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UNIFORM SOYBEAN TESTS

SOUTHERN STATES

1999

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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.

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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
- DMK - 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
- NTCPR - 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
- VS - Virginia Agricultural Experiment Station

LOCATION OF SOYBEAN NURSERIES ALONG WITH SOIL TYPE

EAST COAST

LOCATION	TEST TYPE					SOIL
	IV	V	VI	VII	VIII	
Queenstown, MD	UP	UP				Mattapeake silt loam
Georgetown, DE	U	U				Evesboro loamy sand
Warsaw, VA	UP	UP	U			Kempsville loam
Plymouth, NC		UP	UP			Portsmouth silt loam
Whiteville, NC			U	UP	UP	Norfolk sandy loam
Jackson Springs, NC				U	UP	Norfolk sandy loam
Florence, SC			U	U	U	Goldsboro sandy loam
Petersburg, VA			P			

SOUTHEAST

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

UPPER AND CENTRAL SOUTH

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

U - Uniform nursery grown

P - Preliminary nursery grown

LOCATION OF SOYBEAN NURSERIES ALONG WITH SOIL TYPE - Continued

DELTA

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

WEST

LOCATION	TEST TYPE					SOIL
	IV	V	VI	VII	VIII	
McCune, KS	P	U				Parsons silt loam
Walnut, KS	U	U				Kenoma silt loam
Pittsburg, KS	U	UP				Parsons silt loam
Chanute, KS	U					Parsons silt loam
Bixby, OK	UP	UP	UP			Reinach silt loam
Stuttgart, AR		U	UP			Crowley silt loam
Bossier City, LA		U	U	U		Latanier silt loam
Prosper, TX		U				Houston black clay

U - Uniform nursery grown

P - Preliminary nursery grown

ROW SPACING OF UNIFORM TEST LOCATIONS

EAST COAST

LOCATION	ROW SPACING
Queenstown, MD	30 Inches
Georgetown, DE	20 Inches
Warsaw, VA	30 Inches
Petersburg, VA	30 Inches
Plymouth, NC	38 Inches
Kinston, NC	38 Inches
Jackson Springs, NC	38 Inches
Florence, SC	38 Inches

SOUTHEAST

Blackville, SC(A)	38 Inches
Blackville, SC(B)	38 Inches
Tifton, GA	30 Inches
Tallassee, AL	30 Inches
Jay, FL	36 Inches
Fairhope, AL	30 Inches
Baton Rouge, LA	30 Inches

UPPER AND CENTRAL SOUTH

Orange, VA	30 Inches
Clemson, SC	38 Inches
Calhoun, GA	30 Inches
Athens, GA	30 Inches
Plains, GA	30 Inches
Belle Mina, AL	36 Inches
Knoxville, TN	30 Inches
Cora, IL	30 Inches
Princeton, KY	30 Inches
Jackson, TN	30 Inches
Starkville, MS	30 Inches
Suffolk, VA	20 Inches
Springfield, TN	30 Inches
Midville, GA	30 Inches

DELTA

Portageville, MO(A)	30 Inches
Portageville, MO(B)	30 Inches
Keiser, AR	38 Inches
Marianna, AR	38 Inches
Jonesboro, AR	36 Inches
Pine Tree, AR	36 Inches
Stoneville, MS(B)	24 Inches
Rolling Fork, MS	30 Inches
Rohwer, AR	38 Inches

WEST

McCune, KS	30 Inches
Pittsburg, KS	30 Inches
Chanute, KS	30 Inches
Bixby, OK	30 Inches
Stuttgart, AR	32 Inches
Bossier City, LA	40 Inches
Prosper, TX	14 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 in a plot was measured as the average length of plants from the ground to the top extremity at maturity.

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 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: UIVS and PIVS - Manokin; UV and PV - Hutcheson; UVI and PVI - Dillon; UVII and PVII - Benning; and UVIII and PVIII - Cook.

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 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 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 NIR 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

SMV techniques. 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 UIVS - 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 PIVS - PVIII were conducted in a greenhouse at the USDA-ARS Nematology Investigations at Jackson, Tennessee.

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

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

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

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

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

Soybean cyst nematode. The SCN race 2, 3, and 14 ratings reported for UIVS - UVIII and PIVS - 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

Mississippi. 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. Soybean sudden death syndrome (SDS) was evaluated for UIVS and UV at Ridgeway, Illinois, in three replications of four-row plots 24 feet long. Percent of plants with visible leaf symptoms were scored weekly during pod fill, and interpolated to the R6 developmental stage (full seed stage). Disease incidence is reported.

Statistical Analyses

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

UNIFORM GROUP IV-S

1999

Uniform Group IV-S nurseries were planted at 19 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 1. Table 2 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil, protein, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 3 - 8.

**TABLE 1 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S,
1999**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 X D74-7824	
2. KS4694	SHERMAN X TOANO	
3. K1401	Del soy 4710 X KS4694	
4. K1423	MANOKIN X LS86-1922	
5. LS94-3207	PHARAOH X Hartwig	
6. MD93-5298	MD87-5669 X EDISON	
7. MD94-5332	CLIFFORD X CORSICA	
8. MD94-5396	RIPLEY X CLIFFORD	
9. R96-3235	Manokin X KS4895	
10. TN95-53	TN 4-86 X KUNITZ	
11. TN95-95	TN 4-86 X KUNITZ	
12. V93-2329	V84-1787 X V85-5344	F5
13. V94-0198	DP 415 X Manokin	F5
14. V94-0436	DP 415 X C1747	F5
15. V94-0552	Hutcheson X Manokin	F5
16. V94-1295	V85-5344 X C1747	F5
17. VS94-08	[PI 381668 X YORK (2)] X [L760132 X Essex (2)]	F6

**TABLE 2 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM GROUP IV-S, 1999**

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1999	98-99	97-99	1999	98-99	97-99	1999	98-99	97-99
MANOKIN	40.1	40.1	43.1	40.9	41.0	40.7	19.4	19.9	19.9
KS4694	39.0	39.4	41.1	41.8	41.5	41.3	19.5	20.2	20.3
K1401	41.6	.	.	43.0	.	.	19.5	.	.
K1423	41.3	.	.	41.5	.	.	18.4	.	.
LS94-3207	36.8	37.2	.	41.1	41.2	.	19.6	20.1	.
MD93-5298	40.0	39.8	42.9	39.5	40.1	40.0	20.5	20.4	20.5
MD94-5332	42.2	40.5	.	42.5	42.4	.	19.4	20.0	.
MD94-5396	41.8	40.9	.	41.3	41.5	.	19.3	19.6	.
R96-3235	41.0	.	.	41.6	.	.	19.3	.	.
TN95-53	31.1	33.5	.	41.1	41.6	.	20.6	20.7	.
TN95-95	36.3	36.3	.	41.6	41.8	.	20.2	20.5	.
V93-2329	38.4	38.1	.	44.4	44.0	.	19.3	19.7	.
V94-0198	41.7	.	.	42.3	.	.	19.4	.	.
V94-0436	39.6	.	.	42.5	.	.	18.9	.	.
V94-0552	41.7	.	.	41.7	.	.	20.0	.	.
V94-1295	40.4	.	.	41.6	.	.	19.6	.	.
VS94-08	35.4	36.0	.	43.5	43.4	.	18.8	19.2	.

†Data not included in Mean: (1999) - Springfield, TN; Princeton, KY
(1998) - Pine Tree, AR; Chanute, KS; Walnut, KS

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
MANOKIN	W	10/03	2	29	2	12.2	T	T
KS4694	W	10-	1	29	2	14.9	G	BR
K1401	P	9-	1	32	2	14.5	T	T
K1423	W	2-	2	28	2	12.0	T	T
LS94-3207	W	10-	2	23	2	12.1	T	T
MD93-5298	P	5-	2	37	2	11.8	T	T
MD94-5332	P	1-	1	26	2	17.0	T	S
MD94-5396	P	0	1	28	2	12.7	G	BR
R96-3235	P	3-	2	26	2	10.5	G	T
TN95-53	W	3-	2	30	2	13.4	T	T
TN95-95	W	5-	2	36	2	13.2	T	T
V93-2329	P	2-	2	22	2	11.6	G	T
V94-0198	P	5-	2	30	2	13.3	T	T
V94-0436	W	1-	2	24	2	14.5	G	T
V94-0552	W	0	2	28	2	12.9	G	T
V94-1295	P	2-	1	22	2	12.0	G	T
VS94-08	P	1+	3	38	2	17.3	G	T

TABLE 2 - Continued

STRAIN/ VARIETY	STEM CANKER	PEST REACTIONS					
		SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV
MANOKIN	R	4.8	1.0	3.9	2.3	3.0	S
KS4694	S	5.0	3.6	5.0	5.0	4.5	S
K1401	R	4.7	1.0	4.3	4.8	2.3	S
K1423	R	5.0	1.0	2.9	1.3	4.3	S
LS94-3207	R	4.0	1.0	3.8	2.8	2.8	S
MD93-5298	R	5.0	2.5	5.0	5.0	3.0	S
MD94-5332	R	5.0	4.4	4.8	3.0	4.5	R
MD94-5396	R	4.9	4.3	5.0	3.5	4.8	R
R96-3235	R	4.3	3.7	5.0	3.5	3.5	S
TN95-53	R	4.0	5.0	5.0	.	1.8	S
TN95-95	R	5.0	4.2	4.8	3.8	3.0	S
V93-2329	S	4.8	5.0	3.2	1.3	5.0	R
V94-0198	R	4.5	1.5	5.0	1.5	4.3	R
V94-0436	R	5.0	3.4	4.7	3.8	3.3	M
V94-0552	R	3.4	1.0	5.0	3.8	4.8	S
V94-1295	S	5.0	4.3	5.0	5.0	3.3	S
VS94-08	R	5.0	5.0	4.0	2.5	4.8	R

**TABLE 3 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN
UNIFORM GROUP IV-S, 1999**

EAST

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MS	VA	
MANOKIN	45.9	42.1	43.1	43.7
KS4694	44.9	49.1	43.2	45.7
K1401	40.7	43.3	39.7	41.2
K1423	47.7	43.2	42.5	44.5
LS94-3207	45.5	45.5	35.0	42.0
MD93-5298	44.6	47.8	37.8	43.4
MD94-5332	47.6	44.2	46.2	46.0
MD94-5396	49.1	41.4	44.4	45.0
R96-3235	45.7	42.8	42.6	43.7
TN95-53	48.6	46.3	26.1	40.3
TN95-95	49.1	45.4	31.8	42.1
V93-2329	51.2	39.0	42.0	44.1
V94-0198	49.1	39.3	40.1	42.8
V94-0436	42.6	41.0	47.3	43.6
V94-0552	39.9	42.6	42.5	41.7
V94-1295	49.2	46.8	43.3	46.4
VS94-08	44.5	43.7	40.7	43.0
L. S. D. (0.05)	5.7	7.0	7.3	.
C. V. (%)	7.4	9.6	10.8	.

Table 3 - Continued

SOUTH

STRAIN/ VARIETY	KNOXVILLE TN	PRINCETON† KY	SPRINGFIELD† TN	STARKVILLE MS	ULLIN IL	MEAN
MANOKIN	39.7	6.2	20.7	42.7	24.2	35.6
KS4694	38.3	7.4	26.5	42.6	24.5	35.1
K1401	44.5	15.6	28.7	42.0	31.6	39.3
K1423	40.3	12.2	15.4	43.2	18.2	33.9
LS94-3207	36.8	6.6	24.4	33.0	30.1	33.3
MD93-5298	41.4	16.8	12.9	41.1	23.8	35.4
MD94-5332	44.6	7.8	.	41.7	22.7	36.3
MD94-5396	38.3	13.3	16.7	41.9	26.4	35.6
R96-3235	44.6	19.5	25.3	37.7	23.9	35.4
TN95-53	37.6	8.5	18.6	23.6	20.6	27.3
TN95-95	41.2	16.7	21.3	40.4	20.8	34.1
V93-2329	38.0	6.2	22.9	31.9	23.0	31.0
V94-0198	45.8	5.5	20.4	48.5	27.8	40.7
V94-0436	37.5	11.0	14.5	38.8	23.4	33.2
V94-0552	41.1	8.2	22.6	43.8	28.5	37.8
V94-1295	37.3	6.7	18.0	34.6	19.5	30.5
VS94-08	36.9	1.6	14.9	39.3	21.7	32.6
L. S. D. (0.05)	7.3	.	.	5.3	5.2	.
C. V. (%)	10.9	.	.	8.1	12.8	.

†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	62.9	47.2	27.6	42.6	49.5	48.7	46.4
KS4694	54.4	52.9	32.7	36.0	46.3	52.5	45.8
K1401	61.0	62.3	40.8	41.3	47.1	54.6	51.2
K1423	62.7	56.3	39.7	39.0	49.5	49.0	49.4
LS94-3207	52.9	52.5	32.6	34.2	36.1	49.0	42.9
MD93-5298	56.6	48.8	43.8	31.4	50.0	47.4	46.3
MD94-5332	59.6	54.4	47.7	35.7	50.4	61.1	51.5
MD94-5396	63.2	54.6	50.4	39.3	44.0	55.0	51.1
R96-3235	59.7	52.8	33.8	40.8	51.2	54.8	48.9
TN95-53	51.2	.	8.9	37.9	44.4	33.4	35.2
TN95-95	51.5	46.7	22.9	34.4	48.9	41.7	41.0
V93-2329	52.8	60.1	30.3	33.5	42.6	58.1	46.2
V94-0198	62.1	53.6	40.0	36.3	49.7	54.8	49.4
V94-0436	57.7	53.1	48.7	33.1	39.3	48.2	46.7
V94-0552	61.8	55.1	39.3	43.9	47.0	54.2	50.2
V94-1295	61.7	55.2	42.2	32.7	42.1	57.0	48.5
VS94-08	45.5	38.3	41.7	32.7	43.6	37.5	39.9
L. S. D. (0.05)	6.6	6.9	9.4	5.1	8.0	5.1	.
C. V. (%)	6.6	7.9	14.6	8.3	10.4	6.1	.

TABLE 3 - Continued

WEST

STRAIN/ VARIETY	BIXBY	MCCUNE	MEAN
	OK	KS	
MANOKIN	16.1	28.8	22.4
KS4694	7.9	21.2	14.6
K1401	11.7	21.5	16.6
K1423	19.4	27.6	23.5
LS94-3207	8.9	22.8	15.9
MD93-5298	18.7	26.8	22.8
MD94-5332	9.8	25.6	17.7
MD94-5396	12.1	25.6	18.9
R96-3235	18.7	24.5	21.6
TN95-53	10.7	14.9	12.8
TN95-95	12.4	21.3	16.9
V93-2329	9.9	24.9	17.4
V94-0198	9.6	27.6	18.6
V94-0436	18.6	24.6	21.6
V94-0552	15.9	27.6	21.8
V94-1295	18.8	25.2	22.0
VS94-08	4.3	25.3	14.8
L. S. D. (0.05)	2.5	2.2	.
C. V. (%)	11.6	5.4	.

TABLE 4 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1999

OIL PERCENTAGES

STRAIN/ VARIETY	BIXBY OK	KNOXVILLE TN	MCCUNE KS	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	PRINCETON† KY	QUEENSTOWN MD	SPRINGFIELD† TN	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	.	19.8	18.0	20.1	19.1	.	18.0	18.8	.	21.9	18.3	19.3	19.4
KS4694	.	19.0	18.1	20.8	19.8	.	17.5	19.0	.	21.9	17.5	19.9	19.5
K1401	.	19.3	18.8	21.1	19.5	.	18.3	18.7	.	21.5	17.6	19.5	19.5
K1423	.	19.1	16.3	19.1	18.6	.	17.2	17.6	.	20.2	17.2	19.3	18.4
LS94-3207	.	20.4	18.8	21.0	19.1	.	17.2	19.9	.	20.7	17.4	19.8	19.6
MD93-5298	.	21.6	19.5	21.7	19.9	.	17.1	19.8	.	22.7	18.5	20.4	20.5
MD94-5332	.	21.0	18.0	20.2	18.8	.	18.5	19.1	.	21.2	16.6	20.4	19.4
MD94-5396	.	20.5	18.3	19.7	19.2	.	17.1	18.6	.	20.9	17.8	19.3	19.3
R96-3235	.	20.2	18.2	20.1	18.9	.	16.3	17.6	.	21.5	18.6	19.1	19.3
TN95-53	.	21.1	19.7	21.5	20.7	.	17.6	20.0	.	22.9	18.4	20.8	20.6
TN95-95	.	21.1	18.1	21.1	20.3	.	18.0	18.8	.	22.3	19.5	20.7	20.2
V93-2329	.	19.2	19.2	20.8	18.5	.	17.4	18.1	.	19.7	18.7	20.2	19.3
V94-0198	.	20.9	17.4	20.3	18.8	.	17.0	18.4	.	21.9	17.5	19.8	19.4
V94-0436	.	19.2	18.2	20.9	17.8	.	16.3	18.0	.	20.8	16.5	19.9	18.9
V94-0552	.	20.8	18.5	20.8	20.3	.	18.7	18.4	.	21.2	19.7	20.0	20.0
V94-1295	.	20.2	18.6	20.8	19.1	.	16.7	18.9	.	21.0	19.2	18.9	19.6
VS94-08	.	20.1	16.7	19.2	18.6	.	18.0	19.1	.	20.0	16.7	19.7	18.8

†Data not included in Mean

TABLE 4 - Continued

PROTEIN PERCENTAGES

STRAIN/ VARIETY	BI XBY OK	KNOXVILLE TN	MCCUNE KS	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	PRINCETON† KY	QUEENSTOWN MD	SPRINGFIELD† TN	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	.	42.9	36.5	41.1	40.9	.	43.3	42.3	.	39.1	45.9	38.4	40.9
KS4694	.	43.3	41.4	42.6	40.4	.	44.7	43.0	.	39.3	44.1	40.6	41.8
K1401	.	43.6	42.3	42.8	42.5	.	44.0	44.2	.	40.8	45.3	42.5	43.0
K1423	.	43.3	37.1	41.4	41.0	.	44.2	42.4	.	41.4	46.3	39.3	41.5
LS94-3207	.	43.3	36.1	40.6	42.4	.	45.2	40.4	.	41.5	45.6	39.2	41.1
MD93-5298	.	40.7	37.5	40.7	39.1	.	42.4	39.2	.	37.7	42.9	37.8	39.5
MD94-5332	.	41.9	40.6	43.0	42.9	.	43.5	42.4	.	41.7	47.1	40.6	42.5
MD94-5396	.	40.8	39.3	42.7	40.6	.	45.9	41.5	.	41.0	44.7	39.9	41.3
R96-3235	.	42.9	38.5	41.4	41.7	.	45.1	42.8	.	40.8	44.8	40.0	41.6
TN95-53	.	43.6	39.2	41.1	40.6	.	44.1	41.4	.	37.4	45.9	39.7	41.1
TN95-95	.	43.0	41.3	42.0	41.2	.	44.8	42.4	.	38.9	44.4	39.5	41.6
V93-2329	.	46.9	40.8	44.2	44.6	.	45.4	45.5	.	45.3	46.2	41.5	44.4
V94-0198	.	42.5	39.7	42.3	43.0	.	45.0	43.6	.	41.3	46.1	39.8	42.3
V94-0436	.	44.8	38.5	41.9	43.4	.	44.0	44.0	.	40.6	47.2	39.8	42.5
V94-0552	.	43.2	40.1	41.4	40.1	.	43.8	43.2	.	42.2	44.3	39.0	41.7
V94-1295	.	42.7	39.9	41.5	41.6	.	43.5	41.7	.	40.7	42.6	42.2	41.6
VS94-08	.	43.5	42.4	43.6	43.6	.	44.8	43.8	.	43.8	46.7	40.5	43.5

†Data not included in Mean

TABLE 4 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	BIXBY OK	KNOXVILLE TN	MCCUNE KS	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	PRINCETON† KY	QUEENSTOWN MD	SPRINGFIELD† TN	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	14.1	10.0	12.1	14.9	11.9	11.3	11.5	12.0	10.7	13.1	9.8	12.8	12.2
KS4694	16.8	11.3	16.6	18.0	12.4	13.5	14.0	17.8	11.9	14.6	9.3	18.3	14.9
K1401	15.2	11.2	16.6	16.8	12.6	14.3	13.0	16.9	13.1	14.0	10.2	17.1	14.5
K1423	12.9	9.7	12.7	14.3	11.0	11.3	12.0	12.4	10.4	14.0	8.2	13.2	12.0
LS94-3207	13.2	10.1	12.2	14.8	10.4	11.4	14.5	13.3	10.8	13.1	9.1	13.3	12.1
MD93-5298	13.8	9.5	13.6	14.8	10.0	11.1	13.0	12.2	10.6	12.4	7.9	13.1	11.8
MD94-5332	20.8	13.8	17.4	20.0	14.6	16.3	14.0	17.3	13.0	18.9	11.6	19.7	17.0
MD94-5396	14.4	10.3	13.5	16.8	11.4	10.6	14.0	13.5	10.3	14.2	9.0	13.3	12.7
R96-3235	13.1	9.5	12.0	13.3	9.9	11.0	12.5	12.9	10.0	12.2	8.2	12.7	11.5
TN95-53	13.6	12.2	16.2	16.6	12.4	12.4	12.0	13.5	12.1	12.5	9.8	14.8	13.4
TN95-95	15.1	12.1	15.1	15.2	11.9	11.9	12.5	14.3	10.8	12.6	9.4	14.5	13.2
V93-2329	11.8	9.9	13.0	14.4	10.5	10.5	12.5	11.9	9.5	13.7	8.4	12.4	11.6
V94-0198	13.7	11.1	14.6	15.2	11.6	12.6	13.5	14.9	12.5	14.0	11.2	13.7	13.3
V94-0436	18.5	12.4	12.0	17.1	12.2	12.7	12.0	16.2	11.3	15.9	11.4	16.4	14.5
V94-0552	13.2	10.3	17.5	14.4	12.1	12.2	13.5	12.3	11.3	14.5	9.6	13.0	12.9
V94-1295	14.5	9.4	14.1	13.9	10.4	11.6	13.0	12.2	9.4	13.2	8.0	12.2	12.0
VS94-08	18.0	15.2	16.2	20.4	17.2	14.6	13.5	21.2	12.2	19.3	12.0	18.6	17.3

†Data not included in Mean

TABLE 5 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN MANOKIN FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1999

EAST

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MD	VA	
MANOKIN	.	10/15	10/14	10/15
KS4694	.	-4	-5	-5
K1401	.	-5	-5	-5
K1423	.	0	-1	-1
LS94-3207	.	-3	-6	-5
MD93-5298	.	-2	-1	-2
MD94-5332	.	1	1	1
MD94-5396	.	4	2	2
R96-3235	.	-1	-2	-2
TN95-53	.	-1	-2	-2
TN95-95	.	-3	-3	-3
V93-2329	.	0	0	0
V94-0198	.	-3	-2	-3
V94-0436	.	1	5	3
V94-0552	.	2	3	2
V94-1295	.	1	2	1
VS94-08	.	6	2	4

SOUTH

STRAIN/ VARIETY	KNOXVILLE	PRINCETON†	SPRINGFIELD†	STARKVILLE	ULLIN	MEAN
	TN	KY	TN	MS	IL	
MANOKIN	09/20	09/28	09/19	.	10/03	09/27
KS4694	-14	-9	-3	.	-20	-18
K1401	-12	-5	-4	.	-16	-15
K1423	-1	-2	-4	.	-6	-4
LS94-3207	-10	-9	-5	.	-16	-14
MD93-5298	-5	-10	-3	.	-12	-9
MD94-5332	-2	-2	-2	.	-7	-5
MD94-5396	-1	-5	-1	.	-5	-3
R96-3235	-3	0	-3	.	-8	-6
TN95-53	-1	-8	-4	.	-7	-4
TN95-95	-3	-9	-4	.	-9	-6
V93-2329	-4	-3	-1	.	-8	-6
V94-0198	-4	-2	-1	.	-8	-6
V94-0436	-3	-8	-2	.	-6	-5
V94-0552	1	0	-1	.	-5	-3
V94-1295	-5	-7	-2	.	-11	-8
VS94-08	1	0	0	.	-10	-5

†Data not included in Mean

TABLE 5 - Continued

STRAIN/ VARIETY	DELTA						
	KEISER AR	MARIANNA AR	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	.	09/24	10/13	09/29	10/06	09/22	10/01
KS4694	.	-8	-8	-8	-8	-12	-9
K1401	.	-6	-6	-8	-6	-12	-8
K1423	.	-1	-1	-3	-1	0	-2
LS94-3207	.	-5	-15	-12	-9	-9	-10
MD93-5298	.	-6	-2	-4	-5	-7	-5
MD94-5332	.	0	0	-3	0	1	-1
MD94-5396	.	3	0	-2	-1	2	0
R96-3235	.	-3	-4	-1	-2	0	-2
TN95-53	.	.	-3	-4	-5	-7	-3
TN95-95	.	-3	-6	-4	-7	-7	-6
V93-2329	.	-2	-2	-3	-2	0	-2
V94-0198	.	-3	-6	-7	-5	-5	-5
V94-0436	.	-2	-1	-1	-2	1	-1
V94-0552	.	0	0	0	-1	1	0
V94-1295	.	-2	-2	-1	0	1	-1
VS94-08	.	9	0	2	-4	3	2

TABLE 6 - PLANT HEIGHT FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 1999

EAST

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MS	VA	
MANOKIN	37	32	26	32
KS4694	38	26	21	28
K1401	41	26	22	30
K1423	39	29	26	31
LS94-3207	30	22	19	24
MD93-5298	42	31	28	34
MD94-5332	34	24	25	28
MD94-5396	38	26	25	30
R96-3235	37	25	24	29
TN95-53	28	28	28	28
TN95-95	41	29	26	32
V93-2329	34	21	20	25
V94-0198	37	28	27	31
V94-0436	35	23	23	27
V94-0552	35	29	26	30
V94-1295	32	19	20	24
VS94-08	41	32	33	35

SOUTH

STRAIN/ VARIETY	KNOXVILLE	PRINCETON†	SPRINGFIELD†	ULLIN	MEAN
	TN	KY	TN	IL	
MANOKIN	28	40	31	37	32
KS4694	28	37	29	37	33
K1401	36	33	32	38	37
K1423	29	38	32	33	31
LS94-3207	26	41	25	32	29
MD93-5298	43	36	35	40	41
MD94-5332	25	37	32	32	29
MD94-5396	29	36	31	37	33
R96-3235	27	36	32	31	29
TN95-53	31	35	37	31	31
TN95-95	36	38	37	39	38
V93-2329	21	33	25	27	24
V94-0198	28	40	30	38	33
V94-0436	25	31	25	28	26
V94-0552	28	37	34	36	32
V94-1295	23	30	25	24	24
VS94-08	41	42	36	43	42

†Data not included in Mean

TABLE 6 - Continued

DELTA

STRAIN/ VARIETY	MARIANNA	PINE TREE	PORTAGEVILLE	PORTAGEVILLE	STONEVILLE	MEAN
	AR	AR	MO(A)	MO(B)	MS	
MANOKIN	33	21	26	31	28	28
KS4694	41	24	33	30	26	31
K1401	44	27	34	34	42	36
K1423	35	24	27	26	28	28
LS94-3207	27	19	19	18	24	21
MD93-5298	53	28	39	41	50	42
MD94-5332	32	23	26	24	28	27
MD94-5396	34	27	27	27	28	29
R96-3235	33	18	26	24	28	26
TN95-53	.	25	31	35	42	33
TN95-95	55	30	35	38	48	41
V93-2329	28	18	17	18	23	21
V94-0198	35	28	25	31	34	31
V94-0436	28	23	23	24	24	24
V94-0552	37	24	26	25	28	28
V94-1295	25	23	21	16	24	22
VS94-08	49	35	44	43	46	43

WEST

STRAIN/ VARIETY	BIXBY		MCCUNE		MEAN
	OK	OK	KS	KS	
MANOKIN	24	24	20	20	22
KS4694	23	23	18	18	21
K1401	22	22	21	21	21
K1423	25	25	19	19	22
LS94-3207	22	22	18	18	20
MD93-5298	24	24	25	25	25
MD94-5332	24	24	20	20	22
MD94-5396	22	22	19	19	21
R96-3235	23	23	18	18	21
TN95-53	27	27	23	23	25
TN95-95	27	27	22	22	25
V93-2329	17	17	16	16	17
V94-0198	24	24	20	20	22
V94-0436	18	18	19	19	19
V94-0552	25	25	18	18	21
V94-1295	19	19	16	16	17
VS94-08	28	28	26	26	27

**TABLE 7 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S,
1999**

EAST

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MS	VA	
MANOKIN	5	3	4	4
KS4694	2	2	1	2
K1401	2	2	1	2
K1423	3	3	2	3
LS94-3207	2	3	2	2
MD93-5298	3	3	2	3
MD94-5332	2	2	2	2
MD94-5396	2	2	2	2
R96-3235	3	3	2	3
TN95-53	2	2	2	2
TN95-95	3	3	2	3
V93-2329	3	3	2	3
V94-0198	5	3	2	3
V94-0436	3	2	2	2
V94-0552	4	3	3	3
V94-1295	3	2	1	2
VS94-08	4	3	4	4

SOUTH

STRAIN/ VARIETY	KNOXVILLE	PRINCETON†	SPRINGFIELD†	ULLIN	MEAN
	TN	KY	TN	IL	
MANOKIN	2	2	3	1	1
KS4694	1	1	3	1	1
K1401	1	1	2	1	1
K1423	2	2	3	1	2
LS94-3207	1	4	3	1	1
MD93-5298	2	1	2	1	2
MD94-5332	1	1	2	1	1
MD94-5396	2	2	2	1	2
R96-3235	2	1	2	1	1
TN95-53	2	1	2	1	1
TN95-95	3	1	2	1	2
V93-2329	1	2	2	1	1
V94-0198	1	2	3	1	1
V94-0436	2	1	2	1	1
V94-0552	2	2	2	1	1
V94-1295	1	2	2	1	1
VS94-08	4	4	4	2	3

†Data not included in Mean

TABLE 7 - Continued

DELTA

STRAIN/ VARIETY	MARIANNA	PINE TREE	PORTAGEVILLE	PORTAGEVILLE	STONEVILLE	MEAN
	AR	AR	MO(A)	MO(B)	MS	
MANOKIN	1	1	1	1	2	1
KS4694	2	1	2	1	2	2
K1401	2	1	2	1	2	2
K1423	1	1	2	1	2	1
LS94-3207	2	1	1	1	2	1
MD93-5298	3	1	2	2	3	2
MD94-5332	1	1	1	1	2	1
MD94-5396	1	1	1	1	2	1
R96-3235	1	1	1	1	2	1
TN95-53	.	1	1	1	3	2
TN95-95	3	1	1	1	3	2
V93-2329	1	1	1	1	2	1
V94-0198	2	1	1	1	2	1
V94-0436	1	1	1	1	2	1
V94-0552	1	1	1	1	2	1
V94-1295	1	1	1	1	2	1
VS94-08	4	3	3	3	5	4

WEST

STRAIN/ VARIETY	MCCUNE
	KS
MANOKIN	1
KS4694	1
K1401	1
K1423	1
LS94-3207	1
MD93-5298	1
MD94-5332	1
MD94-5396	1
R96-3235	1
TN95-53	1
TN95-95	1
V93-2329	1
V94-0198	1
V94-0436	1
V94-0552	1
V94-1295	1
VS94-08	1

TABLE 8 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1999**EAST**

STRAIN/ VARIETY	QUEENSTOWN		WARSAW		MEAN
	MS		VA		
MANOKIN	1		1		1
KS4694	1		2		2
K1401	1		2		2
K1423	1		1		1
LS94-3207	2		2		2
MD93-5298	1		1		1
MD94-5332	1		2		2
MD94-5396	1		1		1
R96-3235	1		1		1
TN95-53	1		2		2
TN95-95	1		2		2
V93-2329	1		2		2
V94-0198	1		2		2
V94-0436	2		2		2
V94-0552	1		2		2
V94-1295	1		1		1
VS94-08	1		2		2

SOUTH

STRAIN/ VARIETY	KNOXVILLE	PRINCETON†	SPRINGFIELD†	ULLIN	MEAN
	TN	KY	TN	IL	
MANOKIN	1	4	1	3	2
KS4694	2	5	2	3	3
K1401	2	3	2	3	3
K1423	2	2	1	3	3
LS94-3207	2	5	3	3	3
MD93-5298	1	2	2	3	2
MD94-5332	1	3	1	4	2
MD94-5396	1	3	1	3	2
R96-3235	1	4	1	3	2
TN95-53	1	2	2	2	1
TN95-95	1	4	2	2	2
V93-2329	1	2	2	3	2
V94-0198	2	3	1	3	3
V94-0436	2	2	2	2	2
V94-0552	1	3	2	4	3
V94-1295	1	3	2	3	2
VS94-08	1	3	2	3	2

†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	2	1	2	2
KS4694	1	2	2	2	2
K1401	1	2	2	2	2
K1423	1	2	2	2	2
LS94-3207	1	1	1	2	1
MD93-5298	1	2	2	2	2
MD94-5332	1	2	2	2	2
MD94-5396	1	2	1	2	2
R96-3235	1	2	2	2	2
TN95-53	2	2	2	2	2
TN95-95	1	2	2	2	2
V93-2329	1	2	2	2	2
V94-0198	1	1	1	2	1
V94-0436	1	3	1	2	2
V94-0552	2	2	2	2	2
V94-1295	1	2	2	2	2
VS94-08	1	2	2	2	2

WEST

STRAIN/ VARIETY	MCCUNE KS
MANOKIN	3
KS4694	3
K1401	3
K1423	3
LS94-3207	3
MD93-5298	3
MD94-5332	2
MD94-5396	2
R96-3235	2
TN95-53	2
TN95-95	3
V93-2329	2
V94-0198	2
V94-0436	3
V94-0552	3
V94-1295	2
VS94-08	3

PRELIMINARY GROUP IV-S

1999

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

TABLE 9 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 1999

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 X D74-7824	
2. KS4694	SHERMAN X TOANO	
3. DT97-4292	A5979 X DP3478	
4. DT97-5306	Chesapeake X DP415	
5. DT97-8885	Hutcheson X DP3478	
6. K1466	Manokin X HC89-2170	
7. V96-2554	V85-5344 X C1747	
8. V96-0332	Hutcheson X Clifford	
9. V96-2543	V85-5344 X C1747	
10. K1470	Manokin X N86-7682	
11. KY96-1218	Holladay x Linford	
12. KY96-2922	A4715 x KS5292	
13. MD96-5276	KY88-4080 X Manokin	
14. MD96-5472	Corsica X S88-1956-1	
15. MD96-5696	KY88-4080 X Corsica	
16. MD96-5765	KS4694 X Corsica	
17. R96-1096	Hamilton X Coker6955	
18. R96-1471	A5403 X Manokin	
19. TN96-115	K1192 X MANOKIN	
20. TN96-31	HOLLADAY X MANOKIN	
21. TN96-35	HOLLADAY X MANOKIN	
22. TN96-63	HOLLADAY X MANOKIN	
23. TN97-45	TN91-264 X TN90-09	
24. V95-0513	Brim X V85-5344	F5
25. V95-0596	V86-815 X V87-5036	F5
26. V95-1887	Hutcheson X Tracy M (Brach.)	F5
27. V96-8032	MS populati on	F4

TABLE 10 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP IV-S, 1999 - MEAN OF 7 LOCATIONS

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----	STEM CANKER	SCN 2	SCN 3	SCN 14	M. I. TN	M. A. TN	
MANOKIN	41.7	10/05	2	26	2	13.4	40.4	19.6	R	4.5	1.0	4.7	1.8	1.5
KS4694	38.1	8-	2	24	2	16.1	41.1	19.9	S	5.0	4.5	4.2	3.0	3.3
DT97-4292	41.4	1-	3	32	2	13.1	39.5	20.1	S	5.0	5.0	4.5	2.5	4.0
DT97-5306	39.6	1-	2	31	2	15.2	42.9+	18.8-	S	4.9	1.1	4.4	2.8	4.0
DT97-8885	38.1	8-	2	28	2	13.7	40.8	19.7	R	5.0	4.4	3.9	2.8	4.2
K1466	42.9	6+	2	27	2	13.9	41.7	19.0	R	4.3	1.7	3.6	3.6	3.4
V96-2554	38.4	2-	2	21	2	13.7	41.0	19.5	R	5.0	4.2	4.7	3.5	2.7
V96-0332	43.0	2-	2	23	2	16.1	41.2	19.5	R	4.5	4.6	4.5	2.5	3.8
V96-2543	38.6	4-	2	22	2	13.1	42.0	18.9-	R	5.0	3.8	4.6	3.2	3.0
K1470	42.1	3+	2	25	2	12.8	40.8	19.7	R	5.0	4.8	4.5	3.7	2.8
KY96-1218	38.2	1-	2	20	2	16.1	41.3	19.6	R	5.0	4.0	4.3	2.5	3.3
KY96-2922	40.1	2+	1	20	2	12.6	41.2	19.7	S	5.0	3.4	4.2	2.7	2.2
MD96-5276	40.7	2+	2	27	1	14.0	41.0	20.1	R	4.7	4.0	3.9	2.7	3.0
MD96-5472	35.0-	3-	2	32	2	15.2	41.5	19.1	R	4.0	1.7	1.7	3.8	3.3
MD96-5696	40.9	2-	2	29	2	13.8	41.8	19.3	R	5.0	5.0	3.9	1.7	3.5
MD96-5765	39.5	6-	1	25	2	16.8	42.2+	19.6	R	5.0	4.8	3.7	3.7	4.0
R96-1096	38.1	1-	2	23	2	14.6	40.8	19.9	MR	4.5	1.2	2.9	3.2	4.0
R96-1471	42.7	3+	2	25	2	14.0	41.2	19.8	R	4.5	1.2	3.0	2.4	4.0
TN96-115	39.8	1+	2	22	1	12.0	41.4	19.0	R	4.9	4.4	3.4	2.2	2.2
TN96-31	39.7	0	2	21	2	13.5	40.7	18.9-	R	5.0	4.5	4.2	3.5	2.7
TN96-35	41.2	1+	2	25	2	14.6	39.0	20.3	R	4.9	3.6	3.7	3.0	3.8
TN96-63	43.1	2+	2	26	1	12.4	39.9	19.8	R	4.8	1.3	3.7	3.7	3.8
TN97-45	34.6-	2-	2	32	2	14.7	40.4	20.6+	R	4.8	1.5	3.0	3.3	3.8
V95-0513	41.1	1-	2	21	2	12.9	41.2	19.3	S	5.0	4.7	4.0	3.0	4.0
V95-0596	40.4	1+	2	36	2	17.6	41.9	20.2	S	5.0	3.5	4.1	1.7	4.0
V95-1887	41.2	4-	2	21	2	15.2	41.3	19.0	R	5.0	4.7	4.1	2.3	3.8
V96-8032	30.7-	12-	2	26	2	14.4	41.7	19.3	S	5.0	4.5	2.7	2.8	4.0
OVERALL MEAN	39.7						41.1	19.6						
L. S. D. (.05)	4.3						1.7	0.7						
C. V.	10%						3%	3%						

TABLE 11 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1999.

STRAIN/ VARIETY	BIXBY OK	KEISER AR	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON† KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN† IL	WARSAW VA	MEAN
MANOKIN	21.6	60.3	33.2	44.9	12.8	34.0	53.7	21.5	44.5	41.7
KS4694	11.7-	51.7	20.7-	35.5-	16.7	50.1+	54.7	19.9	42.3	38.1
DT97-4292	20.7	60.7	27.4-	39.1-	14.2	39.9	55.9	16.2	46.2	41.4
DT97-5306	13.9-	56.3	28.1-	45.4	8.5	38.9	47.6-	19.4	47.2	39.6
DT97-8885	16.1-	49.3-	26.0-	41.2	19.2	40.7	50.7	18.5	42.7	38.1
K1466	24.6	59.1	25.4-	47.6	12.3	45.4+	52.9	26.2	45.0	42.9
V96-2554	17.5	53.7	26.7-	35.0-	8.6	37.4	53.4	16.9	44.8	38.4
V96-0332	18.4	60.1	29.8-	47.2	19.2	45.5+	54.6	24.3	45.7	43.0
V96-2543	16.5-	53.1	28.9-	34.7-	10.0	39.8	53.0	20.3	44.3	38.6
K1470	21.2	55.0	28.6-	47.4	15.7	42.5	53.3	31.4	47.0	42.1
KY96-1218	18.6	54.0	26.2-	38.4-	14.9	36.4	50.4	18.5	43.4	38.2
KY96-2922	18.7	55.2	28.5-	41.4	12.0	40.8	50.6	33.1	45.3	40.1
MD96-5276	20.8	59.9	26.3-	41.3	17.0	37.9	50.9	18.7	47.5	40.7
MD96-5472	9.9-	49.9	24.0-	32.6-	6.8	46.2+	39.3-	16.0	43.0	35.0-
MD96-5696	18.4	52.5	25.9-	44.2	6.4	37.6	58.4	24.3	49.5	40.9
MD96-5765	14.0-	54.6	22.0-	36.8-	14.6	44.4+	57.0	21.2	47.6	39.5
R96-1096	22.4	54.9	25.6-	37.1-	18.2	42.8	47.8-	24.2	35.9-	38.1
R96-1471	25.1	60.6	30.0	48.4	13.6	38.8	51.5	23.7	44.7	42.7
TN96-115	22.9	63.1	25.5-	38.7-	16.2	36.2	50.7	23.5	41.5	39.8
TN96-31	21.5	54.9	27.5-	36.4-	16.3	40.0	52.8	17.2	44.9	39.7
TN96-35	22.3	55.9	29.6-	43.9	15.1	37.2	55.3	20.0	44.1	41.2
TN96-63	20.8	51.9	32.0	45.6	7.4	46.8+	58.0	23.0	46.6	43.1
TN97-45	20.9	47.4-	21.8-	40.7	12.1	34.3	41.4-	21.1	35.5-	34.6-
V95-0513	19.9	56.9	22.9-	36.8-	13.9	48.5+	56.3	20.5	46.7	41.1
V95-0596	17.7	47.0-	26.1-	40.8	11.5	50.9+	51.6	21.1	48.7	40.4
V95-1887	18.3	56.2	26.6-	35.0-	14.9	48.9+	58.4	22.8	45.0	41.2
V96-8032	7.5-	28.0-	20.2-	36.3-	6.2	43.2+	40.5-	20.1	39.0	30.7-
L. S. D. (0.05)	4.5	10.4	3.3	5.5		8.8	5.2		6.6	4.3
C. V. (%)	14.8	9.2	6.1	6.7		10.3	4.9		7.2	10.2

†Data not included in Mean

TABLE 12 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1999

STRAIN/ VARIETY	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON† KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN† IL	WARSAW VA	MEAN
MANOKIN	18.9	20.0	18.5	18.2	21.1	18.3	19.9	19.6
KS4694	19.7	19.0	17.9	19.5	21.5	17.2	19.9	19.9
DT97-4292	19.2	19.5	17.9	19.7	21.8	18.2	20.5	20.1
DT97-5306	18.1	18.4	17.3	18.8	19.7	15.2	19.2	18.8
DT97-8885	17.6	19.8	18.0	20.1	21.5	18.2	19.7	19.7
K1466	18.6	18.9	17.8	18.6	20.5	17.8	18.5	19.0
V96-2554	19.4	18.9	17.9	18.9	20.9	18.1	19.4	19.5
V96-0332	19.1	19.9	17.2	18.9	20.0	17.0	19.4	19.5
V96-2543	17.8	17.6	17.3	18.5	20.8	18.2	19.8	18.9
K1470	18.5	20.2	19.1	18.8	21.0	19.7	19.9	19.7
KY96-1218	18.4	19.2	19.2	19.3	20.6	17.9	20.3	19.6
KY96-2922	18.7	18.8	18.3	19.8	20.1	18.3	21.0	19.7
MD96-5276	19.0	19.6	17.8	19.5	21.8	18.6	20.4	20.1
MD96-5472	18.0	18.2	18.0	19.2	20.5	17.2	19.7	19.1
MD96-5696	18.7	19.0	19.4	18.2	20.6	17.6	19.8	19.3
MD96-5765	19.7	18.9	19.2	19.6	19.8	16.7	20.2	19.6
R96-1096	19.3	19.2	17.0	19.3	20.9	18.4	20.8	19.9
R96-1471	18.3	20.0	18.1	18.9	22.3	18.6	19.6	19.8
TN96-115	18.6	18.5	19.2	19.4	20.0	17.8	18.6	19.0
TN96-31	18.2	18.5	17.5	17.9	20.5	18.2	19.6	18.9
TN96-35	18.5	20.1	17.9	20.4	21.8	18.8	20.6	20.3
TN96-63	18.4	20.0	17.4	18.9	21.3	18.3	20.5	19.8
TN97-45	18.2	20.8	17.2	19.9	23.6	19.7	20.4	20.6
V95-0513	18.1	18.4	17.5	19.0	20.7	18.1	20.2	19.3
V95-0596	17.9	20.8	18.3	19.7	22.1	19.1	20.4	20.2
V95-1887	18.1	17.9	17.4	19.3	20.6	16.7	19.0	19.0
V96-8032	17.2	18.9	18.1	19.1	21.4	18.1	19.9	19.3

†Data not included in Mean

TABLE 13 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1999

STRAIN/ VARIETY	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON† KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN† IL	WARSAW VA	MEAN
MANOKIN	40.2	40.2	43.8	42.2	40.7	45.7	38.9	40.4
KS4694	41.5	40.6	43.4	42.5	39.5	44.9	41.2	41.1
DT97-4292	39.0	40.6	45.3	40.4	38.7	44.5	38.9	39.5
DT97-5306	38.4	43.0	43.8	44.6	45.2	50.0	43.3	42.9
DT97-8885	37.5	42.6	42.7	41.9	40.3	46.7	41.9	40.8
K1466	36.3	42.4	41.6	43.9	43.0	46.9	42.7	41.7
V96-2554	38.5	42.3	45.2	42.2	40.1	44.5	41.8	41.0
V96-0332	40.0	40.7	43.4	42.1	42.2	44.0	40.8	41.2
V96-2543	40.8	43.8	44.7	43.7	40.6	44.9	41.3	42.0
K1470	41.7	39.9	43.6	42.3	40.9	42.4	39.3	40.8
KY96-1218	41.2	42.1	43.6	41.9	40.8	45.8	40.4	41.3
KY96-2922	37.5	43.4	44.8	42.0	43.2	45.2	40.1	41.2
MD96-5276	41.3	41.6	44.3	41.4	40.8	46.3	39.9	41.0
MD96-5472	37.3	43.3	44.0	43.4	41.4	45.2	41.9	41.5
MD96-5696	37.4	43.2	42.8	43.6	42.6	46.9	42.0	41.8
MD96-5765	38.5	43.3	40.8	43.6	42.8	47.6	43.0	42.2
R96-1096	39.4	42.1	44.7	41.3	40.9	43.6	40.2	40.8
R96-1471	42.0	40.5	44.9	43.1	39.2	46.4	41.1	41.2
TN96-115	41.1	40.8	42.3	42.9	40.3	45.4	42.1	41.4
TN96-31	38.4	42.1	43.1	42.8	40.0	46.0	40.3	40.7
TN96-35	36.0	39.9	45.5	41.2	38.9	45.4	39.1	39.0
TN96-63	37.4	40.5	46.0	41.7	40.7	46.6	39.3	39.9
TN97-45	39.5	40.9	43.4	42.7	36.6	44.1	42.2	40.4
V95-0513	35.4	44.0	44.8	43.1	42.0	45.8	41.3	41.2
V95-0596	39.3	42.4	45.1	44.3	41.9	45.1	41.8	41.9
V95-1887	36.2	43.6	41.7	43.3	42.2	45.5	41.0	41.3
V96-8032	39.3	43.7	44.8	43.0	40.8	46.3	41.8	41.7

†Data not included in Mean

TABLE 14 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1999

STRAIN/ VARIETY	BIXBY OK	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON† KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN† IL	WARSAW VA	MEAN
MANOKIN	15.3	13.8	11.9	13.0	12.1	13.4	9.7	14.1	13.4
KS4694	16.0	18.1	12.3	13.0	17.3	14.3	10.0	18.3	16.1
DT97-4292	15.5	13.6	10.7	14.0	12.6	12.9	8.7	13.5	13.1
DT97-5306	17.8	11.6	12.4	13.5	17.8	14.4	10.8	17.5	15.2
DT97-8885	14.9	13.0	11.3	10.5	14.7	12.9	9.3	15.7	13.7
K1466	15.1	13.4	13.2	13.0	12.5	14.5	12.7	14.8	13.9
V96-2554	14.7	14.6	11.0	10.5	14.1	14.1	8.2	13.7	13.7
V96-0332	17.3	15.8	14.2	13.5	15.6	17.6	10.8	16.4	16.1
V96-2543	14.3	15.3	10.5	9.5	12.5	13.2	8.3	13.0	13.1
K1470	12.9	15.0	11.0	12.5	11.3	13.1	10.0	13.4	12.8
KY96-1218	16.1	16.7	13.4	12.5	16.7	16.5	11.5	17.3	16.1
KY96-2922	13.8	12.4	11.0	10.5	11.4	13.8	10.0	13.5	12.6
MD96-5276	15.2	14.1	12.5	10.5	13.1	15.0	10.1	14.2	14.0
MD96-5472	14.9	13.4	13.5	13.5	16.5	14.5	10.8	18.4	15.2
MD96-5696	16.6	11.1	12.6	12.5	13.4	14.5	10.4	14.7	13.8
MD96-5765	18.7	13.2	13.8	12.0	18.5	16.7	10.3	19.7	16.8
R96-1096	17.9	12.5	11.8	13.0	15.0	14.9	9.6	15.4	14.6
R96-1471	15.4	17.1	11.8	13.5	12.0	13.0	10.4	14.9	14.0
TN96-115	13.6	13.7	9.9	11.0	11.6	11.7	8.1	11.8	12.0
TN96-31	14.7	11.6	11.7	13.5	13.3	15.2	8.8	14.7	13.5
TN96-35	15.8	12.7	12.8	11.0	14.7	15.6	10.4	15.9	14.6
TN96-63	13.5	.	10.6	11.0	11.2	14.0	7.7	12.7	12.4
TN97-45	15.9	15.5	13.4	13.5	14.2	12.1	10.4	16.8	14.7
V95-0513	13.9	11.6	10.6	10.5	13.8	13.0	8.3	14.3	12.9
V95-0596	18.9	15.8	16.0	13.0	17.5	18.1	12.3	19.2	17.6
V95-1887	16.2	12.8	13.1	12.5	15.9	16.4	10.5	17.1	15.2
V96-8032	16.0	16.7	11.0	11.5	14.5	12.9	9.3	15.6	14.4

†Data not included in Mean

TABLE 15 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1999

STRAIN/ VARIETY	BIXBY OK	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON† KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN† IL	WARSAW VA	MEAN
MANOKIN	25	24	30	42	29	20	35	28	26
KS4694	20	20	33	36	26	22	34	21	24
DT97-4292	24	25	41	40	32	36	39	32	32
DT97-5306	22	25	40	36	29	44	42	28	31
DT97-8885	21	22	33	39	26	42	32	23	28
K1466	21	23	27	43	34	24	43	35	27
V96-2554	21	17	21	31	24	18	29	23	21
V96-0332	21	19	27	34	28	20	35	25	23
V96-2543	21	20	24	30	25	18	28	23	22
K1470	25	19	30	39	35	18	34	26	25
KY96-1218	18	17	22	38	25	18	27	21	20
KY96-2922	16	19	21	32	21	18	33	22	20
MD96-5276	23	22	30	38	32	30	38	28	27
MD96-5472	24	24	45	33	31	44	43	27	32
MD96-5696	24	23	38	28	26	40	37	25	29
MD96-5765	19	20	29	40	27	32	37	21	25
R96-1096	22	18	28	34	25	24	30	22	23
R96-1471	23	23	28	39	29	24	34	25	25
TN96-115	19	20	24	39	26	18	31	25	22
TN96-31	20	19	22	34	24	18	25	24	21
TN96-35	21	21	30	39	29	26	37	26	25
TN96-63	26	21	28	34	32	22	32	27	26
TN97-45	27	24	40	35	29	50	38	24	32
V95-0513	19	17	21	33	23	22	30	24	21
V95-0596	26	26	42	36	40	48	43	32	36
V95-1887	18	19	23	35	24	22	29	23	21
V96-8032	17	20	34	28	29	34	33	23	26

†Data not included in Mean

TABLE 16 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1999

STRAIN/ VARIETY	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON† KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN† IL	WARSAW VA	MEAN
MANOKIN	1	1	1	3	2	1	3	2
KS4694	1	1	1	3	2	1	1	2
DT97-4292	1	2	3	3	4	1	3	3
DT97-5306	1	1	1	2	4	1	2	2
DT97-8885	1	2	2	3	3	1	2	2
K1466	1	1	3	3	2	1	3	2
V96-2554	1	1	1	2	2	1	2	2
V96-0332	1	1	2	3	2	1	2	2
V96-2543	1	1	1	3	2	1	2	2
K1470	1	1	2	3	2	1	4	2
KY96-1218	1	1	2	3	2	1	2	2
KY96-2922	1	1	2	2	2	1	1	1
MD96-5276	1	1	1	3	2	1	3	2
MD96-5472	1	2	1	3	2	1	1	2
MD96-5696	1	2	1	3	4	1	2	2
MD96-5765	1	1	2	2	2	1	1	1
R96-1096	1	1	1	3	2	1	1	2
R96-1471	1	1	2	3	2	1	3	2
TN96-115	1	1	2	4	2	1	4	2
TN96-31	1	1	1	3	2	1	3	2
TN96-35	1	1	1	3	2	1	3	2
TN96-63	1	1	1	3	2	1	4	2
TN97-45	1	1	1	3	3	1	1	2
V95-0513	1	1	2	3	2	1	2	2
V95-0596	1	2	1	3	3	1	3	2
V95-1887	1	1	2	3	2	1	2	2
V96-8032	1	2	1	3	3	1	1	2

†Data not included in Mean

**TABLE 17 - SEED QUALITY FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S,
1999**

STRAIN/ VARIETY	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON† KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN† IL	WARSAW VA	MEAN
MANOKIN	2	2	3	1	2	2	1	2
KS4694	1	2	3	1	2	2	2	2
DT97-4292	2	2	4	1	2	2	2	2
DT97-5306	2	2	4	1	2	2	2	2
DT97-8885	2	2	4	1	2	4	1	2
K1466	2	2	4	1	2	3	1	2
V96-2554	2	2	2	1	2	2	1	2
V96-0332	2	2	2	1	2	3	2	2
V96-2543	2	2	3	1	2	2	2	2
K1470	2	2	3	1	2	2	2	2
KY96-1218	2	2	1	1	2	2	2	2
KY96-2922	2	2	2	1	2	2	1	2
MD96-5276	1	2	3	1	2	2	1	1
MD96-5472	2	2	5	1	2	3	2	2
MD96-5696	2	2	3	1	2	2	1	2
MD96-5765	2	2	3	1	2	2	2	2
R96-1096	1	2	4	1	2	3	2	2
R96-1471	1	2	4	1	2	2	2	2
TN96-115	1	2	3	1	2	2	1	1
TN96-31	2	2	3	1	2	2	2	2
TN96-35	2	2	3	1	2	2	2	2
TN96-63	0	2	2	1	2	2	2	1
TN97-45	2	2	5	1	2	2	2	2
V95-0513	2	2	3	1	2	3	1	2
V95-0596	2	2	3	1	2	5	1	2
V95-1887	2	2	2	1	2	2	1	2
V96-8032	2	2	5	2	2	3	2	2

†Data not included in Mean

UNIFORM GROUP V

1999

Uniform Group V nurseries were planted at 26 locations. Data were obtained from 24 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,
1999**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	
2. MANOKIN	L70-L3048 X D74-7824	
3. N96-7157	Holladay X N91-8006	F4
4. N96-7211	Holladay X N91-8006	F4
5. DT95-15091	A5979 X DP3589	
6. DT96-15556	H5350 X DP3589	
7. DT96-6840	Hutcheson X P9641	
8. K1424	HUTCHESON X A4715	
9. K1425	HARTWIG X KS4895	
10. KY95-0146	Burleson X Hutcheson	
11. KY95-0645	Holladay X Elgin	
12. MD93-5634	K1173 X Corsica	
13. MD95-5260	S88-1855 X Manokin	
14. N94-546	COOK X CLIFFORD	F6
15. N95-198	PROLINA X CORSICA	F6
16. N96-180	N87-298 X COOK	F6
17. R95-2210	Manokin X A6297	
18. R95-798	DP415 X 9641	
19. S96-2692	MANOKIN X S91-1839	
20. S96-3284	A5979 X S91-1693	
21. TN94-213	S85-1009 X HUTCHESON	
22. TN96-58	HUTCHESON X TN89-39	
23. TN96-64	HOLLADAY X MANOKIN	
24. TN96-68	HOLLADAY X MANOKIN	
25. V92-0254	Hutcheson X V83-2298	F5
26. V93-3114	FFR544 X Hutcheson	F5
27. V94-1382	V85-5344 X Corsica	F5
28. V94-1401	V85-5344 X Corsica	F5
29. OK92-6520	Miles X Lee 74	

**TABLE 19 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM GROUP V, 1999**

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1999	98-99	97-99	1999	98-99	97-99	1999	98-99	97-99
HUTCHESON	43.0	41.8	44.3	40.9	40.9	40.7	20.1	20.5	20.6
MANOKIN	40.4	38.9	42.2	42.0	41.6	41.1	18.9	19.7	19.9
N96-7157	38.6	.	.	41.8	.	.	18.7	.	.
N96-7211	40.0	.	.	42.6	.	.	18.2	.	.
DT95-15091	40.8	.	.	42.8	.	.	18.9	.	.
DT96-15556	41.9	.	.	42.0	.	.	18.8	.	.
DT96-6840	42.4	.	.	42.1	.	.	19.3	.	.
K1424	42.6	.	.	41.7	.	.	19.9	.	.
K1425	41.9	.	.	40.8	.	.	18.5	.	.
KY95-0146	40.6	.	.	42.7	.	.	18.7	.	.
KY95-0645	38.7	.	.	40.4	.	.	19.8	.	.
MD93-5634	39.3	40.0	43.0	43.0	43.2	43.0	19.1	19.4	19.5
MD95-5260	41.6	.	.	41.8	.	.	18.9	.	.
N94-546	42.4	42.4	44.3	42.4	42.3	42.2	18.7	19.1	19.3
N95-198	36.2	38.1	.	43.2	43.4	.	19.0	19.4	.
N96-180	42.9	.	.	42.4	.	.	19.3	.	.
R95-2210	43.1	.	.	42.2	.	.	18.7	.	.
R95-798	40.6	.	.	43.2	.	.	18.6	.	.
S96-2692	42.1	.	.	42.8	.	.	18.5	.	.
S96-3284	40.4	.	.	42.0	.	.	18.7	.	.
TN94-213	42.1	39.3	.	42.6	42.5	.	18.6	18.9	.
TN96-58	43.9	.	.	42.0	.	.	19.0	.	.
TN96-64	42.4	.	.	40.2	.	.	19.3	.	.
TN96-68	42.2	.	.	41.9	.	.	19.6	.	.
V92-0254	43.5	43.2	45.6	41.6	41.4	41.3	19.9	20.4	20.5
V93-3114	41.2	41.9	.	40.7	40.5	.	19.8	20.4	.
V94-1382	38.5	.	.	43.3	.	.	18.3	.	.
V94-1401	40.5	.	.	42.7	.	.	18.9	.	.
OK92-6520	38.7	.	.	42.3	.	.	18.9	.	.

†Data not included in Mean: (1999) - Springfield, TN; Ullin, IL; Prosper, TX; Belle Mina, AL
(1998) - McCune, KS; Pittsburg, KS; Walnut, KS; Bossier City, LA
(1997) - Pine Tree, AR; Suffolk, VA

TABLE 19 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
HUTCHESON	W	10/11	2	29	2	13.9	G	T
MANOKIN	W	4-	2	30	2	12.4	T	T
N96-7157	P	7+	2	29	2	13.4	G	T
N96-7211	P	3+	2	29	2	13.5	G	T
DT95-15091	P	1+	2	38	2	14.4	T	T
DT96-15556	P	5+	2	35	2	13.9	T	T
DT96-6840	W	3+	2	33	2	14.3	G	T
K1424	W	6+	2	28	2	14.0	G	T
K1425	P	2+	2	29	2	11.8	G	BR
KY95-0146	W	1+	2	26	2	16.7	G	T
KY95-0645	P	3+	2	26	2	14.4	G	T
MD93-5634	P	4-	2	35	2	14.5	G	T
MD95-5260	W	5-	2	30	2	13.3	T	T
N94-546	P	0	2	29	2	13.9	T	T
N95-198	P	0	2	42	2	15.0	G	T
N96-180	W	5+	2	33	2	14.9	G	T
R95-2210	W	4+	2	32	2	12.5	G	T
R95-798	P	6+	2	32	2	14.3	G	T
S96-2692	W	2+	2	31	2	12.6	T	T
S96-3284	W	5+	2	35	2	14.6	T	BR
TN94-213	W	0	2	27	2	12.8	G	T
TN96-58	W	2+	2	31	2	13.2	G	T
TN96-64	P	1+	2	25	2	14.2	G	T
TN96-68	W	3-	2	27	2	14.0	T	T
V92-0254	W	2+	2	27	2	13.0	G	T
V93-3114	W	3+	2	34	2	13.6	G	T
V94-1382	P	2-	2	26	2	12.9	G	T
V94-1401	P	2-	2	27	2	12.6	G	T
OK92-6520	W	4+	2	31	2	13.6	T	T

TABLE 19 - Continued

PEST REACTIONS

STRAIN/ VARIETY	STEM CANKER	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV
HUTCHESON	R	5.0	5.0	4.3	5.0	5.0	R
MANOKIN	R	4.8	1.3	3.7	1.3	2.0	S
N96-7157	S	5.0	5.0	3.7	1.8	4.0	R
N96-7211	S	5.0	5.0	4.9	5.0	2.5	R
DT95-15091	MR	4.8	1.2	3.7	4.5	5.0	R
DT96-15556	R	4.5	1.0	4.6	4.3	1.8	R
DT96-6840	R	5.0	5.0	4.6	2.0	2.8	R
K1424	R	4.4	1.0	2.7	4.8	5.0	R
K1425	S	2.0	1.0	1.0	3.5	2.0	S
KY95-0146	R	5.0	4.3	4.4	1.0	4.3	R
KY95-0645	R	5.0	4.8	4.2	3.3	2.8	R
MD93-5634	S	5.0	5.0	4.7	5.0	4.3	S
MD95-5260	S	4.8	4.3	4.9	5.0	2.5	M
N94-546	S	5.0	5.0	4.0	2.5	5.0	R
N95-198	S	4.8	5.0	4.6	5.0	2.8	S
N96-180	S	5.0	4.9	4.3	1.0	5.0	R
R95-2210	R	5.0	1.1	2.3	2.8	4.0	S
R95-798	S	5.0	5.0	4.3	1.5	1.5	R
S96-2692	S	2.5	1.2	1.3	1.5	2.8	S
S96-3284	S	1.7	1.0	1.2	2.3	4.0	S
TN94-213	S	5.0	1.0	4.5	4.3	5.0	R
TN96-58	R	5.0	5.0	4.7	1.0	1.8	M
TN96-64	R	5.0	5.0	4.0	2.5	4.5	R
TN96-68	R	5.0	5.0	3.9	5.0	2.3	S
V92-0254	R	4.8	5.0	4.0	5.0	4.3	R
V93-3114	R	5.0	5.0	4.6	3.5	4.0	R
V94-1382	R	4.6	4.9	4.4	1.3	4.0	R
V94-1401	R	4.4	5.0	3.7	3.5	5.0	R
OK92-6520	S	4.0	1.7	1.1	1.3	4.8	S

TABLE 20 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1999

STRAIN/ VARIETY	EAST				MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	46.1	31.7	40.5	38.1	39.1
MANOKIN	46.4	28.6	38.8	34.2	37.0
N96-7157	45.2	32.6	37.6	33.6	37.2
N96-7211	47.8	34.6	34.6	28.4	36.3
DT95-15091	41.0	32.9	43.5	37.0	38.6
DT96-15556	46.0	37.6	39.9	33.9	39.4
DT96-6840	44.4	32.1	41.7	37.1	38.8
K1424	51.6	34.5	37.0	33.3	39.1
K1425	48.2	27.7	37.8	36.5	37.5
KY95-0146	44.8	32.0	47.1	35.4	39.8
KY95-0645	53.4	32.4	39.9	34.1	40.0
MD93-5634	47.9	38.2	43.6	33.4	40.8
MD95-5260	46.3	32.8	43.1	41.0	40.8
N94-546	52.4	37.0	41.8	33.2	41.1
N95-198	39.6	34.4	44.2	36.6	38.7
N96-180	46.3	28.4	40.1	36.7	37.9
R95-2210	46.7	37.0	38.7	36.7	39.8
R95-798	46.7	34.4	38.6	39.5	39.8
S96-2692	44.9	25.9	41.5	33.5	36.5
S96-3284	50.0	28.1	39.2	37.3	38.7
TN94-213	45.1	33.1	37.3	37.9	38.3
TN96-58	36.1	35.9	43.8	39.2	38.7
TN96-64	47.3	28.9	42.1	31.8	37.5
TN96-68	54.6	32.7	34.4	33.8	38.9
V92-0254	47.1	33.7	42.0	37.3	40.0
V93-3114	48.7	34.8	38.1	34.3	39.0
V94-1382	46.2	31.4	41.1	37.3	39.0
V94-1401	41.8	32.6	44.1	37.1	38.9
OK92-6520	39.8	29.9	39.1	32.2	35.3
L. S. D. (0.05)	5.1	4.5	6.2	6.4	.
C. V. (%)	6.8	8.4	9.4	11.1	.

TABLE 20 - Continued

SOUTH

STRAIN/ VARIETY	BELLE MINA†	KNOXVILLE	PRINCETON	SPRINGFIELD†	STARKVILLE	SUFFOLK	ULLIN†	MEAN
	AL	TN	KY	TN	MS	VA	IL	
HUTCHESON	8.6	45.1	16.1	20.9	49.6	34.4	32.3	36.3
MANOKIN	10.4	43.8	19.5	18.3	43.3	40.1	28.3	36.7
N96-7157	8.3	37.0	13.6	19.2	39.2	35.3	27.4	31.3
N96-7211	7.0	44.9	18.0	21.9	39.0	35.6	20.3	34.4
DT95-15091	6.4	40.5	17.5	25.3	48.6	37.0	26.0	35.9
DT96-15556	7.7	43.8	19.4	26.3	41.0	39.0	26.7	35.8
DT96-6840	10.0	45.1	18.3	23.8	51.6	41.4	36.8	39.1
K1424	7.7	47.2	15.1	23.7	45.6	39.2	44.7	36.8
K1425	9.8	44.6	19.0	23.5	42.7	41.5	29.2	37.0
KY95-0146	8.2	46.5	19.8	23.2	46.5	35.2	28.3	37.0
KY95-0645	7.3	37.1	11.9	17.6	45.9	30.4	32.2	31.3
MD93-5634	6.4	44.4	16.4	22.8	35.2	31.2	33.6	31.8
MD95-5260	8.2	47.2	25.9	18.9	37.9	39.9	33.2	37.7
N94-546	10.9	41.9	20.1	24.5	48.7	35.9	35.6	36.7
N95-198	7.7	37.9	17.0	23.2	34.7	28.3	26.7	29.5
N96-180	8.5	36.0	23.1	32.2	48.9	36.5	30.1	36.1
R95-2210	7.7	45.6	13.4	20.7	48.7	38.2	32.6	36.5
R95-798	6.2	36.2	17.2	19.3	39.6	27.8	28.2	30.2
S96-2692	10.0	42.7	16.1	18.5	49.4	39.3	39.3	36.9
S96-3284	5.7	39.3	13.9	18.4	49.1	33.6	36.0	34.0
TN94-213	12.0	45.9	23.7	26.1	46.2	33.4	39.5	37.3
TN96-58	12.6	48.0	25.1	24.3	46.7	42.5	36.3	40.6
TN96-64	9.1	50.7	22.8	11.9	46.3	40.8	25.9	40.2
TN96-68	12.0	43.5	24.7	25.2	47.6	35.7	33.0	37.9
V92-0254	8.8	44.1	23.8	27.4	46.8	38.7	34.6	38.3
V93-3114	8.0	43.9	22.9	26.2	44.5	31.3	27.8	35.6
V94-1382	7.7	39.5	22.2	17.9	31.8	31.4	29.1	31.2
V94-1401	7.0	41.5	19.6	19.2	38.4	33.7	28.8	33.3
OK92-6520	7.7	36.5	18.6	23.7	42.4	36.3	29.8	33.4
L. S. D. (0.05)	.	10.5	6.4	.	0.8	13.7	.	.
C. V. (%)	.	15.1	20.4	.	11.3	23.1	.	.

†Data not included in Mean

TABLE 20 - Continued

STRAIN/ VARIETY	DELTA					MEAN
	KEISER AR	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
HUTCHESON	57.6	57.1	50.9	52.6	58.5	55.3
MANOKIN	60.6	52.5	46.8	50.9	52.2	52.6
N96-7157	47.4	51.1	50.1	41.0	44.5	46.8
N96-7211	46.9	63.2	43.9	48.9	52.1	51.0
DT95-15091	51.6	48.8	48.4	48.8	52.4	50.0
DT96-15556	53.8	55.4	51.0	52.7	53.6	53.3
DT96-6840	59.5	51.8	51.5	51.5	59.2	54.7
K1424	55.2	63.4	56.4	50.9	45.6	54.3
K1425	62.3	58.5	42.9	51.1	57.7	54.5
KY95-0146	55.7	44.4	44.2	53.2	51.8	49.9
KY95-0645	48.9	53.7	45.0	48.7	56.6	50.6
MD93-5634	47.3	58.1	44.1	59.2	53.2	52.3
MD95-5260	62.6	53.5	49.1	54.5	53.0	54.5
N94-546	55.6	56.6	47.7	50.9	62.5	54.6
N95-198	40.8	49.3	42.5	50.0	44.8	45.5
N96-180	55.7	60.6	51.7	56.0	64.2	57.7
R95-2210	59.5	39.4	54.1	52.8	57.9	52.7
R95-798	64.2	49.9	54.9	55.9	56.9	56.4
S96-2692	58.2	53.3	43.2	60.7	59.1	54.9
S96-3284	46.9	53.9	55.2	49.9	52.2	51.6
TN94-213	60.5	42.4	45.7	60.7	61.1	54.1
TN96-58	66.2	43.1	52.8	52.6	58.8	54.7
TN96-64	58.7	50.3	52.9	51.2	57.4	54.1
TN96-68	61.4	48.5	49.2	55.7	59.5	54.8
V92-0254	59.5	51.8	55.4	55.3	56.4	55.7
V93-3114	58.6	39.5	51.0	50.8	56.3	51.3
V94-1382	57.0	50.0	40.5	51.4	54.7	50.7
V94-1401	56.8	54.4	43.0	53.3	57.8	53.1
OK92-6520	52.2	38.7	49.1	45.4	49.4	46.9
L. S. D. (0.05)	15.4	16.4	5.3	8.1	5.6	.
C. V. (%)	13.3	18.3	6.7	9.5	6.2	.

TABLE 20 - Continued

WEST

STRAIN/ VARIETY	BIXBY OK	BOSSIER CITY LA	MCCUNE KS	PROSPER† TX	STUTT GART AR	MEAN
HUTCHESON	26.9	34.1	27.4	13.5	64.4	38.2
MANOKIN	11.4	24.8	31.0	5.6	62.0	32.3
N96-7157	38.6	32.1	23.9	2.2	52.7	36.8
N96-7211	28.5	30.5	26.2	8.8	57.4	35.6
DT95-15091	28.1	27.7	26.5	10.2	62.8	36.3
DT96-15556	33.0	25.0	21.0	7.0	66.7	36.4
DT96-6840	25.9	30.8	20.6	14.6	58.9	34.1
K1424	28.7	34.5	24.7	7.0	62.0	37.5
K1425	23.7	31.6	29.4	7.3	57.4	35.5
KY95-0146	26.4	28.8	26.5	6.8	51.2	33.2
KY95-0645	20.7	21.4	21.5	8.1	55.8	29.8
MD93-5634	11.1	17.8	24.2	15.3	62.8	29.0
MD95-5260	5.8	21.0	29.3	9.5	63.6	29.9
N94-546	15.9	31.4	24.2	12.3	65.1	34.1
N95-198	15.6	18.7	23.3	12.7	57.4	28.7
N96-180	26.2	32.8	23.2	13.0	62.0	36.1
R95-2210	35.3	34.5	29.4	11.7	64.4	40.9
R95-798	17.5	31.9	19.6	9.3	58.9	32.0
S96-2692	28.1	33.7	23.6	9.0	62.8	37.1
S96-3284	28.7	30.1	19.1	9.4	60.5	34.6
TN94-213	18.0	32.8	25.0	9.2	66.7	35.6
TN96-58	27.0	34.6	27.8	5.7	66.7	39.0
TN96-64	19.5	33.0	24.1	10.9	63.6	35.0
TN96-68	20.7	25.9	26.3	11.3	63.6	34.1
V92-0254	26.5	34.5	24.9	9.0	62.0	37.0
V93-3114	32.0	29.7	22.2	10.2	62.0	36.5
V94-1382	11.7	18.5	24.8	9.5	65.1	30.0
V94-1401	20.9	24.5	25.6	8.5	62.8	33.5
OK92-6520	32.5	37.2	15.4	9.3	62.8	37.0
L. S. D. (0.05)	5.1	5.3	2.3	.	6.7	.
C. V. (%)	9.9	11.2	5.8	.	5.1	.

†Data not included in Mean

TABLE 21 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1999

OIL PERCENTAGE

STRAIN/ VARIETY	BELLE†		KNOX-		PINE		PORTAGE-		PORTAGE-		QUEENS-		SPRING-†		STONE-		WARSAW		MEAN
	MINA AL	BIXBY OK	VILLE TN	MCCUNE KS	TREE AR	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	PRINCETON KY	PROSPER† TX	TOWN MD	FIELD TN	VILLE MS	SUFFOLK VA	ULLIN† IL	WARSAW VA			
HUTCHESON	19.7	.	21.2	19.3	21.2	19.9	20.4	.	19.7	18.9	19.2	.	21.1	18.7	18.3	20.1	20.1		
MANOKIN	19.2	.	19.8	18.2	20.1	19.1	19.8	.	17.0	20.3	18.3	.	20.6	17.9	18.4	18.5	18.9		
N96-7157	18.0	.	18.9	18.7	19.2	19.5	19.0	.	18.6	18.3	17.1	.	19.9	16.3	17.5	19.3	18.7		
N96-7211	16.6	.	18.7	15.5	19.0	18.7	18.6	.	17.1	17.8	17.9	.	20.0	18.2	17.1	18.4	18.2		
DT95-15091	16.6	.	19.4	18.1	19.2	19.5	19.6	.	16.9	18.5	18.7	.	19.9	18.1	17.4	19.3	18.9		
DT96-15556	16.9	.	18.9	17.8	18.8	19.2	18.9	.	19.5	17.0	17.9	.	19.2	18.8	17.6	19.0	18.8		
DT96-6840	17.8	.	19.6	17.5	19.9	19.4	20.0	.	18.6	17.0	19.0	.	20.5	18.4	18.7	19.8	19.3		
K1424	19.1	.	20.7	18.9	21.1	20.3	20.1	.	18.0	18.2	19.3	.	20.9	19.4	18.4	19.8	19.9		
K1425	17.5	.	18.2	18.6	20.3	18.3	18.2	.	17.1	15.8	18.1	.	19.7	17.6	17.5	19.2	18.5		
KY95-0146	18.6	.	19.9	17.7	19.4	18.1	19.3	.	16.8	18.8	17.6	.	19.7	17.9	17.6	20.6	18.7		
KY95-0645	20.0	.	21.2	18.0	20.6	20.6	20.9	.	16.4	19.9	19.7	.	21.6	19.6	19.1	19.7	19.8		
MD93-5634	18.0	.	20.0	18.2	19.8	18.7	19.5	.	18.2	17.8	18.5	.	20.3	17.9	17.3	19.5	19.1		
MD95-5260	19.6	.	20.2	17.4	19.7	18.7	19.5	.	18.1	20.7	18.1	.	20.1	17.7	17.9	19.6	18.9		
N94-546	17.9	.	19.7	17.6	18.8	19.1	19.4	.	19.2	16.7	18.0	.	20.1	16.7	18.0	17.9	18.7		
N95-198	19.0	.	19.6	19.0	19.1	18.8	19.0	.	18.6	19.1	18.6	.	20.0	18.2	18.1	19.2	19.0		
N96-180	18.2	.	19.1	18.2	19.7	19.6	19.7	.	19.4	17.9	19.1	.	21.5	17.7	18.0	19.2	19.3		
R95-2210	18.2	.	18.4	17.1	19.7	19.0	19.1	.	17.9	18.4	18.0	.	19.9	18.6	17.6	19.2	18.7		
R95-798	18.3	.	19.6	16.9	20.2	18.8	19.1	.	17.8	16.3	18.4	.	19.9	17.4	17.2	18.1	18.6		
S96-2692	18.6	.	18.7	17.2	18.9	19.1	19.1	.	17.7	18.7	17.8	.	19.3	17.7	17.6	19.5	18.5		
S96-3284	17.6	.	19.1	17.1	19.1	19.2	18.8	.	18.6	17.8	18.5	.	19.3	17.9	17.3	19.4	18.7		
TN94-213	17.2	.	18.9	17.7	19.8	18.6	18.6	.	17.8	16.4	17.8	.	19.3	17.6	17.3	19.5	18.6		
TN96-58	18.1	.	19.7	18.7	19.6	18.7	19.4	.	17.5	18.3	18.7	.	19.2	18.0	17.3	20.2	19.0		
TN96-64	19.1	.	19.8	18.1	20.8	19.7	19.8	.	16.3	19.8	18.7	.	20.1	18.6	18.3	20.8	19.3		
TN96-68	19.2	.	20.8	16.9	19.8	19.9	20.3	.	18.1	20.2	18.9	.	21.8	19.3	18.3	20.3	19.6		
V92-0254	19.7	.	21.0	18.1	20.8	20.2	20.4	.	17.4	19.4	20.0	.	21.8	18.7	19.5	20.1	19.9		
V93-3114	19.9	.	21.4	17.9	20.8	19.8	20.2	.	17.7	18.4	19.1	.	21.9	19.2	19.6	19.5	19.8		
V94-1382	17.7	.	19.3	15.1	19.9	18.5	18.0	.	17.8	17.0	18.6	.	19.1	16.4	16.8	20.2	18.3		
V94-1401	18.9	.	19.4	18.5	20.1	18.6	18.7	.	18.2	17.5	18.3	.	19.9	17.9	18.3	19.3	18.9		
OK92-6520	17.5	.	19.4	17.9	18.9	19.4	19.1	.	19.5	18.3	18.2	.	20.0	18.3	17.3	18.4	18.9		

†Data not included in Mean

TABLE 21 - Continued

PROTEIN PERCENTAGE

STRAIN/ VARIETY	BELLE†		KNOX-		PINE		PORTAGE-		PORTAGE-		QUEENS-		SPRING-†		STONE-		WARSAW		MEAN
	MINA AL	BIXBY OK	VILLE TN	MCCUNE KS	TREE AR	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)	PRINCETON KY	PROSPER† TX	TOWN MD	FIELD TN	VILLE MS	SUFFOLK VA	ULLIN† IL	VA	VA		
HUTCHESON	44.2	.	42.6	38.1	40.8	41.1	41.0	.	40.3	45.0	42.9	.	40.8	43.3	46.8	37.6	40.9		
MANOKIN	44.2	.	43.1	39.4	41.6	41.8	40.1	.	44.6	41.7	43.1	.	42.0	43.9	45.5	40.8	42.0		
N96-7157	44.5	.	42.7	39.9	41.7	41.4	40.7	.	41.4	42.4	43.4	.	41.1	44.1	45.2	41.7	41.8		
N96-7211	46.6	.	44.9	38.7	42.7	41.9	43.2	.	44.4	45.2	44.0	.	41.5	42.7	46.9	42.0	42.6		
DT95-15091	46.6	.	43.1	39.9	44.0	42.4	41.5	.	46.5	42.9	43.1	.	41.7	45.1	46.7	41.0	42.8		
DT96-15556	45.7	.	42.2	40.2	42.1	41.8	40.8	.	42.4	45.6	43.7	.	42.0	42.9	44.9	42.1	42.0		
DT96-6840	47.1	.	43.3	40.8	41.9	41.5	41.7	.	42.1	47.3	42.8	.	42.7	43.1	45.3	41.2	42.1		
K1424	47.1	.	43.5	38.0	41.0	41.3	42.1	.	44.5	45.9	42.6	.	42.0	42.9	47.5	38.9	41.7		
K1425	42.4	.	41.9	37.3	40.0	40.5	39.5	.	43.1	40.7	41.2	.	39.6	42.4	42.7	42.5	40.8		
KY95-0146	44.7	.	44.1	37.5	43.8	42.4	42.6	.	45.6	43.1	44.7	.	42.8	44.8	45.3	38.7	42.7		
KY95-0645	41.6	.	40.7	41.0	39.4	37.9	38.4	.	45.2	42.5	40.6	.	38.1	40.8	42.9	41.9	40.4		
MD93-5634	45.2	.	45.1	37.0	43.8	43.9	42.7	.	43.6	45.5	44.6	.	43.3	47.3	47.4	39.0	43.0		
MD95-5260	44.4	.	42.3	40.2	42.0	41.2	40.8	.	41.8	41.6	43.0	.	42.7	43.4	45.5	40.7	41.8		
N94-546	45.4	.	42.8	39.7	43.6	41.0	41.6	.	42.1	45.1	43.4	.	41.6	44.7	44.8	43.5	42.4		
N95-198	45.8	.	45.1	38.1	44.6	43.6	43.8	.	41.3	45.2	44.6	.	43.6	45.7	46.8	41.5	43.2		
N96-180	45.2	.	45.8	36.7	43.1	42.6	42.1	.	42.0	48.4	43.2	.	42.4	45.3	46.6	40.3	42.4		
R95-2210	44.7	.	43.2	41.3	41.6	40.8	40.6	.	43.9	44.5	42.9	.	41.1	42.8	46.0	43.3	42.2		
R95-798	47.5	.	44.6	38.7	43.2	42.6	42.9	.	44.4	47.8	44.2	.	43.5	45.4	48.0	42.3	43.2		
S96-2692	44.5	.	44.6	40.4	42.1	41.2	42.0	.	44.3	42.5	44.4	.	42.8	44.3	44.8	41.7	42.8		
S96-3284	46.5	.	44.3	36.7	42.1	41.2	42.4	.	43.6	45.6	42.9	.	42.2	43.4	46.6	41.3	42.0		
TN94-213	46.3	.	44.2	38.8	42.9	42.2	42.5	.	43.3	47.9	44.2	.	42.7	44.1	46.0	41.4	42.6		
TN96-58	45.4	.	44.2	36.4	43.2	42.1	41.9	.	44.9	43.8	43.4	.	43.1	42.9	46.9	38.3	42.0		
TN96-64	42.6	.	41.0	38.1	40.2	37.7	38.9	.	47.5	41.0	39.9	.	39.0	40.7	44.6	39.2	40.2		
TN96-68	44.4	.	42.5	39.5	41.6	41.0	40.5	.	45.2	43.6	43.0	.	41.3	43.8	45.4	40.5	41.9		
V92-0254	45.6	.	42.9	40.1	41.0	41.0	40.1	.	45.3	45.3	42.3	.	40.1	43.4	45.0	40.2	41.6		
V93-3114	44.3	.	40.9	36.7	40.1	40.1	39.9	.	43.8	41.6	41.5	.	39.6	42.1	43.3	42.2	40.7		
V94-1382	46.7	.	45.3	39.6	42.7	43.3	43.6	.	42.4	45.8	44.1	.	44.1	47.3	47.2	40.8	43.3		
V94-1401	45.9	.	45.5	38.0	43.2	42.1	42.7	.	43.0	46.6	44.1	.	43.4	44.1	45.0	41.3	42.7		
OK92-6520	48.5	.	44.2	39.0	43.0	41.8	42.5	.	39.9	45.6	43.6	.	42.9	44.3	48.7	41.6	42.3		

†Data not included in Mean

TABLE 21 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	BELLE†		KNOX-		PINE		PORTAGE-	PORTAGE-	PRINCETON KY	PROSPER† TX	QUEENS-	SPRING-†	STONE-	SUFFOLK VA	ULLIN†	WARSAW	MEAN
	MINA AL	BIXBY OK	VILLE TN	MCCUNE KS	TREE AR	PLYMOUTH NC	VILLE MO(A)	VILLE MO(B)			TOWN MD	FIELD TN	VILLE MS		ILL IL	VA	
HUTCHESON	11.7	16.7	13.8	13.4	16.2	12.5	13.3	13.4	12.5	10.9	13.8	13.2	15.2	10.9	10.8	15.6	13.9
MANOKIN	9.8	14.9	10.3	12.5	13.8	12.2	11.9	13.4	12.5	10.6	11.6	11.0	13.2	9.9	10.7	13.2	12.4
N96-7157	12.2	17.0	11.4	13.7	15.8	14.2	13.2	11.7	13.0	10.3	13.0	13.9	14.1	9.4	9.7	14.1	13.4
N96-7211	11.0	15.9	12.5	12.1	14.8	14.1	12.7	12.5	12.5	10.6	13.3	11.0	15.8	10.8	10.2	14.8	13.5
DT95-15091	12.7	18.1	13.2	14.8	15.0	14.4	13.4	12.5	14.0	8.7	13.9	15.2	14.1	12.3	11.4	17.4	14.4
DT96-15556	12.1	18.5	12.6	13.9	14.9	13.8	12.8	13.0	11.5	11.3	13.4	14.6	14.2	11.8	12.0	16.1	13.9
DT96-6840	12.2	16.4	15.0	13.6	16.9	12.1	13.7	13.1	14.0	12.6	13.8	15.7	15.6	11.0	11.0	16.9	14.3
K1424	11.5	17.2	12.6	13.4	16.1	13.4	13.8	13.5	14.5	9.3	13.0	13.8	14.0	9.9	10.8	16.9	14.0
K1425	9.8	16.7	10.9	12.2	13.0	11.5	10.7	10.3	12.5	9.2	11.0	10.4	11.8	6.7	9.7	14.4	11.8
KY95-0146	13.8	20.2	17.3	13.4	19.8	13.7	16.6	16.8	17.5	14.2	15.7	14.4	18.3	12.1	13.3	18.9	16.7
KY95-0645	11.2	18.3	13.0	16.6	16.3	14.7	12.6	13.1	11.0	13.7	15.0	11.4	14.5	11.6	10.0	16.1	14.4
MD93-5634	10.5	17.3	13.9	12.4	16.3	13.6	13.8	14.9	12.0	11.8	14.3	12.6	16.7	11.3	11.0	16.9	14.5
MD95-5260	10.1	16.7	12.2	13.6	14.7	12.8	12.4	13.1	11.5	10.2	12.4	10.9	14.3	10.2	11.0	15.1	13.3
N94-546	10.1	17.0	12.0	15.2	16.6	12.8	13.0	12.9	12.5	11.2	12.9	14.4	14.7	9.9	11.0	17.7	13.9
N95-198	11.8	15.9	13.5	14.6	16.2	14.8	15.1	13.9	12.5	14.0	16.3	12.7	17.6	12.2	11.8	17.5	15.0
N96-180	12.4	19.9	13.4	12.3	17.4	14.7	13.8	14.4	12.0	13.5	14.7	15.9	17.1	11.6	13.0	17.2	14.9
R95-2210	11.1	19.1	10.4	14.5	13.1	11.7	11.4	10.8	12.0	10.8	11.3	11.1	12.3	9.9	9.3	14.0	12.5
R95-798	13.6	17.8	12.6	14.2	16.2	12.9	13.9	14.4	14.0	10.5	13.6	14.7	13.9	10.5	11.5	18.0	14.3
S96-2692	12.4	13.3	11.9	12.2	14.8	11.5	11.5	11.9	11.5	11.1	12.8	12.4	13.7	10.7	10.9	15.8	12.6
S96-3284	13.1	14.9	14.5	12.4	17.3	13.9	15.1	14.0	14.0	12.8	14.9	14.9	14.1	12.0	15.1	18.6	14.6
TN94-213	10.0	16.7	10.9	14.9	14.9	11.9	11.9	11.3	10.5	10.1	11.7	11.5	15.2	9.7	9.1	14.5	12.8
TN96-58	9.8	14.6	11.8	13.6	16.6	11.4	13.2	12.1	14.0	9.6	11.8	11.2	14.3	9.8	10.2	14.7	13.2
TN96-64	11.0	16.5	13.4	13.0	16.1	13.7	13.1	14.0	13.5	11.5	13.9	10.6	16.3	10.9	12.7	15.6	14.2
TN96-68	9.7	19.9	12.1	12.5	15.6	13.1	12.8	12.8	12.5	11.5	13.3	11.0	16.7	11.7	11.3	15.3	14.0
V92-0254	11.0	14.3	11.9	12.6	15.3	12.0	13.2	12.5	13.0	10.9	12.7	10.5	14.6	9.6	10.6	14.8	13.0
V93-3114	12.4	15.6	12.6	14.7	15.8	12.2	13.3	12.9	11.5	10.0	13.0	13.8	14.7	10.3	10.9	16.1	13.6
V94-1382	9.7	15.9	11.8	12.6	15.0	11.7	11.4	12.0	12.0	9.9	12.3	10.1	14.0	10.3	10.5	16.1	12.9
V94-1401	11.6	14.7	12.1	13.6	14.1	11.4	11.4	11.3	13.0	10.8	11.5	9.5	13.9	9.5	9.9	14.7	12.6
OK92-6520	12.0	14.3	12.6	11.4	17.6	12.8	13.7	12.3	13.5	11.8	13.2	13.0	14.8	10.9	11.2	15.5	13.6

†Data not included in Mean

TABLE 22 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN HUTCHESON FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1999

EAST					
STRAIN/ VARIETY	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
HUTCHESON	.	10/13	10/23	10/24	10/20
MANOKIN	.	-5	-8	-10	-8
N96-7157	.	9	4	5	6
N96-7211	.	9	4	-2	4
DT95-15091	.	0	1	2	1
DT96-15556	.	9	4	7	7
DT96-6840	.	3	4	2	3
K1424	.	9	4	7	7
K1425	.	0	3	1	1
KY95-0146	.	0	3	1	1
KY95-0645	.	9	3	0	4
MD93-5634	.	0	-4	-7	-4
MD95-5260	.	-5	-5	-7	-6
N94-546	.	0	-3	-3	-2
N95-198	.	3	0	-2	0
N96-180	.	3	6	2	4
R95-2210	.	3	4	1	3
R95-798	.	9	4	5	6
S96-2692	.	0	0	2	1
S96-3284	.	3	4	5	4
TN94-213	.	0	0	-1	0
TN96-58	.	0	2	0	1
TN96-64	.	0	-1	-3	-1
TN96-68	.	0	-5	-9	-5
V92-0254	.	0	1	1	1
V93-3114	.	3	5	4	4
V94-1382	.	0	-1	-5	-2
V94-1401	.	0	-1	-5	-2
OK92-6520	.	3	4	3	3

TABLE 22 - Continued

SOUTH

STRAIN/ VARIETY	BELLE MINA†	KNOXVILLE	PRINCETON	SPRINGFIELD†	STARKVILLE	SUFFOLK	ULLINT†	MEAN
	AL	TN	KY	TN	MS	VA	IL	
HUTCHESON	09/21	09/30	10/07	10/02	.	10/11	10/02	10/06
MANOKIN	-8	-4	-1	-5	.	-6	-1	-4
N96-7157	14	15	6	8	.	8	11	9
N96-7211	-1	1	1	-3	.	8	4	3
DT95-15091	3	1	2	1	.	0	1	1
DT96-15556	6	6	5	6	.	8	7	6
DT96-6840	4	5	5	7	.	5	7	5
K1424	4	8	4	5	.	8	7	7
K1425	3	1	-1	-3	.	5	3	2
KY95-0146	-1	0	2	4	.	0	0	1
KY95-0645	-4	4	-4	-4	.	8	2	3
MD93-5634	-7	-3	-4	-5	.	-1	-4	-3
MD95-5260	-7	-3	-3	-5	.	-6	0	-4
N94-546	-6	-1	-1	0	.	-4	3	-2
N95-198	-4	-1	-2	-3	.	-2	6	-2
N96-180	4	3	6	7	.	10	9	7
R95-2210	7	4	5	1	.	8	4	6
R95-798	10	10	5	7	.	8	8	8
S96-2692	4	2	3	2	.	5	5	4
S96-3284	9	5	7	5	.	8	5	7
TN94-213	-4	-3	-1	-1	.	3	0	0
TN96-58	-6	0	0	-2	.	8	0	3
TN96-64	-6	0	-2	-2	.	8	2	2
TN96-68	-10	-3	-1	-5	.	-1	0	-2
V92-0254	1	1	1	4	.	8	2	3
V93-3114	9	2	2	6	.	5	4	3
V94-1382	-6	-3	-3	-4	.	-2	0	-3
V94-1401	-6	-2	-1	-4	.	3	1	0
OK92-6520	4	4	0	2	.	5	3	3

†Data not included in Mean

TABLE 22 - Continued

STRAIN/ VARIETY	DELTA					
	KEISER AR	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
HUTCHESON	.	10/15	10/06	10/11	09/26	10/07
MANOKIN	.	-2	-5	-2	-3	-3
N96-7157	.	10	8	8	9	9
N96-7211	.	7	3	3	7	5
DT95-15091	.	4	1	-3	4	2
DT96-15556	.	9	3	0	6	5
DT96-6840	.	6	3	0	6	4
K1424	.	11	7	4	5	7
K1425	.	7	1	2	5	4
KY95-0146	.	2	1	2	2	2
KY95-0645	.	9	5	4	8	7
MD93-5634	.	-2	-7	-6	-3	-4
MD95-5260	.	-2	-6	-6	-4	-4
N94-546	.	6	3	-1	6	3
N95-198	.	0	1	-5	5	0
N96-180	.	9	7	4	7	7
R95-2210	.	6	4	4	6	5
R95-798	.	6	6	5	7	6
S96-2692	.	5	0	-1	4	2
S96-3284	.	9	4	6	5	6
TN94-213	.	0	-3	-1	5	0
TN96-58	.	6	1	1	5	3
TN96-64	.	6	1	3	5	4
TN96-68	.	1	-6	-2	-3	-3
V92-0254	.	2	3	-1	4	2
V93-3114	.	6	5	3	2	4
V94-1382	.	1	-3	-2	-2	-1
V94-1401	.	1	-5	-3	-2	-2
OK92-6520	.	11	6	2	3	6

TABLE 22 - Continued

WEST						
STRAIN/ VARIETY	BIXBY OK	BOSSIER CITY LA	MCCUNE KS	PROSPER† TX	STUTT GART AR	MEAN
HUTCHESON	.	10/15	.	09/06	.	10/15
MANOKIN	.	1	.	0	.	1
N96-7157	.	-2	.	18	.	-2
N96-7211	.	-6	.	10	.	-6
DT95-15091	.	0	.	5	.	0
DT96-15556	.	-3	.	13	.	-3
DT96-6840	.	-6	.	13	.	-6
K1424	.	-3	.	15	.	-3
K1425	.	-4	.	12	.	-4
KY95-0146	.	3	.	12	.	3
KY95-0645	.	-8	.	16	.	-8
MD93-5634	.	-3	.	3	.	-3
MD95-5260	.	-7	.	-4	.	-7
N94-546	.	2	.	2	.	2
N95-198	.	0	.	13	.	0
N96-180	.	-2	.	12	.	-2
R95-2210	.	0	.	18	.	0
R95-798	.	1	.	14	.	1
S96-2692	.	-1	.	14	.	-1
S96-3284	.	0	.	5	.	0
TN94-213	.	-1	.	6	.	-1
TN96-58	.	-5	.	6	.	-5
TN96-64	.	-5	.	4	.	-5
TN96-68	.	2	.	-4	.	2
V92-0254	.	-3	.	8	.	-3
V93-3114	.	-6	.	1	.	-6
V94-1382	.	-7	.	-4	.	-7
V94-1401	.	-7	.	0	.	-7
OK92-6520	.	-1	.	14	.	-1

†Data not included in Mean

TABLE 23 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1999

STRAIN/ VARIETY	EAST				MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	32	31	29	25	29
MANOKIN	40	29	31	22	31
N96-7157	36	33	32	23	31
N96-7211	36	33	29	21	30
DT95-15091	36	41	40	31	37
DT96-15556	39	34	32	24	32
DT96-6840	48	32	32	25	34
K1424	37	33	34	20	31
K1425	34	30	31	22	29
KY95-0146	32	30	28	19	27
KY95-0645	39	25	27	20	28
MD93-5634	36	39	35	22	33
MD95-5260	31	28	30	24	28
N94-546	35	31	34	20	30
N95-198	43	48	43	30	41
N96-180	40	35	35	25	34
R95-2210	39	32	33	27	33
R95-798	38	29	31	24	30
S96-2692	37	30	33	23	31
S96-3284	43	35	39	28	36
TN94-213	39	28	27	20	28
TN96-58	45	34	33	24	34
TN96-64	33	27	27	18	26
TN96-68	37	35	28	18	30
V92-0254	29	29	32	22	28
V93-3114	41	38	34	26	35
V94-1382	40	22	27	18	27
V94-1401	36	26	30	20	28
OK92-6520	42	35	33	23	33

TABLE 23 - Continued

SOUTH

STRAIN/ VARIETY	BELLE MINA†	KNOXVILLE	PRINCETON	SPRINGFIELD†	SUFFOLK	ULLIN†	MEAN
	AL	TN	KY	TN	VA	IL	
HUTCHESON	31	29	37	26	32	37	33
MANOKIN	29	30	40	28	32	37	34
N96-7157	28	31	38	25	30	34	33
N96-7211	29	30	38	26	29	35	32
DT95-15091	42	44	48	33	45	45	45
DT96-15556	38	37	43	30	37	44	39
DT96-6840	33	35	36	27	30	40	34
K1424	32	31	39	26	33	39	34
K1425	27	29	38	26	35	36	34
KY95-0146	25	28	36	23	25	36	30
KY95-0645	24	25	33	24	28	30	29
MD93-5634	31	34	34	31	36	37	35
MD95-5260	31	31	39	29	34	39	35
N94-546	29	31	41	25	30	37	34
N95-198	40	39	44	38	41	53	41
N96-180	36	36	45	27	32	42	38
R95-2210	36	32	40	32	28	41	33
R95-798	35	31	39	28	32	39	34
S96-2692	32	32	39	26	33	42	35
S96-3284	39	37	43	34	31	43	37
TN94-213	28	31	36	26	29	34	32
TN96-58	27	32	43	28	35	34	36
TN96-64	26	26	34	22	27	30	29
TN96-68	27	25	38	24	30	31	31
V92-0254	28	30	37	24	29	34	32
V93-3114	39	33	46	33	31	45	37
V94-1382	22	26	34	22	26	29	28
V94-1401	29	28	38	26	28	34	31
OK92-6520	32	26	40	28	30	33	32

†Data not included in Mean

TABLE 23 - Continued

STRAIN/ VARIETY	DELTA					MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS		
HUTCHESON	24	30	27	26	27	
MANOKIN	24	34	25	24	27	
N96-7157	23	29	29	24	26	
N96-7211	23	33	30	26	28	
DT95-15091	32	44	33	38	37	
DT96-15556	33	41	34	36	36	
DT96-6840	25	37	32	32	32	
K1424	22	29	24	20	24	
K1425	24	29	26	26	26	
KY95-0146	20	26	26	26	24	
KY95-0645	21	28	25	20	24	
MD93-5634	32	40	42	46	40	
MD95-5260	29	32	28	30	30	
N94-546	25	27	28	24	26	
N95-198	37	51	46	54	47	
N96-180	28	34	34	26	30	
R95-2210	29	39	32	34	34	
R95-798	24	31	48	36	35	
S96-2692	25	30	27	30	28	
S96-3284	31	40	32	32	34	
TN94-213	21	25	24	26	24	
TN96-58	23	30	28	28	27	
TN96-64	20	26	24	26	24	
TN96-68	22	28	20	28	24	
V92-0254	21	29	25	28	26	
V93-3114	31	37	32	28	32	
V94-1382	19	22	23	32	24	
V94-1401	23	27	23	28	25	
OK92-6520	19	31	28	40	30	

TABLE 23 - Continued

STRAIN/ VARIETY	WEST						MEAN
	BIXBY OK	BOSSIER LA	CITY	MCCUNE KS	PROSPER† TX	STUTTGART AR	
HUTCHESON	22	29		20	16	35	26
MANOKIN	26	32		21	17	33	28
N96-7157	24	30		21	14	33	27
N96-7211	24	31		22	15	37	29
DT95-15091	27	44		29	23	38	35
DT96-15556	27	42		25	24	39	33
DT96-6840	22	34		25	20	48	32
K1424	21	30		19	18	35	26
K1425	25	31		21	17	35	28
KY95-0146	21	26		18	13	34	25
KY95-0645	23	28		19	12	33	26
MD93-5634	24	37		21	25	43	31
MD95-5260	22	31		24	17	34	28
N94-546	32	29		18	16	31	28
N95-198	25	47		26	36	49	37
N96-180	26	36		24	19	36	31
R95-2210	26	35		24	21	33	29
R95-798	22	32		20	22	36	28
S96-2692	22	35		23	21	47	32
S96-3284	25	38		27	20	37	32
TN94-213	21	28		19	15	32	25
TN96-58	24	32		20	13	37	28
TN96-64	21	25		17	14	29	23
TN96-68	23	25		19	15	35	26
V92-0254	19	29		18	16	33	25
V93-3114	24	37		24	19	39	31
V94-1382	19	23		18	13	36	24
V94-1401	21	28		21	15	29	25
OK92-6520	27	34		24	23	.	28

†Data not included in Mean

**TABLE 24 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP V,
1999**

STRAIN/ VARIETY	EAST				MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	3	4	3	1	3
MANOKIN	4	3	3	2	3
N96-7157	4	3	3	2	3
N96-7211	5	3	3	1	3
DT95-15091	4	4	3	2	3
DT96-15556	3	4	3	1	3
DT96-6840	4	4	4	2	3
K1424	3	3	2	1	2
K1425	3	3	3	2	3
KY95-0146	3	3	3	2	3
KY95-0645	3	3	2	1	2
MD93-5634	3	3	2	1	2
MD95-5260	3	3	3	2	3
N94-546	4	3	3	1	3
N95-198	2	3	2	1	2
N96-180	3	3	3	1	2
R95-2210	3	3	3	2	3
R95-798	4	4	3	1	3
S96-2692	3	4	3	1	3
S96-3284	5	3	3	2	3
TN94-213	5	3	3	1	3
TN96-58	3	3	3	1	2
TN96-64	3	3	2	1	2
TN96-68	4	4	4	2	3
V92-0254	3	4	3	1	3
V93-3114	4	3	2	1	3
V94-1382	4	3	3	1	3
V94-1401	4	4	3	1	3
OK92-6520	3	3	3	2	3

TABLE 24 - Continued

SOUTH

STRAIN/ VARIETY	BELLE MINA†	KNOXVILLE	PRINCETON	SPRINGFIELD†	SUFFOLK	ULLIN†	MEAN
	AL	TN	KY	TN	VA	IL	
HUTCHESON	1	2	1	1	2	1	2
MANOKIN	2	2	3	3	2	1	2
N96-7157	1	1	2	2	2	1	2
N96-7211	1	2	1	3	2	1	2
DT95-15091	2	3	2	2	3	2	2
DT96-15556	2	2	3	2	2	2	2
DT96-6840	1	3	3	2	2	2	3
K1424	1	1	1	2	2	1	1
K1425	1	1	2	2	3	1	2
KY95-0146	1	2	2	2	2	1	2
KY95-0645	1	1	1	2	2	1	1
MD93-5634	1	1	1	2	2	1	1
MD95-5260	1	2	2	2	2	1	2
N94-546	1	2	2	2	2	1	2
N95-198	1	2	1	2	2	2	2
N96-180	1	1	2	1	2	1	2
R95-2210	2	2	3	2	2	1	2
R95-798	1	1	1	2	2	1	1
S96-2692	2	2	3	2	3	2	2
S96-3284	1	2	2	2	2	1	2
TN94-213	1	1	1	1	1	1	1
TN96-58	1	2	2	2	2	1	2
TN96-64	1	1	1	2	2	1	1
TN96-68	1	1	1	3	2	1	1
V92-0254	1	2	3	2	2	1	2
V93-3114	1	2	2	1	2	1	2
V94-1382	1	1	2	1	1	1	1
V94-1401	1	1	2	2	2	1	2
OK92-6520	3	3	2	3	3	1	2

†Data not included in Mean

TABLE 24 - Continued

STRAIN/ VARIETY	DELTA					MEAN
	PINE TREE AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS		
HUTCHESON	2	1	1	2	1	
MANOKIN	2	1	1	2	2	
N96-7157	2	2	1	2	2	
N96-7211	2	1	1	2	2	
DT95-15091	2	2	2	2	2	
DT96-15556	2	3	2	4	3	
DT96-6840	2	2	1	3	2	
K1424	1	2	1	2	2	
K1425	2	1	1	2	2	
KY95-0146	1	1	1	2	1	
KY95-0645	1	1	1	2	1	
MD93-5634	1	1	2	3	2	
MD95-5260	2	1	1	2	2	
N94-546	1	1	1	2	1	
N95-198	2	2	2	3	2	
N96-180	1	1	1	2	1	
R95-2210	2	2	1	2	2	
R95-798	2	2	1	2	2	
S96-2692	2	2	1	2	2	
S96-3284	2	2	2	2	2	
TN94-213	2	1	1	2	1	
TN96-58	1	1	1	2	1	
TN96-64	1	1	1	2	1	
TN96-68	2	1	1	2	1	
V92-0254	1	1	1	2	1	
V93-3114	2	2	1	2	2	
V94-1382	1	1	1	2	1	
V94-1401	1	1	1	2	1	
OK92-6520	2	2	1	2	2	

TABLE 24 - Continued

STRAIN/ VARIETY	WEST					MEAN
	BOSSIER CITY LA	MCCUNE KS	PROSPER† TX	STUTTGART AR		
HUTCHESON	1	1	1	1	1	1
MANOKIN	1	1	1	2	1	1
N96-7157	1	1	1	1	1	1
N96-7211	2	1	1	2	1	1
DT95-15091	2	1	2	2	1	1
DT96-15556	2	1	2	2	2	2
DT96-6840	2	1	2	3	2	2
K1424	2	1	1	1	1	1
K1425	2	1	1	1	1	1
KY95-0146	2	1	1	1	1	1
KY95-0645	1	1	1	1	1	1
MD93-5634	2	1	1	2	2	2
MD95-5260	1	1	1	2	1	1
N94-546	2	1	1	2	2	2
N95-198	2	1	2	2	2	2
N96-180	1	1	1	1	1	1
R95-2210	2	1	2	2	1	1
R95-798	1	1	1	1	1	1
S96-2692	1	1	1	2	1	1
S96-3284	1	1	2	2	1	1
TN94-213	1	1	1	1	1	1
TN96-58	1	1	1	1	1	1
TN96-64	2	1	1	1	1	1
TN96-68	1	1	1	1	1	1
V92-0254	2	1	1	1	1	1
V93-3114	2	1	1	2	1	1
V94-1382	1	1	1	2	1	1
V94-1401	1	1	1	1	1	1
OK92-6520	1	1	2	.	1	1

†Data not included in Mean

TABLE 25 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1999

EAST

STRAIN/ VARIETY	PLYMOUTH	QUEENSTOWN	WARSAW	MEAN
	NC	MD	VA	
HUTCHESON	3	1	2	2
MANOKIN	3	1	2	2
N96-7157	2	1	1	1
N96-7211	2	1	2	2
DT95-15091	3	1	2	2
DT96-15556	2	1	2	2
DT96-6840	2	1	2	2
K1424	2	1	1	1
K1425	2	1	2	2
KY95-0146	2	1	2	2
KY95-0645	3	2	2	2
MD93-5634	3	1	2	2
MD95-5260	3	1	2	2
N94-546	2	1	2	2
N95-198	2	1	2	2
N96-180	2	1	1	1
R95-2210	3	1	2	2
R95-798	2	1	1	1
S96-2692	2	1	2	2
S96-3284	2	1	2	2
TN94-213	2	1	2	2
TN96-58	2	1	2	2
TN96-64	2	1	2	2
TN96-68	3	1	2	2
V92-0254	2	1	2	2
V93-3114	2	1	2	2
V94-1382	3	1	2	2
V94-1401	2	1	2	2
OK92-6520	3	1	2	2

TABLE 25 - Continued

SOUTH

STRAIN/ VARIETY	BELLE MINA†	KNOXVILLE	PRINCETON	SPRINGFIELD†	SUFFOLK	ULLIN†	MEAN
	AL	TN	KY	TN	VA	IL	
HUTCHESON	2	1	4	2	1	3	2
MANOKIN	2	2	4	2	3	2	3
N96-7157	1	1	3	1	1	2	2
N96-7211	1	1	3	2	1	2	2
DT95-15091	3	1	2	2	1	3	1
DT96-15556	2	1	3	2	1	3	2
DT96-6840	1	1	4	2	1	2	2
K1424	1	1	3	1	1	3	2
K1425	1	2	4	2	2	4	3
KY95-0146	1	1	3	2	2	3	2
KY95-0645	2	2	4	2	3	3	3
MD93-5634	1	1	2	2	3	3	2
MD95-5260	2	1	3	2	3	3	2
N94-546	1	1	3	2	2	3	2
N95-198	2	2	3	2	3	3	3
N96-180	2	1	2	2	1	3	1
R95-2210	1	1	4	1	2	3	2
R95-798	1	1	3	3	1	3	2
S96-2692	1	1	4	2	1	2	2
S96-3284	2	2	5	2	2	5	3
TN94-213	1	1	3	2	1	2	2
TN96-58	1	1	2	2	1	2	1
TN96-64	2	1	3	2	3	4	2
TN96-68	2	2	4	2	3	4	3
V92-0254	1	1	4	1	1	3	2
V93-3114	1	1	2	2	1	2	1
V94-1382	2	1	2	2	2	3	2
V94-1401	2	1	3	2	2	3	2
OK92-6520	1	2	3	2	2	3	2

†Data not included in Mean

TABLE 25 - Continued

STRAIN/ VARIETY	DELTA					MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS		
HUTCHESON	1	2	2	2	2	2
MANOKIN	1	2	2	2	2	2
N96-7157	1	2	2	2	2	2
N96-7211	1	2	2	2	2	2
DT95-15091	1	2	2	2	2	2
DT96-15556	1	2	1	2	2	2
DT96-6840	1	2	2	2	2	2
K1424	1	2	2	2	2	2
K1425	1	2	2	2	2	2
KY95-0146	1	2	2	2	2	2
KY95-0645	1	1	1	2	2	1
MD93-5634	2	2	2	2	2	2
MD95-5260	1	1	2	2	2	2
N94-546	1	2	2	2	2	2
N95-198	1	2	2	2	2	2
N96-180	1	2	2	2	2	2
R95-2210	1	2	2	2	2	2
R95-798	1	2	2	2	2	2
S96-2692	1	2	1	2	2	2
S96-3284	1	2	3	2	2	2
TN94-213	1	2	2	2	2	2
TN96-58	1	2	2	2	2	2
TN96-64	1	2	2	2	2	2
TN96-68	1	2	2	2	2	2
V92-0254	1	2	2	2	2	2
V93-3114	1	2	2	2	2	2
V94-1382	1	2	2	2	2	2
V94-1401	1	2	2	2	2	2
OK92-6520	3	2	3	2	2	3

TABLE 25 - Continued

STRAIN/ VARIETY	WEST
	MCCUNE KS
HUTCHESON	3
MANOKIN	3
N96-7157	3
N96-7211	2
DT95-15091	3
DT96-15556	3
DT96-6840	3
K1424	3
K1425	2
KY95-0146	3
KY95-0645	3
MD93-5634	3
MD95-5260	3
N94-546	4
N95-198	2
N96-180	3
R95-2210	3
R95-798	3
S96-2692	3
S96-3284	3
TN94-213	3
TN96-58	3
TN96-64	3
TN96-68	3
V92-0254	3
V93-3114	3
V94-1382	3
V94-1401	3
OK92-6520	2

PRELIMINARY GROUP V

1999

Preliminary Group V nurseries were planted at 10 locations. Data were obtained from all of the 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 26A - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VA, 1999

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	
2. MANOKIN	L70-L3048 X D74-7824	
3. DT96-16809	S59-60 X DP3589	
4. DT96-17134	S59-60 X DP3589	
5. DT96-7918	A5979 X RA452	
6. DT97-6308	Hutcheson X A5979	
7. DT97-7076	RA452 X DP3589	
8. K1461	KS4694 X N86-7682	
9. K1462	S88-1934 X V88-590	
10. K1463	S88-1934 X N90-516	
11. K1464	V88-590 X N86-7682	
12. K1465	Hartwig X N90-516	
13. KY96-0417	Manokin X Piatt	
14. KY96-2330	Jack X KS5292	
15. LS96-1631	Gateway 511 X Hutcheson	
16. MD96-5275	KY88-4080 X Manokin	
17. MD96-5338	KS4694 X Hartwig	
18. MD96-5502	Hartwig X Clifford	
19. R94-2538	Narow-M X Hartwig	
20. R95-1705	Hutcheson X Barc-7	
21. R95-864	A6297 X 9592	
22. R96-3444	9592 X KS4895	

TABLE 26B - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VB, 1999

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	
2. MANOKIN	L70-L3048 X D74-7824	
3. S96-2045	S93-2148 X S91-1839	
4. S96-3418	S92-1666 X S59-60	
5. S97-1688	S91-1381 X H5810	
6. S97-2242	S92-1603 X V88-1234	
7. S97-2757	S88-1854 X S91-1839	
8. TN92-198	HUTCHESON X TN82-162	
9. TN95-145	TN86-26 X TN86-5	
10. TN96-47	HARTWIG X MANOKIN	
11. TN96-84	TN 5-95 X MANOKIN	
12. TN97-271	N86-7687 X HUTCHESON	
13. V95-0016	KS5292 X Accomac	F5
14. V95-0086	KS 5292 X Accomac	F5
15. V95-0087	KS5292 X Accomac	F5
16. V95-0242	Hutcheson X V85-1195	F5
17. V95-0391	V85-1729 X V84-1354W	F5
18. N96-556	N87-298 X RS5Y	F6
19. N97-124	GRAHAM X D87-4429	F6
20. N97-370	N90-541 X N90-1101	F6
21. N97-457	GRAHAM X D87-4429	F6
22. N97-699	MANOKIN X N90-1101	F6
23. N97-8303	HUTCHESON X PI 398511	F5

TABLE 27A - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1999 - MEAN OF 9 LOCATIONS

STRAIN/ VARIETY	SEED	MAT.	LODGING	HEIGHT	SEED		----PERCENT----		STEM	SCN	SCN	SCN	M. I.	M. A.
	YIELD	INDEX			QUALITY	SIZE	PROTEIN	OIL	CANKER	2	3	14	TN	TN
HUTCHESON	43.0	10/09	2	29	2	13.5	42.0	19.8	R	5.0	4.4	4.0	3.2	4.0
MANOKIN	40.0	5-	2	30	2	12.1	42.0	19.0-	R	4.3	1.0	3.9	1.5	2.2
DT96-16809	41.2	3+	3	36	2	13.6	44.3+	18.2-	R	5.0	1.0	1.7	3.0	3.8
DT96-17134	40.3	5+	3	36	2	13.8	44.1+	18.4-	R	5.0	1.0	2.2	3.7	3.8
DT96-7918	41.4	2-	2	36	2	13.9	43.0+	19.0-	R	4.8	1.0	2.2	2.5	4.0
DT97-6308	42.6	3-	2	28	2	12.1	41.9	18.5-	R	5.0	1.0	1.8	2.8	4.0
DT97-7076	38.3-	3-	3	36	2	14.7	43.6+	18.9-	R	5.0	5.0	3.0	2.8	4.0
K1461	39.3	7+	2	30	2	13.9	42.2	19.7	S	4.9	4.8	2.1	2.7	3.8
K1462	36.8-	8+	2	33	2	12.3	42.1	18.6-	S	2.0	2.4	1.1	3.8	3.5
K1463	40.4	1+	2	32	2	12.9	42.4	18.0-	S	2.0	1.4	1.1	1.8	4.0
K1464	41.5	8+	2	31	2	13.9	41.8	19.7	S	5.0	4.7	2.8	1.7	3.8
K1465	39.4	6+	2	29	2	13.9	42.6	18.4-	S	3.0	2.6	1.2	1.5	3.8
KY96-0417	35.7-	3-	3	38	2	13.6	41.8	19.6	R	4.9	3.4	3.1	3.2	3.5
KY96-2330	35.4-	4-	2	24	2	12.3	43.9+	18.4-	S	4.6	1.1	1.6	3.6	4.0
LS96-1631	42.3	2-	2	29	2	13.7	41.0-	20.0	R	4.6	1.6	2.8	2.5	3.7
MD96-5275	39.7	6-	2	27	2	11.5	42.4	19.6	R	4.0	1.2	1.6	1.8	1.8
MD96-5338	33.5-	0	3	41	2	13.5	43.5+	18.8-	S	4.0	3.0	1.9	3.2	3.2
MD96-5502	37.8-	5-	2	25	2	12.0	42.5	14.7-	S	2.4	1.8	2.7	3.6	4.0
R94-2538	36.8-	0	3	28	2	12.0	42.7	18.7-	S	1.6	1.5	1.2	3.8	2.3
R95-1705	38.7	1+	2	28	2	14.2	48.9+	15.9-	R	5.0	5.0	3.0	1.7	3.7
R95-864	40.6	5+	2	34	2	14.0	42.3	19.4	S	5.0	.	2.2	2.2	2.2
R96-3444	41.2	1+	2	30	2	13.5	42.2	19.2	R	5.0	4.9	3.6	2.5	3.6
OVERALL MEAN	39.4						42.9	18.7						
L. S. D. (.05)	4.5						1.0	0.7						
C. V.	12%						2%	4%						

TABLE 27B - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1999 - MEAN OF 9 LOCATIONS

STRAIN/ VARIETY	SEED	MAT.	LODGING	HEIGHT	QUALITY	SEED	----PERCENT----		STEM	SCN	SCN	SCN	M. I.	M. A.
	YIELD	INDEX				SIZE	PROTEIN	OIL	CANKER	2	3	14	TN	TN
HUTCHESON	39.9	10/09	2	27	2	13.6	42.3	19.7	R	4.8	5.0	4.3	3.2	3.8
MANOKIN	39.2	5-	2	28	2	12.3	42.0	19.4	R	4.5	1.0	4.4	1.3	2.0
S96-2045	34.0-	2+	2	31	2	11.2	42.8	17.9-	R	1.7	1.1	1.0	1.5	4.0
S96-3418	41.3	5+	2	32	2	13.5	43.0	18.8-	S	1.5	1.4	1.2	2.5	4.5
S97-1688	39.5	2+	2	31	2	12.0	45.3+	18.2-	S	1.7	1.2	1.0	2.5	2.8
S97-2242	38.0	1+	2	33	2	11.3	42.7	18.1-	S	1.6	1.3	1.0	1.3	2.8
S97-2757	38.5	0	2	27	2	12.3	43.0	18.1-	S	4.6	2.7	1.0	1.3	3.7
TN92-198	38.8	3-	2	26	2	13.1	42.8	19.3	R	5.0	4.4	4.0	2.0	3.8
TN95-145	40.3	1-	2	31	1	13.9	42.9	18.5-	R	5.0	4.7	3.9	3.5	3.5
TN96-47	38.9	3-	2	31	2	12.1	42.6	19.1	R	5.0	2.8	3.8	3.6	3.7
TN96-84	40.4	3-	2	27	2	12.7	40.8-	19.6	SEG	5.0	1.5	2.7	3.0	4.7
TN97-271	41.1	4+	2	29	2	12.6	43.5+	19.4	R	5.0	4.8	4.4	3.5	4.0
V95-0016	42.8	1+	2	31	2	11.7	42.4	19.3	S	5.0	2.2	5.0	2.2	2.2
V95-0086	40.5	0	2	31	2	11.4	40.9-	19.7	S	4.8	1.0	4.1	1.5	2.5
V95-0087	39.7	3+	2	34	2	11.5	42.7	19.2	S	4.8	1.4	3.1	2.3	3.3
V95-0242	39.8	2-	2	27	2	13.1	42.2	19.4	SEG	5.0	4.9	4.0	2.8	4.0
V95-0391	38.0	4-	2	26	2	11.8	44.4+	17.8-	S	5.0	1.2	1.5	1.5	4.0
N96-556	39.4	6+	2	34	2	13.3	43.9+	19.2	S	5.0	4.9	3.7	1.8	4.0
N97-124	37.5	4+	3	35	2	15.6	43.5+	19.0-	S	5.0	5.0	3.6	2.3	3.6
N97-370	38.6	4+	2	31	2	13.6	42.6	19.5	R	5.0	5.0	4.0	3.0	4.0
N97-457	38.0	1+	2	29	2	14.1	42.3	19.0-	S	5.0	5.0	4.8	2.0	3.6
N97-699	31.9-	10+	2	32	2	13.2	44.6+	18.1-	R	5.0	5.0	4.9	3.2	3.4
N97-8303	41.0	1-	2	27	2	15.1	42.0	19.1	S	5.0	4.0	4.9	2.3	3.8
OVERALL MEAN	39.0						42.8	18.9						
L. S. D. (.05)	4.5						0.9	0.6						
C. V.	12%						2%	3%						

TABLE 28A - SEED YIELD IN BUSHELS PER ACRE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1999

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEI SER AR	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	21.7	39.9	64.7	31.0	50.2	43.9	66.9	30.3	38.2	43.0
MANOKIN	11.4-	39.9	59.3	30.8	49.3	44.9	54.4-	33.0	36.6	40.0
DT96-16809	15.8-	39.7	58.7	37.6+	50.4	46.7	59.3	25.8	36.9	41.2
DT96-17134	15.7-	32.4	68.0	35.5	47.2	40.7	56.6-	32.4	34.7	40.3
DT96-7918	23.6	43.7	58.5	36.9+	50.2	43.5	57.4-	29.8	29.2-	41.4
DT97-6308	17.7	43.0	65.0	26.7	46.0	40.6	72.6	35.5	36.6	42.6
DT97-7076	19.2	35.2	54.3-	30.6	43.7	36.5	55.5-	34.4	35.7	38.3-
K1461	24.9	38.6	47.9-	36.5	50.8	35.5-	54.8-	21.9	42.4	39.3
K1462	24.6	39.5	55.6-	31.4	43.1	35.7-	42.2-	20.4	39.1	36.8-
K1463	22.9	40.2	57.9	38.5+	43.4	39.6	60.8	26.7	33.3	40.4
K1464	30.6+	48.5	55.7-	34.0	47.2	39.7	54.0-	25.9	37.8	41.5
K1465	24.0	36.9	55.7-	33.7	46.0	39.2	52.4-	27.6	39.3	39.4
KY96-0417	8.6-	38.7	46.7-	28.7	45.7	41.2	45.0-	33.0	33.7	35.7-
KY96-2330	9.8-	36.2	49.7-	31.7	32.5-	42.9	44.3-	40.0	31.1-	35.4-
LS96-1631	27.7+	45.8	59.4	36.6+	51.0	41.6	56.7-	28.0	34.2	42.3
MD96-5275	17.6	54.1+	55.6-	28.4	51.9	42.5	46.1-	26.2	35.4	39.7
MD96-5338	19.7	35.0	43.7-	29.0	38.9-	40.9	34.6-	27.9	32.1-	33.5-
MD96-5502	12.9-	38.5	62.1	30.3	47.6	37.5	50.7-	30.4	30.1-	37.8-
R94-2538	18.9	39.7	53.2-	32.8	46.0	38.2	45.6-	23.9	33.1	36.8-
R95-1705	22.0	39.4	61.5	30.1	44.8	37.1	51.7-	30.2	31.8-	38.7
R95-864	27.1+	43.2	59.4	36.3	42.2	42.1	54.9-	30.6	29.9-	40.6
R96-3444	20.4	37.9	63.8	32.1	42.8	41.2	65.9	33.5	33.3	41.2
L. S. D. (0.05)	4.3	12.8	8.4	5.5	8.9	7.6	8.8	13.1	6.1	4.5
C. V. (%)	13.2	15.3	7.1	8.1	9.3	9.0	7.9	21.4	8.5	12.3

TABLE 28B - SEED YIELD IN BUSHELS PER ACRE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1999

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	21.7	43.2	58.8	34.2	44.4	36.8	56.7	19.9	43.8	39.9
MANOKIN	12.1-	47.5	60.0	28.6-	45.8	45.2+	52.5	19.6	41.3	39.2
S96-2045	21.2	25.0-	53.0	22.8-	51.5	33.4	48.8-	16.5	33.9	34.0-
S96-3418	24.2	35.8	61.1	34.3	49.4	42.4	55.1	22.1	47.6	41.3
S97-1688	17.6-	47.2	53.5	17.4-	54.8+	44.0+	54.5	24.0	42.1	39.5
S97-2242	24.8	47.3	50.9	22.9-	52.3	34.4	44.9-	22.0	42.7	38.0
S97-2757	13.9-	34.9	59.8	33.9	47.0	36.7	54.2	24.5	41.4	38.5
TN92-198	9.6-	43.8	57.8	29.7	47.4	40.4	56.9	21.3	42.2	38.8
TN95-145	17.6-	47.9	59.5	32.4	44.3	35.7	56.2	21.1	48.0	40.3
TN96-47	14.0-	37.3	63.1	32.4	45.5	42.2	55.4	18.8	41.7	38.9
TN96-84	23.1	43.1	60.8	28.9-	51.5	38.4	55.7	18.5	43.9	40.4
TN97-271	25.1	58.1+	57.0	33.5	46.2	34.6	53.6	18.7	43.4	41.1
V95-0016	23.8	40.2	61.1	40.0+	53.2	42.6	56.7	19.0	48.6	42.8
V95-0086	15.4-	44.1	64.6	35.3	47.5	40.7	55.7	17.2	44.3	40.5
V95-0087	16.4-	44.2	49.5-	34.8	43.9	44.1+	59.4	20.3	44.6	39.7
V95-0242	22.8	39.6	61.6	30.6	48.4	34.3	60.8	14.2	46.1	39.8
V95-0391	13.9-	48.0	56.2	33.5	44.6	36.0	56.2	17.5	36.0	38.0
N96-556	24.8	43.5	56.5	32.4	51.8	40.6	50.9	15.2	39.1	39.4
N97-124	7.8-	35.2	51.2	38.6	47.3	40.7	53.2	17.5	45.7	37.5
N97-370	17.4-	39.6	59.0	30.1	47.2	37.4	52.9	16.9	47.3	38.6
N97-457	16.6-	43.2	55.5	35.6	43.2	35.9	48.9-	16.8	46.2	38.0
N97-699	30.0+	27.9-	38.5-	30.0	40.0	33.8	31.1-	11.3-	44.9	31.9-
N97-8303	12.0-	54.5	62.7	30.4	53.1	41.9	51.7	18.2	44.6	41.0
L. S. D. (0.05)	3.8	13.6	8.1	4.6	8.9	6.0	7.6	7.4	10.5	4.5
C. V. (%)	12.5	15.5	6.7	7.1	9.0	7.4	6.9	19.0	9.5	12.4

**TABLE 29A - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY
GROUP VA,
1999**

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	20.3	20.0	20.2	19.5	21.0	17.7	19.6	19.8
MANOKIN	19.0	18.7	19.1	17.9	20.6	17.4	20.0	19.0
DT96-16809	17.5	19.1	19.0	17.0	20.0	15.8	18.9	18.2
DT96-17134	17.9	18.8	19.0	17.5	20.0	17.4	18.5	18.4
DT96-7918	17.8	19.5	19.8	18.8	20.9	17.4	19.1	19.0
DT97-6308	17.7	18.2	18.0	18.3	20.1	16.9	20.2	18.5
DT97-7076	18.2	18.8	19.2	18.1	20.2	18.3	19.6	18.9
K1461	19.4	20.0	19.5	19.2	20.6	18.5	20.4	19.7
K1462	18.1	19.4	18.4	18.0	18.9	18.0	19.2	18.6
K1463	17.0	18.6	17.7	17.5	18.6	17.5	18.8	18.0
K1464	19.6	19.7	20.0	19.5	20.6	19.0	19.6	19.7
K1465	19.3	18.5	18.9	16.8	20.2	16.6	18.3	18.4
KY96-0417	18.5	19.8	19.8	19.6	21.3	17.9	20.3	19.6
KY96-2330	19.1	17.8	17.4	18.6	19.3	17.4	19.5	18.4
LS96-1631	19.2	20.1	20.7	18.7	22.3	17.9	20.8	20.0
MD96-5275	19.4	18.7	18.9	18.4	20.8	20.1	20.8	19.6
MD96-5338	18.2	19.1	18.1	19.0	20.1	17.5	19.9	18.8
MD96-5502	13.9	15.8	14.2	15.2	16.7	12.2	14.9	14.7
R94-2538	18.0	19.1	18.7	18.2	19.3	18.0	19.5	18.7
R95-1705	14.7	15.0	15.9	17.2	16.7	13.7	18.4	15.9
R95-864	19.0	19.8	19.8	18.8	20.7	18.8	19.1	19.4
R96-3444	19.3	19.8	18.1	19.2	20.1	17.5	20.6	19.2

TABLE 29B - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1999

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	18.8	20.0	20.1	19.2	21.3	18.8	19.8	19.7
MANOKIN	19.5	19.3	19.1	18.6	20.8	18.2	20.0	19.4
S96-2045	15.5	18.1	17.6	17.6	19.4	17.7	19.1	17.9
S96-3418	17.7	19.4	20.0	18.7	19.3	17.5	19.1	18.8
S97-1688	17.3	17.1	18.5	18.3	18.6	17.9	19.4	18.2
S97-2242	16.1	18.7	18.3	17.0	19.5	17.9	19.5	18.1
S97-2757	16.7	18.2	18.5	17.4	19.4	17.9	18.9	18.1
TN92-198	19.4	19.2	19.1	19.1	20.2	18.5	19.8	19.3
TN95-145	18.4	18.3	18.8	17.6	19.6	18.8	18.2	18.5
TN96-47	18.9	18.9	18.9	18.6	19.9	18.9	19.8	19.1
TN96-84	19.4	19.4	19.3	19.0	21.1	17.9	21.0	19.6
TN97-271	19.2	19.9	19.5	18.2	20.5	18.9	19.5	19.4
V95-0016	18.8	19.4	19.7	18.1	20.5	18.6	20.3	19.3
V95-0086	19.7	19.5	18.9	18.8	20.7	19.7	20.9	19.7
V95-0087	18.9	19.3	18.8	18.7	20.2	19.2	19.5	19.2
V95-0242	18.1	19.4	19.5	19.7	20.7	18.3	20.2	19.4
V95-0391	17.3	18.2	16.8	16.7	19.1	16.9	19.4	17.8
N96-556	17.6	19.9	19.2	18.9	20.9	18.3	19.9	19.2
N97-124	19.3	19.0	19.0	19.1	19.7	17.7	19.1	19.0
N97-370	17.6	20.2	20.0	19.0	21.4	18.5	19.6	19.5
N97-457	18.1	19.8	19.2	18.9	20.6	17.2	19.5	19.0
N97-699	16.3	19.7	18.7	17.7	18.2	17.6	18.8	18.1
N97-8303	19.6	19.1	19.2	18.6	19.8	17.5	19.6	19.1

TABLE 30A - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1999

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	42.0	40.8	41.1	42.5	40.7	46.3	40.5	42.0
MANOKIN	42.5	42.0	40.8	43.1	41.7	46.1	37.8	42.0
DT96-16809	45.7	43.2	41.9	45.3	43.6	48.7	41.9	44.3
DT96-17134	44.7	44.3	41.9	45.5	43.6	46.2	42.6	44.1
DT96-7918	44.5	41.9	41.2	43.3	41.7	46.2	42.1	43.0
DT97-6308	44.2	41.5	40.6	42.7	39.1	45.1	39.8	41.9
DT97-7076	45.9	43.6	41.8	44.8	42.0	45.7	41.7	43.6
K1461	43.1	40.6	41.4	41.9	41.4	45.4	41.6	42.2
K1462	42.5	41.3	42.4	41.3	41.8	45.6	39.9	42.1
K1463	43.6	42.2	41.8	42.8	42.2	43.7	40.5	42.4
K1464	43.0	40.0	41.0	42.3	40.6	44.8	41.1	41.8
K1465	42.1	42.4	41.4	44.1	40.6	46.0	41.6	42.6
KY96-0417	43.1	41.7	40.9	41.5	40.2	45.2	40.1	41.8
KY96-2330	44.7	42.3	44.3	44.3	43.7	46.5	41.6	43.9
LS96-1631	43.3	39.6	38.8	42.6	37.4	46.0	39.1	41.0
MD96-5275	43.6	42.8	41.9	42.6	41.5	43.6	40.6	42.4
MD96-5338	43.4	43.8	43.0	43.6	43.7	45.7	41.2	43.5
MD96-5502	44.6	41.4	42.0	43.1	41.0	46.5	38.8	42.5
R94-2538	45.1	42.4	41.5	42.8	42.2	44.7	40.4	42.7
R95-1705	51.5	50.0	48.0	48.0	48.1	52.2	44.7	48.9
R95-864	44.0	41.8	41.4	42.7	40.6	44.0	41.9	42.3
R96-3444	42.0	41.2	42.3	43.0	40.9	45.7	40.1	42.2

TABLE 30B - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1999

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	43.2	41.7	40.7	42.6	40.7	45.8	41.4	42.3
MANOKIN	43.3	42.1	40.9	42.5	41.2	45.9	38.2	42.0
S96-2045	45.1	42.5	41.5	42.8	41.7	46.0	39.9	42.8
S96-3418	45.4	41.3	41.8	41.9	43.4	47.0	40.4	43.0
S97-1688	46.4	46.7	43.7	44.7	46.2	46.1	43.0	45.3
S97-2242	44.9	41.2	41.8	44.2	40.4	45.5	41.1	42.7
S97-2757	44.5	41.4	41.8	43.9	41.8	46.1	41.4	43.0
TN92-198	43.4	41.9	42.7	43.5	41.9	44.9	41.2	42.8
TN95-145	44.4	42.9	41.3	43.9	42.2	43.9	41.7	42.9
TN96-47	43.8	42.2	41.6	43.2	42.2	45.2	39.8	42.6
TN96-84	40.9	40.9	40.5	41.5	39.1	45.5	36.9	40.8
TN97-271	44.2	42.1	43.1	44.3	42.4	46.3	41.8	43.5
V95-0016	43.0	41.8	41.3	43.2	41.9	45.4	40.5	42.4
V95-0086	41.6	40.3	40.6	41.4	40.9	42.9	38.3	40.9
V95-0087	43.7	41.6	42.2	43.1	43.4	44.9	39.7	42.7
V95-0242	43.8	41.0	41.0	43.3	40.8	44.6	40.9	42.2
V95-0391	46.4	43.7	43.9	46.0	42.8	47.4	40.5	44.4
N96-556	46.9	42.8	42.1	43.7	42.6	48.0	41.3	43.9
N97-124	44.9	43.1	42.3	43.2	42.9	46.0	41.8	43.5
N97-370	45.8	41.1	40.9	42.9	40.9	45.9	40.4	42.6
N97-457	44.0	41.5	41.0	42.4	41.0	46.4	39.6	42.3
N97-699	48.5	43.2	43.4	44.4	44.7	45.2	42.7	44.6
N97-8303	42.2	41.1	41.1	42.0	41.8	45.5	40.0	42.0

TABLE 31A - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1999

STRAIN/ VARIETY	BI XBY OK	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	16.3	11.8	12.6	14.1	12.8	14.6	10.7	15.5	13.5
MANOKIN	15.4	9.9	12.1	11.6	11.6	13.4	9.9	13.3	12.1
DT96-16809	17.2	10.6	13.2	13.8	13.1	14.3	11.2	15.4	13.6
DT96-17134	17.1	11.1	13.2	13.1	13.8	14.6	12.1	15.1	13.8
DT96-7918	18.6	11.1	13.1	13.4	13.5	15.6	10.5	15.3	13.9
DT97-6308	17.0	10.0	10.4	10.3	11.9	13.1	9.7	14.6	12.1
DT97-7076	17.4	11.1	14.8	13.6	15.0	16.0	11.8	17.6	14.7
K1461	17.1	10.7	13.7	13.2	12.9	14.5	11.7	17.2	13.9
K1462	16.5	10.0	13.0	12.2	11.5	11.8	9.7	14.1	12.3
K1463	15.3	10.0	13.9	10.7	11.8	15.2	10.5	15.5	12.9
K1464	17.9	11.1	13.4	13.9	13.0	13.3	11.8	16.9	13.9
K1465	15.4	12.1	14.5	13.7	13.3	14.6	11.9	15.4	13.9
KY96-0417	17.4	10.3	13.4	13.0	12.5	15.3	10.8	16.2	13.6
KY96-2330	14.5	10.8	12.2	10.7	12.5	13.2	10.1	14.2	12.3
LS96-1631	17.0	11.2	13.2	14.6	12.7	14.9	10.3	15.5	13.7
MD96-5275	13.5	9.9	11.0	10.3	11.1	13.1	10.5	12.6	11.5
MD96-5338	16.6	10.2	14.9	12.7	13.9	13.9	10.8	15.0	13.5
MD96-5502	14.7	9.5	13.3	11.1	11.1	12.9	9.8	13.3	12.0
R94-2538	15.4	9.6	13.7	11.0	11.2	12.9	9.6	12.8	12.0
R95-1705	16.8	12.4	14.1	14.4	13.7	14.9	11.8	15.7	14.2
R95-864	19.2	10.9	15.1	12.2	13.2	14.1	11.5	15.7	14.0
R96-3444	17.9	11.1	14.5	11.6	12.6	15.4	10.3	15.0	13.5

TABLE 31B - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1999

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	17.6	11.5	13.6	13.3	11.9	15.0	9.9	16.2	13.6
MANOKIN	14.9	11.7	12.7	10.9	11.5	13.6	9.4	14.0	12.3
S96-2045	14.1	8.3	10.7	10.9	10.2	11.2	10.5	13.7	11.2
S96-3418	16.6	10.5	13.4	13.7	12.2	14.5	11.3	16.2	13.5
S97-1688	13.8	10.8	11.7	11.7	11.6	13.0	8.8	15.0	12.0
S97-2242	14.2	9.4	11.3	11.2	11.0	11.1	9.6	12.7	11.3
S97-2757	15.4	8.9	12.5	11.7	11.6	13.9	9.5	14.7	12.3
TN92-198	14.8	12.4	12.8	12.2	11.9	17.0	9.1	14.8	13.1
TN95-145	17.0	13.8	14.0	12.7	11.8	14.9	12.2	14.8	13.9
TN96-47	14.7	10.1	13.5	12.0	11.4	13.5	9.2	12.7	12.1
TN96-84	14.8	11.2	13.2	12.4	11.8	13.8	9.3	14.8	12.7
TN97-271	14.7	11.1	12.9	12.1	11.5	13.5	10.0	14.8	12.6
V95-0016	13.5	9.8	11.7	11.5	10.7	12.8	9.9	13.8	11.7
V95-0086	14.1	9.9	11.3	10.6	10.7	12.5	8.9	13.6	11.4
V95-0087	13.5	11.2	11.6	10.5	10.5	12.9	8.8	12.8	11.5
V95-0242	15.3	9.8	13.0	12.7	12.2	15.0	10.6	16.0	13.1
V95-0391	14.1	10.0	12.9	10.7	10.7	12.4	10.1	13.8	11.8
N96-556	17.8	10.4	14.0	11.7	12.2	14.0	10.7	16.0	13.3
N97-124	17.4	13.5	16.1	15.0	13.8	17.5	13.4	18.2	15.6
N97-370	15.0	10.6	14.9	13.6	12.4	13.9	12.3	16.4	13.6
N97-457	17.6	10.3	15.5	13.0	13.4	15.9	10.6	16.3	14.1
N97-699	17.0	10.4	13.9	12.6	13.1	11.2	11.8	16.0	13.2
N97-8303	17.7	13.3	15.1	13.7	13.1	17.4	12.5	17.8	15.1

TABLE 32A - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1999

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	21	34	30	31	30	22	38	22	29
MANOKIN	25	34	30	33	31	24	41	21	30
DT96-16809	25	40	39	43	37	36	43	28	36
DT96-17134	27	41	35	40	35	40	46	28	36
DT96-7918	24	47	42	43	33	44	36	21	36
DT97-6308	23	31	28	30	29	22	41	22	28
DT97-7076	28	39	31	40	36	36	50	29	36
K1461	20	39	33	32	30	30	33	24	30
K1462	24	40	35	37	36	28	41	26	33
K1463	25	35	34	31	38	28	39	28	32
K1464	21	35	35	33	32	32	37	23	31
K1465	21	27	31	32	33	26	39	22	29
KY96-0417	22	48	39	44	37	48	46	24	38
KY96-2330	23	26	27	21	29	18	31	18	24
LS96-1631	21	33	35	29	28	24	38	21	29
MD96-5275	23	29	32	30	29	18	32	20	27
MD96-5338	25	50	43	46	43	48	50	26	41
MD96-5502	18	32	27	27	26	22	35	17	25
R94-2538	19	24	32	32	31	26	37	21	28
R95-1705	21	26	31	29	29	26	38	23	28
R95-864	26	31	37	40	34	34	44	25	34
R96-3444	21	35	32	32	32	30	36	22	30

TABLE 32B - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1999

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	20	29	29	30	28	20	35	27	27
MANOKIN	21	23	34	30	31	20	35	28	28
S96-2045	22	33	34	37	35	28	38	25	31
S96-3418	21	28	33	40	31	32	40	33	32
S97-1688	22	31	34	35	34	26	39	30	31
S97-2242	23	35	34	41	36	26	38	31	33
S97-2757	18	30	31	30	30	20	31	25	27
TN92-198	21	32	28	27	26	20	30	24	26
TN95-145	25	33	34	36	30	24	33	30	31
TN96-47	26	32	32	38	31	26	35	27	31
TN96-84	23	25	30	29	27	20	33	25	27
TN97-271	21	31	33	33	29	22	36	24	29
V95-0016	25	30	35	36	32	26	39	29	31
V95-0086	23	33	36	37	32	26	34	28	31
V95-0087	24	34	36	39	35	28	40	34	34
V95-0242	21	29	32	30	27	26	27	24	27
V95-0391	22	32	31	26	26	20	31	21	26
N96-556	26	39	38	38	33	32	37	26	34
N97-124	31	33	39	37	36	34	40	34	35
N97-370	25	31	32	32	32	28	34	30	31
N97-457	21	28	36	29	26	28	38	28	29
N97-699	23	25	36	38	38	30	33	33	32
N97-8303	21	27	34	29	30	24	30	25	27

**TABLE 33A - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP
VA, 1999**

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	1	4	1	3	2	1	1	2
MANOKIN	1	4	1	4	2	1	2	2
DT96-16809	3	3	3	3	4	2	3	3
DT96-17134	3	3	3	3	3	2	3	3
DT96-7918	3	3	2	2	3	1	1	2
DT97-6308	2	4	1	3	2	1	2	2
DT97-7076	2	4	2	3	3	2	2	3
K1461	2	3	1	3	2	1	2	2
K1462	2	3	2	3	2	1	2	2
K1463	3	4	1	4	2	2	2	2
K1464	2	2	2	3	2	1	1	2
K1465	3	3	1	3	2	1	2	2
KY96-0417	4	3	2	3	4	1	1	3
KY96-2330	3	4	1	3	2	1	2	2
LS96-1631	2	4	1	3	2	1	1	2
MD96-5275	1	4	1	3	2	1	1	2
MD96-5338	3	4	3	3	3	2	1	3
MD96-5502	2	3	1	3	2	1	1	2
R94-2538	3	4	2	4	2	2	1	3
R95-1705	2	4	1	3	2	1	1	2
R95-864	2	4	2	3	2	2	2	2
R96-3444	2	3	1	3	2	1	2	2

TABLE 33B - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1999

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	2	4	3	3	2	1	2	2
MANOKIN	3	4	1	4	2	1	3	2
S96-2045	3	3	2	3	2	1	2	2
S96-3418	3	3	2	3	2	1	3	2
S97-1688	3	4	1	3	2	1	3	2
S97-2242	3	3	2	3	2	1	2	2
S97-2757	2	4	1	3	2	1	2	2
TN92-198	2	4	1	4	2	1	3	2
TN95-145	2	4	2	4	2	1	3	2
TN96-47	2	4	1	4	2	1	4	2
TN96-84	2	3	1	3	2	1	3	2
TN97-271	2	3	2	3	2	1	2	2
V95-0016	2	4	2	3	2	1	3	2
V95-0086	1	3	2	3	2	1	2	2
V95-0087	3	3	2	3	2	1	3	2
V95-0242	2	4	1	3	2	1	2	2
V95-0391	1	4	1	3	2	1	1	2
N96-556	2	3	1	3	3	1	2	2
N97-124	3	3	2	4	3	1	4	3
N97-370	2	3	1	3	2	1	3	2
N97-457	2	3	1	3	2	1	3	2
N97-699	3	4	2	3	2	1	2	2
N97-8303	1	4	1	3	2	1	3	2

TABLE 34A - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1999

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	2	2	2	1	2	3	2	2
MANOKIN	2	2	2	1	2	3	2	2
DT96-16809	3	2	2	1	2	4	1	2
DT96-17134	3	2	2	1	2	3	1	2
DT96-7918	3	2	2	1	2	2	2	2
DT97-6308	3	3	2	1	2	2	1	2
DT97-7076	3	2	1	2	2	3	1	2
K1461	2	2	2	1	2	3	2	2
K1462	3	2	2	1	2	4	1	2
K1463	3	2	2	1	2	3	2	2
K1464	2	2	2	1	2	3	2	2
K1465	1	2	2	1	2	2	1	2
KY96-0417	3	2	2	1	2	3	2	2
KY96-2330	3	3	2	1	2	2	2	2
LS96-1631	2	3	2	1	2	3	2	2
MD96-5275	2	3	2	1	2	4	1	2
MD96-5338	3	3	2	1	2	4	2	2
MD96-5502	3	3	2	1	2	4	2	2
R94-2538	3	2	2	1	2	2	2	2
R95-1705	2	2	2	1	2	1	1	2
R95-864	2	2	2	1	2	2	1	2
R96-3444	2	2	2	1	2	2	2	2

TABLE 34B - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1999

STRAIN/ VARIETY	JACKSON	PLYMOUTH	PORTAGEVILLE	QUEENSTOWN	STONEVILLE	ULLIN	WARSAW	MEAN
	TN	NC	MO(A)	MD	MS	IL	VA	
HUTCHESON	2	2	1	1	2	2	2	2
MANOKIN	2	2	1	1	2	2	2	2
S96-2045	3	2	1	1	2	2	1	2
S96-3418	3	2	2	1	2	3	1	2
S97-1688	2	3	1	1	2	2	1	2
S97-2242	2	2	2	1	2	3	1	2
S97-2757	3	2	2	1	2	2	1	2
TN92-198	2	3	2	1	2	2	2	2
TN95-145	2	2	1	1	2	2	1	1
TN96-47	3	2	2	1	2	2	2	2
TN96-84	2	3	2	1	2	3	2	2
TN97-271	2	2	2	1	2	2	2	2
V95-0016	2	2	2	1	2	2	1	2
V95-0086	2	2	1	1	2	3	1	2
V95-0087	2	2	2	1	2	2	1	2
V95-0242	2	2	1	1	2	3	1	2
V95-0391	3	2	2	1	2	2	2	2
N96-556	2	2	2	1	2	3	1	2
N97-124	2	2	2	1	2	2	2	2
N97-370	3	3	2	1	2	3	1	2
N97-457	3	3	2	1	2	2	2	2
N97-699	3	2	2	1	2	5	1	2
N97-8303	1	3	2	1	2	3	2	2

UNIFORM GROUP VI

1999

Uniform Group VI nurseries were planted at 22 locations. Data were obtained from 21 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,
1999**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. DILLON	CENTENNIAL X YOUNG	
2. BOGGS	G81-152 X COKER 6738	
3. N96-6800	N90-7202 X N90-7199	
4. Au94-507	Dillon x N85-492	F6
5. G94-1572	G86-1434 X G85-373	F5
6. N94-552	HOLLADAY X BRIM	F6
7. N96-509	N84-492 X PROLINA	F6
8. R93-151	A5403 X Hutcheson	
9. S95-1908	S92-1495 X S59-60	F5
10. SC94-1075	COKER 6847/G83-198	F5
11. SC95-1070	NK' S S83-30/MANOKIN	F5
12. SC95-1421	COOK/MANOKIN	F5
13. TN93-142-17	HUTCHESON X (TN85-55 X TN83-26)	
14. TN94-238	HUTCHESON X N84-507	
15. VS95-154	[PI 159319 X Essex (2)] X [PI 96089 X Essex (2)]	F6
16. VS95-78	[PI 96089 X Essex (2)] X [L760132 X Essex (2)]	F6
17. OK92-6524	Miles X Lee 74	

**TABLE 36 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM GROUP VI, 1999**

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1999	98-99	97-99	1999	98-99	97-99	1999	98-99	97-99
DILLON	43.0	40.7	42.6	42.2	42.6	42.2	19.5	19.8	19.9
BOGGS	43.8	42.3	44.5	43.0	43.1	42.9	19.5	19.9	19.9
N96-6800	39.1	.	.	41.7	.	.	19.5	.	.
Au94-507	43.0	.	.	41.0	.	.	20.3	.	.
G94-1572	42.6	.	.	42.7	.	.	18.9	.	.
N94-552	46.0	43.0	44.7	42.8	42.9	42.6	18.7	19.0	18.9
N96-509	41.3	.	.	43.9	.	.	20.0	.	.
R93-151	43.7	42.0	44.2	42.0	42.0	42.0	19.9	20.2	20.2
S95-1908	44.3	.	.	42.6	.	.	19.3	.	.
SC94-1075	44.7	42.1	.	41.2	41.9	.	20.1	20.1	.
SC95-1070	42.0	.	.	40.0	.	.	19.8	.	.
SC95-1421	41.6	.	.	41.1	.	.	19.0	.	.
TN93-142-17	42.4	.	.	41.9	.	.	19.7	.	.
TN94-238	39.1	.	.	41.8	.	.	20.3	.	.
VS95-154	36.6	.	.	44.6	.	.	17.9	.	.
VS95-78	35.7	.	.	43.1	.	.	18.7	.	.
OK92-6524	36.9	.	.	43.3	.	.	19.0	.	.

†Data not included in Mean: (1999) - Belle Mina, AL
(1998) - Pine Tree, AR; Clemson, SC
(1997) - Beaumont, TX

TABLE 36 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
DILLON	P	10/17	2	35	2	15.1	G	T
BOGGS	W	6+	3	32	2	13.9	T	T
N96-6800	P	3-	2	28	2	13.9	G	BR
Au94-507	P	3-	2	31	2	15.3	S	T
G94-1572	W	5+	2	40	2	13.7	T	T
N94-552	W	5+	2	35	2	13.7	G	BR
N96-509	P	1-	2	32	2	16.1	T	BR
R93-151	P	0	2	32	2	15.1	S	T
S95-1908	W	2+	2	36	2	15.0	T	T
SC94-1075	W	3+	2	36	2	13.1	G	T
SC95-1070	W	6+	2	37	2	14.7	G	T
SC95-1421	P	5+	2	37	2	13.7	T	T
TN93-142-17	W	1+	2	31	2	15.6	G	T
TN94-238	P	7-	2	29	2	16.3	G	T
VS95-154	S	5+	2	32	2	12.7	S	S
VS95-78	W	6+	2	33	2	12.1	G	T
OK92-6524	S	7+	2	35	2	13.4	S	T

TABLE 36 - Continued

PEST REACTIONS

STRAIN/ VARIETY	STEM CANKER	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV
DILLON	S	.	5.0	4.3	1.3	3.5	R
BOGGS	R	.	1.1	3.7	2.3	3.3	R
N96-6800	S	.	5.0	4.2	4.3	3.8	R
Au94-507	S	.	5.0	4.5	1.8	3.8	R
G94-1572	R	.	1.0	4.2	1.5	2.5	S
N94-552	S	.	5.0	4.2	3.5	4.0	M
N96-509	S	.	4.5	4.2	1.8	3.5	R
R93-151	R	.	5.0	3.6	2.3	3.5	M
S95-1908	R	.	1.0	1.0	5.0	5.0	S
SC94-1075	R	.	1.1	3.9	1.8	4.0	R
SC95-1070	R	.	1.0	4.0	1.0	1.3	S
SC95-1421	R	.	4.9	4.1	4.0	3.3	R
TN93-142-17	R	.	1.0	1.6	5.0	4.5	R
TN94-238	R	.	5.0	4.3	4.5	4.8	R
VS95-154	R	.	3.1	3.1	5.0	3.5	R
VS95-78	S	.	5.0	4.0	5.0	4.8	S
OK92-6524	S	.	3.8	4.1	1.0	4.5	S

TABLE 37 - SEED YIELD, IN BUSHEL PER ACRE FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1999

EAST

STRAIN/ VARIETY	CLINTON NC	PLYMOUTH NC	WARSAW VA	MEAN
DILLON	53.5	33.4	33.7	40.2
BOGGS	50.9	26.4	30.3	35.9
N96-6800	44.3	30.8	29.7	34.9
Au94-507	47.9	36.4	34.1	39.5
G94-1572	49.5	31.9	34.6	38.7
N94-552	56.0	40.6	34.9	43.8
N96-509	48.4	32.7	36.8	39.3
R93-151	48.6	29.8	32.0	36.8
S95-1908	51.0	33.8	37.0	40.6
SC94-1075	48.5	31.7	38.6	39.6
SC95-1070	47.9	27.7	35.7	37.1
SC95-1421	40.8	24.9	34.9	33.5
TN93-142-17	54.0	28.4	32.9	38.4
TN94-238	40.9	28.1	38.3	35.8
VS95-154	42.8	26.7	28.3	32.6
VS95-78	40.3	24.2	29.6	31.4
OK92-6524	39.0	28.3	34.1	33.8
L. S. D. (0.05)	9.9	3.8	4.6	.
C. V. (%)	12.3	7.5	8.2	.

TABLE 37 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS	BELLE MINA†	BLACKVILLE	CALHOUN	CLEMSON	FAIRHOPE	STARKVILLE	SUFFOLK	TALLASSEE	TIFTON	MEAN
	GA	AL	SC	GA	SC	AL	MS	VA	AL	GA	
DILLON	54.5	6.1	19.6	15.4	47.5	56.8	48.9	38.1	50.3	49.4	42.3
BOGGS	63.7	8.9	23.5	25.1	44.9	63.9	42.4	52.6	55.7	45.7	46.4
N96-6800	58.4	2.7	17.0	12.2	48.1	61.2	37.0	36.2	47.6	45.3	40.3
Au94-507	58.1	8.8	17.9	16.2	48.2	64.3	46.6	37.3	49.4	48.2	42.9
G94-1572	63.0	5.3	20.5	20.3	45.7	60.7	45.3	40.1	53.9	48.6	44.2
N94-552	60.0	8.0	28.2	14.6	51.7	61.7	49.5	43.9	60.2	54.0	47.1
N96-509	58.4	8.3	18.0	17.2	42.1	61.7	37.4	42.3	51.5	46.4	41.7
R93-151	54.6	7.7	20.0	21.9	49.1	58.2	43.2	36.2	57.2	55.7	44.0
S95-1908	57.9	7.7	19.6	23.1	42.9	56.9	36.4	40.4	52.0	54.0	42.6
SC94-1075	58.9	8.0	25.4	19.7	46.0	58.5	45.4	40.5	55.9	49.3	44.4
SC95-1070	56.6	9.8	20.8	24.2	44.5	56.1	37.3	46.7	59.8	45.7	43.5
SC95-1421	56.7	6.4	24.5	21.9	53.5	56.4	43.1	36.0	52.6	45.0	43.3
TN93-142-17	57.0	9.1	18.6	16.0	47.5	60.3	39.6	42.5	40.1	58.3	42.2
TN94-238	51.0	10.6	13.1	21.5	42.1	46.0	31.9	39.7	51.0	43.8	37.8
VS95-154	57.7	6.4	21.1	16.7	36.7	53.2	35.6	37.3	44.1	36.3	37.6
VS95-78	55.4	4.8	21.8	18.4	41.8	56.1	34.6	31.6	49.8	38.8	38.7
OK92-6524	53.2	7.4	22.3	18.3	44.1	53.8	35.8	40.1	31.6	46.8	38.4
L. S. D. (0.05)	6.6	.	4.4	6.2	6.0	5.1	7.1	7.0	19.0	8.7	.
C. V. (%)	7.0	.	12.9	19.6	7.9	5.3	10.5	10.5	22.5	10.5	.

†Data not included in Mean

TABLE 37 - Continued

STRAIN/ VARIETY	DELTA				MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	ROHWER AR	STONEVILLE MS	
DILLON	57.1	43.6	60.3	53.0	53.5
BOGGS	41.3	42.2	52.3	44.4	45.0
N96-6800	48.8	39.8	44.9	50.4	46.0
Au94-507	60.6	46.3	56.0	52.9	53.9
G94-1572	47.0	40.7	46.3	43.5	44.4
N94-552	50.6	42.8	51.3	47.7	48.1
N96-509	46.6	48.0	47.9	50.0	48.1
R93-151	55.0	43.3	54.4	50.0	50.7
S95-1908	50.1	48.3	51.1	57.7	51.8
SC94-1075	60.9	51.5	52.2	45.8	52.6
SC95-1070	49.2	46.9	42.0	39.4	44.4
SC95-1421	51.5	46.9	47.9	33.5	44.9
TN93-142-17	51.2	49.2	49.3	47.4	49.3
TN94-238	37.9	41.8	63.3	54.7	49.4
VS95-154	49.6	41.3	35.7	34.4	40.3
VS95-78	38.2	36.6	22.8	33.4	32.8
OK92-6524	42.7	43.6	37.0	33.7	39.2
L. S. D. (0.05)	12.3	5.4	9.6	4.2	.
C. V. (%)	14.7	7.3	9.4	5.5	.

TABLE 37 - Continued

STRAIN/ VARIETY	WEST				MEAN
	BIXBY OK	BOSSIER CITY LA	STUTT GART AR		
DILLON	16.6	34.5	51.7		34.2
BOGGS	30.1	38.4	58.9		42.5
N96-6800	11.1	37.2	42.4		30.2
Au94-507	12.8	35.5	48.6		32.3
G94-1572	32.1	38.3	47.5		39.3
N94-552	34.5	40.3	51.2		42.0
N96-509	18.8	34.6	46.5		33.3
R93-151	25.4	37.5	58.9		40.6
S95-1908	33.4	37.7	58.9		43.3
SC94-1075	32.2	34.6	53.7		40.2
SC95-1070	31.6	36.3	49.6		39.2
SC95-1421	32.9	42.3	45.5		40.2
TN93-142-17	25.5	34.3	53.7		37.8
TN94-238	18.3	25.9	52.7		32.3
VS95-154	26.4	29.9	41.3		32.6
VS95-78	32.3	31.6	40.3		34.7
OK92-6524	24.9	30.5	42.4		32.6
L. S. D. (0.05)	4.2	5.2	9.2		.
C. V. (%)	9.9	8.9	11.0		.

TABLE 38 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1999

OIL PERCENTAGE

STRAIN/ VARIETY	BELLE†			BLACK-			PINE			PORTAGE-		STONE-		TALLA-		TIFTON GA	WARSAW VA	MEAN
	ATHENS GA	MINA AL	BIXBY OK	VILLE SC	CALHOUN GA	CLEMSON SC	CLINTON NC	FAIRHOPE AL	TREE AR	PLYMOUTH NC	VILLE MO(A)	VILLE MS	SUFFOLK VA	SSEE AL				
DILLON	20.0	18.7	.	19.6	.	20.8	19.2	20.2	19.4	19.5	19.3	20.0	18.0	20.0	.	18.4	19.5	
BOGGS	19.9	19.3	.	19.8	.	20.3	18.4	20.4	20.2	18.8	19.0	19.7	18.5	20.2	.	18.5	19.5	
N96-6800	19.8	18.5	.	20.1	.	20.6	18.3	20.8	18.9	19.4	18.9	19.6	18.4	20.0	.	18.7	19.5	
Au94-507	20.5	19.4	.	20.2	.	21.4	19.2	20.8	20.5	19.8	21.1	20.3	19.7	21.8	.	18.4	20.3	
G94-1572	19.4	.	.	19.7	.	20.1	17.7	20.3	19.5	18.4	18.4	17.8	18.1	19.5	.	17.8	18.9	
N94-552	18.7	17.9	.	19.5	.	19.8	17.6	19.3	18.5	18.4	18.2	19.4	17.6	19.0	.	18.8	18.7	
N96-509	20.3	19.4	.	20.7	.	21.2	18.7	21.0	19.7	19.7	20.1	20.0	18.9	20.6	.	19.0	20.0	
R93-151	20.2	18.8	.	20.5	.	21.3	19.1	20.5	20.2	20.0	19.9	20.0	18.3	20.5	.	18.3	19.9	
S95-1908	19.9	18.0	.	19.9	.	20.3	18.1	19.7	19.1	18.5	19.0	19.0	18.1	20.1	.	20.1	19.3	
SC94-1075	20.0	19.4	.	21.2	.	21.7	19.2	20.8	20.9	19.1	20.1	20.0	18.5	20.7	.	19.5	20.1	
SC95-1070	20.3	18.9	.	20.2	.	20.8	19.0	20.9	20.6	19.2	19.3	20.0	18.2	20.5	.	18.8	19.8	
SC95-1421	19.4	18.4	.	20.2	.	20.2	18.5	19.9	19.3	18.0	19.0	17.9	17.1	19.6	.	18.6	19.0	
TN93-142-17	19.7	19.1	.	20.1	.	20.3	18.5	20.1	19.2	19.6	19.9	20.0	19.4	20.0	.	19.2	19.7	
TN94-238	20.3	19.7	.	20.0	.	21.2	19.4	21.3	19.7	20.0	20.7	20.8	18.7	22.0	.	19.7	20.3	
VS95-154	18.3	17.8	.	18.4	.	19.2	17.6	18.2	18.0	17.5	17.3	17.3	17.1	17.7	.	18.4	17.9	
VS95-78	18.3	18.5	.	19.9	.	20.8	17.0	19.3	19.5	18.0	18.3	18.9	16.0	20.0	.	17.9	18.7	
OK92-6524	19.0	18.4	.	19.3	.	20.1	17.9	19.4	19.3	19.0	19.0	18.1	16.7	19.7	.	20.1	19.0	

†Data not included in Mean

TABLE 38 - Continued

PROTEIN PERCENTAGE

STRAIN/ VARIETY	BELLE†		BIXBY OK	BLACK-		CALHOUN GA	CLEMSON SC	CLINTON NC	PINE		PORTAGE- VILLE MO(A)	STONE- VILLE MS	SUFFOLK VA	TALLA-		TIFTON GA	WARSAW VA	MEAN
	ATHENS GA	MINA AL		VILLE SC	VILLE AR				PLYMOUTH NC	SSEE AL								
DILLON	41.6	45.0	.	42.8	.	38.3	42.4	43.5	42.2	42.1	42.0	41.7	44.3	43.2	.	41.9	42.2	
BOGGS	42.1	46.6	.	44.0	.	40.4	45.0	42.4	41.6	43.2	41.5	44.8	44.2	45.4	.	41.3	43.0	
N96-6800	41.8	45.1	.	41.4	.	38.0	42.2	42.0	43.2	40.8	42.0	40.7	42.9	43.4	.	41.6	41.7	
Au94-507	41.0	45.7	.	42.4	.	37.6	41.9	41.7	41.3	40.8	39.8	41.3	42.1	40.7	.	41.6	41.0	
G94-1572	41.4	.	.	42.7	.	39.3	44.1	42.3	42.0	42.9	42.0	44.9	44.9	43.2	.	43.1	42.7	
N94-552	42.5	46.2	.	43.0	.	39.7	43.2	43.1	43.6	42.5	42.2	43.0	44.5	42.8	.	43.8	42.8	
N96-509	44.4	47.4	.	44.4	.	41.3	45.1	44.0	44.4	42.7	43.8	43.9	45.5	45.0	.	42.4	43.9	
R93-151	41.2	46.4	.	42.7	.	38.9	43.2	42.6	41.8	41.6	41.3	42.6	44.2	42.2	.	41.1	42.0	
S95-1908	41.6	47.7	.	43.6	.	39.4	43.0	44.4	43.1	42.0	41.9	43.5	43.2	44.5	.	40.9	42.6	
SC94-1075	41.1	45.4	.	41.4	.	37.1	41.8	41.8	40.4	41.9	40.8	41.7	43.3	42.7	.	40.7	41.2	
SC95-1070	40.5	44.7	.	40.9	.	36.9	40.9	39.7	37.9	40.2	39.4	39.8	42.0	41.4	.	40.9	40.0	
SC95-1421	41.1	44.0	.	41.7	.	38.4	41.4	41.6	40.5	41.0	39.2	42.0	43.1	42.1	.	40.9	41.1	
TN93-142-17	40.9	45.3	.	42.5	.	39.6	42.6	42.1	42.0	42.1	40.7	41.5	43.4	43.5	.	42.3	41.9	
TN94-238	42.1	44.4	.	43.1	.	38.5	42.9	42.5	42.9	40.7	40.8	40.8	43.0	42.4	.	41.4	41.8	
VS95-154	44.2	46.3	.	45.3	.	40.7	44.3	45.3	45.9	43.5	44.3	45.6	45.8	46.4	.	43.8	44.6	
VS95-78	43.2	44.8	.	42.9	.	39.9	44.7	43.5	43.2	41.8	41.8	43.1	46.7	42.2	.	44.1	43.1	
OK92-6524	43.0	46.9	.	44.4	.	39.9	44.0	43.9	43.2	42.1	43.5	44.2	45.7	43.9	.	42.3	43.3	

†Data not included in Mean

TABLE 38 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	BELLE†		BLACK-		CALHOUN GA	CLEMSON SC	CLINTON NC	FAIRHOPE AL	PINE		PORTAGE- MO(A)	STONE- VILLE MS	SUFFOLK VA	TALLA-		TIFTON GA	WARSAW VA	MEAN
	ATHENS GA	MINA AL	BIXBY OK	VILLE SC					TREE AR	PLYMOUTH NC				SSEE AL	WARSAW VA			
DILLON	15.6	13.6	17.1	17.8	16	15.9	15.3	14.6	16.3	14.5	13.0	14.1	11.5	14.3	14	17.0	15.1	
BOGGS	13.2	14.4	16.3	17.4	16	14.3	13.0	14.5	14.2	10.2	12.8	12.4	11.4	14.7	14	14.0	13.9	
N96-6800	14.6	9.1	16.2	18.9	11	14.6	13.1	14.8	15.5	12.1	11.3	12.7	10.7	13.5	16	14.1	13.9	
Au94-507	16.1	13.9	15.7	19.0	15	15.5	15.5	15.3	16.0	14.4	13.5	13.8	11.7	14.7	18	15.9	15.3	
G94-1572	13.4	.	13.9	17.3	16	14.4	14.1	14.4	13.6	12.6	13.0	10.8	11.8	14.2	12	14.4	13.7	
N94-552	13.1	13.9	14.9	17.0	16	14.5	13.3	12.3	14.4	13.5	11.4	11.5	10.7	12.3	16	14.1	13.7	
N96-509	16.8	12.7	18.7	20.5	14	15.9	16.1	16.0	17.9	15.1	13.4	15.4	13.9	15.6	15	17.8	16.1	
R93-151	15.3	12.7	15.4	20.0	13	16.6	14.5	15.6	17.0	13.1	13.8	14.9	10.4	14.8	.	17.0	15.1	
S95-1908	15.1	13.3	16.6	21.8	15	14.1	14.7	15.7	15.6	12.6	13.0	13.6	11.1	14.9	16	14.7	15.0	
SC94-1075	12.5	15.2	17.4	17.5	15	13.8	11.0	12.1	13.6	11.3	11.7	11.4	10.0	12.9	14	12.7	13.1	
SC95-1070	14.6	14.7	14.9	19.7	18	15.4	13.4	14.2	13.9	12.0	13.5	12.2	12.0	15.1	17	14.1	14.7	
SC95-1421	12.7	14.3	17.5	16.4	15	14.5	12.0	13.3	14.7	10.9	12.3	10.8	10.7	15.2	16	13.1	13.7	
TN93-142-17	14.8	13.8	16.7	20.3	15	15.0	14.0	15.7	17.7	14.6	13.3	15.2	13.9	15.0	16	16.1	15.6	
TN94-238	18.1	13.6	16.2	20.0	16	15.7	15.6	17.6	17.9	14.3	14.7	14.8	12.7	17.0	16	17.2	16.3	
VS95-154	12.6	11.8	16.0	17.5	12	14.1	11.7	13.2	14.7	10.9	11.5	10.0	9.8	12.6	11	13.5	12.7	
VS95-78	10.9	15.5	15.9	14.3	15	12.8	11.6	11.9	12.4	9.7	10.6	9.5	8.8	12.0	15	11.7	12.1	
OK92-6524	12.3	12.7	15.3	15.7	14	13.9	12.2	14.5	14.3	12.3	11.9	10.9	10.7	14.6	14	13.8	13.4	

†Data not included in Mean

TABLE 39 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN DILLON VARIETY IN UNIFORM GROUP VI, 1999

EAST

STRAIN/ VARIETY	CLINTON NC	PLYMOUTH NC	WARSAW VA	MEAN
DILLON	10/16	10/22	10/31	10/23
BOGGS	9	5	6	7
N96-6800	0	0	-5	-2
Au94-507	4	0	-2	1
G94-1572	9	10	4	8
N94-552	9	5	4	6
N96-509	9	0	1	3
R93-151	9	0	0	3
S95-1908	14	0	1	5
SC94-1075	4	3	1	3
SC95-1070	11	5	0	5
SC95-1421	9	5	3	6
TN93-142-17	9	5	3	6
TN94-238	-4	-9	-6	-6
VS95-154	9	5	4	6
VS95-78	14	5	2	7
OK92-6524	15	10	2	9

TABLE 39 - 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
DILLON	10/16	10/13	10/28	11/06	10/26	10/05	.	10/29	10/06	09/28	10/18
BOGGS	7	2	9	-3	7	10	.	5	10	9	7
N96-6800	-9	-9	-4	-34	-1	0	.	2	-9	0	-7
Au94-507	-2	-5	-2	-24	-2	2	.	-5	-9	1	-5
G94-1572	7	7	7	-6	4	8	.	5	12	7	6
N94-552	4	5	9	-8	2	7	.	5	12	9	5
N96-509	-6	-5	-3	-25	-4	2	.	2	1	0	-4
R93-151	1	-2	1	-29	0	4	.	0	0	5	-2
S95-1908	0	2	5	-1	-4	6	.	0	1	5	1
SC94-1075	1	2	3	-4	4	4	.	2	5	4	3
SC95-1070	3	3	8	-1	3	13	.	5	12	8	6
SC95-1421	6	2	7	0	2	10	.	0	12	11	6
TN93-142-17	-1	-1	1	-8	2	3	.	5	-9	5	0
TN94-238	-11	-7	-7	-30	-8	-2	.	-3	-16	-7	-10
VS95-154	4	2	7	-4	5	7	.	5	11	9	6
VS95-78	7	6	8	-4	8	12	.	2	12	11	7
OK92-6524	7	2	9	-6	5	14	.	2	12	10	7

†Data not included in Mean

TABLE 39 - Continued

STRAIN/ VARIETY	DELTA				
	PINE TREE AR	PORTAGEVILLE MO(A)	ROHWER AR	STONEVILLE MS	MEAN
DILLON	10/26	10/15	09/30	10/07	10/12
BOGGS	4	10	5	1	5
N96-6800	0	-3	1	2	0
Au94-507	-1	-4	-3	1	-2
G94-1572	0	11	7	2	5
N94-552	-1	12	8	4	6
N96-509	1	-3	-1	1	-1
R93-151	1	-1	0	2	1
S95-1908	4	-3	-1	-1	0
SC94-1075	2	4	4	-1	2
SC95-1070	1	9	7	4	5
SC95-1421	2	9	8	3	6
TN93-142-17	0	3	1	-5	0
TN94-238	-4	-4	-3	-7	-4
VS95-154	4	12	5	2	6
VS95-78	2	12	6	3	6
OK92-6524	4	10	6	6	6

TABLE 39 - Continued

STRAIN/ VARIETY	WEST			MEAN
	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	
DILLON	.	10/17	.	10/17
BOGGS	.	-6	.	-6
N96-6800	.	-1	.	-1
Au94-507	.	-6	.	-6
G94-1572	.	-6	.	-6
N94-552	.	-4	.	-4
N96-509	.	1	.	1
R93-151	.	-1	.	-1
S95-1908	.	-4	.	-4
SC94-1075	.	-2	.	-2
SC95-1070	.	-4	.	-4
SC95-1421	.	-7	.	-7
TN93-142-17	.	-4	.	-4
TN94-238	.	-5	.	-5
VS95-154	.	-7	.	-7
VS95-78	.	-5	.	-5
OK92-6524	.	-5	.	-5

TABLE 40 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1999**EAST**

STRAIN/ VARIETY	CLINTON	PLYMOUTH	WARSAW	MEAN
	NC	NC	VA	
DILLON	30	36	30	32
BOGGS	30	34	29	31
N96-6800	27	32	21	26
Au94-507	23	34	27	28
G94-1572	42	48	40	43
N94-552	29	39	34	34
N96-509	32	36	28	32
R93-151	30	33	26	30
S95-1908	32	38	33	34
SC94-1075	31	37	30	33
SC95-1070	33	37	31	34
SC95-1421	32	40	33	35
TN93-142-17	32	36	29	32
TN94-238	25	30	24	26
VS95-154	30	34	29	31
VS95-78	31	36	31	32
OK92-6524	34	37	31	34

TABLE 40 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA† AL	BLACKVILLE SC	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	SUFFOLK VA	TALLASSEE AL	TIFTON GA	MEAN
DILLON	34	41	24	43	37	34	40	43	41	37
BOGGS	32	40	22	43	31	29	36	36	34	33
N96-6800	27	32	17	38	29	25	32	36	35	30
Au94-507	31	33	22	38	32	28	36	40	34	33
G94-1572	43	45	27	52	42	33	46	46	37	41
N94-552	36	36	24	40	36	32	41	39	37	36
N96-509	34	32	21	39	30	27	34	40	39	33
R93-151	34	37	18	41	31	30	40	42	38	34
S95-1908	36	42	23	47	35	31	41	46	47	38
SC94-1075	36	39	25	46	33	31	37	46	37	36
SC95-1070	38	35	26	42	38	31	42	41	37	37
SC95-1421	35	40	24	42	36	31	41	41	44	37
TN93-142-17	32	37	20	39	31	30	36	25	35	31
TN94-238	29	34	20	40	31	23	37	38	39	32
VS95-154	32	36	24	38	29	27	37	39	39	33
VS95-78	35	37	21	38	34	30	38	36	35	34
OK92-6524	41	42	23	41	34	36	40	25	40	35

†Data not included in Mean

TABLE 40 - Continued

DELTA					
STRAIN/ VARIETY	PINE TREE AR	PORTAGEVILLE MO(A)	ROHWER AR	STONEVILLE MS	MEAN
DILLON	29	37	39	38	36
BOGGS	25	37	38	28	32
N96-6800	24	24	31	30	27
Au94-507	23	34	33	36	31
G94-1572	33	44	39	44	40
N94-552	28	38	38	38	36
N96-509	25	34	38	32	32
R93-151	28	35	39	26	32
S95-1908	26	37	36	36	34
SC94-1075	31	40	42	38	38
SC95-1070	28	44	33	44	37
SC95-1421	32	41	39	42	38
TN93-142-17	26	32	32	32	30
TN94-238	21	26	32	20	25
VS95-154	26	38	36	30	33
VS95-78	26	37	42	30	34
OK92-6524	30	39	44	34	37

TABLE 40 - Continued

STRAIN/ VARIETY	WEST		MEAN
	BIXBY OK	BOSSIER CITY LA	
DILLON	26	38	32
BOGGS	24	33	28
N96-6800	20	34	27
Au94-507	24	33	29
G94-1572	31	43	37
N94-552	26	41	33
N96-509	26	40	33
R93-151	22	35	29
S95-1908	27	37	32
SC94-1075	26	43	34
SC95-1070	30	47	38
SC95-1421	28	44	36
TN93-142-17	23	32	27
TN94-238	27	36	32
VS95-154	28	34	31
VS95-78	26	39	32
OK92-6524	24	39	32

**TABLE 41 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VI,
1999**

EAST

STRAIN/ VARIETY	CLINTON	PLYMOUTH	WARSAW	MEAN
	NC	NC	VA	
DILLON	3	3	2	3
BOGGS	4	3	3	3
N96-6800	4	3	2	3
Au94-507	4	3	2	3
G94-1572	4	3	3	3
N94-552	4	4	3	4
N96-509	3	3	2	3
R93-151	3	3	2	3
S95-1908	3	3	3	3
SC94-1075	3	3	2	3
SC95-1070	4	3	3	3
SC95-1421	3	3	2	3
TN93-142-17	3	3	2	3
TN94-238	4	3	2	3
VS95-154	4	3	3	3
VS95-78	3	3	3	3
OK92-6524	4	3	2	3

TABLE 41 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA† AL	BLACKVILLE SC	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	SUFFOLK VA	TALLASSEE AL	TIFTON GA	MEAN
DILLON	2	2	1	1	2	1	2	2	1	2
BOGGS	3	2	1	2	4	1	3	5	4	3
N96-6800	3	2	1	1	1	1	3	3	2	2
Au94-507	3	2	1	2	2	2	2	3	3	2
G94-1572	3	3	1	2	2	1	3	2	2	2
N94-552	3	2	1	2	2	1	3	2	2	2
N96-509	3	2	1	2	1	1	2	1	2	2
R93-151	2	1	1	1	1	1	2	1	1	1
S95-1908	2	2	1	2	1	1	3	1	2	2
SC94-1075	2	2	1	1	2	1	2	2	2	2
SC95-1070	2	3	1	2	3	1	4	1	2	2
SC95-1421	2	2	1	2	2	1	2	2	1	2
TN93-142-17	2	1	1	1	1	1	2	2	2	2
TN94-238	2	1	1	1	1	1	2	2	1	1
VS95-154	3	2	1	2	1	1	3	2	1	2
VS95-78	2	2	1	2	2	2	2	3	2	2
OK92-6524	3	2	1	1	2	2	2	2	3	2

†Data not included in Mean

TABLE 41 - Continued

STRAIN/ VARIETY	DELTA					MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	ROHWER AR	STONEVILLE MS		
DILLON	1	1	.	2		1
BOGGS	2	2	3	2		2
N96-6800	1	1	.	2		1
Au94-507	2	1	2	3		2
G94-1572	2	3	.	3		2
N94-552	1	2	3	4		2
N96-509	1	1	.	2		1
R93-151	1	2	.	2		1
S95-1908	1	1	.	2		1
SC94-1075	2	2	1	2		2
SC95-1070	2	3	.	2		2
SC95-1421	2	2	.	2		2
TN93-142-17	1	1	.	2		1
TN94-238	1	1	.	2		1
VS95-154	1	2	1	2		2
VS95-78	1	2	1	2		2
OK92-6524	2	2	1	3		2

TABLE 41 - Continued

WEST	
STRAIN/ VARIETY	BOSSIER CITY LA
DILLON	2
BOGGS	4
N96-6800	2
Au94-507	2
G94-1572	3
N94-552	2
N96-509	2
R93-151	1
S95-1908	3
SC94-1075	2
SC95-1070	2
SC95-1421	2
TN93-142-17	1
TN94-238	1
VS95-154	2
VS95-78	2
OK92-6524	2

TABLE 42 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1999**EAST**

STRAIN/ VARIETY	CLINTON	PLYMOUTH	WARSAW	MEAN
	NC	NC	VA	
DILLON	2	2	1	2
BOGGS	2	2	1	2
N96-6800	3	2	1	2
Au94-507	3	2	1	2
G94-1572	2	2	1	2
N94-552	3	2	1	2
N96-509	3	2	2	2
R93-151	3	2	1	2
S95-1908	3	2	1	2
SC94-1075	3	2	1	2
SC95-1070	3	2	2	2
SC95-1421	3	2	1	2
TN93-142-17	3	2	2	2
TN94-238	3	2	1	2
VS95-154	2	2	2	2
VS95-78	2	2	1	2
OK92-6524	3	2	2	2

TABLE 42 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS	BELLE MINA†	CALHOUN	FAIRHOPE	SUFFOLK	TALLASSEE	TIFTON	MEAN
	GA	AL	GA	AL	VA	AL	GA	
DILLON	2	1	2	1	1	1	2	2
BOGGS	2	1	2	1	1	1	2	2
N96-6800	2	1	2	1	1	2	1	2
Au94-507	2	1	3	1	2	2	2	2
G94-1572	2	5	2	1	1	2	2	2
N94-552	2	1	2	1	1	1	2	1
N96-509	2	1	3	1	2	1	1	2
R93-151	2	1	2	1	1	2	2	2
S95-1908	2	2	3	1	1	2	2	2
SC94-1075	2	1	4	1	1	2	1	2
SC95-1070	3	2	3	1	1	2	2	2
SC95-1421	2	2	3	1	1	2	2	2
TN93-142-17	2	1	2	1	2	3	2	2
TN94-238	2	1	3	1	2	2	2	2
VS95-154	2	2	3	1	1	2	2	2
VS95-78	2	1	3	1	1	1	2	2
OK92-6524	2	2	3	1	1	2	2	2

†Data not included in Mean

TABLE 42 - Continued

STRAIN/ VARIETY	DELTA				MEAN
	PINE TREE AR	PORTAGEVILLE MO(A)	STONEVILLE MS		
DILLON	1	1	2		1
BOGGS	2	1	2		2
N96-6800	1	1	2		1
Au94-507	1	1	2		1
G94-1572	1	1	2		1
N94-552	1	1	2		1
N96-509	1	1	2		1
R93-151	1	1	2		1
S95-1908	2	1	2		2
SC94-1075	1	1	2		1
SC95-1070	1	1	2		1
SC95-1421	1	1	2		1
TN93-142-17	2	1	2		2
TN94-238	1	1	2		1
VS95-154	1	1	2		1
VS95-78	1	1	2		1
OK92-6524	2	1	2		2

PRELIMINARY GROUP VI

1999

Preliminary Group VI nurseries were planted at 8 locations. Data were obtained from all of the 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, 1999

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. DILLON	CENTENNIAL X YOUNG	
2. BOGGS	G81-152 X COKER 6738	
3. N96-6783	N91-7202 X N90-7199	F5
4. N97-9791	N90-7199 X N91-7254	F5
5. N97-9812	N90-7199 X N91-7254	F5
6. Au96-1118	Carver X N90-516	F6
7. Au96-1160	Carver X N90-516	F6
8. Au96-1353	Carver X N90-516	F6
9. Au96-2022	N90-1085 X D87-4429	F6
10. Au96-532	N90-541 X SC89-216	F6
11. G95-179	G86-1434 X G86-1267	F5
12. G95-2723	G86-1434 X HY798	F5
13. G95-2861	G87-1968 X G86-1267	F5
14. G95-432	G86-1434 X G87-1968	F5
15. G95-608	G86-1434 X G87-1968	F5
16. N93-1264	BRIM X PI 416937	
17. N96-371	BRIM X SHARKEY	F6
18. N96-7161	Holiday x N91-8006	F5
19. N97-145	GRAHAM X D87-4429	F6
20. N97-3525	N93-132 X [BRIM(2) X (N88-431(2) X N35-2-19)]	F3
21. N97-355	N90-541 X N90-1101	F6
22. N97-61	N90-541 X N90-1101	F6
23. N97-9839	N90-7199 X N91-7254	F5
24. R96-1559	A5403 X A6297	
25. R96-1939	Hutcheson X Coker6955	
26. R96-3538	A5403 X Dillon	
27. SC96-1239	SC84-931/D87-4429	F5
28. SC96-1535	SC89-181/SC84-931	F5
29. SC96-1624	SC89-181/NK'S S75-55	F5
30. SC96-598	HUTCHESON/D87-4429	F5
31. TN91-220-53	HUTCHESON X TN 5-85	
32. TN93-154-7	TN 4-86 X HUTCHESON	
33. TN93-163-3	TN 4-86 X HUTCHESON	
34. TN97-262	HUTCHESON X TN89-68	
35. VS97-312	PI 96089 x Essex (2)	F6
36. VS97-318	L76-0132 X Essex (2)	F6
37. VS97-320	PI 96089 x Essex (2)	F6
38. VS97-349	PI 96089 x Essex (2)	F6

TABLE 44 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1999 - MEAN OF 8 LOCATIONS

STRAIN/ VARIETY	SEED	MAT.	LODGING	HEIGHT	QUALITY	SEED	----PERCENT----		STEM	SCN	SCN	SCN	M. I.	M. A.
	YIELD	INDEX				SIZE	PROTEIN	OIL	CANKER	2	3	14	TN	TN
DILLON	46.1	10/19	2	35	2	14.7	41.7	19.7	S	.	2.4	4.7	1.0	3.7
BOGGS	48.3	5+	4	34	2	13.4	42.9+	19.6	R	.	1.0	4.7	1.5	1.8
N96-6783	41.4	0	3	30	2	14.4	41.5	19.5	S	.	3.0	4.7	2.3	3.8
N97-9791	36.3-	2+	3	29	2	15.0	41.0	20.3+	S	.	4.3	5.0	3.0	4.0
N97-9812	41.4	2+	3	32	2	13.9	40.1-	20.7+	S	.	3.8	4.7	2.6	4.0
Au96-1118	44.5	2+	3	32	2	14.6	43.1+	20.5+	S	.	1.0	4.0	1.8	4.0
Au96-1160	43.2	2+	3	35	2	15.4	42.0	19.8	S	.	1.0	4.6	4.0	3.6
Au96-1353	44.0	2+	3	34	2	14.7	42.0	20.0	R	.	1.0	4.0	2.0	4.0
Au96-2022	44.2	2+	3	35	2	15.3	43.1+	18.9-	S	.	1.0	4.7	2.2	3.8
Au96-532	43.0	5-	2	39	2	15.5	39.6-	21.0+	R	.	4.0	4.8	2.2	4.3
G95-179	47.5	5+	3	37	2	13.3	41.9	19.2	SEG	.	1.0	4.2	1.4	1.3
G95-2723	43.7	5+	3	38	2	13.1	41.5	19.2	S	.	1.0	4.8	1.7	1.4
G95-2861	44.7	1+	3	35	2	14.8	40.1-	20.2	R	.	1.1	5.0	1.5	2.5
G95-432	43.5	3+	3	37	2	13.1	41.4	19.5	R	.	1.0	4.7	1.2	1.7
G95-608	42.5	3+	3	34	2	13.9	41.7	19.3	R	.	1.1	4.5	1.2	1.4
N93-1264	36.5-	3-	3	37	2	11.4	44.6+	18.0-	R	.	4.7	4.9	2.5	4.3
N96-371	42.1	1+	3	45	2	13.6	44.0+	18.4-	R	.	4.3	5.0	2.2	3.3
N96-7161	39.7-	2-	2	32	2	13.3	40.9	19.7	S	.	4.1	4.2	2.2	4.0
N97-145	42.8	3-	2	37	2	14.9	42.7+	19.8	S	.	4.6	4.8	2.0	4.2
N97-3525	38.4-	5+	3	40	2	14.9	43.3+	18.7-	S	.	4.8	4.5	2.2	4.0
N97-355	34.8-	7-	2	37	2	15.7	42.2	20.3+	R	.	4.7	5.0	2.3	4.0
N97-61	46.3	2-	2	31	2	13.0	41.7	20.6+	R	.	4.3	5.0	1.8	4.0
N97-9839	36.4-	2+	3	32	2	13.3	41.6	19.3	S	.	4.3	5.0	2.4	4.0
R96-1559	47.6	2-	2	34	2	13.7	40.8	19.5	R	.	1.0	4.7	2.5	4.8
R96-1939	44.6	4-	2	35	2	13.3	41.8	19.8	R	.	4.7	5.0	2.2	4.0
R96-3538	48.4	3+	2	34	2	16.4	41.5	19.7	S	.	4.7	5.0	2.0	4.0
SC96-1239	41.6	5+	2	41	2	15.8	41.1	19.0-	S	.	5.0	4.5	1.3	3.0
SC96-1535	44.2	8+	3	38	2	13.4	41.1	19.9	S	.	4.4	5.0	1.8	3.7
SC96-1624	42.1	4+	3	37	2	14.5	41.6	19.8	R	.	1.0	4.5	1.3	3.8
SC96-598	43.7	6+	4	37	2	16.6	41.8	19.9	R	.	1.0	5.0	1.5	3.2
TN91-220-53	44.2	1-	2	34	2	15.4	41.6	20.6+	R	.	3.7	4.9	2.7	3.0
TN93-154-7	45.5	5-	2	32	2	14.0	41.3	20.6+	R	.	1.3	3.3	2.3	4.0
TN93-163-3	44.0	5-	2	33	2	13.6	41.4	20.6+	R	.	1.0	3.4	2.2	3.2
TN97-262	42.1	2-	3	30	2	14.7	41.2	20.4+	S	.	5.0	4.7	2.6	4.0
VS97-312	40.7	6+	3	42	2	14.4	42.2	18.9-	S	.	1.2	4.6	2.3	3.5
VS97-318	42.3	7+	3	43	2	14.3	42.2	18.6-	S	.	2.0	4.7	2.0	3.7
VS97-320	40.6-	1-	2	37	2	12.7	42.8+	19.1	S	.	4.7	4.5	2.4	4.0
VS97-349	42.4	0	3	29	2	12.1	42.2	19.3	S	.	5.0	4.7	2.7	4.0
OVERALL MEAN	42.8						41.8	19.7						
L. S. D. (.05)	5.5						1.0	0.6						
C. V.	13%						2%	3%						

TABLE 45 - SEED YIELD IN BUSHELS PER ACRE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1999

STRAIN/ VARIETY	ATHENS	BIXBY	CLEMSON	PETERSBURG	PLYMOUTH	STONEVILLE	STUTTGART	TALLASSEE	MEAN
	GA	OK	SC	VA	NC	MS	AR	AL	
DILLON	68.2	13.9	59.6	37.7	33.7	52.2	50.6	53.1	46.1
BOGGS	66.3	35.7+	53.0	51.3	27.4	42.7-	52.2	57.5	48.3
N96-6783	62.9	8.8	57.6	25.9	30.9	49.6	49.0	46.2	41.4
N97-9791	60.1	18.5	45.7-	25.3	29.3	32.4-	40.8	38.4-	36.3-
N97-9812	54.6-	27.9+	45.3-	30.0	32.4	41.1-	52.3	47.9	41.4
Au96-1118	57.5-	32.7+	51.8-	38.5	41.6+	43.7-	40.8	49.6	44.5
Au96-1160	56.7-	33.8+	47.2-	41.5	30.6	39.3-	42.5	54.3	43.2
Au96-1353	60.2	33.6+	49.2-	34.7	34.7	45.3-	35.9	58.4	44.0
Au96-2022	68.5	17.2	49.6-	36.6	34.2	36.2-	49.0	62.3	44.2
Au96-532	58.8	16.7	53.2	42.0	32.2	39.7-	49.0	52.6	43.0
G95-179	66.1	40.8+	49.4-	49.9	30.5	32.6-	49.0	62.1	47.5
G95-2723	64.5	36.1+	51.5-	43.0	24.2-	38.1-	42.5	50.1	43.7
G95-2861	62.8	39.0+	42.6-	47.0	27.8	35.0-	49.0	54.4	44.7
G95-432	63.1	34.1+	45.6-	41.5	29.1	34.8-	42.4	57.6	43.5
G95-608	61.0	33.6+	44.4-	33.3	26.6	37.5-	50.6	53.0	42.5
N93-1264	59.2	17.8	47.6-	33.6	27.6	35.3-	31.1-	40.0-	36.5-
N96-371	58.4	24.8+	49.0-	40.8	34.3	38.7-	42.5	48.6	42.1
N96-7161	64.0	19.0	39.6-	29.7	32.1	42.8-	44.1	45.9	39.7-
N97-145	65.3	37.5+	48.8-	38.1	27.8	41.7-	31.0-	52.5	42.8
N97-3525	54.9-	25.8+	51.2-	26.9	29.6	37.0-	33.5	48.7	38.4-
N97-355	55.4-	5.7-	52.0-	30.1	31.3	43.8-	31.0-	28.8-	34.8-
N97-61	67.2	32.6+	49.7-	38.0	38.6	43.8-	42.5	57.9	46.3
N97-9839	55.6-	24.7+	41.6-	26.2	27.9	33.9-	40.8	40.9-	36.4-
R96-1559	56.4-	23.9+	60.3	44.9	34.9	53.6	48.2	58.8	47.6
R96-1939	60.5	29.5+	52.9	38.7	27.9	49.2	40.8	57.2	44.6
R96-3538	60.7	32.2+	57.2	40.6	32.1	49.2	57.2	58.1	48.4
SC96-1239	64.3	34.7+	50.1-	31.3	26.5	30.3-	41.6	54.2	41.6
SC96-1535	66.0	35.3+	51.2-	37.5	34.3	35.9-	37.6	55.8	44.2
SC96-1624	63.9	32.5+	54.1	23.5-	31.9	30.9-	40.8	59.5	42.1
SC96-598	62.3	32.0+	50.0-	42.2	29.3	36.7-	40.8	56.5	43.7
TN91-220-53	60.3	27.8+	49.6-	39.4	37.0	45.0-	42.4	52.1	44.2
TN93-154-7	55.4-	26.0+	53.6	44.8	31.2	48.2	52.3	52.6	45.5
TN93-163-3	57.8	24.4+	56.5	37.5	27.5	45.8-	52.3	50.4	44.0
TN97-262	58.6	29.1+	50.6-	34.5	31.5	45.2-	39.2	48.3	42.1
VS97-312	60.5	32.1+	47.4-	44.3	27.3	31.0-	37.6	45.8	40.7
VS97-318	58.5	34.8+	48.3-	40.3	30.4	31.5-	37.6	57.2	42.3
VS97-320	50.7-	26.7+	52.0-	35.2	26.3-	36.6-	47.4	49.8	40.6
VS97-349	57.4-	29.2+	55.7	28.0	30.9	47.0	36.7	54.4	42.4
L. S. D. (0.05)	10.6	5.2	7.5	13.7	7.3	6.0	18.1	11.6	5.5
C. V. (%)	8.6	11.4	7.4	18.3	11.6	7.3	20.6	11.0	13.1

TABLE 46 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1999

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
DILLON	19.7	20.9	18.5	19.2	20.1	19.9	19.7
BOGGS	19.7	19.5	18.8	19.2	20.2	20.4	19.6
N96-6783	20.0	20.5	17.2	19.2	20.1	20.2	19.5
N97-9791	20.1	20.9	19.8	20.0	20.2	21.0	20.3
N97-9812	20.6	21.4	19.2	20.7	20.5	21.9	20.7
Au96-1118	20.6	21.4	20.3	19.2	20.3	21.0	20.5
Au96-1160	19.7	20.4	19.4	19.2	19.2	20.9	19.8
Au96-1353	20.1	19.5	19.8	19.6	20.5	20.4	20.0
Au96-2022	20.3	18.8	18.2	18.0	18.6	19.7	18.9
Au96-532	20.9	20.8	20.5	20.2	22.1	21.2	21.0
G95-179	19.0	19.7	19.7	18.7	18.7	19.6	19.2
G95-2723	19.5	19.6	18.7	18.5	18.9	19.7	19.2
G95-2861	20.4	20.4	19.6	19.5	20.9	20.5	20.2
G95-432	19.2	21.0	18.9	19.0	18.9	20.0	19.5
G95-608	19.7	19.7	19.3	18.4	18.3	20.1	19.3
N93-1264	18.7	18.6	16.7	17.7	18.0	18.3	18.0
N96-371	18.8	19.0	17.6	17.6	18.3	19.2	18.4
N96-7161	20.0	20.7	18.9	18.4	19.5	20.5	19.7
N97-145	19.5	19.8	20.2	19.0	20.0	20.4	19.8
N97-3525	18.7	18.8	19.4	17.7	18.8	18.8	18.7
N97-355	20.1	21.0	19.7	19.7	20.0	21.0	20.3
N97-61	20.5	22.1	17.9	20.7	20.9	21.5	20.6
N97-9839	18.9	19.5	18.3	18.9	20.0	20.4	19.3
R96-1559	19.4	20.4	18.5	18.9	19.9	20.1	19.5
R96-1939	19.6	20.3	19.9	19.0	20.6	19.2	19.8
R96-3538	19.6	19.7	18.7	19.4	20.4	20.6	19.7
SC96-1239	19.5	19.1	17.9	18.8	18.9	20.0	19.0
SC96-1535	19.8	21.3	18.8	19.7	19.6	20.0	19.9
SC96-1624	19.9	20.7	18.3	19.9	19.3	20.5	19.8
SC96-598	19.7	19.7	19.9	20.6	19.8	19.6	19.9
TN91-220-53	21.0	19.7	20.1	20.2	21.2	21.2	20.6
TN93-154-7	20.7	21.4	19.5	20.2	20.6	21.3	20.6
TN93-163-3	20.2	21.5	20.5	19.7	20.6	20.9	20.6
TN97-262	20.5	20.7	19.5	20.3	20.6	21.0	20.4
VS97-312	19.2	20.0	17.9	18.7	18.1	19.2	18.9
VS97-318	18.4	19.7	17.2	18.4	18.0	20.1	18.6
VS97-320	19.5	19.8	17.5	18.9	19.4	19.5	19.1
VS97-349	19.1	19.3	18.6	19.5	20.3	19.1	19.3

TABLE 47 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1999

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
DILLON	41.6	37.5	41.9	42.4	42.2	44.4	41.7
BOGGS	43.4	41.0	40.6	42.1	44.2	45.8	42.9
N96-6783	40.1	38.3	45.2	41.1	41.5	42.7	41.5
N97-9791	40.8	38.0	40.1	41.5	42.9	42.4	41.0
N97-9812	39.8	37.5	40.8	39.9	40.8	41.7	40.1
Au96-1118	42.2	40.1	41.9	43.9	45.1	45.3	43.1
Au96-1160	41.9	39.2	42.1	42.2	43.4	43.1	42.0
Au96-1353	41.4	39.7	42.6	42.5	42.5	43.2	42.0
Au96-2022	42.1	41.6	42.9	42.0	45.6	44.3	43.1
Au96-532	39.8	38.3	39.4	39.8	37.6	42.5	39.6
G95-179	41.3	39.5	40.7	42.6	43.1	44.0	41.9
G95-2723	41.1	39.9	40.8	41.9	41.8	43.6	41.5
G95-2861	39.5	38.9	39.8	40.7	39.4	42.2	40.1
G95-432	41.2	37.9	41.4	42.1	41.8	43.7	41.4
G95-608	40.3	39.6	42.0	41.6	43.4	43.5	41.7
N93-1264	43.2	41.7	44.9	44.8	46.1	47.0	44.6
N96-371	43.2	40.8	44.8	45.7	44.9	44.6	44.0
N96-7161	40.5	37.8	40.5	41.7	42.1	42.9	40.9
N97-145	42.5	41.0	42.2	43.2	43.0	44.4	42.7
N97-3525	43.0	40.8	41.7	41.9	44.9	47.7	43.3
N97-355	42.5	39.8	41.3	41.4	43.4	44.7	42.2
N97-61	41.5	36.2	43.1	42.3	42.2	44.6	41.7
N97-9839	41.1	39.2	43.2	42.0	41.3	42.7	41.6
R96-1559	41.0	38.9	42.1	41.0	39.9	42.0	40.8
R96-1939	41.5	39.0	40.1	41.6	42.3	46.1	41.8
R96-3538	41.0	39.1	42.4	41.2	41.8	43.3	41.5
SC96-1239	40.5	38.2	42.1	40.5	42.3	42.8	41.1
SC96-1535	40.2	39.1	42.1	41.0	41.5	42.8	41.1
SC96-1624	41.7	39.3	42.6	40.4	43.2	42.6	41.6
SC96-598	41.5	39.4	41.7	41.5	42.5	44.1	41.8
TN91-220-53	41.8	39.8	41.2	41.2	42.1	43.4	41.6
TN93-154-7	41.3	38.6	41.6	41.0	41.7	43.3	41.3
TN93-163-3	41.9	37.8	40.5	41.1	41.8	45.1	41.4
TN97-262	40.7	39.7	41.9	40.4	41.9	42.8	41.2
VS97-312	41.5	39.2	41.3	42.2	44.2	44.7	42.2
VS97-318	42.6	39.9	41.9	41.7	44.2	42.7	42.2
VS97-320	42.2	40.6	43.8	42.2	43.0	44.7	42.8
VS97-349	42.3	40.0	43.4	41.5	41.7	44.5	42.2

TABLE 48 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1999

STRAIN/ VARIETY	ATHENS	BIXBY	CLEMSON	PETERSBURG	PLYMOUTH	STONEVILLE	TALLASSEE	MEAN
	GA	OK	SC	VA	NC	MS	AL	
DILLON	15.3	17.7	16.5	13	13.7	13.4	13.6	14.7
BOGGS	13.5	15.9	14.5	12	10.3	12.5	15.1	13.4
N96-6783	15.5	16.4	16.8	12	12.1	13.0	15.0	14.4
N97-9791	15.6	18.4	16.1	12	15.0	13.8	14.4	15.0
N97-9812	13.2	17.4	15.8	11	13.1	12.3	14.4	13.9
Au96-1118	12.8	17.1	15.7	14	15.0	13.6	14.2	14.6
Au96-1160	14.9	17.8	16.4	15	15.0	13.9	14.9	15.4
Au96-1353	14.3	16.3	17.2	13	14.1	13.7	14.5	14.7
Au96-2022	14.4	16.9	15.9	15	14.4	13.6	16.6	15.3
Au96-532	14.8	18.1	17.7	14	14.4	14.4	15.0	15.5
G95-179	14.2	13.6	13.8	13	13.1	11.0	14.5	13.3
G95-2723	13.5	13.8	14.9	12	10.9	11.1	15.5	13.1
G95-2861	14.0	16.5	15.9	15	13.4	12.9	15.6	14.8
G95-432	13.4	12.4	13.9	14	12.3	10.9	14.5	13.1
G95-608	14.0	13.8	15.8	13	11.7	11.9	17.0	13.9
N93-1264	11.7	14.6	11.7	10	9.0	11.2	11.9	11.4
N96-371	13.6	14.7	15.4	13	14.4	13.0	11.4	13.6
N96-7161	14.3	15.5	13.2	11	12.6	12.3	14.3	13.3
N97-145	13.8	19.2	15.5	14	13.6	13.6	14.9	14.9
N97-3525	14.7	15.0	16.5	14	14.4	13.5	16.1	14.9
N97-355	16.3	17.6	17.2	14	13.9	14.1	16.9	15.7
N97-61	12.6	15.9	13.2	12	11.8	11.7	13.7	13.0
N97-9839	12.3	14.3	15.0	12	13.8	12.5	13.0	13.3
R96-1559	12.1	19.7	15.1	12	12.0	11.9	13.0	13.7
R96-1939	13.0	16.4	14.3	11	11.0	13.1	14.2	13.3
R96-3538	15.1	19.3	17.5	15	15.8	16.0	16.2	16.4
SC96-1239	15.9	16.2	17.8	15	16.3	14.0	15.5	15.8
SC96-1535	12.2	15.6	13.7	13	14.6	11.2	13.6	13.4
SC96-1624	14.1	16.3	16.0	12	15.0	11.6	16.4	14.5
SC96-598	16.9	16.9	19.6	16	16.2	14.0	16.8	16.6
TN91-220-53	17.0	17.7	15.5	14	12.8	14.4	16.1	15.4
TN93-154-7	14.1	16.7	14.3	12	12.4	13.2	15.5	14.0
TN93-163-3	13.6	16.2	14.0	11	11.8	13.0	15.4	13.6
TN97-262	13.8	17.5	16.5	13	13.8	12.7	15.9	14.7
VS97-312	14.4	14.7	15.2	14	14.9	12.3	15.4	14.4
VS97-318	13.0	15.1	15.2	14	14.6	12.4	15.6	14.3
VS97-320	11.4	16.2	13.3	11	11.0	12.5	13.4	12.7
VS97-349	11.6	14.8	13.5	10	11.1	11.1	12.3	12.1

**TABLE 49 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI,
1999**

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	CLEMSON SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
DILLON	37	23	41	29	41	32	43	35
BOGGS	35	26	34	30	37	34	40	34
N96-6783	30	24	34	27	31	26	36	30
N97-9791	31	23	32	26	34	28	31	29
N97-9812	32	24	37	29	33	30	38	32
Au96-1118	31	24	33	30	36	34	34	32
Au96-1160	33	25	39	31	40	34	43	35
Au96-1353	32	26	39	32	36	34	40	34
Au96-2022	36	27	36	34	41	30	43	35
Au96-532	37	31	41	36	41	38	49	39
G95-179	38	30	39	33	42	40	41	37
G95-2723	38	28	41	35	40	38	45	38
G95-2861	38	25	36	32	39	38	40	35
G95-432	39	27	35	35	37	40	47	37
G95-608	34	28	38	34	37	26	43	34
N93-1264	35	30	40	37	38	34	43	37
N96-371	46	35	48	42	51	42	53	45
N96-7161	31	27	33	29	37	26	40	32
N97-145	35	33	39	32	45	38	40	37
N97-3525	37	32	39	38	44	42	45	40
N97-355	35	29	43	34	39	34	46	37
N97-61	32	25	31	29	35	32	32	31
N97-9839	32	27	36	28	34	32	36	32
R96-1559	34	27	36	32	35	30	42	34
R96-1939	37	25	36	29	37	36	43	35
R96-3538	36	27	36	29	35	32	43	34
SC96-1239	41	35	42	37	43	44	48	41
SC96-1535	39	33	39	36	37	38	45	38
SC96-1624	37	31	37	37	38	34	43	37
SC96-598	37	28	40	38	39	38	42	37
TN91-220-53	34	23	42	27	39	28	43	34
TN93-154-7	36	23	34	28	36	26	41	32
TN93-163-3	35	23	36	32	38	32	39	33
TN97-262	32	25	33	28	34	22	39	30
VS97-312	40	33	43	40	46	42	49	42
VS97-318	39	33	43	42	47	48	48	43
VS97-320	36	30	41	35	42	36	42	37
VS97-349	31	21	29	23	30	26	40	29

TABLE 50 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1999

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	CLEMSON SC	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
DILLON	2	.	2	1	3	2	3	2
BOGGS	4	.	5	3	3	2	5	4
N96-6783	4	.	3	1	3	2	3	3
N97-9791	4	.	3	1	4	4	4	3
N97-9812	4	.	4	2	3	2	4	3
Au96-1118	3	.	3	3	4	2	3	3
Au96-1160	4	.	3	2	4	3	3	3
Au96-1353	4	1	4	3	4	4	4	3
Au96-2022	4	.	3	2	4	2	4	3
Au96-532	3	.	2	1	3	2	3	2
G95-179	3	.	3	4	3	2	2	3
G95-2723	4	.	4	3	4	3	2	3
G95-2861	3	.	3	2	3	3	3	3
G95-432	2	.	2	4	4	2	2	3
G95-608	3	.	3	4	3	2	3	3
N93-1264	3	.	4	1	3	2	3	3
N96-371	4	2	4	2	4	4	5	3
N96-7161	3	1	2	1	3	2	2	2
N97-145	3	1	2	2	4	2	3	2
N97-3525	3	1	2	3	3	3	4	3
N97-355	3	.	3	1	3	2	3	2
N97-61	3	.	3	1	3	2	2	2
N97-9839	4	1	4	2	3	5	4	3
R96-1559	2	.	1	1	3	2	3	2
R96-1939	3	.	1	2	4	2	3	2
R96-3538	3	.	1	2	4	2	2	2
SC96-1239	2	.	2	2	4	2	2	2
SC96-1535	2	.	3	4	4	2	5	3
SC96-1624	3	.	3	3	4	2	3	3
SC96-598	4	.	4	4	3	3	3	4
TN91-220-53	2	.	2	2	4	2	3	2
TN93-154-7	2	.	1	1	3	2	2	2
TN93-163-3	2	.	1	1	3	2	2	2
TN97-262	3	.	1	2	4	2	4	3
VS97-312	3	.	3	4	4	2	4	3
VS97-318	3	.	3	3	3	2	3	3
VS97-320	3	.	3	1	3	2	3	2
VS97-349	4	.	1	2	5	2	2	3

TABLE 51 - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1999

STRAIN/ VARIETY	ATHENS	PETERSBURG	PLYMOUTH	STONEVILLE	TALLASSEE	MEAN
	GA	VA	NC	MS	AL	
DILLON	2	2	2	2	1	2
BOGGS	2	2	2	2	1	2
N96-6783	3	2	2	2	1	2
N97-9791	2	2	2	2	1	2
N97-9812	2	2	2	2	1	2
Au96-1118	2	2	2	2	1	2
Au96-1160	2	3	2	2	2	2
Au96-1353	2	2	2	2	1	2
Au96-2022	2	1	2	2	2	2
Au96-532	2	2	2	2	1	2
G95-179	2	1	2	2	1	2
G95-2723	2	1	2	2	2	2
G95-2861	2	2	2	2	1	2
G95-432	2	1	2	2	1	2
G95-608	2	1	2	2	1	2
N93-1264	2	1	2	2	1	2
N96-371	2	2	2	2	1	2
N96-7161	3	3	2	2	1	2
N97-145	2	2	2	2	1	2
N97-3525	2	1	2	2	1	2
N97-355	2	2	2	2	1	2
N97-61	2	2	2	2	1	2
N97-9839	2	2	2	2	1	2
R96-1559	2	2	2	2	1	2
R96-1939	2	2	2	2	2	2
R96-3538	2	2	2	2	1	2
SC96-1239	2	2	2	2	1	2
SC96-1535	2	1	2	2	1	2
SC96-1624	2	1	2	2	1	2
SC96-598	2	1	2	2	1	2
TN91-220-53	3	1	2	2	1	2
TN93-154-7	2	2	2	2	2	2
TN93-163-3	2	1	2	2	2	2
TN97-262	2	1	2	2	1	2
VS97-312	2	1	2	2	1	2
VS97-318	2	2	2	2	1	2
VS97-320	2	2	2	2	1	2
VS97-349	2	1	2	2	1	2

UNIFORM GROUP VII

1999

Uniform Group VII nurseries were planted at 16 locations. Data were obtained from 15 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,
1999**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	HUTCHESON X COKER 6738	
2. HASKELL	JOHNSTON X BRAXTON	
3. N96-6767	N90-7202 X N90-7199	F4
4. N96-6809	N90-7202 X N90-7199	F4
5. N96-7083	N90-7199 X N90-7241	F4
6. Au94-517	Dillon X N85-492	F6
7. DMK93-9048	D86-3429 X Braxton	
8. G91-151	COKER 82-622 X BRYAN	F5
9. G92-2381	COKER 82-622 X G83-12	F6
10. G93-1749	G85-373 X COKER 6727	F5
11. G94-1917	G86-1434 X G85-373	F5
12. G94-4532	G83-559 X DOLES	F7
13. N95-614	N85-492 X N88-480	F6
14. N96-752	N87-298 X COOK	F6
15. N96-982	N85-492 X PROLINA	F6
16. SC93-2082	COKER 6738/G83-198	F5
17. SC94-1573	NK' S S83-30/BRYAN	F5
18. SC95-1149	NK' S S83-30/MANOKIN	F5
19. SC95-988	HAGOOD/G83-198	F5

**TABLE 53 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM GROUP VII, 1999**

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1999	98-99	97-99	1999	98-99	97-99	1999	98-99	97-99
BENNING	42.1	41.4	41.3	41.5	42.2	42.0	20.1	20.1	20.2
HASKELL	40.5	40.0	39.9	40.8	41.7	41.4	19.7	19.8	20.0
N96-6767	39.7	.	.	41.5	.	.	19.6	.	.
N96-6809	40.3	.	.	40.8	.	.	20.0	.	.
N96-7083	38.0	.	.	41.7	.	.	19.6	.	.
Au94-517	42.7	.	.	41.0	.	.	20.3	.	.
DMK93-9048	34.3	.	.	45.2	.	.	18.1	.	.
G91-151	41.1	41.3	41.7	41.9	42.4	42.0	19.6	19.9	20.1
G92-2381	41.4	41.9	.	42.1	42.9	.	18.6	18.8	.
G93-1749	42.4	42.2	.	42.7	43.2	.	19.3	19.2	.
G94-1917	41.9	.	.	42.1	.	.	19.3	.	.
G94-4532	40.5	.	.	43.3	.	.	19.3	.	.
N95-614	43.8	42.4	.	39.4	40.1	.	21.8	22.1	.
N96-752	42.2	.	.	41.8	.	.	19.7	.	.
N96-982	40.5	.	.	42.5	.	.	20.8	.	.
SC93-2082	41.0	41.8	41.5	41.4	42.1	42.0	19.7	19.8	19.9
SC94-1573	42.8	42.3	.	40.2	41.1	.	20.2	20.2	.
SC95-1149	39.7	.	.	40.7	.	.	20.0	.	.
SC95-988	42.9	.	.	42.4	.	.	20.1	.	.

†Data not included in Mean: (1998) - Jay, FL; Jackson Springs, NC
(1997) - Tifton, GA

TABLE 53 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
BENNING	P	10/27	2	36	2	13.0	T	T
HASKELL	P	3+	2	35	2	14.7	T	T
N96-6767	P	2+	2	30	2	11.8	G	BR
N96-6809	P	0	2	32	2	11.5	G	BR
N96-7083	P	2+	2	32	2	11.4	G	T
Au94-517	P	1-	2	36	2	12.9	T	T
DMK93-9048	W	3+	2	32	2	14.4	G	T
G91-151	W	1-	2	33	2	12.0	T	T
G92-2381	W	3-	1	33	2	10.5	G	T
G93-1749	S	1+	2	36	2	12.3	T	T
G94-1917	W	1-	2	34	2	12.2	T	T
G94-4532	W	1-	2	35	2	10.7	T	T
N95-614	W	3+	2	33	2	12.3	T	T
N96-752	P	1+	2	36	2	12.2	G	T
N96-982	P	5-	2	35	2	13.2	G	BR
SC93-2082	W	3+	2	36	2	11.2	T	T
SC94-1573	P	1+	2	37	2	12.3	G	T
SC95-1149	W	0	2	34	2	12.6	G	T
SC95-988	W	1-	2	35	2	10.9	G	T

TABLE 53 - Continued

PEST REACTIONS

STRAIN/ VARIETY	STEM CANKER	SCN	SCN	SCN	M. I.	M. A.	SMV
		2	3	14	GA	GA	
BENNING	R	.	1.0	4.7	1.0	3.3	R
HASKELL	R	.	5.0	4.9	1.0	2.0	S
N96-6767	S	.	5.0	4.7	5.0	4.8	R
N96-6809	S	.	5.0	4.9	5.0	4.8	R
N96-7083	R	.	5.0	5.0	2.8	4.3	R
Au94-517	S	.	5.0	4.9	2.3	4.3	R
DMK93-9048	R	.	5.0	4.8	4.0	3.5	S
G91-151	R	.	1.0	4.5	1.0	4.3	M
G92-2381	R	.	1.6	4.0	1.0	2.5	R
G93-1749	R	.	1.0	4.1	1.5	2.8	S
G94-1917	S	.	1.3	4.5	1.0	2.3	S
G94-4532	S	.	1.2	2.6	1.3	2.8	S
N95-614	R	.	4.9	4.7	4.3	4.5	R
N96-752	S	.	5.0	4.8	5.0	3.8	R
N96-982	S	.	5.0	4.9	5.0	4.3	R
SC93-2082	R	.	1.1	4.4	1.5	4.3	R
SC94-1573	R	.	1.0	3.7	1.5	4.8	R
SC95-1149	R	.	1.0	3.9	1.5	4.5	R
SC95-988	S	.	1.3	4.2	4.0	4.3	R

See Methods section for description of ratings scale.

TABLE 54 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1999

EAST

STRAIN/ VARIETY	CLINTON	JACKSON SPRINGS	MEAN
	NC	NC	
BENNING	47.1	39.3	43.2
HASKELL	55.5	44.3	49.9
N96-6767	44.0	42.7	43.3
N96-6809	42.7	43.3	43.0
N96-7083	41.9	44.0	42.9
Au94-517	51.3	41.7	46.5
DMK93-9048	35.7	35.1	35.4
G91-151	43.3	38.9	41.1
G92-2381	50.9	40.7	45.8
G93-1749	42.1	38.0	40.0
G94-1917	47.5	44.4	45.9
G94-4532	42.4	37.7	40.0
N95-614	52.1	43.5	47.8
N96-752	53.2	39.1	46.2
N96-982	55.1	41.3	48.2
SC93-2082	44.1	36.4	40.2
SC94-1573	46.5	40.9	43.7
SC95-1149	49.1	37.1	43.1
SC95-988	54.1	45.3	49.7
L. S. D. (0.05)	8.5	6.4	.
C. V. (%)	10.9	9.5	.

TABLE 54 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	61.1	29.6	27.7	16.1	47.0	57.8	34.6	46.2	36.0	53.6	54.6	42.2
HASKELL	61.4	25.2	28.1	15.7	48.3	57.1	38.4	39.0	42.4	38.5	.	39.4
N96-6767	59.3	26.5	28.6	19.3	41.3	62.3	38.4	36.5	43.1	42.1	37.2	39.5
N96-6809	63.7	20.1	23.3	17.8	48.7	58.5	33.8	33.5	42.8	46.2	48.8	39.7
N96-7083	57.6	25.5	28.4	18.3	52.2	51.2	31.9	31.9	34.6	38.7	35.6	36.9
Au94-517	57.0	17.2	30.7	14.9	48.3	62.2	41.5	37.3	46.2	50.6	60.1	42.4
DMK93-9048	56.2	20.1	17.7	14.1	42.2	52.1	31.1	45.5	33.4	34.1	38.3	35.0
G91-151	60.5	21.6	22.9	17.5	50.0	54.1	36.1	39.5	41.5	57.4	47.8	40.8
G92-2381	63.7	25.2	27.9	14.0	48.4	55.3	31.5	35.8	39.4	55.2	49.7	40.6
G93-1749	62.8	24.6	30.9	18.4	50.1	55.5	38.4	40.2	40.6	57.0	52.6	42.8
G94-1917	65.0	24.1	27.4	16.5	49.9	57.9	35.7	39.1	37.5	50.1	55.1	41.7
G94-4532	54.1	23.9	25.8	22.9	52.7	53.8	28.8	37.6	41.3	53.6	52.4	40.6
N95-614	59.5	24.6	29.9	18.5	48.9	62.7	44.6	45.4	42.9	51.3	50.1	43.5
N96-752	60.8	31.6	32.6	13.4	48.9	63.8	41.1	37.0	42.7	44.4	45.0	41.9
N96-982	53.1	19.2	26.5	13.6	49.6	60.8	39.5	42.0	37.8	46.7	49.0	39.8
SC93-2082	63.2	25.9	29.7	19.1	52.5	58.1	36.9	40.1	34.6	59.1	44.5	42.2
SC94-1573	64.6	28.4	30.6	14.5	53.1	55.6	38.4	39.5	41.6	56.2	50.3	43.0
SC95-1149	57.0	24.0	23.2	15.0	49.6	49.1	32.3	33.4	37.0	56.4	52.2	39.0
SC95-988	63.6	20.9	32.1	13.1	58.2	61.4	34.6	42.1	42.1	52.2	45.9	42.4
L. S. D. (0.05)	7.2	4.5	6.9	4.3	5.0	4.7	6.9	7.9	5.1	8.6	8.1	.
C. V. (%)	7.3	11.2	15.1	15.9	6.1	5.0	11.5	12.2	7.7	10.4	10.1	.

TABLE 54 - Continued

WEST	
STRAIN/ VARIETY	BOSSIER CITY LA
BENNING	38.3
HASKELL	32.6
N96-6767	34.5
N96-6809	40.6
N96-7083	39.7
Au94-517	38.8
DMK93-9048	24.3
G91-151	44.2
G92-2381	42.6
G93-1749	41.9
G94-1917	36.3
G94-4532	40.3
N95-614	38.6
N96-752	37.0
N96-982	33.4
SC93-2082	29.9
SC94-1573	39.7
SC95-1149	40.8
SC95-988	34.6
L. S. D. (0.05)	8.7
C. V. (%)	14.1

TABLE 55 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1999

OIL PERCENTAGES

STRAIN/ VARIETY	ATHENS	BLACKVILLE	BLACKVILLE	CALHOUN	CLEMSON	CLINTON	FAIRHOPE	JACKSON		MIDVILLE	PLAINS	TALLASSEE	TIFTON	MEAN
	GA	SC	SC(L)	GA	SC	NC	AL	NC	FL	GA	GA	AL	GA	
BENNING	20.2	.	20.7	.	20.6	19.4	20.5	19.7	19.5	20.4	19.5	20.5	.	20.1
HASKELL	19.9	.	20.0	.	20.5	18.8	20.0	19.3	19.7	19.8	19.0	20.3	.	19.7
N96-6767	19.6	.	20.3	.	19.9	18.4	20.2	18.8	19.6	19.3	19.1	20.4	.	19.6
N96-6809	19.8	.	20.3	.	20.6	19.1	20.5	20.2	19.9	19.7	19.3	20.7	.	20.0
N96-7083	19.1	.	20.7	.	20.5	18.7	19.8	19.5	19.4	19.0	18.3	20.5	.	19.6
Au94-517	20.5	.	20.2	.	20.4	19.2	21.1	19.8	20.4	19.6	20.6	20.9	.	20.3
DMK93-9048	17.9	.	18.9	.	18.6	16.2	18.7	18.3	18.4	18.1	17.3	18.9	.	18.1
G91-151	19.7	.	19.9	.	18.8	18.6	20.6	19.0	20.0	19.8	19.4	20.2	.	19.6
G92-2381	18.5	.	19.8	.	19.9	17.6	18.8	17.7	18.7	17.8	17.3	19.7	.	18.6
G93-1749	19.3	.	20.3	.	19.5	18.3	19.3	18.8	19.4	18.7	19.2	19.7	.	19.3
G94-1917	19.1	.	19.6	.	19.4	18.3	20.4	18.3	20.5	19.3	18.6	19.3	.	19.3
G94-4532	19.4	.	20.9	.	18.9	18.2	20.0	18.8	19.3	19.5	18.6	19.5	.	19.3
N95-614	22.1	.	21.1	.	21.5	20.8	21.6	21.6	22.3	22.3	21.7	22.7	.	21.8
N96-752	20.0	.	20.2	.	20.0	19.4	20.5	19.2	19.6	18.8	19.2	20.0	.	19.7
N96-982	20.6	.	20.8	.	20.6	19.6	21.1	20.2	20.6	20.8	21.0	22.3	.	20.8
SC93-2082	19.3	.	19.9	.	20.5	18.6	19.8	19.7	20.2	20.0	18.0	20.5	.	19.7
SC94-1573	20.4	.	20.9	.	19.9	19.8	20.1	19.9	20.8	20.0	19.7	20.4	.	20.2
SC95-1149	19.4	.	20.5	.	20.4	18.3	21.5	18.9	21.1	19.9	19.1	20.6	.	20.0
SC95-988	20.3	.	20.4	.	21.1	19.5	20.8	20.0	18.3	19.8	20.1	20.7	.	20.1

TABLE 55 - Continued

PROTEIN PERCENTAGES

STRAIN/ VARIETY	JACKSON													MEAN
	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	CLINTON NC	FAIRHOPE AL	SPRINGS NC	JAY FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	
BENNING	40.8	.	41.2	.	39.5	41.2	41.9	41.5	43.6	39.7	43.0	43.0	.	41.5
HASKELL	39.4	.	41.0	.	37.2	41.1	42.5	39.8	41.8	39.8	43.1	42.4	.	40.8
N96-6767	41.1	.	41.5	.	39.0	42.8	41.9	41.3	41.6	40.6	42.9	41.8	.	41.5
N96-6809	40.7	.	41.0	.	38.0	41.4	40.7	39.3	42.3	40.3	42.6	41.3	.	40.8
N96-7083	42.4	.	40.8	.	39.3	42.8	42.5	42.0	41.0	40.7	44.3	41.2	.	41.7
Au94-517	40.6	.	41.6	.	39.2	41.3	41.0	39.9	41.2	41.7	41.2	42.0	.	41.0
DMK93-9048	45.5	.	43.4	.	42.6	47.3	45.7	44.0	44.6	45.4	47.9	45.8	.	45.2
G91-151	41.3	.	42.9	.	40.3	43.5	41.8	41.0	40.9	41.8	43.0	42.4	.	41.9
G92-2381	41.9	.	41.8	.	38.5	42.2	42.7	42.9	41.9	43.4	43.3	42.7	.	42.1
G93-1749	41.9	.	41.7	.	40.3	43.5	44.0	41.2	42.8	43.7	43.0	44.4	.	42.7
G94-1917	41.5	.	41.2	.	39.6	42.8	41.6	42.0	41.4	42.5	43.9	44.2	.	42.1
G94-4532	42.9	.	41.8	.	41.0	44.2	43.4	43.3	44.2	42.1	44.6	45.9	.	43.3
N95-614	37.9	.	40.5	.	38.2	40.6	40.6	39.2	39.2	38.0	40.1	40.1	.	39.4
N96-752	40.3	.	42.2	.	40.0	40.9	42.3	40.9	42.0	42.4	43.2	44.1	.	41.8
N96-982	42.0	.	42.9	.	41.0	43.4	42.9	41.7	42.5	42.8	42.8	43.1	.	42.5
SC93-2082	40.6	.	40.3	.	38.2	42.8	42.0	40.8	40.9	41.4	45.1	42.2	.	41.4
SC94-1573	38.3	.	39.5	.	38.6	41.5	41.0	39.9	40.0	40.2	41.1	42.3	.	40.2
SC95-1149	40.2	.	39.3	.	38.9	42.4	39.2	41.1	40.1	40.7	42.6	42.6	.	40.7
SC95-988	41.3	.	42.3	.	40.9	42.5	42.6	41.4	44.5	42.1	43.0	43.0	.	42.4

TABLE 55 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	JACKSON													MEAN
	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	CLINTON NC	FAIRHOPE AL	SPRINGS NC	JAY FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	
BENNING	15.4	18.3	.	17	16.3	14.4	14.5	17.3	13.4	14.4	12.5	16.1	18	15.6
HASKELL	17.2	18.3	.	17	17.4	16.3	17.1	15.2	13.6	15.0	13.9	16.2	.	16.1
N96-6767	14.2	15.6	.	15	16.4	14.0	16.0	14.2	11.8	12.1	11.3	12.4	16	14.1
N96-6809	15.0	16.8	.	14	13.5	13.9	13.3	13.4	11.6	11.7	11.8	13.8	17	13.8
N96-7083	14.1	16.2	.	15	14.9	13.6	13.0	14.5	12.4	11.4	11.2	13.1	13	13.5
Au94-517	16.3	17.4	.	16	16.8	15.1	14.6	15.8	13.4	13.9	13.1	15.1	15	15.2
DMK93-9048	16.8	18.5	.	17	15.4	18.5	16.7	18.4	16.2	17.3	14.6	17.3	16	16.9
G91-151	14.3	17.2	.	15	14.6	13.4	12.8	14.0	14.2	13.7	11.5	15.5	16	14.4
G92-2381	12.4	16.4	.	15	12.8	11.9	11.7	12.8	10.8	11.4	9.7	12.6	16	12.8
G93-1749	13.3	17.2	.	17	12.6	14.1	16.1	14.0	12.0	15.2	13.1	16.9	18	15.0
G94-1917	14.7	15.1	.	16	14.6	13.5	15.0	14.4	13.2	14.0	13.3	15.9	15	14.6
G94-4532	12.3	16.0	.	14	13.7	11.7	12.1	12.8	10.8	10.9	10.6	13.8	17	13.0
N95-614	14.5	17.7	.	16	14.6	14.6	14.8	15.3	13.6	12.3	11.6	15.0	17	14.8
N96-752	15.1	19.2	.	14	15.1	13.9	14.5	14.8	12.6	12.3	11.9	14.6	14	14.3
N96-982	15.6	18.0	.	15	17.6	15.6	17.0	15.6	13.0	14.1	14.4	14.6	16	15.5
SC93-2082	12.6	13.9	.	14	13.9	13.9	13.8	14.2	11.6	13.4	10.6	13.4	18	13.6
SC94-1573	14.8	16.8	.	15	15.9	13.9	14.1	15.9	13.2	13.1	11.8	15.5	13	14.4
SC95-1149	13.8	17.1	.	14	16.1	14.8	14.6	13.6	13.6	14.8	12.9	17.1	17	14.9
SC95-988	13.5	17.4	.	15	14.5	12.7	12.0	12.6	9.2	12.0	11.4	11.9	16	13.2

TABLE 56 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BENNING FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1999

EAST

STRAIN/ VARIETY	CLINTON	JACKSON SPRINGS	MEAN
	NC	NC	
BENNING	11/04	10/30	11/02
HASKELL	-2	4	1
N96-6767	0	3	1
N96-6809	-2	4	1
N96-7083	4	4	4
Au94-517	-5	-1	-3
DMK93-9048	7	6	6
G91-151	0	0	0
G92-2381	-7	-2	-5
G93-1749	-2	4	1
G94-1917	-5	3	-1
G94-4532	-4	4	0
N95-614	4	4	4
N96-752	-5	4	-1
N96-982	-5	-2	-4
SC93-2082	4	4	4
SC94-1573	-2	3	0
SC95-1149	-2	-1	-2
SC95-988	-7	1	-3

TABLE 56 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	10/26	11/08	11/04	11/12	11/04	10/15	10/18	.	.	10/18	10/11	10/26
HASKELL	-1	-2	2	0	0	5	11	.	.	5	.	5
N96-6767	2	-1	1	0	1	3	10	.	.	0	3	3
N96-6809	-4	-5	-1	-3	-3	2	11	.	.	0	0	0
N96-7083	0	0	1	-1	1	4	10	.	.	2	4	3
Au94-517	-1	-2	2	-3	0	-3	8	.	.	-1	-7	0
DMK93-9048	3	-1	2	1	-3	6	10	.	.	5	6	4
G91-151	-4	-4	-3	0	-7	0	8	.	.	2	-2	0
G92-2381	-4	-2	0	0	-4	-2	-2	.	.	3	-4	-1
G93-1749	-1	-1	0	0	-3	4	8	.	.	5	-1	2
G94-1917	-3	-2	-3	-1	-5	1	11	.	.	3	0	1
G94-4532	-3	0	0	0	-3	0	-2	.	.	2	-3	0
N95-614	2	0	-1	0	-3	5	8	.	.	5	3	3
N96-752	-1	0	1	-1	-2	2	4	.	.	5	5	2
N96-982	-11	-12	-3	-4	-1	-4	-1	.	.	-2	-8	-4
SC93-2082	5	0	6	0	4	5	10	.	.	5	5	5
SC94-1573	0	-3	2	0	-2	3	8	.	.	4	1	2
SC95-1149	-4	-1	-2	-1	-5	5	12	.	.	3	-3	1
SC95-988	-5	-8	3	0	2	-4	5	.	.	-3	1	0

TABLE 56 - Continued

WEST	
STRAIN/ VARIETY	BOSSIER CITY LA
BENNING	10/17
HASKELL	0
N96-6767	0
N96-6809	-1
N96-7083	-5
Au94-517	-2
DMK93-9048	-4
G91-151	-4
G92-2381	-6
G93-1749	2
G94-1917	-5
G94-4532	1
N95-614	7
N96-752	-1
N96-982	0
SC93-2082	-5
SC94-1573	-3
SC95-1149	-4
SC95-988	0

TABLE 57 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1999

STRAIN/ VARIETY	EAST		MEAN
	CLINTON NC	JACKSON SPRINGS NC	
BENNING	35	29	32
HASKELL	33	27	30
N96-6767	27	25	26
N96-6809	29	26	28
N96-7083	30	27	28
Au94-517	31	26	29
DMK93-9048	32	29	30
G91-151	31	28	30
G92-2381	35	27	31
G93-1749	33	30	32
G94-1917	33	30	32
G94-4532	30	29	29
N95-614	31	25	28
N96-752	33	31	32
N96-982	36	28	32
SC93-2082	34	28	31
SC94-1573	35	31	33
SC95-1149	30	28	29
SC95-988	34	26	30

TABLE 57 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	39	26	42	41	32	28	34	41	47	41	37
HASKELL	38	26	43	38	33	28	33	37	43	.	35
N96-6767	32	24	37	33	28	23	28	27	36	31	30
N96-6809	34	20	41	34	27	22	26	32	36	37	31
N96-7083	34	25	41	35	27	22	25	35	36	35	32
Au94-517	38	23	45	35	32	29	35	39	45	37	36
DMK93-9048	33	22	37	30	29	23	26	34	39	34	31
G91-151	36	24	43	36	28	27	32	39	43	39	35
G92-2381	36	23	41	32	31	27	29	37	40	37	33
G93-1749	39	24	44	36	32	28	32	36	45	34	35
G94-1917	36	24	40	38	29	27	34	37	40	35	34
G94-4532	38	25	43	40	29	26	37	33	47	37	35
N95-614	35	24	43	38	32	28	29	31	42	40	34
N96-752	38	26	45	41	34	30	37	33	46	33	36
N96-982	40	23	41	37	33	28	35	39	45	38	36
SC93-2082	39	27	47	36	35	24	34	40	46	42	37
SC94-1573	41	25	49	40	33	30	31	36	49	41	37
SC95-1149	35	26	41	34	29	27	34	38	43	39	35
SC95-988	37	25	43	37	33	28	35	38	43	36	36

TABLE 57 - Continued

WEST	
STRAIN/ VARIETY	BOSSIER CITY LA
BENNING	40
HASKELL	45
N96-6767	34
N96-6809	47
N96-7083	43
Au94-517	47
DMK93-9048	43
G91-151	26
G92-2381	38
G93-1749	48
G94-1917	36
G94-4532	39
N95-614	35
N96-752	41
N96-982	36
SC93-2082	35
SC94-1573	35
SC95-1149	40
SC95-988	43

**TABLE 58 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VII,
1999**

EAST

STRAIN/ VARIETY	CLINTON	JACKSON SPRINGS	MEAN
	NC	NC	
BENNING	4	1	2
HASKELL	4	2	3
N96-6767	4	2	3
N96-6809	3	2	3
N96-7083	3	1	2
Au94-517	4	2	3
DMK93-9048	4	2	3
G91-151	3	1	2
G92-2381	3	1	2
G93-1749	3	2	3
G94-1917	3	1	2
G94-4532	3	1	2
N95-614	3	2	3
N96-752	4	1	3
N96-982	3	2	2
SC93-2082	3	1	2
SC94-1573	3	1	2
SC95-1149	3	2	3
SC95-988	3	1	2

TABLE 58 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	3	1	1	1	3	1	1	1	2	3	1	2
HASKELL	3	1	1	2	4	2	1	2	2	2	.	2
N96-6767	3	1	1	3	4	1	1	2	4	4	2	2
N96-6809	3	1	1	1	3	1	1	2	4	2	2	2
N96-7083	2	1	1	2	2	1	1	1	3	2	1	2
Au94-517	3	1	1	2	3	1	1	2	3	3	2	2
DMK93-9048	4	1	1	2	3	1	1	2	4	3	1	2
G91-151	2	1	1	1	2	1	1	1	2	1	2	1
G92-2381	2	1	1	1	1	1	1	1	2	2	1	1
G93-1749	3	1	1	1	3	2	1	2	2	3	2	2
G94-1917	2	1	1	2	2	1	1	1	2	1	2	1
G94-4532	3	1	1	2	3	2	1	2	3	2	1	2
N95-614	3	1	1	2	3	2	1	1	3	2	1	2
N96-752	2	1	1	2	3	1	1	1	3	2	1	2
N96-982	3	1	1	1	3	2	1	2	3	3	2	2
SC93-2082	2	1	1	1	2	1	1	1	2	2	1	1
SC94-1573	2	1	1	1	2	1	1	1	2	2	2	2
SC95-1149	3	1	1	1	2	1	1	1	2	2	2	2
SC95-988	2	1	1	2	2	1	1	2	2	2	2	2

TABLE 58 - Continued

WEST	
STRAIN/ VARIETY	BOSSIER CITY LA
BENNING	2
HASKELL	2
N96-6767	2
N96-6809	2
N96-7083	2
Au94-517	2
DMK93-9048	3
G91-151	4
G92-2381	2
G93-1749	2
G94-1917	1
G94-4532	2
N95-614	2
N96-752	2
N96-982	2
SC93-2082	3
SC94-1573	4
SC95-1149	2
SC95-988	3

TABLE 59 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1999**EAST**

STRAIN/ VARIETY	CLINTON	JACKSON SPRINGS	MEAN
	NC	NC	
BENNING	2	2	2
HASKELL	2	2	2
N96-6767	2	2	2
N96-6809	2	2	2
N96-7083	2	2	2
Au94-517	2	2	2
DMK93-9048	2	2	2
G91-151	2	2	2
G92-2381	2	2	2
G93-1749	3	2	3
G94-1917	2	2	2
G94-4532	2	2	2
N95-614	2	2	2
N96-752	2	2	2
N96-982	3	2	3
SC93-2082	2	2	2
SC94-1573	2	2	2
SC95-1149	2	2	2
SC95-988	2	2	2

TABLE 59 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	CALHOUN GA	FAIRHOPE AL	JAY FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	2	3	1	2	2	2	1	2	2
HASKELL	2	3	1	2	2	2	2	.	2
N96-6767	2	2	1	3	3	2	2	2	2
N96-6809	2	2	1	2	3	2	2	2	2
N96-7083	2	3	1	2	2	2	2	2	2
Au94-517	2	3	1	2	3	2	2	1	2
DMK93-9048	2	3	1	3	3	2	2	1	2
G91-151	2	2	1	2	2	2	1	2	2
G92-2381	2	3	1	2	2	2	1	1	2
G93-1749	2	3	1	3	2	2	2	1	2
G94-1917	2	4	1	2	2	2	1	1	2
G94-4532	2	3	1	3	2	2	2	1	2
N95-614	2	3	1	2	2	2	1	1	2
N96-752	2	3	1	2	3	2	2	2	2
N96-982	3	3	1	2	3	2	2	1	2
SC93-2082	2	3	1	2	2	2	1	1	2
SC94-1573	2	3	1	2	2	2	1	1	2
SC95-1149	2	3	1	2	2	2	2	2	2
SC95-988	2	3	1	2	2	2	1	2	2

PRELIMINARY GROUP VII

1999

Preliminary Group VII nurseries were planted at 6 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, 1999

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	HUTCHESON X COKER 6738	
2. HASKELL	JOHNSTON X BRAXTON	
3. N96-7018	N90-7199 X N90-7241	F5
4. N96-7164	HOLLADAY X N91-8006	F5
5. N97-10227	N91-7202 X N91-8005	F5
6. N97-6363	N92-7005 X COOK	F5
7. N97-6425	N92-7005 X N91-8005	F5
8. N97-6450	N92-7005 X N91-8005	F5
9. N97-9756	N90-7199 X N91-7254	F5
10. Au96-1239	Carver X N90-516	
11. Au96-161	N90-1085 X R90-844	F6
12. Au96-1693	N90-1085 X D87-4429	F6
13. Au96-192	N90-1085 X R90-844	F6
14. Au96-1958	N90-1085 X D87-4429	F6
15. Au96-205	N90-1085 X R90-844	F6
16. G95-1648	Dol es X N88-192	F6
17. G95-2484	G86-1434 X HY798	F5
18. G95-2853	G87-1968 X G86-1267	F5
19. G95-2935	G87-1968 X G86-1267	F5
20. G95-373	G86-1434 X G87-1968	F5
21. G95-470	G86-1434 X G87-1968	F5
22. N96-855	BRIM X SHARKEY	F4
23. N97-345	N90-541 X N90-1101	F6
24. N97-467	GRAHAM X D87-4429	F6
25. N97-565	N90-1085 X SC89-216	F6
26. N97-996	N90-1085 X SC89-216	F6
27. SC94-93	NK' S S83-30/HOWARD	F6
28. SC96-1243	SC84-931/D87-4429	F5
29. SC96-1476	SC89-181/SC84-931	F5
30. SC96-1628	SC89-181/NK' S S75-55	F5
31. SC96-1688	SC89-181/NK' S S75-55	F5
32. SC96-1715	SC89-181/NK' S S75-55	F5
33. SC96-1736	SC89-181/NK' S S75-55	F5
34. G95-2880	G87-1968 X G86-1267	F5

**TABLE 61 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VII,
1999 - MEAN OF 6 LOCATIONS**

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----	STEM CANKER	SCN 2	SCN 3	SCN 14	M. I. TN	M. A. TN	
BENNING	38.4	10/24	2	34	2	16.0	42.6	20.0	R	.	1.5	4.4	1.0	3.2
HASKELL	36.6	2+	2	33	2	16.2	42.1	19.6	R	.	5.0	4.7	1.3	1.2
N96-7018	34.0	2+	2	30	2	14.2	42.7	19.1-	R	.	5.0	5.0	1.7	3.8
N96-7164	33.3	3+	2	29	3	14.8	42.3	19.8	S	.	5.0	4.0	3.5	4.0
N97-10227	31.6-	3+	2	30	2	16.0	42.7	19.8	S	.	5.0	4.5	2.0	3.8
N97-6363	31.7-	2+	2	34	2	17.3	42.3	18.9-	R	.	5.0	4.0	2.5	3.4
N97-6425	30.3-	1+	2	33	2	17.4	40.3-	20.4	R	.	5.0	4.3	1.3	4.3
N97-6450	33.9	4+	2	35	2	17.5	40.8-	20.2	R	.	5.0	4.8	2.2	3.0
N97-9756	33.6	5+	3	34	2	15.3	42.0	19.4-	S	.	4.9	4.6	2.4	4.0
Au96-1239	37.6	1-	2	31	2	14.2	42.5	19.7	S	.	4.0	3.5	2.2	3.7
Au96-161	35.2	0	2	34	2	14.6	43.8+	20.0	R	.	4.8	4.6	2.8	3.8
Au96-1693	41.0	3+	2	35	2	14.4	45.1+	18.9-	R	.	5.0	4.4	2.5	4.0
Au96-192	36.8	3+	2	32	2	15.4	43.2	19.6	R	.	5.0	4.6	1.6	3.8
Au96-1958	37.1	0	2	36	2	14.9	44.3+	19.4-	S	.	4.0	4.7	3.0	4.0
Au96-205	38.9	3+	2	32	3	14.9	44.3+	19.2-	S	.	5.0	4.9	1.5	4.0
G95-1648	34.2	3+	2	38	2	12.9	44.9+	18.9-	S	.	4.3	3.8	1.5	3.3
G95-2484	37.5	3+	2	36	2	17.0	41.9	20.0	R	.	4.8	3.8	2.0	2.7
G95-2853	39.2	2+	2	36	2	13.2	40.8-	19.9	R	.	2.0	4.7	2.0	2.6
G95-2935	38.6	1+	2	34	2	13.6	41.2-	19.5	R	.	1.6	4.7	1.8	2.2
G95-373	34.9	1+	2	36	2	13.7	42.7	18.7-	S	.	1.5	5.0	1.5	2.3
G95-470	36.3	2+	2	35	2	13.8	42.9	19.3-	R	.	1.8	4.3	1.5	1.7
N96-855	37.0	0	2	31	2	13.1	43.0	18.6-	S	.	5.0	4.8	2.7	3.2
N97-345	32.7	3+	2	33	3	16.8	43.1	20.6+	S	.	5.0	4.3	2.3	3.0
N97-467	40.3	1+	2	31	2	15.4	42.2	20.1	S	.	4.3	4.9	2.2	3.2
N97-565	35.9	2+	2	33	2	15.6	44.1+	19.1-	S	.	5.0	5.0	2.0	3.7
N97-996	37.0	3+	2	32	2	15.6	43.5	19.4-	R	.	2.5	4.4	2.2	3.7
SC94-93	35.0	1-	2	34	2	12.8	43.0	19.0-	R	.	1.6	3.7	1.0	3.8
SC96-1243	33.0	1+	2	36	2	14.8	42.1	20.0	S	.	5.0	4.4	1.2	3.8
SC96-1476	36.7	1+	2	36	2	13.4	41.5-	19.3-	R	.	2.8	3.1	1.3	3.7
SC96-1628	40.3	3+	2	36	2	15.1	42.9	19.8	R	.	3.2	3.5	1.0	3.4
SC96-1688	38.2	3+	2	37	2	13.8	42.0	20.2	R	.	2.0	3.5	1.3	4.2
SC96-1715	35.8	4+	2	36	2	12.9	43.5	19.5	R	.	2.0	2.9	1.3	3.7
SC96-1736	39.7	4+	2	35	2	14.7	42.8	19.3-	R	.	3.0	2.7	1.2	3.8
G95-2880	36.8	2+	3	34	2	14.6	42.0	19.8	S	.	1.7	5.0	1.7	3.2
OVERALL MEAN	36.2						42.7	19.6						
L. S. D. (.05)	6.1						1.0	0.6						
C. V.	15%						2%	3%						

TABLE 62 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1999

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CLINTON NC	JAY FL	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	39.3	26.5	46.8	37.5	35.9	44.3	38.4
HASKELL	37.0	20.4	52.4	38.0	34.8	37.0	36.6
N96-7018	29.9-	25.3	43.4	32.8	30.2-	42.6	34.0
N96-7164	24.4-	20.2	42.1	39.8	40.8+	32.5	33.3
N97-10227	24.4-	23.5	45.9	33.4	31.2-	31.2	31.6-
N97-6363	28.9-	23.6	38.1	37.5	31.1-	31.2	31.7-
N97-6425	26.2-	19.6	42.7	27.1-	29.1-	37.0	30.3-
N97-6450	28.8-	24.5	44.4	35.7	32.9	37.4	33.9
N97-9756	22.9-	28.4	41.1	31.7	26.8-	50.7	33.6
Au96-1239	37.7	16.8-	47.6	32.8	37.8	52.9	37.6
Au96-161	33.9	24.4	47.9	32.3	29.0-	43.7	35.2
Au96-1693	31.4	26.3	49.5	36.3	44.6+	57.8	41.0
Au96-192	36.2	13.0-	49.9	43.2	24.3-	54.0	36.8
Au96-1958	34.5	18.3	42.8	36.9	45.1+	45.1	37.1
Au96-205	37.4	25.2	45.6	36.3	40.0	48.7	38.9
G95-1648	39.6	26.3	31.6-	32.3	26.6-	48.8	34.2
G95-2484	30.2-	24.8	47.4	46.1+	37.4	38.9	37.5
G95-2853	36.2	21.2	42.7	40.9	40.1	54.2	39.2
G95-2935	33.3	25.1	45.1	38.0	41.9+	48.2	38.6
G95-373	38.2	21.3	38.7	35.7	39.3	36.1	34.9
G95-470	35.8	23.1	38.1	38.0	34.6	48.5	36.3
N96-855	27.0-	28.9	44.0	42.6	34.2	45.7	37.0
N97-345	28.0-	22.3	45.3	34.6	41.6+	24.1-	32.7
N97-467	36.8	26.4	43.1	38.6	42.5+	54.5	40.3
N97-565	32.6	18.1	46.8	36.3	44.4+	37.1	35.9
N97-996	38.4	24.9	42.4	38.6	37.0	40.4	37.0
SC94-93	42.2	22.0	37.8	34.6	23.3-	50.0	35.0
SC96-1243	33.6	22.9	43.9	34.6	29.3-	33.8	33.0
SC96-1476	39.2	23.0	35.7-	36.9	33.8	51.7	36.7
SC96-1628	40.9	29.9	39.2	38.6	37.5	56.0	40.3
SC96-1688	34.9	26.2	48.7	32.3	32.2	54.8	38.2
SC96-1715	37.2	22.9	36.7	37.5	31.7	48.8	35.8
SC96-1736	40.3	29.1	38.9	40.3	35.3	54.0	39.7
G95-2880	34.2	26.5	44.3	34.6	41.8+	39.4	36.8
L. S. D. (0.05)	7.9	8.7	10.2	7.5	4.6	14.0	6.1
C. V. (%)	11.5	18.2	11.6	10.1	6.5	15.5	14.7

TABLE 63 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1999

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CLINTON NC	JAY FL	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	20.0	20.7	20.4	19.8	18.3	20.7	20.0
HASKELL	19.1	19.9	18.6	20.0	19.6	20.6	19.6
N96-7018	18.9	19.9	18.1	18.9	18.5	20.4	19.1
N96-7164	19.4	20.1	19.2	20.3	19.7	20.1	19.8
N97-10227	19.8	20.0	19.2	19.9	19.4	20.6	19.8
N97-6363	18.7	19.4	18.8	18.0	18.4	19.9	18.9
N97-6425	19.8	21.2	20.6	19.3	20.6	20.8	20.4
N97-6450	19.7	20.3	20.1	19.5	20.3	21.0	20.2
N97-9756	17.7	19.5	18.7	19.6	20.0	20.7	19.4
Au96-1239	20.1	20.0	18.8	18.8	19.9	20.6	19.7
Au96-161	20.0	20.8	20.0	19.2	18.7	21.4	20.0
Au96-1693	18.1	19.1	18.4	18.5	19.0	20.1	18.9
Au96-192	19.4	20.4	19.4	19.3	18.2	20.9	19.6
Au96-1958	18.5	19.3	18.7	19.3	19.9	20.5	19.4
Au96-205	19.6	20.4	18.6	17.7	18.5	20.6	19.2
G95-1648	19.4	19.9	18.4	17.4	18.3	20.2	18.9
G95-2484	19.3	20.3	19.2	20.3	20.1	20.5	20.0
G95-2853	19.7	20.2	19.2	19.9	19.4	20.7	19.9
G95-2935	19.0	19.8	18.9	19.5	19.2	20.4	19.5
G95-373	17.9	19.3	17.6	19.5	18.1	19.6	18.7
G95-470	19.1	19.5	18.4	19.9	18.8	20.1	19.3
N96-855	17.9	18.9	18.3	18.2	18.5	19.8	18.6
N97-345	20.4	20.4	20.1	21.5	20.5	20.9	20.6
N97-467	20.0	19.8	20.0	20.1	20.1	20.8	20.1
N97-565	19.5	19.6	17.9	18.9	18.4	20.5	19.1
N97-996	19.7	20.4	18.6	19.2	18.5	20.2	19.4
SC94-93	19.2	20.0	18.8	18.4	18.0	19.5	19.0
SC96-1243	19.2	20.7	18.7	20.7	20.3	20.4	20.0
SC96-1476	19.2	19.8	18.4	19.3	18.9	19.9	19.3
SC96-1628	19.5	19.7	19.0	20.4	19.6	20.4	19.8
SC96-1688	20.4	21.1	19.5	20.3	19.3	20.4	20.2
SC96-1715	19.0	19.2	19.1	20.2	19.3	20.0	19.5
SC96-1736	18.6	19.3	18.0	20.2	19.8	19.9	19.3
G95-2880	19.2	19.5	19.5	19.7	20.2	20.4	19.8

TABLE 64 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1999

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CLINTON NC	JAY FL	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	41.7	42.0	40.9	43.1	44.8	43.0	42.6
HASKELL	40.7	41.6	41.2	42.1	43.8	42.9	42.1
N96-7018	41.3	41.7	43.7	43.5	44.2	41.9	42.7
N96-7164	41.7	41.7	42.3	41.7	42.7	43.5	42.3
N97-10227	41.5	43.2	42.7	42.1	44.4	42.4	42.7
N97-6363	41.2	40.8	42.3	42.6	44.6	42.3	42.3
N97-6425	38.4	40.5	39.4	41.3	40.4	41.5	40.3
N97-6450	38.9	39.9	40.3	41.7	42.6	41.1	40.8
N97-9756	41.1	41.7	42.2	42.1	41.9	43.0	42.0
Au96-1239	40.1	42.2	43.8	42.8	42.3	43.6	42.5
Au96-161	41.7	42.5	42.7	44.5	47.2	43.9	43.8
Au96-1693	44.5	44.2	45.4	45.7	46.1	44.8	45.1
Au96-192	42.1	41.5	42.5	44.2	45.8	42.9	43.2
Au96-1958	42.3	43.4	45.2	44.7	44.9	45.4	44.3
Au96-205	42.7	43.4	44.6	45.3	45.8	43.7	44.3
G95-1648	43.2	41.9	45.1	46.9	46.7	45.8	44.9
G95-2484	41.2	41.3	42.0	41.4	42.3	42.9	41.9
G95-2853	38.8	40.6	41.8	40.2	41.8	41.4	40.8
G95-2935	39.9	40.4	41.8	41.0	41.9	42.0	41.2
G95-373	42.4	42.3	43.9	40.0	43.5	44.2	42.7
G95-470	40.8	42.7	43.2	41.9	43.9	44.8	42.9
N96-855	43.3	43.8	42.4	42.6	43.2	42.8	43.0
N97-345	42.3	43.2	43.2	42.2	43.6	44.3	43.1
N97-467	41.6	42.2	42.1	41.2	42.6	43.3	42.2
N97-565	42.6	44.4	43.9	45.0	46.2	42.3	44.1
N97-996	42.1	42.6	43.1	43.8	45.2	44.4	43.5
SC94-93	40.7	41.3	43.2	42.7	45.2	44.7	43.0
SC96-1243	41.8	39.5	43.8	41.3	43.3	42.7	42.1
SC96-1476	40.1	41.0	41.5	40.8	43.3	42.0	41.5
SC96-1628	40.7	42.8	43.6	42.0	45.0	43.0	42.9
SC96-1688	40.8	41.1	42.8	40.7	43.8	42.9	42.0
SC96-1715	42.5	43.2	43.7	42.4	44.8	44.4	43.5
SC96-1736	42.6	42.9	43.5	41.7	43.3	43.0	42.8
G95-2880	41.7	41.7	42.6	41.4	41.6	42.9	42.0

TABLE 65 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1999

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CLINTON NC	JAY FL	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	19.4	18.5	15.7	12.6	12.6	17.0	16.0
HASKELL	18.6	18.9	16.3	14.0	13.6	16.0	16.2
N96-7018	16.5	16.8	15.2	11.0	11.8	13.6	14.2
N96-7164	15.6	17.5	15.9	12.8	12.7	14.6	14.8
N97-10227	18.0	20.3	16.8	11.8	13.7	15.6	16.0
N97-6363	21.8	21.4	16.5	11.8	14.4	17.9	17.3
N97-6425	19.4	21.3	16.7	12.6	15.2	18.9	17.4
N97-6450	19.2	21.8	18.0	13.6	14.9	17.8	17.5
N97-9756	17.6	18.8	15.9	11.0	12.1	16.2	15.3
Au96-1239	17.1	17.8	13.8	10.0	11.5	14.8	14.2
Au96-161	17.7	17.8	14.2	10.8	13.0	14.0	14.6
Au96-1693	16.1	16.8	14.9	11.4	12.2	14.9	14.4
Au96-192	18.9	17.8	14.7	14.6	10.4	16.3	15.4
Au96-1958	17.3	17.4	14.2	11.8	13.9	15.0	14.9
Au96-205	16.6	19.0	14.6	11.0	13.6	14.5	14.9
G95-1648	14.7	14.9	13.1	10.4	11.8	12.5	12.9
G95-2484	19.7	19.1	16.2	14.2	15.0	17.8	17.0
G95-2853	14.2	15.4	13.0	12.6	11.1	13.1	13.2
G95-2935	15.5	15.9	13.8	12.4	11.3	12.9	13.6
G95-373	15.7	15.5	13.7	11.4	11.2	14.7	13.7
G95-470	15.1	15.5	13.3	12.2	11.2	15.4	13.8
N96-855	14.7	17.0	12.4	11.0	11.0	12.2	13.1
N97-345	17.9	19.9	16.2	14.4	14.5	17.7	16.8
N97-467	17.3	18.7	14.4	12.2	14.0	15.6	15.4
N97-565	16.5	18.6	14.3	14.0	14.4	15.5	15.6
N97-996	18.0	19.1	13.5	14.4	13.0	15.7	15.6
SC94-93	14.8	15.1	12.5	11.4	9.7	13.4	12.8
SC96-1243	17.9	15.4	16.2	12.0	12.0	15.5	14.8
SC96-1476	14.6	16.4	13.3	12.0	11.5	12.7	13.4
SC96-1628	15.3	16.9	13.5	16.2	13.0	15.9	15.1
SC96-1688	15.7	17.2	13.8	10.6	11.4	13.8	13.8
SC96-1715	14.6	15.8	12.2	10.6	11.3	13.1	12.9
SC96-1736	16.3	17.1	13.4	14.6	11.6	15.0	14.7
G95-2880	17.4	17.3	14.3	11.6	12.3	14.9	14.6

**TABLE 66 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII,
1999**

STRAIN/ VARIETY	ATHENS	BLACKVILLE	CLINTON	JAY	STONEVILLE	TALLASSEE	MEAN
	GA	SC	NC	FL	MS	AL	
BENNING	37	26	33	32	34	43	34
HASKELL	37	27	31	30	32	43	33
N96-7018	32	25	30	25	28	38	30
N96-7164	32	24	32	26	24	37	29
N97-10227	35	27	28	27	24	40	30
N97-6363	39	29	30	33	32	44	34
N97-6425	37	25	35	28	32	44	33
N97-6450	39	27	30	30	36	50	35
N97-9756	35	29	31	29	36	43	34
Au96-1239	32	22	28	30	34	43	31
Au96-161	35	26	32	30	36	44	34
Au96-1693	39	27	33	30	32	47	35
Au96-192	37	22	28	28	36	43	32
Au96-1958	40	24	36	32	36	46	36
Au96-205	36	25	29	28	34	41	32
G95-1648	42	32	35	34	36	47	38
G95-2484	40	31	32	33	34	46	36
G95-2853	40	26	33	35	36	46	36
G95-2935	38	27	34	33	32	43	34
G95-373	39	28	34	30	36	50	36
G95-470	39	28	36	29	34	45	35
N96-855	33	27	35	23	32	39	31
N97-345	37	28	30	31	32	42	33
N97-467	34	23	30	30	30	37	31
N97-565	39	24	31	27	36	41	33
N97-996	36	22	33	25	34	42	32
SC94-93	37	24	34	29	36	47	34
SC96-1243	37	29	34	32	36	46	36
SC96-1476	38	30	36	34	32	44	36
SC96-1628	40	31	33	31	38	46	36
SC96-1688	38	27	36	34	36	49	37
SC96-1715	40	29	36	29	36	46	36
SC96-1736	38	29	33	30	40	43	35
G95-2880	39	26	33	30	32	44	34

TABLE 67 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1999

STRAIN/ VARIETY	ATHENS	BLACKVILLE	CLINTON	JAY	STONEVILLE	TALLASSEE	MEAN
	GA	SC	NC	FL	MS	AL	
BENNING	3	1	4	1	2	3	2
HASKELL	2	1	3	1	2	2	2
N96-7018	3	1	4	1	3	2	2
N96-7164	2	1	3	1	2	1	2
N97-10227	3	1	4	1	3	2	2
N97-6363	2	1	4	1	2	2	2
N97-6425	2	1	3	1	2	2	2
N97-6450	3	1	4	1	2	2	2
N97-9756	3	1	4	2	4	2	3
Au96-1239	2	1	3	1	3	2	2
Au96-161	2	1	3	1	2	2	2
Au96-1693	2	1	3	2	2	2	2
Au96-192	3	1	3	1	2	3	2
Au96-1958	3	1	3	1	2	1	2
Au96-205	2	1	4	1	2	2	2
G95-1648	3	1	4	2	3	3	2
G95-2484	3	1	4	2	3	2	2
G95-2853	3	1	3	2	3	2	2
G95-2935	2	1	3	1	3	3	2
G95-373	3	1	3	1	2	2	2
G95-470	2	1	3	1	2	2	2
N96-855	2	1	3	1	2	1	2
N97-345	3	1	4	1	2	1	2
N97-467	2	1	3	1	2	2	2
N97-565	2	1	3	1	2	2	2
N97-996	2	1	3	1	2	1	2
SC94-93	2	1	4	1	2	2	2
SC96-1243	2	1	3	1	2	2	2
SC96-1476	3	1	3	1	4	2	2
SC96-1628	3	1	3	1	2	3	2
SC96-1688	2	1	3	1	2	3	2
SC96-1715	2	1	3	1	2	1	2
SC96-1736	2	1	3	1	3	2	2
G95-2880	3	1	4	1	4	3	3

TABLE 68 - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1999

STRAIN/ VARIETY	ATHENS	CLINTON	JAY	STONEVILLE	TALLASSEE	MEAN
	GA	NC	FL	MS	AL	
BENNING	2	2	2	2	1	2
HASKELL	2	2	3	2	1	2
N96-7018	2	2	3	2	2	2
N96-7164	3	2	4	2	3	3
N97-10227	2	2	3	2	1	2
N97-6363	2	3	3	2	1	2
N97-6425	2	2	3	2	1	2
N97-6450	2	2	3	2	1	2
N97-9756	2	2	3	2	1	2
Au96-1239	3	2	3	2	2	2
Au96-161	3	2	3	2	2	2
Au96-1693	2	2	3	2	1	2
Au96-192	2	2	3	2	1	2
Au96-1958	3	2	2	2	2	2
Au96-205	3	2	3	2	3	3
G95-1648	2	2	2	2	1	2
G95-2484	2	3	2	2	1	2
G95-2853	2	2	2	2	1	2
G95-2935	2	2	3	2	2	2
G95-373	2	2	3	2	1	2
G95-470	2	2	3	2	1	2
N96-855	2	2	2	2	1	2
N97-345	4	3	4	2	3	3
N97-467	3	3	3	2	1	2
N97-565	2	2	2	2	1	2
N97-996	2	2	2	2	1	2
SC94-93	2	2	2	2	1	2
SC96-1243	2	2	2	2	1	2
SC96-1476	2	2	3	2	1	2
SC96-1628	2	2	2	2	1	2
SC96-1688	2	2	2	2	1	2
SC96-1715	2	2	3	2	1	2
SC96-1736	2	2	2	2	1	2
G95-2880	2	2	2	2	1	2

UNIFORM GROUP VIII

1999

Uniform Group VIII nurseries were planted in 14 locations. Data were obtained from 13 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,
1999**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. COOK	BRAXTON X YOUNG	
2. PRICHARD	COKER 82-622 X HOWARD	
3. N96-7031	N90-7199 X N90-7241	F4
4. N96-7082	N90-7199 X N90-7241	F4
5. N96-7095	N90-7199 X N90-7241	F4
6. TCPR96-1215	YOUNG X TANBAGURO	F7+
7. Au94-863	Au87-727 X Cook	F6
8. Au95-757	N86-7682 X Haskel I	F6
9. G90-R1551E	COKER 82-622 X HOWARD	F6
10. G92-2167	COKER 82-622 X BRIM	F6
11. G92-2388	COKER 82-622 X G83-12	F6
12. G93-2225	COOK X COKER 6727	F6
13. G94-3117	G86-1434 X HAGOOD	F5
14. G95-346	G86-1434 X G87-1968	F6
15. N94-537	COOK X CLIFFORD	F6
16. SC93-1963	COKER 6738/G83-198	F5
17. SC94-1000	COKER 6847/G83-198	F5
18. SC95-1843	N88-480/HAGOOD	F5
19. SC95-771	COKER 6847/MANOKIN	F5

**TABLE 70 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM GROUP VIII, 1999**

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1999	98-99	97-99	1999	98-99	97-99	1999	98-99	97-99
COOK	46.6	44.2	41.7	43.2	43.3	43.0	18.9	19.3	19.4
PRICHARD	48.0	.	.	43.0	.	.	19.2	.	.
N96-7031	41.0	.	.	41.1	.	.	19.1	.	.
N96-7082	41.7	.	.	41.1	.	.	19.7	.	.
N96-7095	42.6	.	.	40.8	.	.	19.7	.	.
TCPR96-1215	40.2	37.6	.	43.3	43.4	.	19.3	19.9	.
Au94-863	48.2	.	.	42.2	.	.	20.2	.	.
Au95-757	44.6	.	.	39.3	.	.	21.1	.	.
G90-R1551E	48.4	46.5	.	43.1	43.5	.	19.3	19.5	.
G92-2167	48.1	46.4	43.8	40.3	40.8	40.9	19.6	20.0	20.0
G92-2388	45.4	44.0	43.0	41.7	42.2	42.0	19.3	19.5	19.6
G93-2225	47.6	45.6	.	42.8	43.0	.	18.9	19.0	.
G94-3117	48.2	.	.	42.9	.	.	19.1	.	.
G95-346	48.1	.	.	41.8	.	.	19.3	.	.
N94-537	47.9	45.5	42.5	41.8	41.7	41.5	19.7	19.9	20.0
SC93-1963	48.1	46.3	43.5	41.5	42.0	41.9	20.1	20.2	20.2
SC94-1000	46.5	44.7	.	42.4	42.7	.	20.2	20.3	.
SC95-1843	41.7	.	.	40.0	.	.	20.7	.	.
SC95-771	47.4	.	.	40.8	.	.	19.8	.	.

†Data not included in Mean: (1998) - Jay, FL; Clemson, SC; Jackson Springs, NC
(1997) - Tallassee, AL(L); Tifton, GA

TABLE 70 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
COOK	P	10/25	2	35	2	15.7	T	T
PRICHARD	W	3+	2	34	2	15.2	G	T
N96-7031	P	1+	2	31	2	14.0	G	S
N96-7082	P	3+	2	33	2	14.6	G	S
N96-7095	P	1+	2	32	2	15.6	G	T
TCPR96-1215	W	2+	2	32	2	26.6	G	T
Au94-863	P	1+	2	34	2	16.8	T	T
Au95-757	P	3-	1	28	2	15.2	G	T
G90-R1551E	W	1+	2	33	2	15.0	G	T
G92-2167	W	2-	2	36	2	13.0	G	T
G92-2388	W	1+	2	36	2	14.9	G	T
G93-2225	P	1-	1	31	2	14.5	T	T
G94-3117	W	1-	2	34	2	15.7	G	T
G95-346	W	1-	2	32	2	14.1	T	T
N94-537	P	1-	2	35	2	15.2	T	T
SC93-1963	W	2+	2	34	2	15.4	T	T
SC94-1000	W	0	2	36	2	15.3	G	T
SC95-1843	W	1-	2	30	2	13.4	G	T
SC95-771	W	0	2	34	2	13.6	G	T

TABLE 70 - Continued

PEST REACTIONS

STRAIN/ VARIETY	STEM CANKER	SCN 2	SCN 3	SCN 14	M. I. GA	M. A. GA	SMV
COOK	R	.	4.7	4.7	2.0	3.0	R
PRICHARD	R	.	2.0	1.2	1.0	5.0	R
N96-7031	R	.	5.0	4.8	5.0	4.8	R
N96-7082	R	.	5.0	5.0	5.0	3.0	R
N96-7095	R	.	5.0	4.8	5.0	5.0	R
TCPR96-1215	R	.	5.0	4.9	5.0	2.3	R
Au94-863	R	.	1.9	1.2	4.0	2.3	R
Au95-757	S	.	5.0	4.7	1.5	4.0	R
G90-R1551E	R	.	2.0	1.7	1.8	4.0	R
G92-2167	S	.	3.4	4.7	1.0	2.8	R
G92-2388	R	.	1.0	4.4	1.0	4.8	R
G93-2225	R	.	1.0	4.3	2.0	1.8	R
G94-3117	S	.	1.0	4.7	1.0	2.5	R
G95-346	S	.	1.0	4.3	1.0	2.0	S
N94-537	S	.	5.0	3.7	2.8	2.8	R
SC93-1963	R	.	1.7	3.7	1.5	1.8	R
SC94-1000	S	.	1.0	4.6	1.8	2.8	R
SC95-1843	S	.	1.2	4.7	4.0	5.0	R
SC95-771	S	.	1.2	4.9	2.8	1.8	S

See Methods section for description of rating scale.

TABLE 71 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1999

EAST

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
COOK	24.2	41.7	33.0
PRI CHARD	22.3	43.1	32.7
N96-7031	15.2	38.0	26.6
N96-7082	18.0	39.2	28.6
N96-7095	16.6	39.4	28.0
TCPR96-1215	16.8	36.1	26.5
Au94-863	22.2	51.9	37.0
Au95-757	20.6	49.6	35.1
G90-R1551E	25.0	47.8	36.4
G92-2167	29.4	42.0	35.7
G92-2388	24.3	38.2	31.2
G93-2225	18.7	37.2	27.9
G94-3117	19.9	43.9	31.9
G95-346	20.7	48.2	34.5
N94-537	23.7	46.1	34.9
SC93-1963	23.5	43.1	33.3
SC94-1000	25.4	36.1	30.8
SC95-1843	18.0	46.7	32.3
SC95-771	23.7	42.6	33.2
L. S. D. (0.05)	5.8	8.4	.
C. V. (%)	16.2	11.8	.

TABLE 71 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS	CLEMSON	FAIRHOPE	JAY	PLAINS	TALLASSEE	TALLASSEE	TIFTON	MEAN
	GA	SC	AL	FL	GA	AL	AL(L)	GA	
COOK	57.9	48.0	56.6	41.8	41.1	55.1	59.5	40.2	50.0
PRICHARD	50.8	45.4	58.4	43.4	34.7	62.6	55.0	64.3	51.8
N96-7031	56.3	47.4	52.9	39.5	33.6	43.2	51.9	31.7	44.6
N96-7082	55.1	46.3	52.7	40.0	29.1	44.3	57.9	34.2	44.9
N96-7095	51.6	47.2	57.7	41.8	37.8	41.8	51.4	40.2	46.2
TCPR96-1215	48.0	38.0	47.5	36.1	34.4	43.2	51.1	50.7	43.6
Au94-863	56.6	44.4	52.3	39.2	40.0	64.8	50.6	60.1	51.0
Au95-757	53.0	44.6	58.8	37.2	41.8	49.7	50.4	39.9	46.9
G90-R1551E	57.7	44.0	59.6	43.4	37.8	64.1	51.2	52.9	51.3
G92-2167	61.1	52.2	58.6	39.5	37.8	54.9	59.4	46.2	51.2
G92-2388	58.3	44.4	55.6	44.6	31.4	60.0	48.9	48.6	49.0
G93-2225	59.7	52.2	53.4	41.5	43.8	58.8	59.6	51.6	52.6
G94-3117	53.9	52.3	54.6	40.0	43.6	67.1	48.7	57.9	52.3
G95-346	51.7	49.4	59.6	40.0	38.5	60.4	58.9	53.2	51.4
N94-537	55.9	53.4	54.9	48.1	42.3	50.7	59.4	44.1	51.1
SC93-1963	61.5	43.4	56.6	49.9	39.7	63.7	56.6	43.3	51.8
SC94-1000	58.2	48.8	53.8	41.8	41.3	57.0	55.8	46.4	50.4
SC95-1843	60.7	45.9	33.4	35.7	36.9	56.0	34.0	50.0	44.1
SC95-771	62.3	48.1	50.8	40.7	46.6	57.2	55.4	46.2	50.9
L. S. D. (0.05)	8.0	7.0	9.8	0.0	3.5	7.9	8.8	12.0	.
C. V. (%)	8.5	8.9	11.0	15.0	5.5	8.6	9.9	15.3	.

TABLE 72 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1999

OIL PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	18.6	20.1	19.0	19.1	18.5	18.6	18.0	19.1	19.2	.	18.9
PRICHARD	19.0	20.1	19.6	19.6	18.5	19.9	18.1	18.9	19.1	.	19.2
N96-7031	18.7	19.6	19.5	19.8	17.8	19.4	17.7	19.6	19.7	.	19.1
N96-7082	19.7	20.1	19.9	19.7	18.8	20.0	17.7	20.9	20.1	.	19.7
N96-7095	20.1	20.8	20.2	19.8	18.5	19.9	17.7	20.4	19.6	.	19.7
TCPR96-1215	18.5	18.8	20.2	19.7	18.4	19.7	19.6	19.5	19.3	.	19.3
Au94-863	19.9	20.3	20.4	20.7	19.2	20.8	19.8	20.9	20.0	.	20.2
Au95-757	21.1	21.8	21.4	21.4	19.7	21.1	20.3	21.6	21.2	.	21.1
G90-R1551E	19.3	20.1	19.7	19.8	19.0	19.1	18.7	19.5	18.9	.	19.3
G92-2167	19.1	20.1	19.8	20.0	19.0	20.1	18.9	19.7	20.1	.	19.6
G92-2388	19.0	20.3	20.1	19.4	18.5	20.3	17.7	19.8	19.0	.	19.3
G93-2225	19.1	20.1	19.1	19.4	18.1	19.2	16.9	19.3	19.2	.	18.9
G94-3117	18.8	20.3	19.7	19.6	17.8	19.0	18.1	19.8	19.1	.	19.1
G95-346	19.1	20.1	19.6	19.7	18.3	18.6	18.6	19.9	19.5	.	19.3
N94-537	19.7	20.4	20.3	19.6	18.8	19.9	19.1	20.0	19.4	.	19.7
SC93-1963	19.4	20.2	20.8	20.9	19.5	20.9	18.7	20.5	20.2	.	20.1
SC94-1000	20.0	20.2	20.7	20.5	19.4	21.1	19.7	20.8	19.5	.	20.2
SC95-1843	20.6	21.2	21.0	20.9	19.7	21.0	19.3	21.1	21.1	.	20.7
SC95-771	19.2	20.2	20.1	20.3	18.9	20.2	18.9	20.3	19.7	.	19.8

TABLE 72 - CONTINUED

PROTEIN PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	42.8	40.6	43.8	43.0	42.8	43.8	44.7	44.0	43.3	.	43.2
PRICHARD	42.3	40.5	43.0	41.5	43.3	44.1	44.7	43.2	44.4	.	43.0
N96-7031	40.5	39.3	41.2	39.4	41.5	42.0	43.2	41.2	41.6	.	41.1
N96-7082	39.8	38.6	41.9	40.8	41.4	41.3	43.8	40.3	42.0	.	41.1
N96-7095	38.8	36.7	41.0	40.6	41.9	41.4	43.3	41.0	42.9	.	40.8
TCPR96-1215	43.7	43.6	42.7	42.1	43.8	42.3	43.8	44.4	43.6	.	43.3
Au94-863	41.3	41.0	42.2	40.5	43.4	41.5	43.3	42.5	43.8	.	42.2
Au95-757	38.0	36.3	40.0	38.1	39.6	40.2	39.6	40.9	41.1	.	39.3
G90-R1551E	42.2	40.6	43.2	42.0	42.5	43.5	43.8	44.6	45.8	.	43.1
G92-2167	39.9	38.8	41.6	39.5	39.8	41.0	41.7	40.6	40.2	.	40.3
G92-2388	41.3	38.4	41.8	40.9	42.9	40.4	44.4	42.3	42.8	.	41.7
G93-2225	41.6	39.5	42.7	41.9	41.9	44.4	45.4	44.1	43.3	.	42.8
G94-3117	42.2	41.3	42.4	41.7	43.9	43.7	43.9	43.0	44.1	.	42.9
G95-346	41.1	38.9	42.4	40.6	42.1	42.3	43.1	43.0	42.6	.	41.8
N94-537	40.9	39.2	41.8	41.4	41.3	42.8	43.4	42.9	42.3	.	41.8
SC93-1963	41.6	40.6	41.0	40.9	41.6	40.8	43.0	41.7	42.5	.	41.5
SC94-1000	42.6	40.7	42.3	41.4	42.4	42.3	42.9	42.6	44.8	.	42.4
SC95-1843	39.5	38.3	39.7	39.3	40.7	40.0	41.6	39.4	41.2	.	40.0
SC95-771	41.0	38.7	41.7	39.0	41.8	40.4	41.7	41.6	41.7	.	40.8

TABLE 72 - CONTINUED

GRAMS PER 100 SEED												
STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN	
COOK	16.2	17.2	14.9	18.4	14.9	12.8	12.2	16.5	18.4	15	15.7	
PRI CHARD	14.8	14.1	15.9	15.4	15.8	16.4	12.0	14.8	16.9	16	15.2	
N96-7031	14.2	15.5	12.7	14.0	14.2	12.8	11.4	13.9	16.7	15	14.0	
N96-7082	15.8	12.7	14.2	14.9	15.4	14.8	10.9	14.5	18.1	15	14.6	
N96-7095	14.1	13.8	13.9	14.4	14.4	13.8	10.7	14.5	17.2	29	15.6	
TCPR96-1215	31.8	30.7	23.3	31.1	30.1	24.8	21.9	27.6	31.0	14	26.6	
Au94-863	17.2	16.7	16.1	17.9	16.8	17.0	13.8	16.9	18.7	17	16.8	
Au95-757	14.5	16.5	14.1	14.6	14.0	14.8	11.4	14.8	20.9	16	15.2	
G90-R1551E	14.2	14.5	15.5	15.6	15.5	14.2	11.8	16.2	16.6	16	15.0	
G92-2167	13.2	13.2	12.4	15.7	12.6	12.4	10.8	12.3	14.4	13	13.0	
G92-2388	14.9	14.2	16.4	16.9	15.1	14.8	11.3	14.9	14.7	16	14.9	
G93-2225	14.3	14.7	13.0	17.0	13.3	16.4	11.4	15.4	15.9	14	14.5	
G94-3117	16.2	17.0	13.2	16.1	15.8	15.6	12.3	15.4	19.3	16	15.7	
G95-346	14.2	13.8	13.3	15.9	14.9	10.4	11.0	15.9	16.2	15	14.1	
N94-537	15.7	14.7	14.2	18.0	14.8	14.4	12.4	15.6	19.3	13	15.2	
SC93-1963	15.3	17.4	15.1	17.7	16.2	15.0	11.2	15.1	16.4	15	15.4	
SC94-1000	15.9	14.5	15.1	17.1	15.3	12.6	12.4	15.1	17.6	17	15.3	
SC95-1843	14.5	14.9	12.4	15.3	14.7	13.0	10.7	12.2	16.6	10	13.4	
SC95-771	13.8	14.1	14.9	14.6	13.8	13.6	11.1	12.7	15.0	12	13.6	

**TABLE 73 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN
COOK FOR STRAIN VARIETY IN UNIFORM GROUP VIII, 1999**

EAST

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
COOK	11/04	11/12	11/03
PRI CHARD	1	5	3
N96-7031	1	0	1
N96-7082	3	5	4
N96-7095	1	0	0
TCPR96-1215	4	0	2
Au94-863	0	0	0
Au95-757	-5	0	-3
G90-R1551E	-2	0	-1
G92-2167	-2	0	-1
G92-2388	0	0	0
G93-2225	0	0	0
G94-3117	-3	0	-1
G95-346	0	0	0
N94-537	-1	0	-1
SC93-1963	2	0	1
SC94-1000	0	0	0
SC95-1843	-1	0	-1
SC95-771	-2	0	-1

TABLE 73 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	FAIRHOPE AL	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	10/28	11/05	10/18	10/28	.	09/23	11/05	10/17	10/22
PRICHARD	6	4	0	3	.	6	2	5	4
N96-7031	3	3	-2	1	.	3	2	3	2
N96-7082	4	6	-3	3	.	3	3	4	3
N96-7095	2	3	0	1	.	3	1	3	2
TCPR96-1215	5	5	-1	1	.	3	0	4	3
Au94-863	0	2	2	4	.	0	0	1	2
Au95-757	-8	-3	0	-5	.	-1	0	-6	-3
G90-R1551E	1	0	-2	4	.	4	1	4	2
G92-2167	0	-1	-5	-6	.	-2	-1	1	-2
G92-2388	3	0	-4	3	.	4	0	3	2
G93-2225	1	0	-3	-1	.	0	0	-5	-1
G94-3117	0	-1	0	-3	.	0	-2	-1	-1
G95-346	-1	-1	1	-6	.	0	0	-4	-1
N94-537	-3	1	1	-4	.	-1	-1	-4	-1
SC93-1963	6	5	-2	0	.	4	1	4	3
SC94-1000	2	2	1	-3	.	1	0	0	1
SC95-1843	0	-1	-3	-2	.	-1	-1	1	0
SC95-771	2	1	-2	2	.	1	0	0	1

TABLE 74 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1999

EAST

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
COOK	26	30	28
PRI CHARD	23	33	28
N96-7031	20	25	23
N96-7082	22	29	26
N96-7095	19	30	25
TCPR96-1215	24	26	25
Au94-863	25	29	27
Au95-757	18	22	20
G90-R1551E	21	30	26
G92-2167	26	32	29
G92-2388	22	33	28
G93-2225	20	27	24
G94-3117	24	31	27
G95-346	23	29	26
N94-537	28	31	30
SC93-1963	25	31	28
SC94-1000	25	32	29
SC95-1843	19	26	23
SC95-771	24	31	28

TABLE 74 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	FAIRHOPE AL	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	39	39	36	29	40	46	27	37	37
PRICHARD	35	38	31	30	41	46	27	39	36
N96-7031	34	36	30	25	38	40	24	39	33
N96-7082	36	39	31	28	36	43	29	35	35
N96-7095	35	36	31	27	37	44	25	36	34
TCPR96-1215	33	39	26	28	36	41	25	36	33
Au94-863	39	40	35	31	37	44	27	37	36
Au95-757	31	31	28	24	38	37	22	29	30
G90-R1551E	36	36	29	29	37	45	27	38	35
G92-2167	40	38	35	29	46	45	28	39	38
G92-2388	41	38	36	30	44	46	25	42	38
G93-2225	32	37	28	26	38	41	26	36	33
G94-3117	34	37	30	29	41	45	28	39	35
G95-346	34	37	33	27	36	41	26	33	33
N94-537	38	42	36	28	39	43	29	37	37
SC93-1963	38	35	33	31	39	44	28	38	36
SC94-1000	39	41	38	30	41	48	29	36	38
SC95-1843	36	34	22	27	38	40	22	33	32
SC95-771	38	36	25	27	43	45	25	41	35

**TABLE 75 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VIII,
1999**

EAST

STRAIN/ VARIETY	FLORENCE		JACKSON SPRINGS		MEAN
	SC		NC		
COOK	1		2		2
PRI CHARD	1		2		2
N96-7031	1		2		2
N96-7082	1		2		2
N96-7095	1		2		2
TCPR96-1215	1		2		2
Au94-863	1		2		2
Au95-757	1		2		2
G90-R1551E	1		2		2
G92-2167	1		1		1
G92-2388	1		2		2
G93-2225	1		2		1
G94-3117	1		2		2
G95-346	1		2		2
N94-537	1		2		2
SC93-1963	1		2		2
SC94-1000	1		2		2
SC95-1843	1		2		2
SC95-771	1		2		2

TABLE 75 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	FAIRHOPE AL	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	3	2	2	1	3	2	1	1	2
PRICHARD	3	2	2	2	2	3	1	2	2
N96-7031	3	3	1	1	2	2	1	1	2
N96-7082	3	3	2	1	3	3	2	1	2
N96-7095	2	2	1	1	3	2	1	2	2
TCPR96-1215	4	4	3	1	3	3	2	1	3
Au94-863	3	3	3	1	3	3	2	3	3
Au95-757	3	1	1	1	2	1	1	1	1
G90-R1551E	3	2	2	1	3	2	1	2	2
G92-2167	2	1	1	1	3	2	1	2	2
G92-2388	3	2	1	1	3	3	1	1	2
G93-2225	2	2	2	1	2	1	1	1	2
G94-3117	3	3	3	1	3	1	2	2	2
G95-346	3	3	1	1	3	3	1	2	2
N94-537	2	3	2	1	3	1	1	2	2
SC93-1963	3	2	2	1	3	4	1	1	2
SC94-1000	3	2	1	1	3	3	2	2	2
SC95-1843	4	1	2	1	4	4	1	1	2
SC95-771	2	3	2	1	3	3	1	1	2

TABLE 76 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1999

EAST	
STRAIN/ VARIETY	JACKSON SPRINGS NC
COOK	2
PRI CHARD	2
N96-7031	2
N96-7082	2
N96-7095	2
TCPR96-1215	2
Au94-863	2
Au95-757	2
G90-R1551E	2
G92-2167	2
G92-2388	2
G93-2225	2
G94-3117	2
G95-346	2
N94-537	2
SC93-1963	2
SC94-1000	2
SC95-1843	2
SC95-771	2

TABLE 76 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	FAIRHOPE AL	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	2	1	2	2	1	1	1	1
PRICHARD	2	1	2	2	1	1	1	1
N96-7031	2	1	2	2	1	1	2	2
N96-7082	2	1	2	2	1	1	2	2
N96-7095	2	1	2	2	1	1	1	1
TCPR96-1215	2	1	3	3	1	1	2	2
Au94-863	2	1	2	2	1	1	2	2
Au95-757	2	1	3	2	2	1	2	2
G90-R1551E	2	1	2	2	1	1	2	2
G92-2167	2	1	2	2	1	1	1	1
G92-2388	2	1	3	2	1	1	2	2
G93-2225	2	1	3	2	2	1	1	2
G94-3117	2	1	3	2	1	1	2	2
G95-346	2	1	3	2	2	1	2	2
N94-537	2	1	3	2	3	1	2	2
SC93-1963	2	1	2	2	1	1	1	1
SC94-1000	2	1	2	2	1	1	2	2
SC95-1843	2	1	2	2	1	1	1	1
SC95-771	2	1	2	2	1	1	2	2

PRELIMINARY GROUP VIII

1999

Preliminary Group VIII nurseries were planted at 6 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, 1999

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. COOK	BRAXTON X YOUNG	
2. PRICHARD	COKER 82-622 X HOWARD	
3. N96-6752	N91-7202 X N90-7199	F5
4. N97-10074	N90-7199 X N91-8005	F5
5. N97-9747	N90-7199 X N91-7254	F5
6. N97-9765	N90-7199 X N91-7254	F5
7. N97-9782	N90-7199 X N91-7254	F5
8. N97-9783	N90-7199 X N91-7254	F5
9. N97-9788	N90-7199 X N91-7254	F5
10. Au96-110	N90-1085 X R90-844	F6
11. Au96-121	N90-1085 X R90-844	F6
12. Au96-167	N90-1085 X R90-844	F6
13. Au96-218	N90-1085 X R90-844	F6
14. Au96-304	N90-541 X SC89-216	F6
15. Au96-6	N86-7682 X V88-466	F6
16. G95-1004	G89-375 X Brim	F5
17. G95-1445	P9641 X Bryan	F6
18. G95-210	G86-1434 X G86-1267	F5
19. G95-2567	G86-1434 X HY798	F5
20. G95-2891	G87-1968 X G86-1267	F5
21. G95-553	G86-1434 X G87-1968	F5
22. G96-1797	G86-1434 X Cook	F6
23. N97-10226	N91-7202 X N91-8005	F4
24. N97-10258	N91-7202 X N91-8005	F4
25. N97-984	N90-541 X N90-1101	F6
26. SC96-1415	SC89-181/SC84-931	F5
27. SC96-1574	SC89-181/NK' S S75-55	F5
28. SC96-2118	HASKELL/HOWARD	F5
29. SC96-223	N88-480/HAGOOD	F6
30. SC96-226	N88-480/HAGOOD	F6
31. SC96-2736	HAGOOD/SC84-931	F5
32. SC96-2740	HAGOOD/SC84-931	F5

**TABLE 78 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VIII
1999, MEAN OF 5 LOCATIONS**

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LOGGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----	STEM CANKER	SCN 2	SCN 3	SCN 14	M. I. TN	M. A. TN
COOK	38.3	10/30	2	35	2	15.6	43.8 18.9	R	.	4.3	4.7	1.2	2.4
PRICHARD	42.4	4+	2	33	2	15.5	43.0 19.4	R	.	1.0	3.7	1.3	3.8
N96-6752	36.3	1-	2	28	3	13.9	41.3- 19.8+	S	.	4.8	4.6	3.5	4.0
N97-10074	34.6	1-	2	30	2	13.2	40.6- 20.3+	S	.	5.0	4.5	3.0	4.0
N97-9747	33.7	3+	2	33	2	14.0	43.3 18.7	S	.	5.0	4.4	3.8	3.7
N97-9765	37.9	4+	3	31	2	15.6	42.5- 20.3+	S	.	5.0	4.7	3.7	4.0
N97-9782	36.5	6+	2	31	2	16.1	41.7- 19.8+	S	.	5.0	4.5	3.7	4.0
N97-9783	35.4	0	2	28	2	14.4	43.0 20.0+	S	.	5.0	4.3	3.8	3.7
N97-9788	37.1	3-	2	30	2	13.1	41.4- 20.2+	S	.	4.7	4.9	3.8	4.0
Au96-110	40.7	2+	2	35	2	14.7	42.1- 20.2+	R	.	4.9	5.0	2.3	3.8
Au96-121	40.1	2+	2	33	2	13.7	42.0- 19.8+	S	.	4.6	4.7	3.0	4.0
Au96-167	37.7	2-	1	35	2	14.1	43.0 19.8+	S	.	5.0	5.0	1.8	4.0
Au96-218	39.0	0	2	31	2	14.4	43.8 19.0	S	.	5.0	5.0	2.3	4.2
Au96-304	39.2	1-	1	33	2	14.8	42.1- 20.0+	R	.	5.0	5.0	1.6	3.3
Au96-6	40.8	2-	2	32	2	14.2	41.9- 19.3	S	.	5.0	5.0	4.0	4.0
G95-1004	37.2	2+	1	32	2	17.4	43.0 19.7+	R	.	4.5	4.6	2.3	4.0
G95-1445	35.0	3+	2	31	2	15.9	42.7- 19.4	S	.	1.0	4.7	1.8	2.0
G95-210	37.6	0	2	34	2	13.6	41.0- 18.8	S	.	1.2	5.0	1.5	2.1
G95-2567	39.4	2+	2	33	2	15.1	42.6- 19.8+	S	.	1.0	5.0	1.8	2.0
G95-2891	36.1	1+	2	31	2	15.0	41.4- 19.4	R	.	1.0	5.0	1.8	2.3
G95-553	38.0	1-	2	34	2	12.7	41.3- 19.3	R	.	1.4	5.0	2.2	1.8
G96-1797	40.0	2+	2	36	2	16.5	43.1 19.2	S	.	3.3	5.0	1.8	3.4
N97-10226	33.2	0	1	31	2	13.8	40.6- 20.3+	S	.	5.0	5.0	4.0	3.8
N97-10258	34.8	0	2	30	2	11.8	41.4- 19.5	?	.	5.0	5.0	3.3	3.8
N97-984	39.2	2-	2	33	2	14.6	42.2- 19.9+	R	.	5.0	5.0	4.3	4.0
SC96-1415	37.4	0	2	35	2	12.6	41.5- 19.1	S	.	4.0	5.0	2.2	3.3
SC96-1574	41.1	0	2	34	2	14.9	41.0- 19.9+	R	.	3.0	5.0	2.0	3.8
SC96-2118	39.0	0	2	34	2	14.7	41.9- 19.6+	S	.	3.5	4.8	2.5	1.7
SC96-223	36.9	2+	2	36	2	13.8	42.5- 19.8+	R	.	4.6	5.0	3.8	4.0
SC96-226	40.8	2+	2	34	2	17.6	42.0- 20.1+	S	.	4.0	5.0	1.5	3.8
SC96-2736	42.3	0	2	34	2	14.2	43.1 18.8	S	.	1.4	5.0	1.8	3.7
SC96-2740	40.1	1+	2	36	2	13.2	43.3 19.1	S	.	1.0	4.7	1.3	3.3
OVERALL MEAN	38.1						42.2 19.6						
L. S. D. (.05)	6.7						1.0 0.7						
C. V.	14%						2% 3%						

TABLE 79 - SEED YIELD, IN BUSHEL PER ACRE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1999

STRAIN/ VARIETY	BLACKVILLE SC	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	22.8	35.1	35.7	42.6	55.5	38.3
PRICHARD	23.1	35.5	48.4+	37.8	67.3+	42.4
N96-6752	22.1	28.0	35.1-	40.6	55.7	36.3
N97-10074	20.2	29.7	39.2+	39.1	44.9-	34.6
N97-9747	23.9	38.3	30.5-	33.5	42.4-	33.7
N97-9765	24.3	36.4	52.4+	33.8	42.3-	37.9
N97-9782	26.3	31.2	49.0+	34.0	41.8-	36.5
N97-9783	23.3	39.6	32.8-	39.0	42.4-	35.4
N97-9788	20.7	32.9	53.0+	37.8	41.0-	37.1
Au96-110	24.6	37.6	45.5+	45.2	50.3	40.7
Au96-121	21.8	32.0	47.8+	38.7	60.2	40.1
Au96-167	21.5	37.3	42.6+	38.0	49.1	37.7
Au96-218	20.5	30.5	42.1+	48.8	53.2	39.0
Au96-304	23.8	31.8	50.1+	43.6	46.8	39.2
Au96-6	23.2	31.9	41.5+	41.9	65.5+	40.8
G95-1004	21.0	34.9	38.0+	43.8	48.3	37.2
G95-1445	22.3	28.1	36.9+	37.0	50.6	35.0
G95-210	20.8	29.3	32.3-	42.7	63.0	37.6
G95-2567	25.6	32.9	43.2+	39.7	55.6	39.4
G95-2891	23.7	25.0	35.7	38.2	58.0	36.1
G95-553	25.5	30.6	39.2+	44.5	50.0	38.0
G96-1797	25.5	35.0	38.6+	41.4	59.8	40.0
N97-10226	23.2	28.8	35.1-	37.5	41.1-	33.2
N97-10258	22.5	36.9	38.6+	40.0	36.2-	34.8
N97-984	22.5	31.6	40.9+	46.5	54.4	39.2
SC96-1415	25.7	29.4	37.5+	37.9	56.6	37.4
SC96-1574	24.7	26.3	43.8+	40.5	70.2+	41.1
SC96-2118	24.0	37.8	39.2+	35.9	58.1	39.0
SC96-223	23.5	33.3	42.6+	29.2-	55.7	36.9
SC96-226	24.2	39.0	49.0+	38.7	53.0	40.8
SC96-2736	27.3	37.1	49.0+	38.3	59.9	42.3
SC96-2740	24.8	35.0	42.1+	38.7	60.0	40.1
L. S. D. (0.05)	4.7	10.7	0.0	9.2	9.2	6.7
C. V. (%)	9.9	15.8	18.0	11.4	8.5	14.1

TABLE 80 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1999

STRAIN/ VARIETY	BLACKVILLE SC	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	19.6	18.6	18.1	18.6	19.7	18.9
PRICHARD	19.5	20.0	19.6	18.6	19.5	19.4
N96-6752	20.0	19.8	19.2	19.4	20.4	19.8
N97-10074	21.5	19.9	18.7	20.3	21.3	20.3
N97-9747	18.6	18.2	18.6	18.4	19.5	18.7
N97-9765	20.4	19.7	21.1	19.6	20.9	20.3
N97-9782	20.4	18.5	20.1	18.6	21.3	19.8
N97-9783	20.5	19.7	19.2	19.5	21.2	20.0
N97-9788	20.8	20.1	19.6	19.5	21.1	20.2
Au96-110	20.6	19.6	20.2	19.3	21.3	20.2
Au96-121	20.1	19.5	20.0	19.1	20.2	19.8
Au96-167	20.5	19.5	19.8	18.9	20.5	19.8
Au96-218	19.3	18.1	18.6	18.6	20.2	19.0
Au96-304	20.6	19.6	18.7	19.8	21.3	20.0
Au96-6	19.8	18.7	17.8	19.4	20.6	19.3
G95-1004	19.3	19.5	19.4	19.9	20.6	19.7
G95-1445	19.4	19.2	18.5	19.4	20.5	19.4
G95-210	19.6	18.5	18.2	18.7	19.1	18.8
G95-2567	19.8	19.6	20.1	18.9	20.6	19.8
G95-2891	19.3	19.1	19.2	19.3	20.3	19.4
G95-553	19.2	19.1	19.4	18.9	20.1	19.3
G96-1797	19.4	19.5	18.9	18.5	19.6	19.2
N97-10226	21.1	20.4	19.7	19.3	20.8	20.3
N97-10258	19.7	19.1	18.8	19.8	20.2	19.5
N97-984	20.8	20.2	17.6	19.8	21.3	19.9
SC96-1415	19.9	18.0	18.7	18.5	20.4	19.1
SC96-1574	20.4	19.7	20.0	18.6	20.9	19.9
SC96-2118	20.2	19.6	20.2	18.3	19.8	19.6
SC96-223	20.3	19.1	20.1	19.1	20.5	19.8
SC96-226	19.9	19.3	20.9	19.7	20.9	20.1
SC96-2736	19.0	19.1	19.0	17.6	19.5	18.8
SC96-2740	19.6	18.8	19.3	18.0	19.8	19.1

TABLE 81 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1999

STRAIN/ VARIETY	BLACKVILLE SC	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	42.4	43.7	45.1	43.6	44.3	43.8
PRICHARD	41.7	41.2	44.0	44.0	44.1	43.0
N96-6752	41.0	40.6	42.9	40.9	41.3	41.3
N97-10074	39.2	40.1	43.2	40.1	40.5	40.6
N97-9747	42.3	43.8	43.3	43.3	43.6	43.3
N97-9765	41.0	42.6	42.3	43.3	43.2	42.5
N97-9782	40.2	42.5	42.0	42.8	40.8	41.7
N97-9783	41.3	43.1	45.1	43.1	42.5	43.0
N97-9788	40.4	41.4	42.9	40.3	41.9	41.4
Au96-110	40.8	41.6	42.6	42.8	42.5	42.1
Au96-121	39.9	41.5	42.4	43.2	42.9	42.0
Au96-167	41.8	42.5	44.6	43.6	42.4	43.0
Au96-218	41.8	43.9	45.7	43.8	44.0	43.8
Au96-304	41.1	40.9	44.2	42.1	42.4	42.1
Au96-6	40.4	41.8	43.5	41.0	42.8	41.9
G95-1004	43.2	43.7	43.0	42.3	42.8	43.0
G95-1445	41.9	42.3	44.5	42.5	42.3	42.7
G95-210	38.8	41.3	41.4	41.1	42.4	41.0
G95-2567	41.5	41.5	43.0	43.4	43.7	42.6
G95-2891	40.1	41.2	41.9	41.7	41.9	41.4
G95-553	40.1	41.4	41.7	41.4	41.9	41.3
G96-1797	41.5	42.0	42.9	44.7	44.3	43.1
N97-10226	39.0	39.7	41.9	41.4	41.1	40.6
N97-10258	41.6	41.9	41.3	40.9	41.3	41.4
N97-984	41.3	41.0	44.8	41.0	42.8	42.2
SC96-1415	39.8	41.8	41.9	42.4	41.5	41.5
SC96-1574	39.5	41.0	41.2	41.9	41.3	41.0
SC96-2118	40.5	40.6	42.0	42.8	43.6	41.9
SC96-223	41.3	43.1	42.9	43.0	42.2	42.5
SC96-226	40.6	42.8	41.6	42.8	42.2	42.0
SC96-2736	41.8	42.9	43.2	44.8	42.9	43.1
SC96-2740	41.2	42.8	44.1	44.4	44.0	43.3

TABLE 82 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1999

STRAIN/ VARIETY	BLACKVILLE SC	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	17.6	16.3	13.2	12.7	18.2	15.6
PRICHARD	15.9	16.4	16.0	13.5	15.7	15.5
N96-6752	16.6	15.6	10.8	11.7	14.7	13.9
N97-10074	15.9	15.5	10.2	10.9	13.4	13.2
N97-9747	15.4	17.2	11.2	11.0	15.4	14.0
N97-9765	16.2	17.5	15.4	14.1	14.7	15.6
N97-9782	17.4	18.8	16.2	12.0	16.0	16.1
N97-9783	15.7	16.8	11.6	12.1	15.7	14.4
N97-9788	15.1	15.2	13.4	9.9	11.7	13.1
Au96-110	17.7	17.1	12.2	11.5	15.1	14.7
Au96-121	16.0	14.2	12.4	11.5	14.4	13.7
Au96-167	17.0	15.9	12.0	10.6	15.0	14.1
Au96-218	16.4	15.0	13.8	11.8	14.8	14.4
Au96-304	16.6	16.2	12.0	12.1	17.0	14.8
Au96-6	17.0	15.3	10.4	11.9	16.2	14.2
G95-1004	19.5	16.8	16.4	16.1	18.0	17.4
G95-1445	16.8	15.5	16.0	14.0	17.0	15.9
G95-210	15.8	15.4	10.0	12.3	14.5	13.6
G95-2567	16.1	15.9	13.6	13.1	16.6	15.1
G95-2891	17.2	16.2	11.8	12.8	17.2	15.0
G95-553	14.2	14.4	10.4	11.0	13.6	12.7
G96-1797	17.4	17.2	14.2	15.0	18.9	16.5
N97-10226	17.3	16.2	11.0	10.9	13.6	13.8
N97-10258	14.5	13.8	9.4	10.4	11.0	11.8
N97-984	17.5	16.8	10.0	11.2	17.3	14.6
SC96-1415	14.5	13.7	12.0	9.9	12.8	12.6
SC96-1574	16.2	15.1	13.0	12.5	17.5	14.9
SC96-2118	16.9	15.4	14.2	11.6	15.2	14.7
SC96-223	15.5	14.2	14.4	11.0	14.0	13.8
SC96-226	19.2	19.0	18.0	13.9	18.0	17.6
SC96-2736	16.7	15.9	13.2	11.4	13.7	14.2
SC96-2740	14.7	15.1	12.4	10.4	13.6	13.2

**TABLE 83 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII,
1999**

STRAIN/ VARIETY	BLACKVILLE SC	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	31	28	32	39	46	35
PRICHARD	26	23	34	39	46	33
N96-6752	23	23	24	33	38	28
N97-10074	22	23	30	34	40	30
N97-9747	23	27	32	39	42	33
N97-9765	26	25	32	34	40	31
N97-9782	27	24	31	33	43	31
N97-9783	23	23	26	33	38	28
N97-9788	24	20	27	38	39	30
Au96-110	26	26	33	42	47	35
Au96-121	24	24	32	42	45	33
Au96-167	27	24	34	43	46	35
Au96-218	23	24	27	39	42	31
Au96-304	24	22	30	43	46	33
Au96-6	27	25	32	36	42	32
G95-1004	24	25	29	37	43	32
G95-1445	26	24	29	37	37	31
G95-210	30	28	30	35	49	34
G95-2567	28	28	29	37	44	33
G95-2891	25	24	29	36	43	31
G95-553	25	24	32	39	49	34
G96-1797	31	32	27	44	48	36
N97-10226	22	25	27	39	40	31
N97-10258	23	25	27	34	41	30
N97-984	25	26	27	40	46	33
SC96-1415	32	24	34	41	46	35
SC96-1574	28	25	35	39	46	34
SC96-2118	29	26	33	41	42	34
SC96-223	31	30	34	41	44	36
SC96-226	27	27	33	40	42	34
SC96-2736	28	27	33	40	45	34
SC96-2740	31	29	36	41	43	36

TABLE 84 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1999

STRAIN/ VARIETY	BLACKVILLE SC	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	1	2	2	3	3	2
PRICHARD	1	2	1	3	5	2
N96-6752	1	1	1	3	2	2
N97-10074	1	1	1	3	3	2
N97-9747	1	2	1	3	3	2
N97-9765	1	3	2	3	5	3
N97-9782	1	2	2	3	3	2
N97-9783	1	2	2	4	3	2
N97-9788	1	1	1	3	2	2
Au96-110	1	1	1	2	3	2
Au96-121	1	1	1	3	3	2
Au96-167	1	2	1	2	2	1
Au96-218	1	1	1	3	4	2
Au96-304	1	2	1	2	2	1
Au96-6	1	1	1	3	3	2
G95-1004	1	1	1	2	1	1
G95-1445	1	1	1	3	2	2
G95-210	1	2	1	3	3	2
G95-2567	1	1	1	3	3	2
G95-2891	1	1	1	3	4	2
G95-553	1	2	1	3	4	2
G96-1797	1	2	1	3	2	2
N97-10226	1	1	1	3	1	1
N97-10258	1	2	1	3	2	2
N97-984	1	2	1	3	2	2
SC96-1415	1	1	1	3	3	2
SC96-1574	1	1	1	3	4	2
SC96-2118	1	2	1	4	3	2
SC96-223	1	2	1	3	5	2
SC96-226	1	1	2	2	3	2
SC96-2736	1	2	1	3	4	2
SC96-2740	1	2	2	3	4	2

**TABLE 85 - SEED QUALITY FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII,
1999**

STRAIN/ VARIETY	JACKSON SPRINGS	JAY	PLAINS	TALLASSEE	MEAN
	NC	FL	GA	AL	
COOK	2	3	2	1	2
PRICHARD	2	3	2	1	2
N96-6752	2	4	2	2	3
N97-10074	2	3	2	1	2
N97-9747	2	4	3	1	2
N97-9765	2	3	2	1	2
N97-9782	2	3	2	1	2
N97-9783	2	3	2	2	2
N97-9788	2	3	2	1	2
Au96-110	2	3	2	1	2
Au96-121	2	3	2	1	2
Au96-167	2	2	2	1	2
Au96-218	2	3	2	2	2
Au96-304	2	3	2	1	2
Au96-6	2	3	2	1	2
G95-1004	2	3	2	2	2
G95-1445	2	3	2	1	2
G95-210	2	3	2	1	2
G95-2567	2	3	2	1	2
G95-2891	2	2	3	1	2
G95-553	2	2	2	1	2
G96-1797	2	2	2	2	2
N97-10226	2	3	2	2	2
N97-10258	2	3	2	2	2
N97-984	2	3	2	1	2
SC96-1415	2	2	2	1	2
SC96-1574	2	3	2	1	2
SC96-2118	2	3	2	1	2
SC96-223	2	3	2	1	2
SC96-226	2	2	3	1	2
SC96-2736	2	3	2	1	2
SC96-2740	2	2	2	1	2