6	40.5	.	36.6	39.6	37.1	35.4	.	37.9
SC95-988	39.3	40.7	.	.	41.0	39.2	41.0	.	38.4	40.5	39.3	36.8	.	39.6
SC96-1476	38.7	39.9	.	.	40.3	37.5	39.9	.	37.6	41.0	36.2	36.4	.	38.6
SC96-1628	39.8	41.2	.	.	40.9	39.8	39.8	.	39.5	43.2	38.6	38.8	.	40.2
SC96-1688	39.1	40.4	.	.	41.6	40.4	40.5	.	38.6	41.6	37.5	37.3	.	39.7
SC97-259	37.0	40.0	.	.	39.9	37.0	38.9	.	38.1	41.0	37.5	35.1	.	38.3

TABLE 55 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(B)	CALHOUN GA	CLEMSON SC	CLINTON NC	FAIRHOPE AL	FLORENCE☼ SC	JACKSON SPRINGS NC	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	13.8	16.0	14.0	16.0	13.6	.	19.1	16.7	.	13.0	13.0	15.7	16.0	15.0
HASKELL	15.0	16.4	14.5	17.0	15.1	.	20.5	16.8	.	12.5	14.1	13.3	19.0	15.7
Au96-1693	14.6	14.6	13.8	15.0	13.9	.	17.2	16.1	.	12.1	13.3	13.7	15.0	14.3
G95-2484	15.4	16.7	16.1	17.0	15.1	.	20.2	17.7	.	14.2	15.8	13.9	19.0	16.3
G96-1170	13.8	14.2	13.3	13.0	12.8	.	17.3	14.4	.	12.9	13.1	13.1	16.0	14.0
G96-2272	12.9	12.2	11.5	13.0	12.4	.	15.5	12.4	.	10.1	10.7	11.2	12.0	12.2
G97-1417	17.1	15.4	14.8	16.0	15.2	.	18.9	17.9	.	13.6	15.5	15.2	15.0	15.7
N96-6809	13.3	13.4	13.2	14.0	13.1	.	17.4	13.5	.	11.8	12.4	11.7	13.0	13.3
N97-9599	15.3	15.9	14.5	16.0	13.5	.	18.1	16.5	.	13.1	13.8	12.7	17.0	15.0
N97-9658	14.3	13.5	12.8	15.0	13.3	.	16.7	14.3	.	11.9	11.9	10.3	17.0	13.7
N97-9827	15.7	16.5	15.0	17.0	14.9	.	18.3	16.9	.	13.1	14.5	13.5	16.0	15.5
N98-223	13.9	14.5	13.7	16.0	14.5	.	18.5	16.6	.	13.2	12.6	12.9	15.0	14.5
N98-479	15.0	17.6	15.6	16.0	15.5	.	19.5	17.5	.	13.4	14.6	12.6	18.0	15.8
SC94-1573	13.7	16.1	13.7	15.0	13.7	.	17.3	17.1	.	12.7	13.9	13.3	16.0	14.5
SC95-988	12.7	13.7	12.7	13.0	12.3	.	15.8	13.1	.	12.0	12.4	12.1	13.0	13.0
SC96-1476	12.8	14.1	11.6	13.0	11.9	.	14.9	12.5	.	11.5	11.7	11.9	16.0	13.0
SC96-1628	13.1	14.6	14.4	14.0	14.1	.	17.4	15.5	.	12.8	12.0	13.1	16.0	14.2
SC96-1688	12.8	13.4	12.2	14.0	12.8	.	16.6	14.9	.	12.0	12.9	12.2	16.0	13.5
SC97-259	14.0	16.6	14.3	14.0	13.9	.	17.2	16.5	.	12.4	13.4	13.1	15.0	14.4

☼Data not included in mean.

TABLE 56 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BENNING FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2001

EAST

STRAIN/ VARIETY	CLINTON NC	FLORENCE✳ SC	JACKSON SPRINGS NC	MEAN
BENNING	10/22	10/21	10/25	10/24
HASKELL	2	3	-2	0
Au96-1693	2	6	0	1
G95-2484	2	3	0	1
G96-1170	0	1	-1	-1
G96-2272	0	-2	-1	-1
G97-1417	0	1	-1	-1
N96-6809	2	1	-1	0
N97-9599	2	3	-3	-1
N97-9658	0	2	-1	-1
N97-9827	0	-1	-1	-1
N98-223	0	1	-1	-1
N98-479	0	1	-2	-1
SC94-1573	0	0	-1	-1
SC95-988	-3	-7	1	-1
SC96-1476	0	0	0	0
SC96-1628	0	4	-2	-1
SC96-1688	0	0	-1	-1
SC97-259	2	4	-1	0

✳Data not included in mean.

TABLE 56 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACK-VILLE SC	BLACK-VILLE SC(B)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	10/21	10/19	10/21	10/17	10/24	10/18	.	.	10/10	10/14	10/18
HASKELL	2	1	1	6	3	4	.	.	6	5	4
Au96-1693	2	2	6	7	4	3	.	.	5	1	4
G95-2484	3	1	5	5	4	2	.	.	6	6	4
G96-1170	-1	0	-1	-5	0	3	.	.	3	5	1
G96-2272	0	-2	0	2	2	2	.	.	2	3	1
G97-1417	1	2	5	1	2	3	.	.	5	4	3
N96-6809	-3	0	-1	3	0	3	.	.	3	2	1
N97-9599	2	3	4	3	2	1	.	.	6	5	3
N97-9658	2	2	3	6	3	3	.	.	5	3	3
N97-9827	3	0	2	-1	4	3	.	.	7	3	3
N98-223	0	-1	-1	8	2	-1	.	.	1	1	1
N98-479	-1	2	3	2	3	2	.	.	3	8	3
SC94-1573	-1	1	0	6	3	2	.	.	5	2	2
SC95-988	-3	-3	-2	3	1	-3	.	.	1	1	-1
SC96-1476	2	1	1	6	2	1	.	.	6	3	3
SC96-1628	1	1	2	7	3	1	.	.	6	1	3
SC96-1688	0	-1	0	5	2	3	.	.	2	4	2
SC97-259	2	3	5	4	4	3	.	.	7	5	4

TABLE 56 - Continued

	WEST
STRAIN/ VARIETY	BOSSIER CITY LA
BENNING	10/28
HASKELL	0
Au96-1693	2
G95-2484	3
G96-1170	-4
G96-2272	0
G97-1417	0
N96-6809	-1
N97-9599	1
N97-9658	1
N97-9827	-5
N98-223	-2
N98-479	0
SC94-1573	-1
SC95-988	-6
SC96-1476	-1
SC96-1628	0
SC96-1688	0
SC97-259	-1

TABLE 57 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2001

EAST

STRAIN/ VARIETY	CLINTON NC	FLORENCE✳ SC	JACKSON SPRINGS NC	MEAN
BENNING	29	25	39	34
HASKELL	29	26	37	33
Au96-1693	31	24	39	35
G95-2484	35	27	40	38
G96-1170	26	25	36	31
G96-2272	27	26	37	32
G97-1417	26	24	34	30
N96-6809	25	22	34	30
N97-9599	30	27	37	34
N97-9658	28	24	34	31
N97-9827	25	24	33	29
N98-223	28	22	35	32
N98-479	39	28	43	41
SC94-1573	29	29	37	33
SC95-988	25	23	33	29
SC96-1476	28	24	35	32
SC96-1628	34	25	40	37
SC96-1688	35	24	41	38
SC97-259	29	26	36	33

✳**Data not included in mean.**

TABLE 57 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACK-VILLE SC	BLACK-VILLE SC(B)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	36	38	40	38	36	32	40	42	38	34	37
HASKELL	39	39	35	39	37	32	40	40	39	33	37
Au96-1693	35	39	37	39	40	34	41	40	43	36	38
G95-2484	40	38	40	39	37	38	42	47	41	35	40
G96-1170	35	36	36	38	34	31	38	40	39	30	36
G96-2272	36	37	40	35	38	30	36	41	40	33	37
G97-1417	35	35	37	38	33	29	34	43	39	31	35
N96-6809	28	33	30	35	34	28	27	33	30	24	30
N97-9599	39	38	39	36	36	33	39	42	39	30	37
N97-9658	34	35	37	38	35	27	32	37	38	33	35
N97-9827	35	37	37	35	35	29	37	39	41	30	36
N98-223	29	33	35	39	33	25	31	39	35	31	33
N98-479	36	43	43	42	40	36	46	47	43	36	41
SC94-1573	35	40	41	39	36	35	43	45	43	36	39
SC95-988	34	34	38	33	38	30	33	41	40	31	35
SC96-1476	37	37	40	38	34	37	41	43	38	35	38
SC96-1628	36	40	41	42	40	38	45	47	41	41	41
SC96-1688	38	38	41	40	39	39	45	50	46	35	41
SC97-259	33	38	40	34	37	35	44	42	41	35	38

TABLE 57 - Continued

	WEST
STRAIN/ VARIETY	BOSSIER CITY LA
BENNING	38
HASKELL	37
Au96-1693	36
G95-2484	39
G96-1170	29
G96-2272	35
G97-1417	34
N96-6809	32
N97-9599	37
N97-9658	30
N97-9827	34
N98-223	31
N98-479	43
SC94-1573	37
SC95-988	38
SC96-1476	40
SC96-1628	42
SC96-1688	40
SC97-259	38

TABLE 58 - PLANT LODGING FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2001

EAST

STRAIN/ VARIETY	CLINTON NC	FLORENCE✳ SC	JACKSON SPRINGS NC	MEAN
BENNING	1.0	1.0	1.0	1.0
HASKELL	1.3	1.0	3.0	2.2
Au96-1693	1.0	1.0	2.0	1.5
G95-2484	2.3	1.0	3.0	2.7
G96-1170	1.0	1.0	2.0	1.5
G96-2272	1.0	1.0	2.0	1.5
G97-1417	1.0	1.0	1.0	1.0
N96-6809	1.0	1.0	2.0	1.5
N97-9599	1.7	1.0	2.3	2.0
N97-9658	1.0	1.0	1.7	1.3
N97-9827	1.0	1.0	2.7	1.8
N98-223	1.0	1.0	1.7	1.3
N98-479	2.3	1.0	2.3	2.3
SC94-1573	1.0	1.0	1.3	1.2
SC95-988	1.0	1.0	1.0	1.0
SC96-1476	1.0	1.0	1.7	1.3
SC96-1628	1.0	1.0	1.0	1.0
SC96-1688	1.7	1.0	1.7	1.7
SC97-259	1.0	1.0	1.0	1.0

✳**Data not included in mean.**

TABLE 58 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACK-VILLE SC	BLACK-VILLE SC(B)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	2.3	2.0	2.0	3.3	2.7	2.7	1.0	2.0	1.0	1.0	2.0
HASKELL	3.0	3.7	2.7	3.0	4.3	2.7	2.0	2.0	1.3	2.3	2.7
Au96-1693	2.0	2.3	2.3	3.3	3.3	2.3	1.7	2.0	1.3	1.3	2.2
G95-2484	2.7	3.7	3.7	4.0	4.3	3.0	2.0	3.0	2.0	2.0	3.0
G96-1170	2.3	2.3	2.0	2.0	3.0	2.3	2.0	2.0	1.7	1.3	2.1
G96-2272	1.3	1.0	2.0	1.0	2.0	2.0	2.0	2.0	1.0	1.3	1.6
G97-1417	1.3	2.0	1.7	1.7	2.0	2.0	1.7	2.0	1.3	1.0	1.7
N96-6809	1.7	2.0	2.0	1.0	2.0	1.3	1.7	2.3	1.0	1.0	1.6
N97-9599	2.3	2.7	3.3	2.0	3.0	2.3	2.0	2.0	1.0	1.3	2.2
N97-9658	2.0	1.7	2.0	2.0	2.7	2.0	1.3	1.7	1.0	1.0	1.7
N97-9827	3.0	3.0	3.3	4.0	4.0	2.7	3.0	3.3	1.7	4.0	3.2
N98-223	2.0	2.0	2.0	3.0	2.0	1.3	1.0	2.0	1.0	1.0	1.7
N98-479	1.7	2.3	2.7	2.0	3.0	3.3	2.3	2.3	1.3	2.0	2.3
SC94-1573	2.0	2.3	2.3	2.7	2.7	2.0	1.7	2.0	1.0	1.0	2.0
SC95-988	1.7	1.7	2.0	1.0	2.3	2.0	1.0	2.0	1.0	1.0	1.6
SC96-1476	2.0	2.7	2.0	2.7	2.3	2.3	2.0	2.0	1.0	1.7	2.1
SC96-1628	2.0	2.0	2.0	3.7	3.7	3.0	1.3	2.7	1.0	1.0	2.2
SC96-1688	2.0	1.7	2.0	2.7	3.3	2.7	2.0	2.0	1.0	2.0	2.1
SC97-259	1.7	2.0	2.3	2.0	2.7	2.0	1.7	2.0	1.0	3.3	2.1

TABLE 58 - Continued

	WEST
STRAIN/ VARIETY	BOSSIER CITY LA
BENNING	2.0
HASKELL	3.0
Au96-1693	2.7
G95-2484	3.7
G96-1170	2.0
G96-2272	1.7
G97-1417	2.0
N96-6809	2.7
N97-9599	2.3
N97-9658	1.3
N97-9827	2.3
N98-223	2.3
N98-479	2.7
SC94-1573	2.0
SC95-988	1.3
SC96-1476	2.3
SC96-1628	2.3
SC96-1688	2.0
SC97-259	2.3

TABLE 59 - SEED QUALITY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 2001

EAST

STRAIN/ VARIETY	CLINTON NC	JACKSON SPRINGS NC	MEAN
BENNING	2.0	2.0	2.0
HASKELL	2.0	2.0	2.0
Au96-1693	2.0	2.0	2.0
G95-2484	2.0	1.0	1.5
G96-1170	2.0	1.0	1.5
G96-2272	2.0	1.0	1.5
G97-1417	2.0	2.0	2.0
N96-6809	1.0	1.0	1.0
N97-9599	1.0	1.0	1.0
N97-9658	1.0	1.0	1.0
N97-9827	1.0	1.0	1.0
N98-223	1.0	1.0	1.0
N98-479	1.0	1.0	1.0
SC94-1573	1.0	1.0	1.0
SC95-988	1.0	1.0	1.0
SC96-1476	1.0	1.0	1.0
SC96-1628	2.0	1.0	1.5
SC96-1688	2.0	1.0	1.5
SC97-259	1.0	1.0	1.0

TABLE 59 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	CALHOUN GA	FAIRHOPE AL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	1.5	1.7	2.0	2.5	1.5	1.0	2.0	1.7
HASKELL	1.0	2.0	2.0	2.3	1.7	1.0	2.0	1.7
Au96-1693	1.5	1.7	1.3	2.3	1.5	1.3	1.3	1.6
G95-2484	1.5	2.0	2.0	2.5	1.8	1.0	2.0	1.8
G96-1170	1.5	1.0	2.3	2.3	2.0	1.0	2.7	1.8
G96-2272	1.5	1.7	1.7	2.3	1.5	1.0	1.0	1.5
G97-1417	1.5	1.3	1.7	1.7	1.5	1.0	1.7	1.5
N96-6809	1.5	1.7	1.7	2.8	1.7	1.0	2.7	1.9
N97-9599	1.5	2.0	2.7	2.8	1.7	1.0	2.7	2.0
N97-9658	1.7	1.3	2.0	2.5	1.7	1.7	1.7	1.8
N97-9827	1.5	2.0	2.0	2.7	1.7	1.3	2.3	1.9
N98-223	1.7	1.3	2.0	2.3	2.0	1.0	2.7	1.9
N98-479	1.5	2.0	2.3	2.8	1.8	1.3	2.7	2.1
SC94-1573	1.8	1.7	1.3	2.7	1.5	1.0	1.7	1.7
SC95-988	1.5	1.3	1.3	2.3	1.5	1.0	1.3	1.5
SC96-1476	1.5	1.7	1.3	1.8	1.5	1.0	1.3	1.5
SC96-1628	1.8	2.0	2.0	3.3	1.7	1.0	1.3	1.9
SC96-1688	1.5	2.0	1.7	3.2	1.7	1.3	2.0	1.9
SC97-259	1.5	1.7	1.7	2.0	1.5	1.0	1.3	1.5

PRELIMINARY GROUP VII

2001

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, 2001

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	CHECK	
2. HASKELL	CHECK	
3. Au97-17	SC88-2872 x D87-4429	F6
4. Au97-743	Boggs x G89-300	F6
5. Au97-785	Boggs x G89-300	F6
6. Au97-868	Boggs x G89-300	F6
7. Au97-886	Boggs x G89-300	F6
8. G98-1420	Boggs x Doles	F5d
9. G98-3157	Brim x D87-4429	F7d
10. G98-3167	Brim x D87-4429	F7d
11. G98-3474	Doles x Haskell	F7d
12. G98-3492	Doles x Haskell	F7d
13. G98-3520	Doles x Haskell	F7d
14. G98-5558	G89-146 x Cook	F7d
15. N97-9569	N90-7199 x COOK	F4
16. N97-9693	N90-7199 x COOK	F4
17. N97-9641	N90-7199 x COOK	F4
18. N98-7965	N90-7199 x NTCPR93-283	F4
19. N99-244	N90-516 x N90-845	F6
20. N99-294	N92-598 x Haskell	F6
21. N99-729	N93-1264 x D91-4759	F6
22. N99-732	N93-1264 x D91-4759	F6
23. N99-897	N90-516 x N90-845	F6
24. SC94-1573	NK'S S83-30 x BRYAN	
25. SC98-1017	SC89-147 x G93-9223	F5
26. SC98-1063	SC89-147 x G93-9223	F5
27. SC98-1181	G93-9009 x SC89-147	F5
28. SC98-318	HUTCHESON x SC89-551	F6
29. SC98-353	SC89-181 x DOLES	F6
30. SC98-81	HAGOOD5 x R88-1259	F3
31. SC98-888	SC89-147 x V88-1234	F5

TABLE 61 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VII, 2001 - MEAN OF 5 LOCATIONS

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT---- PROTEIN	OIL	STEM CANKER	SCN 2	SCN 3	SCN 14	FL COLOR	PUB. COLOR	POD COLOR
BENNING	41.4	10/17	1.7	36	1.6	14.4	39.6	21.5	R	.	1.0	5.0	P	T	T
HASKELL	40.2	2+	2.4	37	1.6	15.6	38.4-	20.7-	R	.	4.7	5.0	P	T	T
Au97-17	39.9	2+	2.3	37	1.6	12.9	38.9	19.4-	S	.	1.0	4.8	P	T	T
Au97-743	40.9	3+	1.3	36	1.6	14.0	40.6	20.4-	R	.	4.8	4.7	W	T	T
Au97-785	40.5	1+	1.5	33	1.6	12.7	39.2	20.8	R	.	4.5	4.9	P	T	T
Au97-868	40.0	0	1.2	33	1.6	14.7	39.4	20.7-	R	.	4.9	4.6	P	T	T
Au97-886	41.0	2+	1.6	37	1.6	13.4	40.5	20.6-	R	.	2.1	5.0	W	T	T
G98-1420	47.1	0	1.6	36	1.6	13.6	40.4	21.3	R	.	1.0	3.5	W	T	T
G98-3157	46.1	2+	2.2	41	1.4	15.1	39.8	19.8-	S	.	1.0	2.1	W	T	T
G98-3167	41.4	0	1.6	34	1.6	15.2	40.2	19.6-	S	.	1.0	1.4	W	T	BR
G98-3474	43.2	1-	1.8	31	1.6	12.4	41.1+	20.7-	S	.	1.0	3.7	W	T	T
G98-3492	43.7	2+	3.0	34	1.6	14.1	38.3-	20.5-	S	.	1.0	3.7	P	T	T
G98-3520	45.2	0	2.6	38	1.6	12.9	37.9-	20.5-	S	.	1.0	3.8	P	T	T
G98-5558	42.9	1-	2.4	33	1.6	13.2	40.8+	20.0-	R	.	1.0	1.2	P	T	T
N97-9569	41.0	3+	1.9	35	1.4	15.2	39.8	21.6	R	.	4.5	4.0	P	G	BR
N97-9693	41.2	2+	1.6	34	1.6	14.3	38.8	21.4	S	.	5.0	4.6	P	G	T
N97-9641	35.4-	2+	2.3	36	1.6	15.5	39.8	19.7-	R	.	5.0	4.8	P	T	T
N98-7965	37.8	1+	2.0	31	1.6	14.9	39.5	20.4-	S	.	4.3	4.3	P	G	T
N99-244	47.1	3+	1.2	27	1.4	14.6	39.6	21.7	S	.	5.0	4.9	P	G	T
N99-294	42.2	1+	1.7	33	1.6	15.4	38.3-	21.6	R	.	5.0	4.0	P	T	T
N99-729	39.0	0	1.4	33	1.6	14.7	42.9+	19.3-	R	.	5.0	4.2	W	G	T
N99-732	36.6	2+	1.8	39	1.6	14.1	42.7+	19.2-	MR	.	2.4	3.7	W	G	T
N99-897	44.8	0	1.4	27	1.4	13.9	37.9-	21.5	S	.	5.0	4.0	P	G	T
SC94-1573	39.9	2+	1.7	38	1.6	14.1	37.5-	20.0-	S	.	1.0	4.5	P	G	T
SC98-1017	41.0	1+	2.4	38	1.6	14.7	40.5	19.5-	R	.	1.0	2.5	W	T	T
SC98-1063	44.4	2+	1.9	36	1.6	13.5	39.9	20.2-	S	.	1.2	1.3	W	T	T
SC98-1181	40.4	3+	1.7	35	1.6	15.3	41.7+	19.4-	R	.	2.4	2.2	W	G	T
SC98-318	47.7+	1+	1.4	32	1.6	13.7	39.1	20.8	R	.	1.0	3.7	W	T	T
SC98-353	43.5	1+	1.6	32	1.6	11.1	40.0	21.0	R	.	1.1	3.6	W	T	T
SC98-81	41.3	3+	1.7	37	1.6	12.9	41.6+	19.2-	S	.	1.0	3.8	P	G	T
SC98-888	43.2	1+	1.9	37	1.6	13.9	39.1	20.6-	S	.	1.0	3.4	P	T	
OVERALL MEAN	41.9						39.8	20.4							
LSD (.05)	6.0						1.1	0.7							
C.V.	11%						2%	3%							

TABLE 62 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2001

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CLINTON NC	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	52.7	38.9	44.2	22.6	48.7	41.4
HASKELL	45.8	38.5	46.8	32.6+	37.1-	40.2
Au97-17	49.8	35.8	38.8	29.0	46.1	39.9
Au97-743	50.8	43.9	47.8	24.9	37.1-	40.9
Au97-785	47.8	36.7	51.7	24.6	41.6	40.5
Au97-868	41.6-	41.5	52.1	25.4	39.6-	40.0
Au97-886	50.1	40.2	49.6	20.9	44.3	41.0
G98-1420	54.2	39.9	53.1	37.9+	50.4	47.1
G98-3157	57.3	36.9	49.8	43.2+	43.2	46.1
G98-3167	50.5	32.9	36.1	36.4+	51.1	41.4
G98-3474	56.4	38.8	52.1	24.5	44.2	43.2
G98-3492	52.2	38.6	53.7	28.0	45.9	43.7
G98-3520	59.0	38.2	49.2	32.6+	47.0	45.2
G98-5558	54.7	35.8	48.2	30.0+	46.1	42.9
N97-9569	51.2	38.1	51.3	26.8	37.8-	41.0
N97-9693	39.7-	39.3	51.1	31.5+	44.4	41.2
N97-9641	43.0-	36.8	44.5	20.5	32.1-	35.4
N98-7965	54.3	28.1-	49.5	19.2	38.2-	37.8
N99-244	55.3	43.5	58.5+	33.6+	44.6	47.1
N99-294	45.1	34.7	56.9+	32.4+	41.7	42.2
N99-729	45.8	29.6-	50.9	32.1+	36.4-	39.0
N99-732	43.6	30.0	45.3	28.3	36.0-	36.6
N99-897	47.6	43.9	51.7	36.9+	43.9	44.8
SC94-1573	54.8	40.9	40.7	18.3	44.8	39.9
SC98-1017	50.7	33.4	48.4	32.0+	40.5-	41.0
SC98-1063	59.0	42.0	45.4	27.4	48.0	44.4
SC98-1181	53.5	36.7	41.1	25.2	45.7	40.4
SC98-318	58.7	44.8	57.1+	25.0	53.0	47.7+
SC98-353	55.8	39.7	49.6	25.7	46.9	43.5
SC98-81	55.4	28.6-	40.2	.	40.9-	41.3
SC98-888	54.7	36.5	50.9	23.9	50.2	43.2
L.S.D. (0.05)	9.3	8.9	10.8	6.6	7.6	6.0
C.V. (%)	8.9	11.6	10.9	11.7	8.5	11.3

TABLE 63 - OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2001

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CLINTON NC	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	22.0	21.4	20.8	19.9	23.2	21.5
HASKELL	20.6	20.1	20.0	21.0	21.8	20.7
Au97-17	18.7	18.8	19.3	20.0	20.3	19.4
Au97-743	20.4	20.2	20.1	20.5	20.7	20.4
Au97-785	20.6	20.6	20.4	20.6	21.7	20.8
Au97-868	20.8	20.9	20.2	20.1	21.4	20.7
Au97-886	20.5	20.5	19.9	19.8	22.2	20.6
G98-1420	21.2	20.8	21.0	21.8	21.6	21.3
G98-3157	18.8	19.0	19.1	21.8	20.5	19.8
G98-3167	19.1	18.8	19.0	20.1	21.1	19.6
G98-3474	20.5	21.3	20.0	20.5	21.1	20.7
G98-3492	20.4	19.8	19.7	20.9	21.8	20.5
G98-3520	20.3	20.0	19.4	21.2	21.7	20.5
G98-5558	20.3	20.0	19.5	19.6	20.8	20.0
N97-9569	21.2	21.1	21.0	21.6	23.2	21.6
N97-9693	21.0	21.7	20.1	21.5	22.7	21.4
N97-9641	19.8	19.7	18.9	19.3	20.9	19.7
N98-7965	20.3	20.0	19.6	20.1	22.2	20.4
N99-244	22.1	21.5	20.8	21.8	22.3	21.7
N99-294	20.6	20.6	20.9	23.1	22.9	21.6
N99-729	19.9	19.3	18.4	18.7	20.4	19.3
N99-732	18.9	19.9	18.4	18.3	20.5	19.2
N99-897	21.2	21.8	20.7	21.5	22.5	21.5
SC94-1573	19.4	19.7	19.8	20.4	20.8	20.0
SC98-1017	19.8	19.7	18.5	.	20.1	19.5
SC98-1063	20.0	20.0	19.5	20.6	20.8	20.2
SC98-1181	19.1	18.9	19.2	20.1	19.7	19.4
SC98-318	21.0	20.8	20.2	20.0	21.8	20.8
SC98-353	21.0	21.1	21.1	20.4	21.3	21.0
SC98-81	19.7	18.9	19.7	17.9	19.7	19.2
SC98-888	20.4	21.0	19.7	20.8	21.1	20.6

TABLE 64 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2001

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CLINTON NC	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	38.2	39.4	39.0	42.0	39.4	39.6
HASKELL	37.0	38.9	37.7	40.1	38.5	38.4
Au97-17	38.7	39.0	37.4	40.6	39.0	38.9
Au97-743	41.3	39.7	39.5	41.3	41.0	40.6
Au97-785	39.8	39.0	37.3	40.9	39.2	39.2
Au97-868	38.6	39.1	38.5	41.9	39.0	39.4
Au97-886	40.1	40.5	39.8	42.9	39.4	40.5
G98-1420	39.3	41.9	38.3	41.4	41.0	40.4
G98-3157	39.7	40.0	39.6	39.8	40.0	39.8
G98-3167	39.0	40.7	39.9	42.1	39.4	40.2
G98-3474	40.1	40.2	40.0	43.5	41.6	41.1
G98-3492	38.3	38.9	36.8	40.2	37.4	38.3
G98-3520	37.9	37.5	37.5	38.6	38.0	37.9
G98-5558	39.3	40.2	39.7	43.0	41.6	40.8
N97-9569	38.7	40.3	39.9	41.3	38.8	39.8
N97-9693	37.8	38.2	39.2	40.6	38.0	38.8
N97-9641	39.2	40.3	38.8	42.1	38.7	39.8
N98-7965	38.5	39.7	39.3	42.8	37.2	39.5
N99-244	38.4	40.2	39.3	40.1	40.2	39.6
N99-294	38.6	39.2	37.4	39.1	37.2	38.3
N99-729	41.5	43.7	41.4	45.5	42.5	42.9
N99-732	42.1	42.4	42.0	44.7	42.1	42.7
N99-897	38.2	37.9	37.8	38.2	37.6	37.9
SC94-1573	36.9	36.9	35.5	40.1	37.9	37.5
SC98-1017	39.1	40.6	41.6	.	40.8	40.5
SC98-1063	39.4	39.8	39.4	41.5	39.6	39.9
SC98-1181	41.7	42.2	41.6	41.6	41.5	41.7
SC98-318	38.3	39.0	38.5	40.6	38.9	39.1
SC98-353	39.0	38.7	40.9	41.5	39.8	40.0
SC98-81	40.0	40.5	39.1	46.8	41.8	41.6
SC98-888	38.5	38.5	37.9	41.2	39.6	39.1

TABLE 65 - SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2001

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CLINTON NC	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	16.9	15.3	14.9	10.1	15.1	14.4
HASKELL	16.9	17.2	14.8	12.8	16.4	15.6
Au97-17	14.7	13.9	11.5	10.4	14.1	12.9
Au97-743	16.2	14.1	13.8	11.8	13.9	14.0
Au97-785	15.2	13.3	12.3	10.0	12.7	12.7
Au97-868	16.9	14.7	14.7	12.6	14.4	14.7
Au97-886	14.9	14.5	12.5	10.7	14.3	13.4
G98-1420	16.9	13.9	12.7	10.3	14.2	13.6
G98-3157	16.8	16.2	14.3	13.4	14.7	15.1
G98-3167	17.9	17.0	13.9	12.0	15.4	15.2
G98-3474	14.9	12.3	12.2	8.9	13.6	12.4
G98-3492	14.7	15.9	13.7	11.5	14.9	14.1
G98-3520	14.8	13.8	12.3	10.4	13.4	12.9
G98-5558	16.0	14.1	12.6	11.6	11.9	13.2
N97-9569	17.8	16.1	15.2	12.3	14.4	15.2
N97-9693	16.8	15.6	13.0	12.3	14.0	14.3
N97-9641	16.9	16.3	14.0	12.5	17.9	15.5
N98-7965	18.3	17.0	14.8	10.9	13.7	14.9
N99-244	16.8	15.2	13.9	12.3	15.0	14.6
N99-294	16.5	16.4	16.7	12.2	15.4	15.4
N99-729	17.5	16.3	13.5	12.7	13.6	14.7
N99-732	16.8	15.3	12.7	11.4	14.4	14.1
N99-897	15.9	14.1	13.1	11.8	14.6	13.9
SC94-1573	17.1	16.0	12.8	10.5	14.1	14.1
SC98-1017	16.0	15.8	12.8	.	14.1	14.7
SC98-1063	15.5	14.1	12.6	10.9	14.3	13.5
SC98-1181	19.0	17.0	14.2	12.4	13.8	15.3
SC98-318	15.7	14.0	12.8	10.5	15.3	13.7
SC98-353	12.5	10.5	10.7	9.5	12.4	11.1
SC98-81	14.8	14.4	12.0	9.5	13.8	12.9
SC98-888	16.7	15.3	13.1	10.5	14.0	13.9

TABLE 66 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2001

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CLINTON NC	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	38	39	27	34	41	36
HASKELL	41	39	28	36	42	37
Au97-17	39	41	28	40	40	37
Au97-743	38	39	28	38	38	36
Au97-785	36	35	27	30	38	33
Au97-868	34	35	27	36	35	33
Au97-886	42	39	28	36	41	37
G98-1420	40	38	23	38	44	36
G98-3157	42	44	35	36	46	41
G98-3167	36	37	27	30	41	34
G98-3474	32	33	26	26	37	31
G98-3492	26	41	30	32	41	34
G98-3520	41	37	30	40	42	38
G98-5558	33	34	29	32	39	33
N97-9569	42	39	26	30	39	35
N97-9693	37	32	30	30	40	34
N97-9641	41	39	26	32	44	36
N98-7965	35	36	26	24	35	31
N99-244	32	29	20	24	32	27
N99-294	32	36	27	34	38	33
N99-729	34	35	30	28	40	33
N99-732	40	44	34	36	43	39
N99-897	31	32	25	14	33	27
SC94-1573	40	43	26	36	44	38
SC98-1017	44	38	30	34	43	38
SC98-1063	40	41	26	30	42	36
SC98-1181	38	38	24	30	44	35
SC98-318	37	34	25	32	35	32
SC98-353	35	33	24	32	36	32
SC98-81	41	38	31	36	40	37
SC98-888	41	42	30	34	41	37

TABLE 67 - LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2001

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CLINTON NC	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	1.5	2.5	1.5	2.0	1.0	1.7
HASKELL	2.5	4.0	1.5	2.0	2.0	2.4
Au97-17	2.5	3.0	1.0	2.0	3.0	2.3
Au97-743	1.5	1.0	1.0	2.0	1.0	1.3
Au97-785	2.0	1.5	1.0	2.0	1.0	1.5
Au97-868	1.0	1.0	1.0	2.0	1.0	1.2
Au97-886	2.0	2.0	1.0	2.0	1.0	1.6
G98-1420	2.0	2.0	1.0	2.0	1.0	1.6
G98-3157	2.5	2.0	1.5	3.0	2.0	2.2
G98-3167	1.5	2.0	1.0	2.0	1.5	1.6
G98-3474	3.0	2.0	1.0	2.0	1.0	1.8
G98-3492	5.0	4.0	1.0	2.0	3.0	3.0
G98-3520	3.0	3.0	2.0	2.0	3.0	2.6
G98-5558	2.5	3.0	1.5	2.0	3.0	2.4
N97-9569	2.5	2.5	1.0	2.0	1.5	1.9
N97-9693	2.0	2.0	1.0	2.0	1.0	1.6
N97-9641	3.0	3.5	1.0	2.0	2.0	2.3
N98-7965	2.0	3.5	1.0	2.0	1.5	2.0
N99-244	1.0	1.0	1.0	2.0	1.0	1.2
N99-294	2.0	2.5	1.0	2.0	1.0	1.7
N99-729	1.5	1.5	1.0	2.0	1.0	1.4
N99-732	2.0	2.5	1.0	2.0	1.5	1.8
N99-897	1.5	1.0	1.5	2.0	1.0	1.4
SC94-1573	2.0	2.0	1.0	2.0	1.5	1.7
SC98-1017	2.0	4.0	1.5	2.0	2.5	2.4
SC98-1063	2.5	2.5	1.0	2.0	1.5	1.9
SC98-1181	2.0	2.0	1.0	2.0	1.5	1.7
SC98-318	1.5	1.5	1.0	2.0	1.0	1.4
SC98-353	2.0	2.0	1.0	2.0	1.0	1.6
SC98-81	2.0	2.0	1.0	2.0	1.5	1.7
SC98-888	2.0	3.0	1.0	2.0	1.5	1.9

TABLE 68 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 2001

STRAIN/ VARIETY	ATHENS GA	CLINTON NC	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	1.5	2.0	2.0	1.0	1.6
HASKELL	1.5	2.0	2.0	1.0	1.6
Au97-17	1.5	2.0	2.0	1.0	1.6
Au97-743	1.5	2.0	2.0	1.0	1.6
Au97-785	1.5	2.0	2.0	1.0	1.6
Au97-868	1.5	2.0	2.0	1.0	1.6
Au97-886	1.5	2.0	2.0	1.0	1.6
G98-1420	1.5	2.0	2.0	1.0	1.6
G98-3157	1.5	1.0	2.0	1.0	1.4
G98-3167	1.5	2.0	2.0	1.0	1.6
G98-3474	1.5	2.0	2.0	1.0	1.6
G98-3492	1.5	2.0	2.0	1.0	1.6
G98-3520	1.5	2.0	2.0	1.0	1.6
G98-5558	1.5	2.0	2.0	1.0	1.6
N97-9569	1.5	1.0	2.0	1.0	1.4
N97-9693	1.5	2.0	2.0	1.0	1.6
N97-9641	1.5	2.0	2.0	1.0	1.6
N98-7965	1.5	2.0	2.0	1.0	1.6
N99-244	1.5	1.0	2.0	1.0	1.4
N99-294	1.5	2.0	2.0	1.0	1.6
N99-729	1.5	2.0	2.0	1.0	1.6
N99-732	1.5	2.0	2.0	1.0	1.6
N99-897	1.5	1.0	2.0	1.0	1.4
SC94-1573	1.5	2.0	2.0	1.0	1.6
SC98-1017	1.5	2.0	2.0	1.0	1.6
SC98-1063	1.5	2.0	2.0	1.0	1.6
SC98-1181	1.5	2.0	2.0	1.0	1.6
SC98-318	1.5	2.0	2.0	1.0	1.6
SC98-353	1.5	2.0	2.0	1.0	1.6
SC98-81	1.5	2.0	2.0	1.0	1.6
SC98-888	1.5	2.0	2.0	1.0	1.6

UNIFORM GROUP VIII

2001

Uniform Group VIII nurseries were planted in 12 locations. Data were obtained from 9 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, 2001

	STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1.	COOK	CHECK	
2.	PRICHARD	CHECK	
3.	Au94-863	Au87-727 x Cook	F6
4.	G96-1797	G86-1434 x Cook	F6d
5.	G97-1387	Doles x D87-4429	F6d
6.	G97-1419	Doles x D87-4429	F6d
7.	G97-2449	G89-375 x Haskell	F6d
8.	N96-6752	N91-7202 x N90-7199	F4
9.	N97-10074	N90-7199 x N91-8005	F4
10.	N97-9612	N90-7199 x COOK	F4
11.	N97-9636	N90-7199 x COOK	F4
12.	N97-9783	N90-7199 x N91-7254	F4
13.	N97-984	N90-541 x N90-1101	F6
14.	SC95-771	COKER 6847 x MANOKIN	F5
15.	SC96-1574	SC89-181 x NK’S S75-55	F5
16.	SC96-2736	HAGOOD x SC84-931	F5
17.	SC97-1746	NK'S S83-30 x (HUTCHESON x D87-4429)	F5
18.	SC97-1764	NK'S S83-30 x (HUTCHESON x D87-4429)	F5

TABLE 70 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2001

STRAIN/	YIELD✳			PROTEIN			OIL		
VARIETY	2001	00-01	99-01	2001	00-01	99-01	2001	00-01	99-01
COOK	42.6	40.4	42.5	40.7	41.6	42.1	20.1	19.6	19.4
PRICHARD	45.7	43.7	45.1	39.8	40.9	41.6	19.8	19.2	19.2
Au94-863	47.7	45.4	46.3	40.2	41.0	41.4	20.5	20.3	20.3
G96-1797	42.0	41.7	.	40.4	41.3	.	20.0	19.5	.
G97-1387	47.1	.	.	40.3	.	.	20.0	.	.
G97-1419	43.2	.	.	39.3	.	.	20.5	.	.
G97-2449	44.0	.	.	38.1	.	.	21.5	.	.
N96-6752	47.2	42.7	.	38.7	39.5	.	21.0	20.5	.
N97-10074	45.8	.	.	37.7	.	.	21.9	.	.
N97-9612	50.0	.	.	40.3	.	.	19.9	.	.
N97-9636	44.6	.	.	38.3	.	.	20.7	.	.
N97-9783	43.1	.	.	39.7	.	.	21.4	.	.
N97-984	43.2	42.2	.	41.7	41.3	.	19.3	20.2	.
SC95-771	45.5	43.3	44.6	38.7	39.8	40.2	20.6	19.9	19.9
SC96-1574	45.6	43.7	.	38.2	39.2	.	20.9	20.3	.
SC96-2736	44.7	42.5	.	40.8	41.5	.	20.0	19.6	.
SC97-1746	45.2	.	.	40.4	.	.	20.5	.	.
SC97-1764	44.6	.	.	40.0	.	.	20.5	.	.

✳Data not included in mean: 2001 - Florence, SC; Clinton, NC; Tallassee, AL(L)

TABLE 70 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
COOK	.	10/22	2.0	37	1.8	13.2	.	.
PRICHARD	.	11+	2.8	39	1.6	12.3	.	.
Au94-863	.	3+	2.9	38	1.6	13.9	.	.
G96-1797	.	2+	1.9	40	1.6	13.8	.	.
G97-1387	.	3+	3.0	35	1.6	12.5	.	.
G97-1419	.	0	3.2	37	1.5	11.1	.	.
G97-2449	.	1+	2.6	38	1.3	13.2	.	.
N96-6752	.	0	1.9	32	1.7	12.3	.	.
N97-10074	.	1-	1.7	32	1.7	12.8	.	.
N97-9612	.	0	2.1	37	1.8	13.2	.	.
N97-9636	.	4+	2.1	36	1.8	12.8	.	.
N97-9783	.	2+	2.6	32	1.7	13.5	.	.
N97-984	.	1+	2.6	41	1.9	14.0	.	.
SC95-771	.	1+	2.3	39	1.5	11.4	.	.
SC96-1574	.	0	2.3	39	1.6	12.6	.	.
SC96-2736	.	1+	1.9	39	1.5	12.3	.	.
SC97-1746	.	2+	1.8	38	1.6	13.7	.	.
SC97-1764	.	0	1.4	41	1.6	14.6	.	.

TABLE 70 - Continued

PEST REACTIONS

STRAIN/ VARIETY	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV	STEM CANKER	SDS DX	FELS
COOK	.	1.2	4.4	2.8	3.5	R	R	.	.
PRICHARD	.	1.0	2.3	1.0	3.3	R	R	.	.
Au94-863	.	1.6	2.1	3.0	1.8	R	R	.	.
G96-1797	.	1.3	4.6	1.3	2.5	R	S	.	.
G97-1387	.	1.0	4.9	1.0	1.5	R	S	.	.
G97-1419	.	1.1	5.0	1.0	4.5	R	S	.	.
G97-2449	.	4.6	5.0	2.0	2.5	S	R	.	.
N96-6752	.	4.6	4.9	4.0	2.5	R	S	.	.
N97-10074	.	4.8	5.0	3.5	3.5	R	R	.	.
N97-9612	.	4.9	4.4	2.8	4.8	R	S	.	.
N97-9636	.	5.0	4.9	4.0	3.8	R	R	.	.
N97-9783	.	4.7	4.8	2.5	2.3	R	S	.	.
N97-984	.	4.7	5.0	4.8	3.0	R	R	.	.
SC95-771	.	1.3	5.0	1.0	2.0	S	R	.	.
SC96-1574	.	1.2	3.2	2.0	3.8	R	R	.	.
SC96-2736	.	1.3	5.0	1.5	3.5	R	S	.	.
SC97-1746	.	1.0	5.0	1.3	2.8	R	R	.	.
SC97-1764	.	1.1	4.7	1.8	2.8	R	R	.	.

TABLE 71 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2001

EAST

STRAIN/ VARIETY	CLINTON✳ NC	FLORENCE✳ SC	JACKSON SPRINGS NC	MEAN
COOK	34.5	11.2	33.5	33.5
PRICHARD	37.4	12.3	35.7	35.7
Au94-863	43.8	12.2	36.9	36.9
G96-1797	44.5	13.0	28.3	28.3
G97-1387	36.1	13.8	31.2	31.2
G97-1419	33.3	11.2	32.5	32.5
G97-2449	42.5	12.1	28.1	28.1
N96-6752	51.9	11.8	35.9	35.9
N97-10074	36.4	10.7	30.3	30.3
N97-9612	46.1	12.7	36.7	36.7
N97-9636	32.5	10.7	31.6	31.6
N97-9783	37.7	12.7	33.5	33.5
N97-984	46.8	10.9	30.3	30.3
SC95-771	46.2	15.9	34.0	34.0
SC96-1574	35.8	14.9	33.0	33.0
SC96-2736	35.7	18.8	31.1	31.1
SC97-1746	40.3	15.6	31.0	31.0
SC97-1764	38.6	13.1	28.4	28.4
L.S.D. (0.05)	15.4	2.8	6.2	.
C.V. (%)	23.2	12.9	11.6	.

✳Data not included in mean.

TABLE 71 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC(B)	CLEMSON SC	FAIRHOPE AL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE❊ AL(L)	TIFTON GA	MEAN
COOK	45.3	39.6	47.1	58.2	35.8	36.5	34.5	18.0	53.2	43.8
PRICHARD	52.1	41.5	39.0	60.0	34.9	48.9	46.3	35.1	53.2	47.0
Au94-863	51.1	43.6	46.8	58.8	45.3	43.0	43.6	30.4	60.1	49.0
G96-1797	52.0	42.4	44.0	61.1	30.0	27.1	38.6	43.3	54.4	43.7
G97-1387	61.4	42.0	47.3	60.7	44.2	42.1	39.5	31.9	55.9	49.1
G97-1419	54.3	39.8	44.9	54.9	37.6	41.8	34.1	33.3	48.8	44.5
G97-2449	57.2	40.7	45.7	58.1	36.2	47.5	31.0	35.9	51.3	46.0
N96-6752	60.2	48.1	48.5	62.2	34.7	50.5	31.9	36.7	53.1	48.7
N97-10074	59.9	45.1	48.0	58.1	35.8	44.8	34.6	29.7	55.2	47.7
N97-9612	60.1	45.1	46.6	64.5	43.3	55.5	38.0	34.3	60.2	51.7
N97-9636	60.5	43.7	49.3	62.7	27.9	48.1	31.5	32.9	46.1	46.2
N97-9783	53.6	36.3	41.3	52.8	40.8	47.1	31.7	36.4	50.9	44.3
N97-984	55.2	38.2	41.1	52.8	35.0	53.7	33.5	31.8	49.2	44.8
SC95-771	51.0	44.1	47.8	59.5	33.9	42.9	42.6	38.5	54.0	47.0
SC96-1574	58.9	35.7	40.6	62.9	40.1	36.6	49.6	31.7	53.4	47.2
SC96-2736	52.7	41.9	42.8	58.6	36.8	42.7	43.2	36.3	52.2	46.4
SC97-1746	60.0	41.1	48.2	56.5	36.3	33.9	50.3	34.2	49.8	47.0
SC97-1764	59.6	33.6	46.1	57.9	35.4	42.9	48.3	36.2	49.2	46.6
L.S.D. (0.05)	7.5	4.7	7.5	6.0	6.8	9.9	7.1	11.6	6.7	.
C.V. (%)	8.1	6.9	10.0	6.1	11.2	13.6	11.0	20.7	7.7	.

❊Data not included in mean.

TABLE 72 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2001

OIL PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC(B)	CLEMSON SC	CLINTON❊ NC	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE❊ AL(L)	TIFTON GA	MEAN
COOK	19.8	.	20.0	19.3	20.1	.	20.6	19.5	20.5	20.4	19.8	.	20.1
PRICHARD	19.2	.	19.1	19.3	20.0	.	20.0	19.6	20.7	20.2	20.8	.	19.8
Au94-863	20.3	.	19.9	20.1	20.6	.	20.5	21.0	20.7	20.8	20.8	.	20.5
G96-1797	20.1	.	20.2	19.1	19.0	.	19.5	20.4	20.1	20.6	19.5	.	20.0
G97-1387	19.8	.	19.1	19.6	20.7	.	19.7	19.4	20.8	20.3	20.2	.	20.0
G97-1419	20.5	.	19.4	19.1	20.4	.	20.2	20.5	21.3	20.9	20.1	.	20.5
G97-2449	20.7	.	20.8	20.4	22.3	.	21.5	21.8	21.0	22.6	22.4	.	21.5
N96-6752	20.5	.	20.3	19.5	20.8	.	20.4	21.2	22.5	21.1	21.3	.	21.0
N97-10074	21.6	.	20.7	21.1	22.4	.	21.0	22.2	23.0	22.7	22.4	.	21.9
N97-9612	19.8	.	19.2	19.3	19.9	.	19.9	19.1	20.7	20.6	19.9	.	19.9
N97-9636	20.2	.	19.8	19.3	21.1	.	21.2	19.8	21.5	21.5	20.7	.	20.7
N97-9783	21.0	.	20.6	20.5	21.2	.	21.2	21.2	21.9	22.7	22.0	.	21.4
N97-984	19.5	.	18.8	18.7	19.6	.	19.1	17.9	20.0	19.9	21.1	.	19.3
SC95-771	20.5	.	19.6	19.9	20.6	.	20.4	20.3	21.1	21.6	20.8	.	20.6
SC96-1574	20.5	.	19.9	19.8	21.3	.	20.7	20.9	21.2	21.6	20.3	.	20.9
SC96-2736	19.7	.	19.5	20.1	20.1	.	19.9	19.8	20.2	20.9	20.0	.	20.0
SC97-1746	20.8	.	19.9	20.2	20.7	.	19.8	20.1	20.8	21.5	21.7	.	20.5
SC97-1764	21.1	.	19.4	20.3	20.6	.	20.6	19.5	21.0	21.6	20.8	.	20.5

❊Data not included in mean.

TABLE 72 - Continued

PROTEIN PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC(B)	CLEMSON SC	CLINTON❊ NC	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE❊ AL(L)	TIFTON GA	MEAN
COOK	40.2	.	40.9	39.8	41.2	.	38.8	42.6	39.5	41.5	41.9	.	40.7
PRICHARD	39.1	.	40.3	40.4	42.1	.	37.6	41.7	38.1	39.8	39.6	.	39.8
Au94-863	39.8	.	40.8	39.7	41.2	.	37.9	41.2	40.2	40.3	40.7	.	40.2
G96-1797	38.7	.	44.3	40.9	42.4	.	38.1	41.6	38.7	39.3	41.3	.	40.4
G97-1387	40.2	.	40.7	39.2	40.8	.	38.6	42.0	39.7	40.4	41.6	.	40.3
G97-1419	38.3	.	39.6	40.1	41.1	.	38.1	40.9	37.9	38.9	41.4	.	39.3
G97-2449	38.9	.	38.8	38.6	38.0	.	35.9	38.3	39.5	37.4	37.3	.	38.1
N96-6752	39.8	.	40.0	39.5	39.1	.	37.2	38.5	36.7	39.6	39.6	.	38.7
N97-10074	37.6	.	39.7	37.4	37.4	.	37.3	38.5	36.1	37.5	38.8	.	37.7
N97-9612	40.5	.	41.3	39.5	40.6	.	37.6	42.3	39.0	40.5	41.5	.	40.3
N97-9636	38.3	.	40.2	39.5	39.0	.	35.4	40.4	36.7	37.8	39.6	.	38.3
N97-9783	39.9	.	41.0	39.9	40.5	.	38.1	40.5	39.3	38.5	39.9	.	39.7
N97-984	41.3	.	42.6	42.0	41.7	.	39.9	44.3	40.6	41.8	40.5	.	41.7
SC95-771	36.4	.	40.2	38.5	39.9	.	37.6	40.6	38.0	37.9	39.5	.	38.7
SC96-1574	37.2	.	39.2	37.8	39.1	.	36.8	40.5	36.6	38.2	40.7	.	38.2
SC96-2736	39.8	.	41.4	39.5	41.8	.	39.5	42.4	39.8	40.6	42.3	.	40.8
SC97-1746	38.9	.	41.3	40.1	40.3	.	40.2	42.8	39.5	40.1	40.0	.	40.4
SC97-1764	38.5	.	41.9	39.9	40.1	.	38.3	42.8	39.0	39.4	41.4	.	40.0

❊**Data not included in mean.**

TABLE 72 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC(B)	CLEMSON SC	CLINTON NC	FAIRHOPE AL	FLORENCE✳ SC	JACKSON SPRINGS NC	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE✳ AL(L)	TIFTON GA	MEAN
COOK	14.4	14.1	15.3	.	19.3	15.9	.	13.5	12.8	14.4	15.2	17.0	15.1
PRICHARD	13.0	12.6	13.9	.	18.0	14.7	.	13.9	12.0	13.7	11.5	14.0	13.9
Au94-863	15.4	14.8	15.6	.	19.1	16.8	.	14.7	14.3	15.4	13.9	17.0	15.8
G96-1797	14.5	14.8	16.0	.	21.7	17.7	.	13.7	13.4	14.7	13.7	18.0	15.9
G97-1387	14.6	13.3	13.2	.	17.3	16.3	.	12.6	12.9	14.5	11.9	14.0	14.1
G97-1419	12.2	12.0	12.2	.	15.4	13.8	.	11.1	11.8	13.0	10.2	12.0	12.5
G97-2449	14.3	15.5	14.5	.	17.2	16.6	.	14.3	14.0	14.7	13.0	14.0	14.8
N96-6752	14.2	13.6	13.8	.	17.4	13.9	.	12.0	13.1	13.2	12.7	14.0	13.9
N97-10074	14.9	13.9	14.4	.	18.2	14.5	.	13.7	12.5	13.9	13.4	13.0	14.3
N97-9612	14.5	14.2	15.5	.	17.9	15.5	.	13.1	14.5	14.1	14.0	17.0	15.1
N97-9636	13.7	14.1	15.1	.	19.0	14.3	.	12.1	13.1	13.7	13.2	14.0	14.4
N97-9783	14.5	14.7	13.9	.	20.0	15.6	.	12.7	15.0	15.3	13.9	17.0	15.4
N97-984	15.5	15.7	16.4	.	20.5	17.3	.	13.2	14.0	14.5	14.0	18.0	16.0
SC95-771	11.8	12.2	11.9	.	16.5	15.9	.	13.1	11.8	12.3	10.6	15.0	13.1
SC96-1574	13.4	12.9	13.9	.	18.4	16.9	.	12.7	13.0	14.9	12.1	16.0	14.4
SC96-2736	13.9	13.3	13.8	.	16.7	14.0	.	13.5	11.8	13.8	11.9	14.0	13.9
SC97-1746	15.6	15.1	15.5	.	18.8	18.5	.	13.7	11.9	17.2	14.9	17.0	15.6
SC97-1764	16.2	15.7	16.3	.	21.1	18.4	.	14.3	14.3	17.4	14.3	18.0	16.7

✳Data not included in mean.

TABLE 73: - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN COOK, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2001

EAST

STRAIN/ VARIETY	CLINTON✳ NC	FLORENCE✳ SC	JACKSON SPRINGS NC	MEAN
COOK	10/22	10/25	10/25	10/25
PRICHARD	4	2	36	36
Au94-863	0	1	4	4
G96-1797	4	1	2	2
G97-1387	4	1	2	2
G97-1419	0	1	-1	-1
G97-2449	0	1	4	4
N96-6752	0	-1	-1	-1
N97-10074	2	-1	-1	-1
N97-9612	0	-1	-1	-1
N97-9636	2	1	4	4
N97-9783	4	0	-1	-1
N97-984	2	0	-2	-2
SC95-771	0	1	1	1
SC96-1574	4	2	0	0
SC96-2736	0	0	-1	-1
SC97-1746	0	2	4	4
SC97-1764	0	1	-1	-1

✳**Data not included in mean.**

TABLE 73 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC(B)	CLEMSON SC	FAIRHOPE AL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE❊ AL(L)	TIFTON GA	MEAN
COOK	10/21	10/22	10/26	10/21	.	.	10/16	10/21	10/20	10/21
PRICHARD	6	7	9	8	.	.	8	3	2	7
Au94-863	4	5	3	1	.	.	4	0	2	3
G96-1797	1	3	3	2	.	.	2	0	1	2
G97-1387	4	4	7	0	.	.	5	0	-1	3
G97-1419	1	2	2	-1	.	.	4	0	-4	1
G97-2449	2	1	3	-2	.	.	2	0	-4	0
N96-6752	1	1	2	1	.	.	1	-1	0	1
N97-10074	2	-2	2	0	.	.	0	-2	-4	0
N97-9612	2	1	0	0	.	.	3	0	-3	1
N97-9636	5	3	5	6	.	.	6	2	3	5
N97-9783	4	4	1	4	.	.	3	0	1	3
N97-984	2	2	2	1	.	.	1	-1	5	2
SC95-771	1	3	2	1	.	.	2	1	-2	1
SC96-1574	0	1	3	-1	.	.	3	1	-2	1
SC96-2736	3	2	2	-1	.	.	4	0	-1	1
SC97-1746	3	2	3	-1	.	.	6	2	0	2
SC97-1764	1	1	4	-1	.	.	1	1	-1	1

❊**Data not included in mean.**

TABLE 74 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2001

EAST

STRAIN/ VARIETY	CLINTON* NC	FLORENCE* SC	JACKSON SPRINGS NC	MEAN
COOK	29	26	35	35
PRICHARD	30	23	37	37
Au94-863	29	26	37	37
G96-1797	32	26	40	40
G97-1387	26	26	35	35
G97-1419	27	26	36	36
G97-2449	29	25	35	35
N96-6752	26	22	30	30
N97-10074	24	21	31	31
N97-9612	28	26	36	36
N97-9636	25	21	32	32
N97-9783	24	24	31	31
N97-984	35	27	40	40
SC95-771	26	26	40	40
SC96-1574	28	25	36	36
SC96-2736	27	26	40	40
SC97-1746	26	26	35	35
SC97-1764	27	23	38	38

***Data not included in mean.**

TABLE 74 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC(B)	CLEMSON SC	FAIRHOPE AL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE❊ AL(L)	TIFTON GA	MEAN
COOK	29	35	40	34	37	40	42	21	35	37
PRICHARD	32	40	42	38	41	39	41	27	39	39
Au94-863	35	41	39	34	33	45	45	29	34	38
G96-1797	37	44	42	33	41	40	45	32	38	40
G97-1387	31	35	38	32	37	40	36	26	31	35
G97-1419	33	39	39	33	39	39	39	28	35	37
G97-2449	34	41	41	33	37	42	42	28	37	39
N96-6752	31	34	39	27	29	35	35	25	31	33
N97-10074	29	35	38	28	28	35	38	22	30	33
N97-9612	34	39	38	35	35	42	43	28	35	38
N97-9636	31	38	42	30	34	37	43	25	35	36
N97-9783	29	33	34	29	29	37	38	22	31	33
N97-984	35	41	44	37	44	46	44	27	37	41
SC95-771	32	39	42	33	41	45	43	24	40	39
SC96-1574	34	40	40	37	39	42	41	26	37	39
SC96-2736	32	42	41	34	40	43	45	27	38	39
SC97-1746	34	39	39	35	40	39	40	23	41	38
SC97-1764	36	41	47	38	40	40	45	26	41	41

❊Data not included in mean.

TABLE 75 - LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2001

EAST

STRAIN/ VARIETY	CLINTON✳ NC	FLORENCE✳ SC	JACKSON SPRINGS NC	MEAN
COOK	1.0	1.0	1.7	1.7
PRICHARD	1.0	1.0	2.0	2.0
Au94-863	1.3	1.0	2.7	2.7
G96-1797	1.3	1.0	1.7	1.7
G97-1387	1.0	1.0	2.3	2.3
G97-1419	1.0	1.0	2.0	2.0
G97-2449	1.3	1.0	2.0	2.0
N96-6752	1.0	1.0	2.0	2.0
N97-10074	1.0	1.0	2.0	2.0
N97-9612	1.0	1.0	1.7	1.7
N97-9636	1.0	1.0	1.7	1.7
N97-9783	1.0	1.0	2.3	2.3
N97-984	2.0	1.0	2.3	2.3
SC95-771	1.0	1.0	2.0	2.0
SC96-1574	1.3	1.0	1.7	1.7
SC96-2736	1.0	1.0	1.7	1.7
SC97-1746	1.0	1.0	1.7	1.7
SC97-1764	1.0	1.0	1.0	1.0

✳**Data not included in mean.**

TABLE 75 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC(B)	CLEMSON SC	FAIRHOPE AL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE❊ AL(L)	TIFTON GA	MEAN
COOK	1.7	2.3	2.7	2.3	1.7	2.0	1.0	1.0	2.7	2.0
PRICHARD	1.7	3.3	4.3	3.0	2.0	2.3	2.3	1.0	4.3	2.9
Au94-863	2.0	3.7	4.0	3.0	2.3	2.3	2.7	1.0	3.7	3.0
G96-1797	2.0	2.3	2.7	2.0	1.3	1.7	1.7	1.0	1.3	1.9
G97-1387	3.3	3.3	3.7	2.7	2.0	2.3	2.7	1.0	5.0	3.1
G97-1419	3.3	4.0	4.0	2.7	2.0	2.7	3.0	1.0	5.0	3.3
G97-2449	2.3	3.0	3.7	2.0	2.0	2.7	2.0	1.0	3.7	2.7
N96-6752	2.0	2.3	3.0	1.3	1.3	2.0	1.0	1.0	2.3	1.9
N97-10074	2.3	1.7	2.7	1.7	1.0	2.0	1.0	1.0	1.0	1.7
N97-9612	2.0	2.3	2.7	2.3	1.3	2.0	2.0	1.0	2.3	2.1
N97-9636	1.7	2.7	2.7	2.3	1.0	2.0	1.3	1.0	3.7	2.2
N97-9783	2.7	3.0	3.3	2.7	1.7	2.7	1.3	1.0	3.7	2.6
N97-984	2.3	2.3	3.7	3.0	2.0	3.3	1.0	1.0	3.7	2.7
SC95-771	1.7	3.3	3.7	2.0	2.0	2.0	1.7	1.0	2.3	2.3
SC96-1574	2.0	2.3	4.3	2.3	1.7	2.0	1.3	1.0	2.7	2.3
SC96-2736	2.0	2.0	2.3	2.3	1.3	2.0	1.0	1.0	2.3	1.9
SC97-1746	2.0	2.0	2.0	1.7	1.3	1.7	1.7	1.0	2.3	1.8
SC97-1764	1.0	1.7	2.7	1.3	1.3	1.7	1.0	1.0	1.3	1.5

❊Data not included in mean.

TABLE 76 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 2001

EAST

STRAIN/ VARIETY	CLINTON* NC	JACKSON SPRINGS NC	MEAN
COOK	2.0	2.0	2.0
PRICHARD	1.0	1.0	1.0
Au94-863	2.0	1.0	1.0
G96-1797	2.0	1.0	1.0
G97-1387	2.0	1.0	1.0
G97-1419	2.0	1.0	1.0
G97-2449	2.0	1.0	1.0
N96-6752	2.0	1.0	1.0
N97-10074	1.0	1.0	1.0
N97-9612	1.0	2.0	2.0
N97-9636	1.0	1.0	1.0
N97-9783	2.0	1.0	1.0
N97-984	2.0	1.0	1.0
SC95-771	2.0	1.0	1.0
SC96-1574	2.0	1.0	1.0
SC96-2736	1.0	1.0	1.0
SC97-1746	1.0	1.0	1.0
SC97-1764	2.0	1.0	1.0

*Data not included in mean.

TABLE 76 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	FAIRHOPE AL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE✳ AL(B)	TIFTON GA	MEAN
COOK	1.7	1.7	2.5	1.7	1.0	1.0	2.0	1.8
PRICHARD	1.7	1.7	1.8	1.8	1.0	1.0	2.0	1.7
Au94-863	1.8	2.0	1.8	1.8	1.0	1.0	1.7	1.7
G96-1797	1.5	2.0	2.2	1.8	1.0	1.0	2.0	1.8
G97-1387	1.7	2.0	2.5	1.8	1.0	1.0	1.3	1.7
G97-1419	1.5	2.0	2.2	1.5	1.0	1.0	1.3	1.6
G97-2449	1.5	1.3	1.7	1.5	1.0	1.0	1.3	1.4
N96-6752	1.7	2.0	2.3	1.5	1.0	1.0	2.7	1.9
N97-10074	1.8	2.0	2.2	1.8	1.0	1.0	2.0	1.8
N97-9612	1.8	2.0	2.3	1.5	1.0	1.0	2.0	1.8
N97-9636	1.7	2.0	2.2	1.8	1.0	1.0	2.7	1.9
N97-9783	1.5	2.0	2.2	1.7	1.0	1.0	2.3	1.8
N97-984	1.8	2.3	2.3	2.0	1.0	1.0	3.0	2.1
SC95-771	1.7	1.7	1.8	2.0	1.0	1.3	1.7	1.6
SC96-1574	1.7	2.0	2.0	1.8	1.0	1.0	2.0	1.8
SC96-2736	1.5	2.0	1.7	1.5	1.0	1.0	1.7	1.6
SC97-1746	1.7	2.0	2.3	1.5	1.0	1.0	2.0	1.8
SC97-1764	1.5	2.0	2.2	1.8	1.0	3.0	1.7	1.7

✳Data not included in mean.

PRELIMINARY GROUP VIII

2001

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

TABLE 77 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2001

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. PRICHARD	CHECK	
2. COOK	CHECK	
3. Au97-10	SC88-2872 x D87-4429	F6
4. Au97-1579	N91-639 x Benning	F6
5. Au97-737	Boggs x G89-300	F6
6. Au97-796	Boggs x G89-300	F6
7. Au97-978	Boggs x G89-300	F6
8. G98-23	Boggs x Benning	F5d
9. G98-2417	G89-375 x D87-4429	F7d
10. G98-2641	G89-375 x D87-4429	F7d
11. G98-2866	Brim x Doles	F7d
12. G98-3300	Brim x D87-4429	F7d
13. G98-5386	G89-146 x Cook	F7d
14. G98-5393	G89-146 x Cook	F7d
15. N97-9595	N90-7199 x COOK	F4
16. N97-9677	N90-7199 x COOK	F4
17. N97-9636	N90-7199 x COOK	F4
18. N98-7961	N90-7199 x NTCPR93-283	F4
19. SC9546-218	[(MAXCY x NC474)]/N94-199	F5
20. SC98-469	HUTCHESON x NK'SS75-55	F5
21. SC98-635	DILLON x G93-9223	F5
22. SC98-679	STONEWALL x NK'SS75-55	F5
23. SC99-P1001	HAGOOD x (HAGOOD x NC474)	F5
24. SC99-P1034	MAXCY3 x NC565	

TABLE 78 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VIII, 2001- MEAN OF 5 LOCATIONS

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT---- PROTEIN	OIL	STEM CANKER	SCN 2	SCN 3	SCN 14	FL COLOR	PUB. COLOR	POD COLOR
PRICHARD	33.9	10/26	2.0	37	1.4	12.5	38.9	19.5	R	.	1.1	1.1	.	.	.
COOK	34.6	5-	1.7	36	1.8	13.5	40.4+	20.0	R	.	5.0	4.2	.	.	.
Au97-10	36.6	5-	2.3	36	1.6	13.9	38.3	19.4	R	.	1.8	2.7	.	.	.
Au97-1579	34.8	2-	2.5	39	1.4	12.3	37.2-	21.4+	R	.	1.0	4.6	.	.	.
Au97-737	34.1	1-	1.3	36	1.6	13.0	38.3	20.2+	R	.	5.0	4.9	.	.	.
Au97-796	33.1	5-	1.4	35	1.4	11.9	39.4	19.7	R	.	5.0	5.0	.	.	.
Au97-978	34.3	2+	2.0	39	1.6	11.7	36.1-	21.1+	R	.	1.6	4.7	.	.	.
G98-23	32.2	2-	2.3	34	1.4	14.1	40.5+	20.0	R	.	1.3	4.6	.	.	.
G98-2417	33.1	2-	1.6	36	1.4	13.5	39.4	19.8	R	.	1.0	2.6	.	.	.
G98-2641	35.9	3-	2.1	38	1.5	13.4	39.2	20.0	R	.	1.0	3.2	.	.	.
G98-2866	35.8	4-	1.8	33	1.4	12.5	40.3	19.8	R	.	1.0	4.0	.	.	.
G98-3300	34.4	6-	1.7	36	1.2	14.2	39.7	20.0	R	.	1.9	2.9	.	.	.
G98-5386	27.0-	0	1.6	38	1.6	12.4	41.0+	18.8-	R	.	4.8	3.9	.	.	.
G98-5393	35.7	5-	2.0	38	1.6	12.6	39.2	20.1+	R	.	1.4	2.0	.	.	.
N97-9595	35.8	4-	1.6	35	1.4	15.3	39.2	21.0+	R	.	5.0	4.3	.	.	.
N97-9677	37.0	4-	2.1	37	1.4	14.1	38.5	20.8+	R	.	4.4	5.0	.	.	.
N97-9636	33.1	4-	1.5	34	1.1	12.7	38.4	20.4+	R	.	4.8	4.2	.	.	.
N98-7961	33.4	5-	1.2	31	1.4	12.9	37.8	21.7+	R	.	5.0	5.0	.	.	.
SC9546-218	28.5	5-	1.8	31	1.6	12.9	38.3	20.1+	R	.	4.8	4.2	.	.	.
SC98-469	36.5	3-	1.7	36	1.4	14.7	39.1	21.2+	R	.	3.7	1.0	.	.	.
SC98-635	31.8	1-	2.0	37	1.4	13.3	38.9	20.2+	S	.	1.4	1.2	.	.	.
SC98-679	34.4	5-	1.5	34	1.6	14.9	38.5	20.6+	S	.	2.9	1.6	.	.	.
SC99-P1001	29.2	1-	1.6	34	1.1	14.8	41.2+	17.9-	S	.	5.0	4.4	.	.	.
SC99-P1034	30.2	3-	1.5	32	1.7	14.2	40.0	19.1	R	.	1.6	4.9	.	.	.
OVERALL MEAN	33.6						39.1	20.1							
LSD (.05)	5.8						1.4	0.6							
C.V.	14%						3%	2%							

TABLE 79 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2001

STRAIN/ VARIETY	BLACKVILLE SC	CLINTON NC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	MEAN
PRICHARD	29.3	24.7	28.4	41.9	45.0	33.9
COOK	31.0	32.9	37.9+	38.5	32.6-	34.6
Au97-10	29.7	33.2	25.5-	41.9	52.5+	36.6
Au97-1579	30.1	33.6	31.2+	43.3	35.9-	34.8
Au97-737	26.0	31.2	29.7+	45.8	37.7-	34.1
Au97-796	26.4	38.1+	25.0-	38.7	37.4-	33.1
Au97-978	27.4	30.5	38.2+	36.6	38.8-	34.3
G98-23	27.7	32.2	29.4	31.3	40.4	32.2
G98-2417	25.7	25.7	27.5	38.5	48.1	33.1
G98-2641	28.3	31.7	35.4+	33.2	51.1+	35.9
G98-2866	30.3	26.0	35.6+	41.0	46.1	35.8
G98-3300	30.7	33.7	28.5	31.3	47.9	34.4
G98-5386	25.5	26.4	24.2-	28.1	30.9-	27.0-
G98-5393	30.4	36.5+	26.0-	39.2	46.2	35.7
N97-9595	30.5	42.7+	26.6-	42.4	37.1-	35.8
N97-9677	33.1	36.1+	36.7+	43.6	35.2-	37.0
N97-9636	35.0+	29.5	29.3	35.9	35.7-	33.1
N98-7961	30.6	32.5	28.8	37.6	37.4-	33.4
SC9546-218	28.7	27.9	26.3-	32.8	26.9-	28.5
SC98-469	29.4	34.4	32.5+	40.0	46.1	36.5
SC98-635	28.0	23.0	25.0-	39.9	42.9	31.8
SC98-679	30.1	26.1	27.0-	42.9	46.0	34.4
SC99-P1001	25.2	21.5	24.4-	41.2	33.9-	29.2
SC99-P1034	31.8	26.7	27.8	28.2	36.4-	30.2
L.S.D. (0.05)	5.4	10.2	1.0	.	5.4	5.8
C.V. (%)	8.9	16.1	.	16.7	6.5	13.8

TABLE 80 - OIL PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2001

STRAIN/ VARIETY	BLACKVILLE SC	CLINTON NC	JACKSON SPRINGS NC	TALLASSEE AL	MEAN
PRICHARD	19.1	18.8	20.2	20.0	19.5
COOK	19.3	19.1	20.9	20.7	20.0
Au97-10	19.4	18.4	18.8	20.8	19.4
Au97-1579	20.8	19.9	21.9	23.0	21.4
Au97-737	19.5	19.3	20.6	21.2	20.2
Au97-796	18.9	18.9	20.5	20.4	19.7
Au97-978	20.5	20.1	22.3	21.6	21.1
G98-23	19.2	19.4	21.0	20.5	20.0
G98-2417	18.8	19.2	20.1	21.2	19.8
G98-2641	19.6	18.7	20.5	21.3	20.0
G98-2866	19.1	18.8	20.7	20.6	19.8
G98-3300	19.2	19.4	20.4	21.0	20.0
G98-5386	17.7	18.3	19.5	19.5	18.8
G98-5393	19.2	19.3	20.6	21.3	20.1
N97-9595	20.8	20.4	21.3	21.6	21.0
N97-9677	20.6	19.8	21.2	21.5	20.8
N97-9636	19.9	19.1	21.7	21.0	20.4
N98-7961	21.0	21.2	21.5	23.2	21.7
SC9546-218	19.4	19.9	20.1	20.8	20.1
SC98-469	20.6	21.0	21.5	21.5	21.2
SC98-635	19.1	19.4	21.1	21.3	20.2
SC98-679	20.1	19.3	21.4	21.4	20.6
SC99-P1001	17.7	17.7	17.6	18.7	17.9
SC99-P1034	19.2	18.2	18.8	20.2	19.1

TABLE 81 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2001

STRAIN/ VARIETY	BLACKVILLE SC	CLINTON NC	JACKSON SPRINGS NC	TALLASSEE AL	MEAN
PRICHARD	39.9	40.8	35.0	39.9	38.9
COOK	41.7	41.6	37.6	40.6	40.4
Au97-10	38.2	38.9	38.1	37.9	38.3
Au97-1579	38.8	39.7	34.3	36.0	37.2
Au97-737	39.3	39.5	35.4	39.0	38.3
Au97-796	42.0	40.3	35.2	40.2	39.4
Au97-978	38.2	37.2	31.3	37.8	36.1
G98-23	42.0	41.1	37.0	41.9	40.5
G98-2417	40.8	39.5	38.1	39.0	39.4
G98-2641	40.3	39.6	37.4	39.3	39.2
G98-2866	41.1	41.2	37.3	41.4	40.3
G98-3300	41.0	40.2	37.3	40.4	39.7
G98-5386	43.3	41.2	38.1	41.3	41.0
G98-5393	41.9	38.4	36.4	40.0	39.2
N97-9595	40.4	39.0	37.6	39.7	39.2
N97-9677	39.0	40.1	36.2	38.8	38.5
N97-9636	40.4	40.6	32.9	39.5	38.4
N98-7961	39.5	38.8	35.9	36.8	37.8
SC9546-218	39.9	38.9	36.1	38.2	38.3
SC98-469	40.5	39.5	36.7	39.5	39.1
SC98-635	41.1	39.9	35.9	38.5	38.9
SC98-679	40.2	40.0	34.9	39.0	38.5
SC99-P1001	41.4	41.8	40.2	41.3	41.2
SC99-P1034	41.6	40.3	37.2	41.0	40.0

TABLE 82 - SEED SIZE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2001

STRAIN/ VARIETY	BLACKVILLE SC	CLINTON NC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	MEAN
PRICHARD	13.3	11.7	11.8	11.6	14.4	12.5
COOK	15.6	12.8	13.6	11.5	13.9	13.5
Au97-10	16.6	11.9	14.0	11.6	15.4	13.9
Au97-1579	14.2	11.8	12.0	11.2	12.5	12.3
Au97-737	14.0	12.4	12.9	12.3	13.4	13.0
Au97-796	14.2	11.5	11.6	10.2	12.2	11.9
Au97-978	12.3	10.6	11.4	11.1	13.1	11.7
G98-23	16.4	13.8	13.5	10.9	15.9	14.1
G98-2417	14.2	12.3	14.0	12.2	15.0	13.5
G98-2641	15.8	12.2	13.9	9.6	15.7	13.4
G98-2866	13.8	11.1	12.0	11.4	14.2	12.5
G98-3300	15.7	13.7	13.0	13.6	14.9	14.2
G98-5386	13.8	11.6	12.0	11.4	13.1	12.4
G98-5393	14.5	12.5	12.3	10.5	13.5	12.6
N97-9595	17.1	16.4	14.6	13.3	15.2	15.3
N97-9677	16.0	12.9	14.3	12.7	14.7	14.1
N97-9636	14.0	12.0	13.4	10.1	14.0	12.7
N98-7961	15.3	12.1	13.6	10.2	13.3	12.9
SC9546-218	14.8	11.8	13.0	11.2	13.6	12.9
SC98-469	17.6	13.9	14.9	11.7	15.4	14.7
SC98-635	14.6	11.8	12.1	13.3	14.6	13.3
SC98-679	16.2	12.7	14.5	14.8	16.2	14.9
SC99-P1001	16.7	14.7	14.6	13.3	14.7	14.8
SC99-P1034	15.6	13.3	14.5	12.7	15.1	14.2

TABLE 83 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2001

STRAIN/ VARIETY	BLACKVILLE SC	CLINTON NC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	MEAN
PRICHARD	39	29	34	42	42	37
COOK	38	30	36	39	40	36
Au97-10	41	31	30	38	43	36
Au97-1579	41	33	38	42	42	39
Au97-737	35	32	34	40	41	36
Au97-796	38	30	26	37	43	35
Au97-978	40	33	36	43	46	39
G98-23	37	30	30	37	36	34
G98-2417	41	27	28	42	42	36
G98-2641	41	32	36	41	43	38
G98-2866	35	23	32	37	39	33
G98-3300	38	28	33	41	41	36
G98-5386	39	32	34	42	46	38
G98-5393	41	34	34	42	43	38
N97-9595	36	30	30	41	37	35
N97-9677	41	28	36	39	41	37
N97-9636	38	30	32	32	40	34
N98-7961	36	25	26	30	40	31
SC9546-218	35	27	30	32	32	31
SC98-469	37	28	32	40	42	36
SC98-635	42	28	32	40	42	37
SC98-679	36	29	30	38	40	34
SC99-P1001	36	24	34	40	38	34
SC99-P1034	34	24	32	35	38	32

TABLE 84 - LODGING SCORES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2001

STRAIN/ VARIETY	BLACKVILLE SC	CLINTON NC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	MEAN
PRICHARD	2.5	1.5	2.0	1.5	2.5	2.0
COOK	2.5	1.5	2.0	1.5	1.0	1.7
Au97-10	3.5	2.0	2.0	2.0	2.0	2.3
Au97-1579	3.5	2.5	2.0	2.0	2.5	2.5
Au97-737	1.0	1.5	1.0	2.0	1.0	1.3
Au97-796	1.5	1.5	1.0	2.0	1.0	1.4
Au97-978	2.0	2.0	2.0	2.0	2.0	2.0
G98-23	3.5	2.0	2.0	2.0	2.0	2.3
G98-2417	2.0	1.5	1.0	2.0	1.5	1.6
G98-2641	2.5	2.0	2.0	2.0	2.0	2.1
G98-2866	2.5	1.5	2.0	1.5	1.5	1.8
G98-3300	1.5	2.0	2.0	2.0	1.0	1.7
G98-5386	2.0	2.0	1.0	2.0	1.0	1.6
G98-5393	2.5	2.0	1.0	2.0	2.5	2.0
N97-9595	2.5	1.5	1.0	2.0	1.0	1.6
N97-9677	3.0	1.5	2.0	2.5	1.5	2.1
N97-9636	2.0	2.0	1.0	1.5	1.0	1.5
N98-7961	1.0	1.0	1.0	1.5	1.5	1.2
SC9546-218	2.0	1.5	2.0	2.0	1.5	1.8
SC98-469	2.0	2.0	1.0	2.0	1.5	1.7
SC98-635	3.0	1.0	1.0	2.5	2.5	2.0
SC98-679	2.0	2.0	1.0	1.5	1.0	1.5
SC99-P1001	2.5	1.5	1.0	2.0	1.0	1.6
SC99-P1034	2.0	1.0	2.0	1.5	1.0	1.5

TABLE 85 - SEED QUALITY FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 2001

STRAIN/ VARIETY	CLINTON NC	JACKSON SPRINGS NC	PLAINS GA	TALLASSEE AL	MEAN
PRICHARD	1.0	2.0	1.5	1.0	1.4
COOK	2.0	2.0	1.5	1.5	1.8
Au97-10	2.0	2.0	1.5	1.0	1.6
Au97-1579	2.0	1.0	1.8	1.0	1.4
Au97-737	2.0	2.0	1.5	1.0	1.6
Au97-796	2.0	1.0	1.8	1.0	1.4
Au97-978	2.0	2.0	1.5	1.0	1.6
G98-23	2.0	1.0	1.5	1.0	1.4
G98-2417	2.0	1.0	1.5	1.0	1.4
G98-2641	2.0	1.0	2.0	1.0	1.5
G98-2866	2.0	1.0	1.5	1.0	1.4
G98-3300	1.0	1.0	1.8	1.0	1.2
G98-5386	2.0	2.0	1.5	1.0	1.6
G98-5393	2.0	2.0	1.5	1.0	1.6
N97-9595	2.0	1.0	1.5	1.0	1.4
N97-9677	2.0	1.0	1.5	1.0	1.4
N97-9636	1.0	1.0	1.5	1.0	1.1
N98-7961	2.0	1.0	1.5	1.0	1.4
SC9546-218	2.0	1.0	2.5	1.0	1.6
SC98-469	2.0	1.0	1.8	1.0	1.4
SC98-635	2.0	1.0	1.5	1.0	1.4
SC98-679	2.0	2.0	1.5	1.0	1.6
SC99-P1001	1.0	1.0	1.5	1.0	1.1
SC99-P1034	2.0	1.0	2.3	1.5	1.7