

**UNIFORM SOYBEAN TESTS  
SOUTHERN STATES  
1994**

**UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
COOPERATING WITH  
STATE AGRICULTURAL EXPERIMENT STATIONS  
SOUTHERN STATES  
STONEVILLE, MISSISSIPPI**

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# UNIFORM SOYBEAN TESTS

## SOUTHERN STATES

1994

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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 southern 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.

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 standard varieties available of 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 major check varieties are: Manokin, Delsoy 4710, Hutcheson, Bedford, Brim, Lyon, TN6-90, Centennial, Stonewall, Haskell, Braxton, Cook, and Maxcy.

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 Southwest, comprising Arkansas and Louisiana (outside the Delta), and Oklahoma and Texas. In the Southwest area, the potential soybean-growing areas would include the alluvial soils, the Gulf Coast of Louisiana and Texas, and the high plains of Texas. In this area, several of the tests receive supplemental irrigation. A map is included to illustrate the five production areas.

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
D	-	Delta Branch Experiment Station and USDA-ARS
F	-	Florida Agricultural 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
TSB	-	Texas Agricultural Experiment Station, Beaumont, Texas
V	-	Virginia Agricultural Experiment Station

## LOCATION OF SOYBEAN NURSERIES ALONG WITH SOIL TYPE

LOCATION	IV	V	VI	VII	VIII	SOIL
<b>East Coast</b>						
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
Kinston, NC			U	U		Norfolk sandy loam
Jackson Springs, NC				UP	U	Norfolk sandy loam
Florence, SC			U	U	U	Goldsboro sandy loam
<b>Southeast</b>						
Blackville, SC(A)			UP	UP	UP	Faceville sandy loam
Blackville, SC(B)				U	U	Norfolk sandy loam
Tifton, GA			U	U	U	Tifton sandy loam
Tallassee, AL			UP	UP	UP	Cahaba fine s. l.
Quincy, FL			U	U	UP	Orangeburg loamy fine sand
Jay, FL			UP	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
<b>Upper &amp; Central South</b>						
Orange, VA	U	U				Starr silty clay loam
Clemson, SC		U	U	U		Cecil sandy loam
Calhoun, GA		U	U	U		Rome gravelly clay loam
Athens, GA		U	UP	UP	U	Cecil coarse sand loam
Plains, GA					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
Martin, TN	U	U				Falaja silt loam
Jackson, TN		P				Lexington silt loam
Starkville, MS	U	U	U	U		Leeper silty clay
Suffolk, VA		U	U			Lynchburg fine sandy loam
<b>Delta</b>						
Portageville, MO(A)	UP	UP	U			Tiptonville s.l.
Portageville, MO(B)	U	U	U			Sharkey clay
Keiser, AR	UP	UP				Sharkey clay
Marianna, AR	U					Loring silt loam
Jonesboro, AR	U	U	U			Calloway silt loam
Pine Tree, AR	U	U	U			Calloway silt loam
Stoneville, MS(A)	U	UP				Boskett f.s.l.
Stoneville, MS(B)	UP	UP	UP	UP		Sharkey clay
Rohwer, AR			U			Perry clay
St. Joseph, LA		U	U	U		Sharkey clay
<b>West</b>						
Walnut, KS	U					Kenoma silt loam
McCune, KS		U				Parsons silt loam
Pittsburg, KS	UP	UP				Parsons silt loam
Chanute, KS	U	U				Parsons silt loam
Bixby, OK	U	UP	UP			Reinach silt loam
Stuttgart, AR		U	UP			Crowley silt loam
Bossier City, LA		U	U	U		Latanier silt loam
Beaumont, TX			UP	UP	UP	Midland silt loam

U Uniform nursery grown  
P Preliminary nursery grown

## ROW SPACING OF UNIFORM TEST LOCATIONS

LOCATION	ROW SPACING
<b>EAST COAST</b>	
Queenstown, MD	30 inches
Georgetown, DE	20 inches
Warsaw, VA	30 inches
Plymouth, NC	38 inches
Kinston, NC	38 inches
Jackson Springs, NC	38 inches
Florence, SC	38 inches
<b>SOUTHEAST</b>	
Blackville, SC(A)	38 inches
Blackville, SC(B)	38 inches
Tifton, GA	30 inches
Tallassee, AL	30 inches
Quincy, FL	30 inches
Jay, FL	36 inches
Fairhope, AL	30 inches
Baton Rouge, LA	30 inches
<b>UPPER &amp; CENTRAL SOUTH</b>	
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
Ullin, IL	30 inches
Princeton, KY	30 inches
Martin, TN	38 inches
Jackson, TN	30 inches
Starkville, MS	38 inches
Suffolk, VA	20 inches
<b>DELTA</b>	
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(A)	36 inches
Stoneville, MS(B)	36 inches
Rohwer, AR	38 inches
St. Joseph, LA	40 inches
<b>WEST</b>	
Fredonia, KS	30 inches
McCune, KS	30 inches
Ottawa, KS	30 inches
Pittsburg, KS	30 inches
Chanute, KS	30 inches
Bixby, OK	30 inches
Stuttgart, AR	32 inches
Bossier City, LA	40 inches
Beaumont, TX	32 inches

## METHODS

### Cultural Practices

The uniform nurseries were planted in four-row plots with three replications at all locations with the exception of one location which had three-row plots with three replications. The preliminary nurseries were planted similarly with two replications with the exception of one location which had three replications. Row widths at the locations varied from 20 to 40 inches with the majority planted in 30 inch rows. The recommended cultural and management practices were generally followed at each location.

### 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, Brim; UVII and PVII, Stonewall; 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

Aerial web blight. Ratings were made for uniform tests on 9 August (UV and UVI) and 16 August (UVII and UVIII), 1994 at Baton Rouge, Louisiana. The ratings are based on a 0 to 5 scale where 0 = aerial blight symptoms not observed and 5 = all plants affected, including pod loss. The scores reported are the means of two replications.

Frogeye leaf spot. Ratings were made on 20 September (UVI and UVII) at Starkville, Mississippi. Ten leaves were randomly collected from each plot. Each leaf was scored for percent leaf area affected by comparing them to a Leaf Evaluation Guide that had schematics of leaves that exhibited a range of frogeye lesions from 0.5 to 20%. The scores presented are the means of all individual leaf scores across replications for each strain in each maturity group.

Ratings were made on 21 September (UVI) at Belle Mina, Alabama. A visual rating was made on each plot using a 1 to 5 scale where 1 = clean and 5 = severe damage. The scores reported are the means of three replications.

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 UIVS-UVIII and 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, and
- 5 = 91-100% of root system galled with large galls and some root rot.

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

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

The isolates of *M. incognita* race 4 and *M. arenaria* race 2 were obtained from Dr. Gary Windham, USDA-ARS, Mississippi State, MS. 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 3 and 14 ratings reported for UIVS - UVIII 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 the same formula that was used to calculate the root-knot nematode mean ratings.

#### Stem Canker

Mississippi. Strains from UIVS-UVIII and PIVS-PVII were evaluated at the Delta Research and Extension Center, Stoneville, Mississippi. Strains were planted in single-row plots 1.8 m long on 4 April (PIVS and PV), 29 April (UIVS-UVIII), and 16 May (PVI-PVIII) in a Boskett fine sandy loam in a randomized complete block design with four replications. A susceptible line (J77-339) was planted every ten plots. Inoculum was produced by aseptically culturing isolate 90-46 of the fungus on autoclaved toothpicks. Twelve plants per plot were inoculated on 13 June (PIVS, PV, and UIVS-UVIII) and 15 June (PVI-PVIII) by forcing a toothpick through the stem in the upper one-third of the plant. Stem canker lesion development was rated on 6 September (PIVS and PV), 9 September (UIVS-UVIII), and 14 September (PVI-PVIII), after the susceptible check had been killed by the disease.

Strains were assigned a rating based on the mean of four replications using the following scale:

- 1 = resistant (no lesion)
- 2 = moderately resistant (lesion 0-5cm)
- 3 = intermediate reaction (lesion 5-10 cm)
- 4 = moderately susceptible (lesion 10-25 cm)
- 5 = susceptible (lesion > 25 cm)
- 6 = very susceptible (plants dead)

Texas. Strains from UVI-UVIII and PVII-PVIII were evaluated under natural inoculum levels at the Texas Agricultural Research and Extension Center, Beaumont, Texas. The strains were evaluated on 12 September (PVI), 19 September (PVII, UVI, and UVII), and 20 September (PVIII and UVIII). The following rating scale was used:

<u>Score</u>	<u>Description</u>	<u>Reaction</u>
0	No Disease	R
1	Two or three plants dead or dying	MR
2	10% of plants dead or dying	MS
3	20% of plants dead or dying	S
4	35% of plants dead or dying	S
5	50% of plants dead or dying	S
6	65% of plants dead or dying	S
7	85% of plants dead or dying	S
8	95% of plants dead or dying	SS
9	All plants dead	SS

Sudden death syndrome. Soybean sudden death syndrome (SDS) was evaluated for UIVS and UV at Villa Ridge, Illinois, in three replications of four-row plots 24 foot long. Trials were planted 18 May 1994. Percent of plants with visible leaf symptoms were scored weekly during pod fill, and interpolated to the R6 developmental stage (full seed stage). This interpolated score is abbreviated R6DI. Lattice analysis was used to adjust for positional differences in disease pressure, occasionally resulting in values less than 0 or more than 100. The entry with the lowest DI is marked \*\*, and those entries not significantly different from it (LSD test,  $P = 0.1$ ) are marked \*.

Velvetbean Caterpillar. Strains from UVI-UVIII were evaluated for resistance to velvetbean caterpillar at the North Florida Education and Research Center, Quincy, Florida. The strains were planted in six replications of single rows eight foot long. The rows of strains were evaluated for defoliation on 14 September 1994. The following rating scale was used:

1 =	0-10%	defoliation
2 =	11-20%	defoliation
3 =	21-30%	defoliation
4 =	31-40%	defoliation
5 =	41-50%	defoliation
6 =	51-60%	defoliation
7 =	61-70%	defoliation
8 =	71-80%	defoliation
9 =	81-90%	defoliation
10 =	91-100%	defoliation

The scores reported are the mean of the six replicates.

#### 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 low yields or 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 calculated at the same time and are reported in this publication.

**MATURITY**

**GROUP**

**IV-S**



## UNIFORM GROUP IV-S

**1994**

Uniform Group IV-S nurseries were planted at 21 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 - 9.

The cultivar Manokin is the yield and maturity check. It had a mean yield of 48.6 bushels per acre and a mean maturity of October 2 at the 21 locations.

The Kentucky Agricultural Experiment Stations have proposed the release of KY88-4080. KY88-4080 had a mean yield of 50.4 bushels per acre across all locations in 1994. KY88-4080 is resistant to soybean mosaic virus.

The Tennessee Agricultural Experiment Stations have released Tn90-03 as Tn4-94. Tn4-94 had a mean yield of 46.3 bushels per acre across all locations in 1994. Tn4-94 is resistant to soybean cyst nematode races 3 and 14 and moderately resistant to sudden death syndrome.

TABLE 1 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 1994.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 X D74-7824	F5
2. DELSOY 4710	L77-443 X L77-906	F5
3. KY88-4080	K1099 X HUTCHESON	F5
4. LS89-2820	LS77-952 X LS78W-124-1	F5
5. V87-299	ESSEX X V79-2856	F5
6. LS90-1920	ESSEX X FAYETTE	F6
7. MD90-5473	D83-2886 X S82-1443	F5
8. S91-2469	WILLIAMS X PI437654	F4
9. S91-5371-17	WILLIAMS(2) X (FORREST X PI437654)	F5
10. S91-5371-19	WILLIAMS(2) X (FORREST X PI437654)	F5
11. TN90-03	TN4-86 X TN84-87	F6

**Background of lines used as parents:**

<b>D74-7824</b>	is a selection from Forrest X D70-3001. D70-3001 is of the same parentage as Centennial.
<b>D83-2886</b>	is a selection from D65-2262 X Forrest.
<b>K1099</b>	is a selection from K1022 X Essex. K1022 is a selection from Williams X Columbus.
<b>L70-L3048</b>	is a selection from L15 (Wayne Rps) X D64-31146.
<b>L77-443</b>	is a selection from Union X L75-8020. L75-8020 is a Corsoy type resistant to phytophthora rot.
<b>L77-906</b>	is a selection from Williams X PI 209332.
<b>LS77-952</b>	is a selection from Essex X Clark 63.
<b>LS78W-124-1</b>	is a selection from L71L-436 X J74-5.
<b>S82-1443</b>	is a selection from A5424 X Mack.
<b>TN4-86</b>	is a selection from Crawford X Bedford.
<b>TN84-87</b>	is a selection from V75-345 X S76-2229.
<b>V79-2856</b>	is a selection from Hodgson X V73-1899.

TABLE 2 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 1994.

STRAIN/VARIETY	YIELD†			PROTEIN			OIL		
	1994	93-94	92-94	1994	93-94	92-94	1994	93-94	92-94
1. MANOKIN	48.6	45.0	46.1	40.5	40.3	40.0	20.7	20.9	20.8
2. DELSOY 4710	44.6	40.8	41.8	40.8	40.5	40.1	20.0	20.3	20.5
3. KY88-4080	50.4	44.7	45.4	41.8	41.4	41.1	21.0	21.0	21.0
4. LS89-2820	47.8	42.6	.	42.2	41.5	.	18.8	19.0	.
5. V87-299	46.9	41.8	42.3	42.8	42.2	41.9	20.4	20.4	20.5
6. LS90-1920	45.6	.	.	41.8	.	.	20.9	.	.
7. MD90-5473	48.4	.	.	40.1	.	.	20.5	.	.
8. S91-2469	46.0	.	.	42.2	.	.	20.6	.	.
9. S91-5371-17	42.7	.	.	43.1	.	.	20.7	.	.
10. S91-5371-19	43.0	.	.	42.9	.	.	20.7	.	.
11. TN90-03	46.3	.	.	41.0	.	.	20.8	.	.

#### BOTANICAL TRAITS

STRAIN/ VARIETY	FL. COLOR	MAT. DATE	LOG.	HT.	SEED QUALITY	SEED SIZE	PUB. COLOR	POD WALL
1. MANOKIN	W	10/2	2.1	31	1.7	13.4	T	T
2. DELSOY 4710	P	-6	2.4	41	2.4	16.8	T	T
3. KY88-4080	W	-5	1.3	24	1.8	13.1	G	T
4. LS89-2820	P	-1	1.6	33	1.7	12.5	T	T
5. V87-299	P	-8	1.9	41	1.9	15.1	G	T
6. LS90-1920	P	-6	1.8	31	1.8	13.3	T	T
7. MD90-5473	W	-5	2.0	31	1.8	16.1	G	T
8. S91-2469	W	-10	2.3	40	2.2	16.7	T	Br
9. S91-5371-17	S	-11	3.0	37	2.2	17.8	T	Br
10. S91-5371-19	S	-11	3.1	32	2.1	16.7	T	Br
11. TN90-03	P	-3	1.8	43	2.0	14.4	G	Br.

#### PEST REACTIONS

STRAIN/ VARIETY	SDS	STEM CANKER	M.a.	M.a.	M.i.	SCN	SCN
		MS	GA	TN	GA	3	14
1. MANOKIN	5**	1.0	2.8	1.3	1.5	1.0	5.0
2. DELSOY 4710	11*	1.0	3.8	1.5	4.5	1.0	1.4
3. KY88-4080	73	1.0	4.5	1.3	1.5	5.0	4.4
4. LS89-2820	80	1.5	2.3	1.0	1.3	2.4	5.0
5. V87-299	100	4.6	4.5	1.7	4.0	4.9	5.0
6. LS90-1920	30*	1.0	4.0	1.1	1.3	1.1	5.0
7. MD90-5473	91	1.0	5.0	1.9	1.8	1.1	4.3
8. S91-2469	100	1.0	2.5	2.2	4.8	4.9	4.8
9. S91-5371-17	13*	1.0	2.0	1.7	3.0	1.0	1.0
10. S91-5371-19	27*	1.0	2.3	1.6	2.0	1.0	1.0
11. TN90-03	45	3.1	3.3	1.5	2.8	1.6	2.0

† Data from Georgetown, DE (1993); Martin, TN (1992); and Verona, MS (1992) not included in mean.

\* Not significantly different from the most desirable score at p=0.1.

\*\* Most desirable score obtained.

TABLE 3 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1994.

STRAIN/ VARIETY	EAST COAST			MEAN
	GEORGETOWN DE	QUEENSTOWN MD	WARSAW VA	
MANOKIN	35.1	53.6	58.1	49.0
DELSOY 4710	39.2	58.7	48.9	48.9
KY88-4080	32.1	62.9	57.9	51.0
LS89-2820	33.7	55.4	54.7	47.9
V87-299	37.0	62.3	55.4	51.6
LS90-1920	26.4	56.6	50.2	44.4
MD90-5473	35.2	52.9	55.3	47.8
S91-2469	37.9	56.1	50.7	48.2
S91-5371-17	29.6	51.7	47.3	42.9
S91-5371-19	44.5	50.2	51.4	48.7
TN90-03	24.3	50.0	55.4	43.2
Overall Mean	34.1	55.5	53.2	47.6
L.S.D. (0.05)	5.3	5.2	6.6	
C.V. (%)	9.1	5.5	7.3	

STRAIN/ VARIETY	UPPER AND CENTRAL SOUTH						MEAN
	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARK- VILLE MS	ULLIN IL	
MANOKIN	70.3	54.9	34.4	51.2	32.8	61.3	50.8
DELSOY 4710	59.8	41.1	37.2	45.3	36.5	57.2	46.2
KY88-4080	72.6	51.1	43.0	51.4	36.3	65.6	53.3
LS89-2820	58.7	50.5	42.0	46.1	34.6	59.0	48.5
V87-299	69.6	41.4	43.5	46.6	36.1	60.7	49.7
LS90-1920	72.0	43.4	38.4	43.8	34.4	63.4	49.2
MD90-5473	65.4	53.5	41.2	53.6	36.9	61.0	51.9
S91-2469	64.5	36.7	41.2	43.3	34.3	57.5	46.3
S91-5371-17	62.6	30.1	37.1	42.1	32.2	55.7	43.3
S91-5371-19	52.2	30.8	35.9	43.9	31.7	63.8	43.0
TN90-03	59.8	47.4	40.1	45.8	39.7	58.7	48.6
Overall Mean	64.3	43.7	39.5	46.6	35.0	60.2	48.3
L.S.D. (0.05)	8.9	12.7	8.5	6.7	7.2	8.8	
C.V. (%)	8.1	17.1	12.7	8.5	12.1	8.6	

TABLE 3 - (Continued).

DELTA									
STRAIN/ VARIETY	JONES- BORO AR	KEISER AR	MARI- ANNA AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
MANOKIN	37.3	70.4	43.6	37.0	56.1	65.0	42.8	39.5	49.0
DELSOY 4710	36.9	58.2	43.8	33.7	45.8	52.3	41.9	35.1	43.5
KY88-4080	36.6	69.2	52.8	28.6	52.4	48.5	47.8	48.0	48.0
LS89-2820	38.0	68.2	53.6	34.0	45.8	54.1	45.1	46.5	48.2
V87-299	35.4	69.1	39.5	26.4	44.3	47.4	43.8	37.4	42.9
LS90-1920	36.8	62.0	46.0	24.4	44.3	52.9	45.3	42.2	44.2
MD90-5473	34.4	65.1	46.7	29.4	54.8	58.5	45.0	44.3	47.3
S91-2469	37.9	67.6	36.4	29.5	42.1	54.8	45.2	42.0	44.4
S91-5371-17	35.8	60.8	48.3	28.0	42.3	47.9	43.4	38.0	43.1
S91-5371-19	33.5	60.6	46.0	29.6	39.2	53.0	41.5	38.9	42.8
TN90-03	34.4	62.4	47.3	37.8	50.1	56.4	39.2	44.3	46.5
Overall Mean	36.1	64.9	45.8	30.8	47.0	53.7	43.7	41.5	45.4
L.S.D. (0.05)	8.7	8.3	5.6	6.4	4.7	5.1	6.8	6.9	
C.V. (%)	14.1	7.5	7.1	12.2	5.8	5.5	9.1	9.8	

WEST					
STRAIN/ VARIETY	BIXBY OK	CHANUTE KS	PITTS- BURG KS	WALNUT KS	MEAN
MANOKIN	48.7	29.2	49.0	50.5	44.4
DELSOY 4710	46.8	29.2	42.5	45.6	41.1
KY88-4080	60.2	36.2	50.9	54.8	50.5
LS89-2820	60.8	27.6	48.8	46.7	46.0
V87-299	56.3	32.8	46.8	53.9	47.5
LS90-1920	51.1	31.8	46.8	45.6	43.8
MD90-5473	51.0	34.7	48.8	49.9	46.1
S91-2469	54.5	34.3	48.5	51.1	47.1
S91-5371-17	51.7	25.3	40.1	45.9	40.7
S91-5371-19	46.6	26.9	37.3	46.4	39.3
TN90-03	51.7	35.5	46.5	46.3	45.0
Overall Mean	52.7	31.2	46.0	48.8	44.7
L.S.D. (0.05)	6.0	5.5	5.8	4.3	
C.V. (%)	6.7	10.4	7.3	5.2	

TABLE 4 - SEED YIELD, EXPRESSED AS A PERCENTAGE OF THE LOCATION MEAN, FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1994.

STRAIN/ VARIETY	EAST COAST			MEAN
	GEORGETOWN DE	QUEENSTOWN MD	WARSAW VA	
MANOKIN	102.9	96.6	109.2	102.9
DELSOY 4710	115.0	105.8	91.9	102.7
KY88-4080	94.1	113.3	108.8	107.1
LS89-2820	98.8	99.8	102.8	100.6
V87-299	108.5	112.3	104.1	108.4
LS90-1920	77.4	102.0	94.4	93.3
MD90-5473	103.2	95.3	103.9	100.4
S91-2469	111.1	101.1	95.3	101.3
S91-5371-17	86.8	93.2	88.9	90.1
S91-5371-19	130.5	90.5	96.6	102.3
TN90-03	71.3	90.1	104.1	90.8
MEAN (bu/ac)	34.1	55.5	53.2	47.6

STRAIN/ VARIETY	SOUTHEAST						MEAN
	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PRINCE- TON KY	STARK- VILLE MS	ULLIN IL	
MANOKIN	109.3	125.6	87.1	109.9	93.7	101.8	105.2
DELSOY 4710	93.0	94.1	94.2	97.2	104.3	95.0	95.7
KY88-4080	112.9	116.9	108.9	110.3	103.7	109.0	110.4
LS89-2820	91.3	115.6	106.3	98.9	98.9	98.0	100.4
V87-299	108.2	94.7	110.1	100.0	103.1	100.8	102.9
LS90-1920	112.0	99.3	97.2	94.0	98.3	105.3	101.9
MD90-5473	101.7	122.4	104.3	115.0	105.4	101.3	107.5
S91-2469	100.3	84.0	104.3	92.9	98.0	95.5	95.9
S91-5371-17	97.4	68.9	93.9	90.3	92.0	92.5	89.6
S91-5371-19	81.2	70.5	90.9	94.2	90.6	106.0	89.0
TN90-03	93.0	108.5	101.5	98.3	113.4	97.5	100.6
MEAN (bu/ac)	64.3	43.7	39.5	46.6	35.0	60.2	48.3

TABLE 4 - (Continued).

DELTA									
STRAIN/ VARIETY	JONES- BORO AR	KEISER AR	MARI- ANNA AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
MANOKIN	103.3	108.5	95.2	120.1	119.4	121.0	97.9	95.2	107.9
DELSOY 4710	102.2	89.7	95.6	109.4	97.4	97.4	95.9	84.6	95.8
KY88-4080	101.4	106.6	115.3	92.9	111.5	90.3	109.4	115.7	105.7
LS89-2820	105.3	105.1	117.0	110.4	97.4	100.7	103.2	112.0	106.2
V87-299	98.1	106.5	86.2	85.7	94.3	88.3	100.2	90.1	94.5
LS90-1920	101.9	95.5	100.4	79.2	94.3	98.5	103.7	101.7	97.4
MD90-5473	95.3	100.3	102.0	95.5	116.6	108.9	103.0	106.7	104.2
S91-2469	105.0	104.2	79.5	95.8	89.6	102.0	103.4	101.2	97.8
S91-5371-17	99.2	93.7	105.5	90.9	90.0	89.2	99.3	91.6	94.9
S91-5371-19	92.8	93.4	100.4	96.1	83.4	98.7	95.0	93.7	94.3
TN90-03	95.3	96.1	103.3	122.7	106.6	105.0	89.7	106.7	102.4
MEAN (bu/ac)	36.1	64.9	45.8	30.8	47.0	53.7	43.7	41.5	45.4

WEST					
STRAIN/ VARIETY	BIXBY OK	CHANUTE KS	PITTS- BURG KS	WALNUT KS	MEAN
MANOKIN	92.4	93.6	106.5	103.5	99.3
DELSOY 4710	88.8	93.6	92.4	93.4	91.9
KY88-4080	114.2	116.0	110.7	112.3	113.0
LS89-2820	115.4	88.5	106.1	95.7	102.9
V87-299	106.8	105.1	101.7	110.5	106.3
LS90-1920	97.0	101.9	101.7	93.4	98.0
MD90-5473	96.8	111.2	106.1	102.3	103.1
S91-2469	103.4	109.9	105.4	104.7	105.4
S91-5371-17	98.1	81.1	87.2	94.1	91.1
S91-5371-19	88.4	86.2	81.1	95.1	87.9
TN90-03	98.1	113.8	101.1	94.9	100.7
MEAN (bu/ac)	52.7	31.2	46.0	48.8	44.7

TABLE 5 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1994.

STRAIN/ VARIETY	BIXBY OK	CHA- NUTE KS	JONES- BORO AR	KEI- SER AR	KNOX- VILLE TN	MARI- ANNA AR	MAR- TIN TN	ORANGE VA	PINE- TREE AR	POR- TAGE- VILLE MO(A)
OIL PERCENTAGE										
MANOKIN	.	.	.	20.7	20.1	20.4	20.7	20.6	.	21.2
DELSOY 4710	.	.	.	20.7	12.0	20.8	20.4	20.4	.	21.6
KY88-4080	.	.	.	21.1	20.7	21.3	21.3	19.8	.	21.1
LS89-2820	.	.	.	19.3	19.3	9.8	19.7	19.2	.	20.3
V87-299	.	.	.	20.4	20.1	20.4	20.3	20.1	.	20.7
LS90-1920	.	.	.	20.6	20.4	20.7	20.7	20.8	.	21.7
MD90-5473	.	.	.	20.8	20.0	20.2	21.2	19.1	.	20.9
S91-2469	.	.	.	20.6	20.1	21.1	19.9	20.6	.	21.2
S91-5371-17	.	.	.	20.4	20.4	20.8	20.1	20.5	.	21.5
S91-5371-19	.	.	.	20.8	20.5	20.2	19.8	20.7	.	21.5
TN90-03	.	.	.	20.8	19.7	20.7	21.1	20.9	.	21.4
PROTEIN PERCENTAGE										
MANOKIN	.	.	.	39.6	41.3	41.4	39.4	33.3	.	38.9
DELSOY 4710	.	.	.	40.5	40.8	41.6	41.7	37.5	.	39.3
KY88-4080	.	.	.	42.2	42.7	42.4	41.1	38.7	.	40.4
LS89-2820	.	.	.	42.5	43.2	43.4	41.2	36.1	.	39.9
V87-299	.	.	.	43.5	43.0	41.8	43.0	39.7	.	40.1
LS90-1920	.	.	.	41.4	42.5	42.1	43.0	35.9	.	39.9
MD90-5473	.	.	.	40.0	42.2	41.3	37.4	35.7	.	39.7
S91-2469	.	.	.	41.8	42.7	41.1	42.0	37.9	.	39.7
S91-5371-17	.	.	.	42.8	43.1	43.2	44.3	39.1	.	40.4
S91-5371-19	.	.	.	42.8	43.4	43.6	43.7	38.7	.	39.2
TN90-03	.	.	.	41.1	41.7	41.6	40.8	36.4	.	38.5
GRAMS PER 100 SEED										
MANOKIN	15.3	11.7	11.8	14.7	13.9	13.3	17.1	11.5	13.5	12.0
DELSOY 4710	18.1	16.6	15.7	17.5	17.7	17.5	17.9	15.5	18.6	15.2
KY88-4080	14.7	13.3	13.0	13.9	13.7	14.0	14.4	12.4	13.0	12.1
LS89-2820	14.2	10.6	11.5	13.8	12.7	13.2	14.4	10.9	13.1	11.3
V87-299	16.9	14.9	14.0	17.2	15.1	14.1	15.3	13.9	15.3	12.6
LS90-1920	15.1	12.2	13.5	15.0	13.1	13.8	12.3	12.2	12.7	12.3
MD90-5473	18.0	14.5	15.0	18.1	15.9	17.3	14.3	15.9	15.3	15.2
S91-2469	20.2	17.4	14.5	18.9	16.3	15.5	14.8	16.4	17.1	14.2
S91-5371-17	19.8	18.2	15.1	19.7	18.1	19.0	14.3	16.6	17.7	15.4
S91-5371-19	16.9	15.8	14.9	19.1	16.0	17.5	17.0	15.5	17.1	14.1
TN90-03	17.1	14.8	13.1	15.6	12.7	15.0	13.7	14.1	16.3	13.0



TABLE 5 - (Continued).

STRAIN/ VARIETY	POR- TAGE- VILLE MO(B)	PRINCE- TON KY	QUEENS- TOWN MD	STARK- VILLE MS	STONE- VILLE MS(A)	STONE- VILLE MS(B)	ULLIN IL	WARSAW VA	MEAN
OIL PERCENTAGE									
MANOKIN	.	20.8	.	21.0	20.5	21.5	19.9	20.7	20.7
DELSOY 4710	.	20.7	.	21.1	20.6	21.0	20.0	21.1	20.0
KY88-4080	.	21.8	.	20.8	20.7	21.5	20.3	21.1	21.0
LS89-2820	.	20.0	.	19.9	19.4	19.9	18.9	19.4	18.8
V87-299	.	20.0	.	20.5	20.5	21.0	20.2	20.2	20.4
LS90-1920	.	20.6	.	21.0	21.1	21.5	20.4	21.1	20.9
MD90-5473	.	20.3	.	21.1	21.2	21.7	19.8	20.0	20.5
S91-2469	.	20.7	.	21.2	19.8	20.9	20.7	20.8	20.6
S91-5371-17	.	20.5	.	21.1	20.4	21.5	20.5	20.7	20.7
S91-5371-19	.	20.3	.	21.1	20.7	21.2	20.5	20.6	20.7
TN90-03	.	21.0	.	20.7	20.8	21.2	20.3	21.3	20.8
PROTEIN PERCENTAGE									
MANOKIN	.	38.8	.	46.4	44.7	42.5	39.9	39.9	40.5
DELSOY 4710	.	39.6	.	44.2	42.6	40.3	40.3	41.1	40.8
KY88-4080	.	38.8	.	45.0	44.6	42.0	41.4	42.6	41.8
LS89-2820	.	40.6	.	46.5	44.2	42.5	42.9	43.7	42.2
V87-299	.	42.6	.	45.5	45.1	43.2	42.7	43.5	42.8
LS90-1920	.	40.9	.	45.8	44.7	42.1	41.3	41.5	41.8
MD90-5473	.	38.2	.	41.3	43.3	41.0	40.2	41.3	40.1
S91-2469	.	41.6	.	47.6	43.7	42.8	42.2	43.3	42.2
S91-5371-17	.	41.4	.	46.7	45.0	43.4	42.7	44.6	43.1
S91-5371-19	.	41.9	.	46.8	44.4	43.1	42.8	44.0	42.9
TN90-03	.	40.7	.	43.6	43.2	41.4	41.2	41.7	41.0
GRAMS PER 100 SEED									
MANOKIN	12.0	13.6	13.0	.	.	.	13.5	14.1	13.4
DELSOY 4710	13.9	16.7	17.3	.	.	.	17.1	16.6	16.8
KY88-4080	11.8	12.2	12.7	.	.	.	12.7	12.2	13.1
LS89-2820	11.4	12.9	12.0	.	.	.	12.1	12.9	12.5
V87-299	13.1	14.5	16.7	.	.	.	15.8	16.7	15.1
LS90-1920	12.9	12.9	13.0	.	.	.	13.1	14.7	13.3
MD90-5473	15.4	15.6	16.8	.	.	.	15.0	18.9	16.1
S91-2469	14.8	16.2	18.1	.	.	.	17.3	19.0	16.7
S91-5371-17	16.3	17.5	19.4	.	.	.	19.1	20.3	17.8
S91-5371-19	15.6	16.2	17.7	.	.	.	18.3	18.9	16.7
TN90-03	12.6	14.8	14.4	.	.	.	13.4	14.8	14.4

TABLE 6 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN MANOKIN FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1994.

EAST COAST				
STRAIN/ VARIETY	GEORGETOWN DE	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	10/04	10/13	10/08	10/08
DELROY 4710	-5	-3	-7	-5
KY88-4080	-4	-3	-8	-5
LS89-2820	2	3	1	2
V87-299	-5	-2	-3	-3
LS90-1920	-7	-4	-6	-5
MD90-5473	-11	0	1	-3
S91-2469	-6	-5	-6	-5
S91-5371-17	-9	-5	-7	-7
S91-5371-19	-7	-5	-8	-6
TN90-03	-3	1	-1	-1

UPPER AND CENTRAL SOUTH							
STRAIN/ VARIETY	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PRINCE- TON KY	STARK- VILLE MS	ULLIN IL	MEAN
MANOKIN	09/27	10/06	10/15	10/07	09/12	10/05	10/02
DELROY 4710	-7	0	-8	-9	-3	-8	-6
KY88-4080	-3	0	-3	-7	-6	-7	-4
LS89-2820	-2	0	3	0	0	-2	0
V87-299	-8	0	-7	-8	-11	-9	-7
LS90-1920	-1	-3	-6	-8	-3	-4	-4
MD90-5473	-6	0	-2	-4	-3	-5	-3
S91-2469	-11	-3	-8	-14	-17	-14	-11
S91-5371-17	-11	-3	-10	-17	-13	-13	-11
S91-5371-19	-13	0	-13	-16	-13	-14	-12
TN90-03	-3	0	-3	-4	0	-6	-3

TABLE 6 - (Continued).

DELTA									
STRAIN/ VARIETY	JONES- BORO AR	KEISER AR	MARI- ANNA AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
MANOKIN	09/26	10/01	09/26	09/25	10/03	10/06	09/22	09/15	09/27
DELSOY 4710	-7	-7	-4	-4	-9	-15	-12	-4	-8
KY88-4080	-7	-8	-5	-1	-7	-8	-13	-3	-7
LS89-2820	0	-3	-2	1	-3	-3	-10	0	-3
V87-299	-14	-8	-9	-7	-17	-18	-17	-10	-13
LS90-1920	-10	-10	-5	-3	-11	-12	-11	-2	-8
MD90-5473	-6	-7	-6	-2	-8	-7	-12	-3	-7
S91-2469	-16	-12	-11	-7	-17	-16	-19	-6	-13
S91-5371-17	-20	-15	-10	-9	-18	-18	-19	-10	-15
S91-5371-19	-20	-12	-9	-9	-16	-20	-19	-10	-15
TN90-03	0	-2	-3	0	-4	-6	-10	-1	-3

WEST		
STRAIN/VARIETY	BIXBY OK	MEAN
MANOKIN	10/25	10/25
DELSOY 4710	0	0
KY88-4080	2	2
LS89-2820	2	2
V87-299	2	2
LS90-1920	2	2
MD90-5473	5	5
S91-2469	2	2
S91-5371-17	0	0
S91-5371-19	0	0
TN90-03	--	--

TABLE 7 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1994.

STRAIN/ VARIETY	EAST COAST			MEAN
	GEORGETOWN DE	QUEENSTOWN MD	WARSAW VA	
MANOKIN	31	32	39	34
DELSOY 4710	39	43	47	43
KY88-4080	10	25	33	23
LS89-2820	32	31	44	36
V87-299	35	42	46	41
LS90-1920	30	31	35	32
MD90-5473	27	28	42	32
S91-2469	37	43	45	42
S91-5371-17	30	36	42	36
S91-5371-19	33	41	38	37
TN90-03	23	48	52	41

STRAIN/ VARIETY	UPPER AND CENTRAL SOUTH						MEAN
	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PRINCE- TON KY	STARK- VILLE MS	ULLIN IL	
MANOKIN	29	33	26	30	24	36	30
DELSOY 4710	41	42	31	39	37	50	40
KY88-4080	27	20	25	23	20	26	23
LS89-2820	36	34	31	32	25	40	33
V87-299	36	44	41	39	34	49	41
LS90-1920	33	34	31	31	24	35	32
MD90-5473	35	32	28	31	28	34	31
S91-2469	39	41	38	37	33	49	40
S91-5371-17	39	36	33	30	33	41	35
S91-5371-19	40	35	33	34	30	48	37
N90-03	41	38	38	41	38	54	42

TABLE 7 - (Continued).

DELTA									
STRAIN/ VARIETY	JONES- BORO AR	KEISER AR	MARI- ANNA AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
MANOKIN	23	28	27	32	34	30	30	24	28
DELSOY 4710	42	45	48	43	48	39	43	41	44
KY88-4080	19	23	22	20	30	20	21	22	12
LS89-2820	30	34	35	30	31	29	26	29	31
V87-299	42	44	45	39	42	35	37	39	40
LS90-1920	28	28	30	28	26	26	25	27	27
MD90-5473	25	30	24	28	31	29	26	31	28
S91-2469	44	46	43	38	42	38	41	39	41
S91-5371-17	38	42	40	35	45	41	38	35	39
S91-5371-19	35	44	40	38	43	40	37	37	39
TN90-03	50	54	48	42	43	42	46	39	46

WEST					
STRAIN/ VARIETY	BIXBY OK	CHANUTE KS	PITTSBURG KS	WALNUT KS	MEAN
MANOKIN	26	32	35	42	34
DELSOY 4710	32	35	39	46	38
KY88-4080	27	27	26	33	28
LS89-2820	34	33	37	41	36
V87-299	39	38	42	44	41
LS90-1920	31	34	36	43	36
MD90-5473	34	33	36	43	36
S91-2469	40	36	35	39	38
S91-5371-17	35	32	32	39	35
S91-5371-19	38	36	34	36	36
TN90-03	44	34	41	44	41

TABLE 8 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1994.

STRAIN/ VARIETY	EAST COAST			MEAN
	GEORGETOWN DE	QUEENSTOWN MD	WARSAW VA	
MANOKIN	2.0	3.2	2.5	2.6
DELROY 4710	3.7	3.7	3.3	3.6
KY88-4080	2.2	1.5	1.5	1.7
LS89-2820	2.5	2.3	2.5	2.4
V87-299	2.0	3.5	2.3	2.6
LS90-1920	2.3	3.0	2.3	2.5
MD90-5473	2.2	2.3	2.7	2.4
S91-2469	2.6	3.5	3.3	3.2
S91-5371-17	2.5	4.0	3.8	3.4
S91-5371-19	2.3	3.9	3.7	3.3
TN90-03	2.2	3.2	2.5	2.6

STRAIN/ VARIETY	UPPER AND CENTRAL SOUTH						MEAN
	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PRINCE- TON KY	STARK- VILLE MS	ULLIN IL	
MANOKIN	3.5	1.0	3.0	1.0	2.0	2.7	2.2
DELROY 4710	4.3	2.0	2.3	2.0	2.0	3.7	2.7
KY88-4080	1.7	1.0	1.3	1.0	1.0	1.0	1.2
LS89-2820	2.7	1.0	2.7	1.0	1.0	1.0	1.6
V87-299	2.7	2.0	2.3	1.0	2.0	2.3	2.1
LS90-1920	2.0	1.0	2.7	1.3	1.7	1.0	1.6
MD90-5473	3.2	5.0	1.7	1.0	2.0	1.0	2.3
S91-2469	4.2	1.0	2.0	1.0	2.7	4.7	2.6
S91-5371-17	4.8	1.0	2.7	1.7	3.0	4.8	3.0
S91-5371-19	4.5	2.0	3.0	1.7	3.0	5.0	3.2
TN90-03	3.3	1.0	1.7	1.0	2.0	2.7	1.9

TABLE 8 - (Continued).

DELTA									
STRAIN/ VARIETY	JONES- BORO AR	KEISER AR	MARI- ANNA AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
MANOKIN	1.0	1.7	1.5	2.0	1.0	1.5	2.0	2.0	1.6
DELSOY 4710	1.7	2.3	3.3	2.0	1.5	2.5	3.0	2.0	2.3
KY88-4080	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.3
LS89-2820	1.0	1.3	1.0	1.3	1.0	1.0	2.0	2.0	1.3
V87-299	1.7	2.0	3.0	2.0	1.0	1.0	2.0	2.3	1.9
LS90-1920	1.0	1.0	1.7	1.0	1.0	1.0	2.0	2.0	1.3
MD90-5473	1.0	1.3	1.0	1.3	1.5	1.0	2.0	2.0	1.4
S91-2469	2.0	2.3	3.3	1.7	1.0	1.5	2.0	2.0	2.0
S91-5371-17	3.0	2.3	4.7	2.7	2.0	3.0	3.0	3.0	3.0
S91-5371-19	2.7	3.0	4.3	3.3	1.5	3.5	3.0	3.0	3.0
TN90-03	1.0	2.3	2.3	1.7	1.0	1.0	2.3	2.0	1.7

WEST						
STRAIN/ VARIETY	CHANUTE KS	PITTSBURG KS	WALNUT KS	BIXBY OK	MEAN	
MANOKIN	2.0	3.0	4.0	--	3.0	
DELSOY 4710	1.7	1.3	1.7	1.0	1.4	
KY88-4080	1.0	1.0	1.0	--	1.0	
LS89-2820	1.3	1.0	3.0	--	1.8	
V87-299	1.3	1.0	2.0	1.0	1.3	
LS90-1920	2.3	2.0	4.0	2.0	2.6	
MD90-5473	1.7	2.0	3.7	3.0	2.6	
S91-2469	1.7	1.0	2.7	3.0	2.1	
S91-5371-17	2.0	2.3	3.3	4.0	2.9	
S91-5371-19	2.0	2.0	3.7	4.0	2.9	
TN90-03	1.0	1.0	1.7	2.0	1.4	

TABLE 9 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1994.

STRAIN/ VARIETY	EAST COAST			MEAN
	GEORGETOWN DE	QUEENSTOWN MD	WARAW VA	
MANOKIN	1.2	1.0	1.3	1.2
DELSOY 4710	1.7	1.5	2.3	1.8
KY88-4080	1.7	1.0	1.2	1.3
LS89-2820	1.0	1.0	1.4	1.1
V87-299	1.3	1.0	1.4	1.2
LS90-1920	1.2	1.0	1.3	1.2
MD90-5473	1.2	1.0	1.4	1.2
S91-2469	1.0	1.5	2.1	1.5
S91-5371-17	1.3	1.8	2.5	1.9
S91-5371-19	1.3	1.3	2.3	1.7
TN90-03	1.3	1.0	1.9	1.4

STRAIN/ VARIETY	UPPER AND CENTRAL SOUTH					MEAN
	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	ULLIN IL	
MANOKIN	1.5	2.0	1.0	3.0	1.3	1.8
DELSOY 4710	3.0	3.0	1.5	3.0	2.7	2.6
KY88-4080	1.0	2.0	1.0	5.0	1.0	2.0
LS89-2820	2.0	2.0	1.0	3.0	1.0	1.8
V87-299	1.5	2.0	1.0	4.0	1.7	2.0
LS90-1920	1.5	3.0	1.0	4.0	1.3	2.2
MD90-5473	1.0	3.0	1.0	5.0	1.5	2.3
S91-2469	2.5	3.0	1.5	3.0	2.0	2.4
S91-5371-17	3.0	3.0	1.2	3.0	2.7	2.6
S91-5371-19	3.0	3.0	1.0	3.0	2.0	2.4
TN90-03	1.5	2.0	1.0	4.0	1.7	2.0



TABLE 9 - (Continued).

DELTA							
STRAIN/ VARIETY	JONES- BORO AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
MANOKIN	2.3	1.0	1.0	1.5	2.0	2.3	1.7
DELSOY 4710	3.3	2.0	2.0	2.0	2.3	2.7	2.4
KY88-4080	2.3	1.3	1.5	1.5	2.0	2.0	1.8
LS89-2820	2.7	1.3	2.0	1.5	2.0	2.3	2.0
V87-299	2.7	1.7	1.5	1.5	2.0	2.0	1.9
LS90-1920	2.3	1.3	1.0	1.0	2.0	2.0	1.6
MD90-5473	1.3	1.0	1.0	1.0	2.0	2.0	1.4
S91-2469	3.3	1.7	1.5	2.0	2.3	2.0	2.1
S91-5371-17	3.3	1.3	1.5	2.0	2.0	2.0	2.0
S91-5371-19	2.7	1.7	1.5	2.0	2.0	3.0	2.1
TN90-03	3.3	1.7	1.5	2.0	2.0	2.0	2.1

WEST		
STRAIN/VARIETY	CHANUTE KS	MEAN
MANOKIN	3.0	3.0
DELSOY 4710	3.0	3.0
KY88-4080	2.0	2.0
LS89-2820	2.0	2.0
V87-299	3.0	3.0
LS90-1920	3.0	3.0
MD90-5473	3.0	3.0
S91-2469	3.0	3.0
S91-5371-17	3.0	3.0
S91-5371-19	2.0	2.0
TN90-03	3.0	3.0

**PRELIMINARY GROUP IV-S****1994**

Preliminary Group IV-S nurseries were planted at 8 locations. Data were obtained from all of these locations. The parentage for each strain is reported in Table 10. Table 11 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 12 -18.

The cultivar Manokin is the yield and maturity check. It had a mean yield of 53.6 bushels per acre and a mean maturity of October 3 at the 8 locations.

TABLE 10 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 1994.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 X D74-7824	F5
2. DELSOY 4710	L77-443 X L77-906	F5
3. F91-3074	F85-1335 X F83-4648	F6
4. F91-3076	F85-1335 X F83-4648	F6
5. K1303	HAMILTON X N83-375	F5
6. K1304	K1133 X FLYER	F5
7. K1305	K1154 X N84-507	F5
8. K1306	RANDOM MATED POPULATIONS	F5
9. K1307	K1133 X R85-3309	F5
10. KY91-0151	PIONEER 9442 X NORTHRUP KING S42-40	F5
11. KY91-1037	ASGROW A4393 X HUTCHESON	F5
12. KY91-1059	ASGROW A4393 X HUTCHESON	F5
13. LS91-0925	LS79-W330 X FAYETTE	F5
14. MD91-5247	MD83-5198 X FLYER	F5
15. MD91-5313	MANOKIN X MD-MBB84-20	F5
16. MD91-5882	SPENCER X STAFFORD	F5
17. R91-4256	NAROW X WILLIAMS 82	F5
18. R91-4425	NAROW X WILLIAMS 82	F5
19. S92-2701	WILLIAMS(2) X (FORREST X PI437654)	F5
20. S92-2702	WILLIAMS(2) X (FORREST X PI437654)	F5
21. S92-2712	WILLIAMS(2) X (FORREST X PI437654)	F5
22. S92-2713	WILLIAMS(2) X (FORREST X PI437654)	F5
23. S92-2715	WILLIAMS(2) X (FORREST X PI437654)	F6
24. TN90-112	TN83-6 X TN83-22	F7
25. TN91-07	TN4-86 X TN83-22	F8
26. TN91-13	TN83-6 X TN83-22	F8
27. TN91-55	TN4-86 X TN83-67	F8
28. V90-454	STAFFORD X AVERY	F4
29. V90-798	HUTCHESON X 9441	F4
30. V90-848	HUTCHESON X 9441	F4

TABLE 11 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 1994.

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	HT.	OIL	PRO- TEIN	SEED SIZE	LODGE- ING	SEED QUALITY
MANOKIN	53.6	10/03	29	20.5	41.3	13.9	2.0	1.5
DELSOY 4710	52.0	5-	43	20.5	41.0	17.5	2.4	1.8
F91-3074	45.6-	1+	38	20.3	41.5	15.0	2.3	1.5
F91-3076	51.3	1-	38	20.3	42.4+	15.6	1.8	1.9
K1303	53.6	10-	38	20.9	42.9+	16.1	1.5	1.9
K1304	52.6	1-	33	20.7	41.5	10.9	2.1	1.6
K1305	53.5	2+	31	20.6	40.8	13.5	1.9	1.7
K1306	50.6	8-	39	21.0	42.3	14.5	1.9	1.5
K1307	52.6	1+	32	20.7	39.3-	12.8	1.8	1.7
KY91-0151	51.6	13-	35	21.5	41.1	15.3	1.7	1.9
KY91-1037	54.4	6-	38	21.4	41.4	17.8	1.6	1.8
KY91-1059	50.1	3-	42	21.4	42.1	17.8	2.0	2.0
LS91-0925	49.6	2-	29	21.2	41.4	13.1	1.8	1.9
MD91-5247	51.9	10-	37	21.0	42.0	14.6	1.8	1.7
MD91-5313	48.6-	2-	31	20.1	41.3	12.8	1.7	1.6
MD91-5882	50.6	8-	40	21.3	42.3	17.0	1.8	2.2
R91-4256	48.0-	2-	45	20.7	41.9	15.8	2.0	1.9
R91-4425	45.7-	2-	39	20.5	41.8	14.2	2.4	1.9
S92-2701	42.1-	14-	36	20.8	42.4+	17.9	2.8	2.2
S92-2702	41.7-	14-	38	20.5	42.9+	17.5	2.8	2.3
S92-2712	48.8-	10-	37	21.1	43.1+	18.5	2.7	2.0
S92-2713	50.5	9-	38	21.0	43.1+	18.2	2.8	1.9
S92-2715	49.1-	9-	40	20.9	43.0+	18.5	2.8	1.7
TN90-112	45.6-	4-	44	21.0	41.6	16.3	1.8	1.7
TN91-07	49.0-	3-	48	20.7	42.6+	14.6	2.2	1.5
TN91-13	45.6-	0	46	21.2	40.9	16.0	1.8	1.8
TN91-55	48.3-	4-	40	21.1	42.3	14.6	1.9	1.7
V90-454	50.4	3-	30	17.6-	39.4-	15.7	1.3	1.8
V90-798	53.8	3-	42	20.8	42.0	15.6	2.1	2.2
V90-848	52.9	7-	41	21.2	42.4+	17.5	2.2	2.2
Overall Mean	49.8			20.8	41.8			
L.S.D. (0.05)	4.5			1.7	1.1			
C.V. (%)	9.2			7.3	2.4			

TABLE 11 - (Continued).

STRAIN/ VARIETY	M.a. TN	M.i. TN	SCN 3	SCN 14	STEM CANKER MS
MANOKIN	1.3	1.0	1.0	5.0	1.0
DELSOY 4710	3.3	2.0	1.0	2.0	1.0
F91-3074	4.0	1.4	5.0	5.0	1.0
F91-3076	1.9	1.0	5.0	5.0	1.0
K1303	3.3	2.0	1.0	2.0	2.1
K1304	3.3	2.3	5.0	5.0	3.0
K1305	4.0	1.0	5.0	5.0	3.0
K1306	4.0	2.0	5.0	5.0	3.4
K1307	4.0	1.0	1.2	5.0	3.3
KY91-0151	3.3	1.4	5.0	5.0	4.0
KY91-1037	3.4	1.4	5.0	5.0	2.0
KY91-1059	4.0	1.0	5.0	5.0	3.0
LS91-0925	4.0	2.4	5.0	4.3	1.0
MD91-5247	4.0	2.0	2.0	2.0	3.4
MD91-5313	4.0	2.1	1.0	5.0	3.3
MD91-5882	4.0	2.0	5.0	4.4	1.0
R91-4256	4.0	2.0	5.0	5.0	4.0
R91-4425	4.0	1.4	5.0	5.0	4.0
S92-2701	3.3	1.3	1.0	1.1	1.0
S92-2702	4.0	1.1	1.0	1.0	1.0
S92-2712	3.1	1.0	1.0	1.0	1.0
S92-2713	3.4	1.3	1.0	1.1	1.0
S92-2715	3.3	1.3	1.0	1.0	1.0
TN90-112	4.3	1.4	1.3	1.0	1.0
TN91-07	5.0	2.0	2.0	1.3	1.0
TN91-13	4.0	2.2	1.3	1.1	1.0
TN91-55	5.0	2.0	2.3	2.0	1.0
V90-454	2.1	1.0	4.2	3.0	1.0
V90-798	4.0	1.0	5.0	4.0	3.0
V90-848	4.0	1.0	5.0	3.4	3.1

TABLE 12 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1994.

STRAIN/ VARIETY	KEI- SER AR	PITTS- BURG KS	POR- TAGE- VILLE MO(A)	PRINCE- TON KY	QUEENS- TOWN MD	STONE- VILLE MS(B)	ULLIN IL	WAR- SAW VA	MEAN
MANOKIN	71.5	43.0	53.2	44.0	57.8	38.3	62.8	58.8	53.6
DELISOY 4710	70.3	46.3	53.4	40.3	51.5	35.3	69.0	50.2-	52.0
F91-3074	63.1-	38.5	48.3	29.1-	53.8	40.9	47.6-	44.1-	45.6-
F91-3076	63.2-	53.7+	47.1	42.5	57.6	31.6	65.4	49.7-	51.3
K1303	73.4	47.7	49.6	40.4	56.9	38.5	64.0	58.6	53.6
K1304	73.0	49.1	52.8	36.8	52.6	42.5	58.3	55.9	52.6
K1305	63.2-	48.9	54.6	42.6	60.3	46.6+	58.1	54.0	53.5
K1306	67.9	44.8	48.6	39.3	56.8	37.9	57.9	52.1-	50.6
K1307	70.5	42.9	57.0	42.1	56.5	40.3	54.1	57.4	52.6
KY91-0151	67.0	49.3	44.9-	41.3	61.6	39.6	53.1	56.5	51.6
KY91-1037	72.1	41.4	52.7	47.8	63.9	36.7	63.0	57.8	54.4
KY91-1059	65.4	45.9	45.6-	34.6	65.2+	48.8+	46.9-	48.4-	50.1
LS91-0925	64.3	51.5+	44.5-	38.8	48.1-	38.2	66.1	45.8-	49.6
MD91-5247	67.8	40.8	46.9	36.1	64.1	34.7	69.9	55.0	51.9
MD91-5313	63.9-	44.8	49.7	39.4	48.0-	33.3	63.0	47.1-	48.6-
MD91-5882	69.0	33.8-	54.1	39.1	55.5	44.4	58.2	51.0-	50.6
R91-4256	62.2-	37.9	49.9	33.9-	56.1	43.0	54.6	46.3-	48.0-
R91-4425	61.2-	34.9	43.6-	35.0	50.2-	41.5	57.8	41.6-	45.7-
S92-2701	48.0-	38.2	44.3-	30.8-	49.9-	36.5	40.2-	49.2-	42.1-
S92-2702	45.3-	38.4	44.6-	31.7-	49.8-	34.5	40.0-	49.8-	41.7-
S92-2712	64.6	44.4	50.4	33.4-	50.4-	38.4	56.9	51.7-	48.8-
S92-2713	65.3	42.4	48.7	35.2	56.4	40.2	63.4	52.3-	50.5
S92-2715	56.8-	46.4	41.6-	38.3	52.5	34.3	69.5	53.2	49.1
TN90-112	56.5-	46.9	48.1	27.7-	44.7-	36.2	53.9	50.6-	45.6-
TN91-07	62.3-	43.8	50.2	34.3-	54.1	40.1	59.9	47.5-	49.0-
TN91-13	53.4-	40.3	42.0-	35.1	58.7	38.2	56.7	40.9-	45.6-
TN91-55	66.8	40.3	46.2-	34.0-	48.4-	41.5	58.7	50.6-	48.3-
V90-454	66.4	43.6	45.4-	40.6	55.9	36.9	61.2	53.2	50.4
V90-798	64.1-	49.0	45.0-	40.5	64.2	45.9+	62.5	59.2	53.8
V90-848	63.5-	52.4+	49.0	37.7	64.9+	38.7	58.0	59.2	52.9
Overall Mean	63.9	44.0	48.4	37.4	55.5	39.1	58.3	51.6	49.8
L.S.D. (0.05)	7.3	8.4	6.8	9.4	6.6	7.3	13.0	5.9	4.5
C.V. (%)	5.5	9.4	6.9	12.3	5.8	9.2	10.9	5.6	9.2

TABLE 13 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1994.

STRAIN/ VARIETY	KEISER AR	PORTAGE- VILLE MO(A)	PRINCE- TON KY	STONE- VILLE MS(B)	ULLIN IL	WARSAW VA	MEAN
MANOKIN	20.0	20.7	20.1	21.2	20.1	20.8	20.5
DELISOY 4710	20.4	20.6	20.1	21.0	20.0	20.7	20.5
F91-3074	20.0	20.1	20.7	20.6	20.1	20.5	20.3
F91-3076	19.8	20.4	20.1	20.7	20.1	20.9	20.3
K1303	20.3	20.9	21.1	21.3	20.8	20.9	20.9
K1304	20.3	20.5	21.2	21.0	20.1	20.8	20.7
K1305	19.8	20.9	20.4	21.5	20.4	20.7	20.6
K1306	20.8	20.8	21.1	21.6	20.7	21.1	21.0
K1307	21.0	20.5	20.6	21.0	19.9	21.0	20.7
KY91-0151	21.6	21.7	21.2	22.1	21.0	21.3	21.5
KY91-1037	21.3	21.6	21.5	21.5	21.3	21.4	21.4
KY91-1059	21.3	22.1	21.2	22.2	21.0	20.8	21.4
LS91-0925	20.7	21.5	21.4	21.8	20.7	20.8	21.2
MD91-5247	21.2	20.6	20.9	21.2	21.0	20.9	21.0
MD91-5313	19.7	20.1	20.4	20.5	19.6	20.5	20.1
MD91-5882	21.2	21.6	22.0	21.7	20.6	20.9	21.3
R91-4256	20.1	20.8	20.7	21.5	20.2	20.8	20.7
R91-4425	20.0	20.6	20.6	20.8	19.9	20.9	20.5
S92-2701	20.5	21.2	20.7	21.4	19.6	21.1	20.8
S92-2702	20.3	20.8	19.8	21.0	19.9	21.0	20.5
S92-2712	21.2	21.4	21.1	21.8	20.2	20.6	21.1
S92-2713	20.5	21.0	21.2	21.5	20.4	21.6	21.0
S92-2715	20.8	20.9	20.5	21.7	20.4	20.9	20.9
TN90-112	21.0	21.1	20.7	21.6	20.1	21.2	21.0
TN91-07	19.8	20.9	20.6	21.8	20.1	21.1	20.7
TN91-13	21.4	21.2	21.4	21.9	20.1	20.9	21.2
TN91-55	20.7	21.3	21.6	21.6	20.2	21.4	21.1
V90-454	20.6	21.1	20.8	21.7	20.5	20.9	17.6
V90-798	20.2	20.9	21.3	21.6	19.8	21.1	20.8
V90-848	21.2	21.3	21.1	21.3	20.7	21.3	21.2

TABLE 14 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1994.

STRAIN/ VARIETY	KEISER AR	PORTAGE- VILLE MO(A)	PRINCETON KY	STONE- VILLE MS(B)	ULLIN IL	WARSAW VA	MEAN
MANOKIN	40.4	39.9	44.5	42.5	40.2	40.3	41.3
DELSOY 4710	40.8	39.5	41.5	42.0	40.5	41.8	41.0
F91-3074	41.5	41.3	41.0	41.3	41.9	42.0	41.5
F91-3076	42.5	41.5	43.1	42.0	42.7	42.5	42.4
K1303	43.1	41.4	42.3	44.1	42.6	43.8	42.9
K1304	42.7	40.2	40.5	42.3	40.5	42.7	41.5
K1305	41.4	39.7	40.4	40.3	41.3	41.7	40.8
K1306	42.1	41.1	42.3	42.4	42.3	43.3	42.3
K1307	37.5	38.2	39.0	40.3	40.6	39.9	39.3
KY91-0151	41.1	40.1	39.2	41.6	42.1	42.5	41.1
KY91-1037	41.7	40.4	40.2	42.1	42.6	41.5	41.4
KY91-1059	41.8	40.5	42.3	41.9	43.3	43.0	42.1
LS91-0925	41.7	41.4	39.8	41.6	41.6	42.5	41.4
MD91-5247	40.2	41.6	41.8	42.6	42.2	43.8	42.0
MD91-5313	42.2	40.3	40.1	42.8	40.7	41.4	41.3
MD91-5882	43.4	39.9	39.7	43.5	43.4	43.6	42.3
R91-4256	42.0	41.0	41.0	41.8	42.9	42.4	41.9
R91-4425	41.8	40.1	42.8	40.7	42.9	42.4	41.8
S92-2701	42.0	41.0	41.6	43.1	43.5	43.4	42.4
S92-2702	42.4	41.0	43.2	43.7	42.9	44.2	42.9
S92-2712	43.2	42.0	41.1	43.9	42.8	45.7	43.1
S92-2713	44.3	41.9	42.3	44.1	43.4	42.4	43.1
S92-2715	42.9	41.8	43.0	44.1	42.5	43.9	43.0
TN90-112	40.4	40.7	43.4	41.7	41.9	41.3	41.6
TN91-07	44.0	41.2	42.9	42.9	41.8	42.8	42.6
TN91-13	39.0	40.3	40.9	41.8	41.4	42.0	40.9
TN91-55	43.8	41.2	41.4	42.5	42.2	42.6	42.3
V90-454	40.8	33.2	40.6	41.9	39.4	40.5	39.4
V90-798	42.2	40.9	41.1	41.8	42.5	43.3	42.0
V90-848	42.5	40.4	42.0	43.4	43.0	43.3	42.4



TABLE 15 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1994.

STRAIN/ VARIETY	KEISER AR	PORTAGEVILLE MO(A)	PRINCE- TON KY	QUEENS- TOWN MD	ULLIN IL	WARSAW VA	MEAN
MANOKIN	14.7	12.4	15.6	13.2	13.8	13.6	13.9
DELISOY 4710	18.2	15.0	19.8	17.5	17.3	17.6	17.5
F91-3074	15.3	13.2	16.4	15.8	14.0	15.3	15.0
F91-3076	15.4	12.6	16.6	15.4	16.8	17.0	15.6
K1303	17.5	13.5	16.0	17.2	15.4	17.4	16.1
K1304	11.1	10.1	11.1	10.8	11.3	10.9	10.9
K1305	13.7	13.0	14.4	13.0	13.1	13.6	13.5
K1306	15.6	12.4	15.4	14.9	14.4	14.4	14.5
K1307	13.0	11.9	13.3	12.8	11.0	14.5	12.8
KY91-0151	17.4	13.5	14.2	16.0	14.7	15.9	15.3
KY91-1037	18.2	14.3	17.8	18.7	17.6	20.2	17.8
KY91-1059	18.5	14.2	18.1	19.0	17.1	20.2	17.8
LS91-0925	13.4	13.4	12.9	12.2	13.6	13.0	13.1
MD91-5247	14.9	12.6	16.3	14.3	13.8	15.9	14.6
MD91-5313	13.4	11.5	14.1	12.1	13.2	12.7	12.8
MD91-5882	18.3	15.4	15.9	16.7	17.5	18.0	17.0
R91-4256	15.8	14.2	16.2	16.0	15.3	17.3	15.8
R91-4425	15.0	10.9	15.1	14.6	14.9	14.6	14.2
S92-2701	19.2	15.8	16.0	18.8	18.2	19.3	17.9
S92-2702	18.7	14.9	15.5	18.9	17.0	20.2	17.5
S92-2712	21.3	16.3	17.1	19.6	17.1	19.8	18.5
S92-2713	18.8	15.6	17.2	18.7	19.1	19.8	18.2
S92-2715	19.3	16.0	19.0	18.9	19.2	18.8	18.5
TN90-112	16.0	14.9	17.3	15.7	16.0	17.9	16.3
TN91-07	15.5	12.3	15.3	14.9	13.5	16.1	14.6
TN91-13	15.5	13.6	16.2	16.6	16.4	18.0	16.0
TN91-55	15.3	13.0	16.3	14.1	13.9	15.3	14.6
V90-454	16.5	13.6	15.9	15.6	16.3	16.6	15.7
V90-798	17.3	12.8	14.3	17.2	15.9	16.2	15.6
V90-848	18.5	14.8	18.6	18.7	16.0	18.3	17.5

TABLE 16 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1994.

STRAIN/ VARIETY	KEI- SER AR	PITTS- BURG KS	PORTAGE- VILLE MO(A)	PRINCE- TON KY	QUEENS- TOWN MD	STONE- VILLE MS(B)	ULLIN IL	WAR- SAW VA	MEAN
MANOKIN	28	34	23	26	31	24	31	40	29
DELSOY 4710	51	39	43	34	47	35	47	49	43
F91-3074	44	43	36	35	34	33	37	45	38
F91-3076	43	35	30	32	40	35	41	47	38
K1303	44	34	32	33	42	30	46	46	38
K1304	37	33	26	33	36	25	33	40	33
K1305	30	37	23	31	33	23	34	38	31
K1306	47	35	31	33	44	32	43	46	39
K1307	31	34	28	34	32	24	38	36	32
KY91-0151	41	29	27	32	38	31	45	41	35
KY91-1037	42	32	31	35	42	34	45	44	38
KY91-1059	47	37	44	32	44	42	47	47	42
LS91-0925	32	31	21	32	31	23	29	35	29
MD91-5247	40	31	37	31	40	29	44	43	37
MD91-5313	32	30	28	33	33	23	33	38	31
MD91-5882	46	33	35	34	46	36	43	48	40
R91-4256	52	37	47	38	46	42	48	50	45
R91-4425	46	33	41	31	39	36	44	43	39
S92-2701	44	31	29	30	42	34	39	40	36
S92-2702	46	29	42	29	44	32	43	39	38
S92-2712	43	30	41	30	39	36	42	38	37
S92-2713	42	32	44	30	40	37	41	41	38
S92-2715	46	34	33	35	43	37	54	41	40
TN90-112	48	42	38	32	46	37	56	51	44
TN91-07	51	37	54	43	47	40	57	54	48
TN91-13	52	44	42	38	46	37	57	50	46
TN91-55	45	35	37	32	42	34	46	48	40
V90-454	28	32	27	29	30	23	34	37	30
V90-798	49	36	38	34	42	38	47	49	42
V90-848	43	38	47	33	43	36	48	45	41

TABLE 17 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1994.

STRAIN/ VARIETY	KEI- SER AR	PITTS- BURG KS	PORTAG E-VILLE MO(A)	PRINCE- TON KY	QUEENS- TOWN MD	STONE- VILLE MS(B)	ULLIN IL	WAR- SAW VA	MEAN
MANOKIN	1.5	2.0	1.0	1.5	3.4	2.0	1.8	2.5	2.0
DELSOY 4710	2.5	1.0	2.0	1.0	4.0	2.0	3.8	3.0	2.4
F91-3074	3.0	2.5	1.5	1.0	3.8	2.0	2.8	2.3	2.3
F91-3076	2.0	1.5	1.0	1.0	2.5	2.0	2.0	2.3	1.8
K1303	1.5	1.0	1.0	1.0	2.5	2.0	1.0	1.8	1.5
K1304	2.5	1.5	1.0	1.0	3.5	2.0	2.8	2.8	2.1
K1305	3.0	1.5	1.0	1.0	3.5	2.0	1.0	2.5	1.9
K1306	3.0	1.0	1.0	1.0	3.3	2.0	1.8	2.3	1.9
K1307	1.0	1.0	1.5	1.0	3.4	2.0	2.3	2.3	1.8
KY91-0151	1.5	1.0	1.0	1.0	3.5	2.0	2.0	1.8	1.7
KY91-1037	1.5	1.0	1.0	1.0	3.2	2.0	1.0	2.0	1.6
KY91-1059	2.5	1.0	1.5	1.0	3.8	2.0	2.3	2.3	2.0
LS91-0925	1.5	2.0	1.0	1.0	3.3	2.0	1.5	2.0	1.8
MD91-5247	1.0	1.0	1.0	1.0	2.8	2.0	2.5	2.8	1.8
MD91-5313	1.0	2.0	1.0	1.0	3.0	2.0	1.0	2.3	1.7
MD91-5882	2.0	1.0	1.0	1.0	3.5	2.0	1.8	2.0	1.8
R91-4256	2.0	1.5	2.0	1.0	3.5	2.0	1.5	2.3	2.0
R91-4425	3.0	1.0	2.5	1.0	3.8	2.0	3.3	3.0	2.4
S92-2701	4.0	1.0	1.5	1.0	4.0	2.0	5.0	4.3	2.8
S92-2702	3.5	1.0	2.5	1.0	4.0	2.0	4.8	4.0	2.8
S92-2712	3.0	1.0	2.0	1.0	4.0	2.0	5.0	3.8	2.7
S92-2713	3.0	1.5	2.5	1.0	4.0	2.0	4.3	3.8	2.8
S92-2715	3.0	2.0	1.5	1.0	4.0	2.5	4.8	4.0	2.8
TN90-112	1.5	1.0	1.5	1.0	2.5	2.0	3.3	2.0	1.8
TN91-07	2.5	1.0	1.5	1.0	3.5	3.0	2.5	2.3	2.2
TN91-13	2.0	1.5	1.0	1.0	2.5	2.0	2.0	2.8	1.8
TN91-55	2.5	1.0	1.5	1.0	3.5	2.0	1.8	2.3	1.9
V90-454	1.0	1.0	1.0	1.0	1.8	2.0	1.0	2.0	1.3
V90-798	2.5	1.0	1.5	1.0	3.4	2.0	2.8	2.3	2.1
V90-848	1.5	1.0	2.5	1.0	3.5	2.0	3.5	2.5	2.2

TABLE 18 - SEED QUALITY FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1994.

STRAIN/ VARIETY	PORTAGE- VILLE MO(A)	PRINCE- TON KY	QUEENS- TOWN MD	STONE- VILLE MS(B)	ULLIN IL	WARSAW VA	MEAN
MANOKIN	1.5	2.0	1.0	2.0	1.0	1.2	1.5
DELSOY 4710	2.0	2.0	2.0	2.0	1.0	2.0	1.8
F91-3074	1.0	2.0	1.3	2.0	1.0	1.7	1.5
F91-3076	1.5	4.0	1.0	2.0	1.0	1.7	1.9
K1303	1.5	4.0	1.0	2.0	1.0	1.7	1.9
K1304	1.5	3.0	1.0	2.0	1.0	1.2	1.6
K1305	1.0	4.0	1.0	2.0	1.0	1.4	1.7
K1306	1.5	2.0	1.0	2.0	1.0	1.5	1.5
K1307	1.5	3.0	1.5	2.0	1.0	1.2	1.7
KY91-0151	1.5	5.0	1.0	2.0	1.0	1.1	1.9
KY91-1037	1.5	3.0	1.0	2.5	1.0	2.0	1.8
KY91-1059	1.5	4.0	1.3	2.0	1.0	2.2	2.0
LS91-0925	1.5	4.0	1.3	2.0	1.0	1.4	1.9
MD91-5247	1.5	3.0	1.0	2.0	1.0	1.7	1.7
MD91-5313	1.5	3.0	1.0	2.0	1.0	1.1	1.6
MD91-5882	1.5	4.0	1.0	3.0	1.5	2.1	2.2
R91-4256	2.5	3.0	1.0	2.0	1.0	1.7	1.9
R91-4425	2.5	3.0	1.0	2.0	1.0	1.9	1.9
S92-2701	2.5	3.0	1.5	2.5	1.5	2.4	2.2
S92-2702	2.5	3.0	2.0	3.0	1.0	2.4	2.3
S92-2712	2.0	3.0	1.0	2.5	1.0	2.2	2.0
S92-2713	2.0	3.0	1.0	2.0	1.0	2.2	1.9
S92-2715	2.0	2.0	1.0	2.0	1.0	2.4	1.7
TN90-112	1.5	3.0	1.0	2.0	1.0	1.7	1.7
TN91-07	1.5	2.0	1.0	2.0	1.0	1.5	1.5
TN91-13	2.0	3.0	1.0	2.0	1.0	1.8	1.8
TN91-55	1.5	3.0	1.0	2.0	1.5	1.4	1.7
V90-454	1.5	4.0	1.0	2.0	1.0	1.2	1.8
V90-798	2.0	5.0	1.0	2.0	1.0	2.0	2.2
V90-848	2.0	5.0	1.0	2.0	1.0	1.9	2.2

**MATURITY**

**GROUP**

**V**

## UNIFORM GROUP V

1994

Uniform Group V nurseries were planted at 30 locations. Data were obtained from 30 of these locations. The parentage for each strain is reported in Table 19. Table 20 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 21 - 27.

The cultivar Hutcheson is the yield and maturity check. It had a mean yield of 51.6 bushels per acre and a mean maturity of October 6 at the 30 locations.

The Maryland Agricultural Experiment Stations have released MD87-5389 as Wicomico. Wicomico was grown in Preliminary Group V, 1990 and had a mean yield of 46.6 bushels per acre across all locations. Wicomico is an early MGV that has resistance to soybean cyst nematode races 1 and 3. Wicomico is named for a river in Eastern Maryland.

The Tennessee Agricultural Experiment Stations have released TN88-87 as TN5-95. TN5-95 had a mean yield of 49.9 bushels per acre across all locations in 1994. TN5-95 is resistant to stem canker, frogeye leaf spot, soybean cyst nematode races 3 and 14, and moderately resistant to sudden death syndrome.

The Virginia Agricultural Experiment Stations have proposed the release of V88-1234. V88-1234 had a mean yield of 50.0 bushels per acre across all locations in 1994. V88-1234 is resistant to soybean cyst nematode races 1 and 3, *M. arenaria*, and is moderately resistant to *M. incognita*.

TABLE 19 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 1994.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	F5
2. MANOKIN	L70-L3048 X D74-7824	F5
3. N90-516	HUTCHESON X N83-1014	F6
4. OK88-5420	DOUGLAS X ESSEX	F4
5. S88-1854	HUTCHESON X S81-2524	F5
6. TN88-87	A5474 X TN83-167	F5
7. V88-1234	D77-6056 X LS79-330	F6
8. D91-4619	EPPS X SHARKEY	F5
9. K1267	K1133 X K1106	F5
10. K1268	STAFFORD X A3427	F5
11. K1276	COKER 425 X A3427	F5
12. K1277	HUTCHESON X A3966	F5
13. KY90-1836	HUTCHESON X S42-40	F5
14. KY90-2786	SPENCER X HUTCHESON	F5
15. N91-207	NRS5Y	F6
16. N91-245	NRS5Y	F6
17. R88-638	JEFF X (PERSHING X EPPS)	F5
18. S91-1381	HARTZ 5370 X HARTWIG	F5
19. S91-1661	PIONEER 9571 X HARTWIG	F5
20. V89-805	HUTCHESON X (V80-2476 X V80-2165)	F5

#### Background of lines used as parents:

- D77-6056** is a selection from Centennial X J74-47 grown in Uniform Group V in 1982-84.
- K1106** is a selection from K1034 X Essex. K1034 is a selection from Williams X Calland.
- K1133** is a selection from V75-345 X S76-2120.
- LS79-330** is a selection from Forrest X V71-480. V71-480 is a selection from V63-76 X V66-318 which was grown in Uniform Group V in 1974.
- N83-1014** is a selection from Gasoy 17 X N77-940. N77-940 is a selection from N70-1549 X Centennial.
- S76-2120** is a selection from D67-3297 X Essex. D67-3297 is a selection from Hill(2) X PI171442.
- S81-2524** is a selection from Davis X J74-122. J74-122 is a SCN race 4 resistant line having the same parentage as Bedford.
- Tn83-167** is a selection from Lee 74 X Tn76-32. Tn76-32 is a selection from Jill X York.
- V68-1034** is a selection from Dare X PI 71506.
- V75-345** is a selection from Essex X Shore.
- V80-2165** is a selection from Essex X V68-1171.
- V80-2476** is a selection from Hodgson X Essex.

TABLE 20 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 1994.

STRAIN/VARIETY	YIELD†			PROTEIN			OIL		
	1994	93-94	92-94	1994	93-94	92-94	1994	93-94	92-94
1. HUTCHESON	51.6	47.0	.	41.2	40.4	.	21.3	21.5	.
2. MANOKIN	48.2	.	.	41.2	.	.	20.7	.	.
3. N90-516	52.8	48.0	.	41.2	40.3	.	20.6	20.9	.
4. OK88-5420‡	49.8	43.9	.	42.0	41.3	.	20.6	20.6	.
5. S88-1854	51.7	47.0	.	41.6	40.8	.	21.1	21.3	.
6. TN88-87	49.9	45.6	.	42.1	41.3	.	19.7	19.8	.
7. V88-1234	50.0	46.5	.	40.8	40.0	.	21.2	21.4	.
8. D91-4619	47.6	.	.	43.7	.	.	20.3	.	.
9. K1267	51.4	.	.	41.5	.	.	21.4	.	.
10. K1268	48.8	.	.	41.6	.	.	20.8	.	.
11. K1276	53.1	.	.	40.5	.	.	21.7	.	.
12. K1277	51.7	.	.	41.3	.	.	21.3	.	.
13. KY90-1836	51.0	.	.	41.3	.	.	21.6	.	.
14. KY90-2786	50.5	.	.	42.0	.	.	20.7	.	.
15. N91-207	49.0	.	.	40.8	.	.	21.1	.	.
16. N91-245	48.7	.	.	40.8	.	.	21.1	.	.
17. R88-638	49.4	.	.	40.5	.	.	20.3	.	.
18. S91-1381	47.0	.	.	42.3	.	.	20.4	.	.
19. S91-1661	49.5	.	.	41.2	.	.	19.8	.	.
20. V89-805	51.6	.	.	40.8	.	.	21.0	.	.

## BOTANICAL TRAITS

STRAIN/ VARIETY	FL. COLOR	MAT. DATE	LOG.	HT.	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
1. HUTCHESON	W	10/6	1.8	30	1.5	15.2	G	T
2. MANOKIN	W	-5	2.0	29	1.6	13.7	T	T
3. N90-516	W	-1	2.0	30	1.7	15.8	G	T
4. OK88-5420	S	+2	2.0	32	1.8	15.8	G	Br
5. S88-1854	W	+2	1.8	32	1.5	15.3	T	T
6. TN88-87	P	-2	2.0	33	1.5	13.1	T	Br
7. V88-1234	P	+1	2.5	36	1.5	14.0	T	T
8. D91-4619	W	+1	2.3	35	1.5	13.5	T	T
9. K1267	W	+2	2.1	42	1.9	17.4	G	T
10. K1268	P	+4	2.9	41	1.8	15.0	G	T
11. K1276	P	-1	1.3	28	1.6	14.6	T	T
12. K1277	W	+3	2.1	42	2.0	17.3	G	T
13. KY90-1836	P	-5	1.3	24	1.7	15.4	G	T
14. KY90-2786	W	-4	1.5	28	1.7	15.2	G	Br
15. N91-207	W	+4	2.6	38	1.6	13.7	T	T
16. N91-245	W	+3	2.1	35	1.5	12.3	T	T
17. R88-638	P	+1	2.0	31	1.6	12.9	G	T
18. S91-1381	W	+2	2.4	34	1.5	14.2	T	T
19. S91-1661	W	+6	2.6	37	1.9	15.3	T	Br
20. V89-805	P	-2	2.1	33	1.6	14.7	G	Br

## PEST REACTIONS

STRAIN/ VARIETY	SDS	STEM CANKER		M.a.	M.a.	M.i.	SCN	SCN	AWB§
		MS	GA	TN	GA	3	14		
1. HUTCHESON	98	1.0	3.3	2.8	3.8	5.0	4.5	3.5	
2. MANOKIN	33	1.0	2.8	1.0	1.0	1.0	4.0	4.0	
3. N90-516	72	1.0	4.0	1.7	3.5	5.0	4.1	5.0	
4. OK88-5420††	91	1.0	2.5	3.0	2.0	5.0	3.7	4.5	
5. S88-1854	73	2.0	3.8	2.4	4.3	1.3	2.0	3.0	
6. TN88-87	68	1.0	3.8	4.0	4.3	1.1	1.8	3.5	
7. V88-1234	97	2.2	1.5	1.1	1.8	1.0	4.0	3.5	
8. D91-4619	33	1.0	4.5	1.3	1.8	1.0	4.1	4.5	
9. K1267	101	3.5	4.0	2.4	4.5	4.9	5.0	4.5	
10. K1268	101	1.0	3.8	2.6	5.0	4.7	4.3	4.5	
11. K1276	100	3.1	4.5	3.4	5.0	4.6	4.7	4.5	
12. K1277	99	4.5	3.8	2.3	2.8	4.9	5.0	4.0	
13. KY90-1836	101	1.5	4.8	2.6	1.8	4.7	5.0	5.0	
14. KY90-2786	99	1.0	3.5	3.1	3.3	4.6	4.3	5.0	
15. N91-207	100	3.4	4.8	1.3	2.0	4.9	4.4	5.0	
16. N91-245	100	1.6	3.0	1.0	1.3	4.7	4.4	4.0	
17. R88-638	52	2.9	4.8	2.7	3.5	1.9	1.6	5.0	
18. S91-1381	14*	1.5	3.3	1.0	2.0	1.0	1.0	4.0	
19. S91-1661	4*	2.0	3.5	2.9	3.3	1.0	1.0	3.5	
20. V89-805	100	1.0	4.0	3.3	4.0	5.0	4.9	5.0	

† Data from Plymouth, NC (1994); Clemson, SC (1993); and Georgetown, DE (1993) not included in means.

‡ Data from UIV-S (1993) used to derive two-year mean.

§ Aerial Web Blight



TABLE 21 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM V, 1994.

STRAIN/ VARIETY	EAST					MEAN
	GEORGE- TOWN	PLYMOUTH†	QUEENS- TOWN	SUFFOLK	WARSAW	
	DE	NC	MD	VA	VA	
HUTCHESON	30.5	43.9	62.0	69.5	60.7	55.7
MANOKIN	42.5	26.9	56.6	63.5	58.7	55.3
N90-516	39.5	36.2	57.9	71.9	58.5	56.9
OK88-5420	42.0	36.5	57.1	64.0	66.6	57.4
S88-1854	35.3	35.4	53.3	63.0	60.8	53.1
TN88-87	31.7	42.7	55.0	67.4	58.5	53.2
V88-1234	21.2	50.4	57.7	66.0	60.2	51.3
D91-4619	36.3	44.0	54.7	57.7	61.0	52.4
K1267	41.0	30.2	62.7	69.7	54.9	57.1
K1268	39.7	39.8	59.3	69.0	52.5	55.1
K1276	41.5	31.7	65.4	70.5	62.7	60.0
K1277	37.3	43.0	61.2	69.6	54.6	55.7
KY90-1836	35.6	30.1	64.1	72.9	64.9	59.4
KY90-2786	42.1	34.9	60.0	80.8	62.6	61.4
N91-207	38.3	28.5	59.5	69.0	63.3	57.5
N91-245	34.6	40.5	61.2	67.6	64.2	56.9
R88-638	35.1	39.8	55.4	60.4	59.2	52.5
S91-1381	37.1	43.6	53.4	56.4	57.8	51.2
S91-1661	20.9	37.7	55.4	60.9	60.5	49.4
V89-805	40.3	52.6	58.9	76.7	62.6	59.6
Overall Mean	36.1	38.4	58.5	67.3	60.2	55.6
L.S.D. (0.05)	4.8	18.5	5.8	6.9	7.1	
C.V. (%)	8.1	29.2	6.0	6.2	7.1	

STRAIN/ VARIETY	UPPER AND CENTRAL SOUTH										MEAN
	ATHENS	BELLE	CALHOUN	CLEMSON	KNOX- VILLE	MARTIN	ORANGE	PRINCE- TON	STARK- VILLE	ULLIN	
	GA	AL	GA	SC	TN	TN	VA	KY	MS	IL	
HUTCHESON	63.3	47.6	51.6	62.1	76.2	55.2	36.1	55.7	32.8	61.4	54.2
MANOKIN	56.6	44.1	44.3	56.4	73.9	52.8	35.4	45.1	21.4	67.4	49.7
N90-516	66.9	48.6	45.4	55.8	76.7	53.1	41.3	49.5	34.3	74.3	54.6
OK88-5420	58.9	36.5	49.0	56.5	67.6	51.4	39.9	47.5	32.8	64.9	50.5
S88-1854	63.3	56.1	49.5	58.9	57.6	55.9	44.0	52.2	35.7	63.4	53.7
TN88-87	66.5	43.7	46.3	55.7	66.0	51.9	43.9	49.9	40.1	63.6	52.8
V88-1234	54.1	54.4	49.6	55.3	75.9	51.3	37.7	50.0	44.8	59.0	53.2
D91-4619	51.5	45.7	46.5	54.6	59.6	39.8	38.5	53.4	50.5	60.4	50.1
K1267	55.8	41.3	41.0	56.7	67.8	50.5	49.1	59.5	32.5	48.3	50.2
K1268	39.2	44.9	44.0	51.4	71.1	49.1	44.6	51.9	36.7	27.6	46.0
K1276	66.0	42.0	53.9	61.1	75.3	57.7	49.5	56.6	27.7	66.8	55.7
K1277	46.8	42.3	49.0	59.7	74.7	54.9	54.5	52.3	34.9	47.4	51.7
KY90-1836	63.1	48.2	47.8	54.5	73.9	52.8	48.9	58.0	26.8	69.6	54.4
KY90-2786	69.0	42.6	52.8	55.2	72.0	57.0	50.9	52.4	38.9	54.9	54.6
N91-207	57.1	44.3	45.2	58.5	56.8	60.4	39.4	50.5	37.5	50.8	50.1
N91-245	63.3	36.2	41.5	60.8	60.7	59.5	39.5	59.1	38.1	49.3	50.8
R88-638	65.4	51.1	43.3	60.3	66.5	51.8	34.6	52.6	39.0	59.6	52.4
S91-1381	52.0	56.5	40.2	55.1	64.8	48.4	32.7	45.9	36.1	63.9	49.5
S91-1661	55.1	53.5	44.8	57.2	74.0	57.8	40.8	44.8	39.9	68.4	53.6
V89-805	58.6	43.2	44.8	58.5	79.1	52.0	49.0	53.3	39.8	60.4	53.9
Overall Mean	58.6	45.9	46.6	57.2	69.5	53.1	42.5	52.0	36.0	59.1	52.1
L.S.D. (0.05)	9.2	6.9	7.7	5.8	14.6	11.4	8.5	9.2	6.5	8.4	
C.V. (%)	9.5	8.6	9.9	6.2	12.7	12.6	12.1	10.6	10.9	8.6	

† Not included in mean.

TABLE 21 - (Continued).

DELTA										
STRAIN/ VARIETY	BATON ROUGE LA	JONES- BORO AR	KEISER AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	ST. JOSEPH LA	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
HUTCHESON	38.2	35.5	76.8	35.8	49.1	62.2	45.3	53.8	38.0	48.3
MANOKIN	44.8	28.9	70.9	33.9	51.9	65.5	30.8	49.9	25.8	44.7
N90-516	48.1	40.9	76.7	37.9	47.9	63.6	45.8	58.7	44.1	51.5
OK88-5420	36.5	30.3	75.8	34.1	56.1	62.5	40.4	46.8	28.1	45.6
S88-1854	40.1	43.0	78.8	38.4	53.7	65.8	39.3	55.2	36.2	50.0
TN88-87	45.5	43.5	72.8	36.7	49.7	55.5	37.3	55.4	31.8	47.6
V88-1234	40.6	36.9	77.8	33.5	46.5	60.6	34.9	50.4	32.8	46.0
D91-4619	44.1	33.4	70.7	29.6	48.7	60.9	41.0	48.3	41.2	46.4
K1267	35.6	38.8	74.6	37.8	52.5	58.4	44.4	54.6	41.4	48.7
K1268	37.4	36.9	73.0	30.1	51.6	56.0	45.2	41.9	40.8	45.9
K1276	31.6	32.9	83.0	33.5	54.2	62.6	38.5	54.0	32.0	46.9
K1277	37.2	38.5	71.3	36.2	53.3	57.2	51.0	56.5	43.6	49.4
KY90-1836	33.0	37.9	72.7	32.8	45.9	58.6	31.3	54.2	31.3	44.2
KY90-2786	37.8	26.1	70.1	31.7	44.6	48.8	27.0	50.7	30.3	40.8
N91-207	44.0	30.6	76.5	35.2	50.9	53.1	45.6	47.0	38.9	46.9
N91-245	38.1	21.8	67.2	34.9	47.1	48.5	37.3	49.8	34.9	42.2
R88-638	35.5	36.5	74.0	40.6	54.8	59.2	33.4	49.0	31.7	46.1
S91-1381	40.2	33.2	67.3	37.5	48.7	57.2	31.5	49.9	30.9	44.0
S91-1661	39.8	42.4	69.8	38.6	49.5	56.2	43.1	53.8	36.5	47.7
V89-805	45.4	34.6	69.7	37.8	47.1	54.7	45.2	52.2	34.1	46.8
Overall Mean	39.7	35.1	73.5	35.3	50.2	58.4	39.4	51.6	35.2	46.5
L.S.D. (0.05)	8.1	10.4	6.1	4.6	6.6	5.49	7.2	8.1	5.2	
C.V. (%)	12.0	18.0	5.1	7.8	7.9	5.60	11.2	9.5	9.0	

WEST								
STRAIN/ VARIETY	BOSSIER			CHANUTE KS	MCCUNE KS	PITTSBURG KS	STUTTGART AR	MEAN
	BIXBY OK	CITY LA	CITY LA					
HUTCHESON	40.1	74.9	74.9	35.5	56.1	49.0	40.6	49.4
MANOKIN	61.4	64.5	64.5	35.5	37.0	48.2	30.6	46.2
N90-516	53.9	67.5	67.5	33.9	48.4	45.7	43.2	48.8
OK88-5420	57.1	73.4	73.4	35.8	51.8	49.5	31.6	49.9
S88-1854	60.9	63.7	63.7	39.1	48.1	49.0	39.7	50.1
TN88-87	50.7	67.4	67.4	33.6	54.3	40.3	33.4	46.6
V88-1234	54.9	70.1	70.1	37.4	49.6	46.4	41.5	50.0
D91-4619	38.3	66.7	66.7	31.2	40.3	41.3	33.9	42.0
K1267	52.9	72.4	72.4	44.1	54.2	56.4	42.3	53.7
K1268	54.2	75.2	75.2	43.3	55.1	52.3	40.7	53.5
K1276	60.1	72.1	72.1	39.2	56.4	59.0	34.4	53.6
K1277	56.2	66.7	66.7	37.6	55.6	53.7	45.6	52.6
KY90-1836	56.9	66.0	66.0	39.3	54.9	51.0	31.4	49.9
KY90-2786	51.6	67.7	67.7	44.0	47.2	55.1	40.6	51.0
N91-207	46.5	61.0	61.0	33.4	46.0	43.5	37.0	44.6
N91-245	58.5	70.8	70.8	35.4	48.9	46.3	36.8	49.5
R88-638	61.0	67.3	67.3	36.9	39.0	47.4	32.9	47.4
S91-1381	47.7	61.6	61.6	30.7	47.1	43.3	37.4	44.6
S91-1661	57.4	61.0	61.0	35.7	42.9	40.2	34.4	45.3
V89-805	51.2	74.2	74.2	36.4	50.5	49.1	36.6	49.7
Overall Mean	53.6	68.2	68.2	36.9	49.2	48.3	37.2	48.9
L.S.D. (0.05)	7.9	11.3	11.3	4.6	7.2	6.9	5.1	
C.V. (%)	8.9	10.0	10.0	7.5	8.8	8.7	8.3	

TABLE 22 - SEED YIELD, EXPRESSED AS A PERCENTAGE OF THE LOCATION MEAN, FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1994.

EAST						
STRAIN/ VARIETY	GEORGE- TOWN DE	PLY-† MOUTH NC	QUEENS- TOWN MD	SUFFOLK VA	WARSAW VA	MEAN
HUTCHESON	84.5	114.3	106.0	103.3	100.8	100.2
MANOKIN	117.7	70.1	96.8	94.4	97.5	99.5
N90-516	109.4	94.3	99.0	106.8	97.2	102.3
OK88-5420	116.3	95.1	97.6	95.1	110.6	103.2
S88-1854	97.8	92.2	91.1	93.6	101.0	95.5
TN88-87	87.8	111.2	94.0	100.1	97.2	95.7
V88-1234	58.7	131.3	98.6	98.1	100.0	92.3
D91-4619	100.6	114.6	93.5	85.7	101.3	94.2
K1267	113.6	78.6	107.2	103.6	91.2	102.7
K1268	110.0	103.6	101.4	102.5	87.2	99.1
K1276	115.0	82.6	111.8	104.8	104.2	107.9
K1277	103.3	112.0	104.6	103.4	90.7	100.2
KY90-1836	98.6	78.4	109.6	108.3	107.8	106.8
KY90-2786	116.6	90.9	102.6	120.1	104.0	110.4
N91-207	106.1	74.2	101.7	102.5	105.1	103.4
N91-245	95.8	105.5	104.6	100.4	106.6	102.3
R88-638	97.2	103.6	94.7	89.7	98.3	94.4
S91-1381	102.8	113.5	91.3	83.8	96.0	92.1
S91-1661	57.9	98.2	94.7	90.5	100.5	88.8
V89-805	111.6	137.0	100.7	114.0	104.0	107.2
MEAN (bu/ac)	36.1	38.4	58.5	67.3	60.2	55.6

UPPER AND CENTRAL SOUTH											
STRAIN/ VARIETY	ATHENS GA	BELLE- MINA AL	CAL- HOUN GA	CLEM- SON SC	KNOX- VILLE TN	MAR- TIN TN	ORANGE VA	PRIN- CETON KY	STARK- VILLE MS	ULLIN IL	MEAN
HUTCHESON	108.0	103.7	110.7	108.6	109.6	104.0	84.9	107.1	91.1	103.9	104.0
MANOKIN	96.6	96.1	95.1	98.6	106.3	99.4	83.3	86.7	59.4	114.0	95.4
N90-516	114.2	105.9	97.4	97.6	110.4	100.0	97.2	95.2	95.3	125.7	104.8
OK88-5420	100.5	79.5	105.2	98.8	97.3	96.8	93.9	91.3	91.1	109.8	96.9
S88-1854	108.0	122.2	106.2	103.0	82.9	105.3	103.5	100.4	99.2	107.3	103.1
TN88-87	113.5	95.2	99.4	97.4	95.0	97.7	103.3	96.0	111.4	107.6	101.3
V88-1234	92.3	118.5	106.4	96.7	109.2	96.6	88.7	96.2	124.4	99.8	102.1
D91-4619	87.9	99.6	99.8	95.5	85.8	75.0	90.6	102.7	140.3	102.2	96.2
K1267	95.2	90.0	88.0	99.1	97.6	95.1	115.5	114.4	90.3	81.7	96.4
K1268	66.9	97.8	94.4	89.9	102.3	92.5	104.9	99.8	101.9	46.7	88.3
K1276	112.6	91.5	115.7	106.8	108.3	108.7	116.5	108.8	76.9	113.0	106.9
K1277	79.9	92.2	105.2	104.4	107.5	103.4	128.2	100.6	96.9	80.2	99.2
KY90-1836	107.7	105.0	102.6	95.3	106.3	99.4	115.1	111.5	74.4	117.8	104.4
KY90-2786	117.7	92.8	113.3	96.5	103.6	107.3	119.8	100.8	108.1	92.9	104.8
N91-207	97.4	96.5	97.0	102.3	81.7	113.7	92.7	97.1	104.2	86.0	96.2
N91-245	108.0	78.9	89.1	106.3	87.3	112.1	92.9	113.7	105.8	83.4	97.5
R88-638	111.6	111.3	92.9	105.4	95.7	97.6	81.4	101.2	108.3	100.8	100.6
S91-1381	88.7	123.1	86.3	96.3	93.2	91.1	76.9	88.3	100.3	108.1	95.0
S91-1661	94.0	116.6	96.1	100.0	106.5	108.9	96.0	86.2	110.8	115.7	102.9
V89-805	100.0	94.1	96.1	102.3	113.8	97.9	115.3	102.5	110.6	102.2	103.5
MEAN (bu/ac)	58.6	45.9	46.6	57.2	69.5	53.1	42.5	52.0	36.0	59.1	52.1

† Not included in mean.

TABLE 22 - (Continued).

DELTA										
STRAIN/ VARIETY	BATON ROUGE LA	JONES- BORO AR	KEISER AR	PINE TREE AR	POR- TAGE- VILLE MO(A)	POR- TAGE- VILLE MO(B)	ST. JOSEPH LA	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
HUTCHESON	96.2	101.1	104.5	101.4	97.8	106.5	115.0	104.3	108.0	103.9
MANOKIN	112.8	82.3	96.5	96.0	103.4	112.2	78.2	96.7	73.3	96.1
N90-516	121.2	116.5	104.4	107.4	95.4	108.9	116.2	113.8	125.3	110.8
OK88-5420	91.9	86.3	103.1	96.6	111.8	107.0	102.5	90.7	79.8	98.1
S88-1854	101.0	122.5	107.2	108.8	107.0	112.7	99.7	107.0	102.8	107.5
TN88-87	114.6	123.9	99.0	104.0	99.0	95.0	94.7	107.4	90.3	102.4
V88-1234	102.3	105.1	105.9	94.9	92.6	103.8	88.6	97.7	93.2	98.9
D91-4619	111.1	95.2	96.2	83.9	97.0	104.3	104.1	93.6	117.0	99.8
K1267	89.7	110.5	101.5	107.1	104.6	100.0	112.7	105.8	117.6	104.7
K1268	94.2	105.1	99.3	85.3	102.8	95.9	114.7	81.2	115.9	98.7
K1276	79.6	93.7	112.9	94.9	108.0	107.2	97.7	104.7	90.9	100.9
K1277	93.7	109.7	97.0	102.5	106.2	97.9	129.4	109.5	123.9	106.2
KY90-1836	83.1	108.0	98.9	92.9	91.4	100.3	79.4	105.0	88.9	95.1
KY90-2786	95.2	74.4	95.4	89.8	88.8	83.6	68.5	98.3	86.1	87.7
N91-207	110.8	87.2	104.1	99.7	101.4	90.9	115.7	91.1	110.5	100.9
N91-245	96.0	62.1	91.4	98.9	93.8	83.0	94.7	96.5	99.1	90.8
R88-638	89.4	104.0	100.7	115.0	109.2	101.4	84.8	95.0	90.1	99.1
S91-1381	101.3	94.6	91.6	106.2	97.0	97.9	79.9	96.7	87.8	94.6
S91-1661	100.3	120.8	95.0	109.3	98.6	96.2	109.4	104.3	103.7	102.6
V89-805	114.4	98.6	94.8	107.1	93.8	93.8	114.7	101.2	96.9	100.6
MEAN (bu/ac)	39.7	35.1	73.5	35.3	50.2	58.4	39.4	51.6	35.2	46.5

  

WEST							
STRAIN/ VARIETY	BIXBY OK	BOSSIER CITY LA	CHANUTE KS	MCCUNE KS	PITTS- BURG KS	STUTT- GART AR	MEAN
HUTCHESON	74.8	109.8	96.2	114.0	101.4	109.1	101.0
MANOKIN	114.6	94.6	96.2	75.2	99.8	82.3	94.5
N90-516	100.6	99.0	91.9	98.4	94.6	116.1	99.8
OK88-5420	106.5	107.6	97.0	105.3	102.5	84.9	102.0
S88-1854	113.6	93.4	106.0	97.8	101.4	106.7	102.5
TN88-87	94.6	98.8	91.1	110.4	83.4	89.8	95.3
V88-1234	102.4	102.8	101.4	100.8	96.1	111.6	102.2
D91-4619	71.5	97.8	84.6	81.9	85.5	91.1	85.9
K1267	98.7	106.2	119.5	110.2	116.8	113.7	109.8
K1268	101.1	110.3	117.3	112.0	108.3	109.4	109.4
K1276	112.1	105.7	106.2	114.6	122.2	92.5	109.6
K1277	104.9	97.8	101.9	113.0	111.2	122.6	107.6
KY90-1836	106.2	96.8	106.5	111.6	105.6	84.4	102.0
KY90-2786	96.3	99.3	119.2	95.9	114.1	109.1	104.3
N91-207	86.8	89.4	90.5	93.5	90.1	99.5	91.2
N91-245	109.1	103.8	95.9	99.4	95.9	98.9	101.2
R88-638	113.8	98.7	100.0	79.3	98.1	88.4	96.9
S91-1381	89.0	90.3	83.2	95.7	89.6	100.5	91.2
S91-1661	107.1	89.4	96.7	87.2	83.2	92.5	92.6
V89-805	95.5	108.8	98.6	102.6	101.7	98.4	101.6
MEAN (bu/ac)	53.6	68.2	36.9	49.2	48.3	37.2	48.9

TABLE 23 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1994.

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BIXBY OK	CAL- HOUN GA	CLEM- SON SC	JONES- BORO AR	KEI- SER AR	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PINE TREE AR	PLY- MOUTH NC†	POR- TAGE- VILLE MO(A)
OIL PERCENTAGE													
HUTCHESON	21.0	21.3	.	21.2	20.9	.	21.0	21.5	21.4	20.4	.	19.6	21.7
MANOKIN	19.9	20.5	.	21.0	20.5	.	20.4	20.7	21.0	19.0	.	20.9	20.8
N90-516	20.7	20.4	.	20.7	20.4	.	20.4	20.4	20.2	19.5	.	20.0	21.6
OK88-5420	20.6	20.7	.	20.7	20.4	.	20.2	20.6	19.7	19.6	.	20.1	21.4
S88-1854	20.9	21.1	.	22.0	21.0	.	21.0	21.1	20.7	19.6	.	20.2	21.4
TN88-87	19.6	18.9	.	20.0	19.8	.	19.5	19.4	19.6	18.8	.	19.8	20.3
V88-1234	21.3	21.1	.	21.2	21.2	.	21.2	21.5	21.1	19.5	.	20.5	21.4
D91-4619	20.4	19.8	.	20.7	20.3	.	20.0	20.6	20.8	18.7	.	19.8	20.6
K1267	21.3	20.9	.	21.5	21.2	.	21.7	21.2	21.4	20.1	.	20.5	21.4
K1268	20.2	20.8	.	20.8	20.8	.	21.4	20.8	20.2	19.0	.	20.0	20.7
K1276	21.8	21.5	.	21.6	21.8	.	21.4	22.0	21.8	20.3	.	20.7	21.8
K1277	21.1	21.2	.	21.2	21.2	.	21.0	21.5	20.9	20.0	.	20.8	20.5
KY90-1836	21.7	21.5	.	21.1	21.6	.	21.6	21.5	21.2	20.2	.	20.7	21.7
KY90-2786	20.6	20.2	.	20.0	20.1	.	21.0	20.9	20.5	20.0	.	19.7	20.4
N91-207	21.1	20.9	.	21.7	21.2	.	21.2	21.4	21.1	19.3	.	19.8	21.0
N91-245	20.8	20.5	.	22.0	20.7	.	21.5	21.3	21.5	18.5	.	20.7	21.1
R88-638	20.3	19.5	.	20.7	20.2	.	20.0	20.0	.	18.1	.	19.7	20.5
S91-1381	19.7	21.6	.	20.1	20.0	.	20.4	20.4	21.4	19.1	.	20.5	20.3
S91-1661	19.8	19.9	.	20.2	19.4	.	19.8	19.2	19.2	17.4	.	19.8	20.1
V89-805	20.9	20.6	.	21.1	20.7	.	20.6	21.1	21.2	19.5	.	20.8	21.1
PROTEIN PERCENTAGE													
HUTCHESON	41.5	42.6	.	41.8	41.0	.	41.7	41.0	41.8	39.0	.	42.9	40.2
MANOKIN	43.2	43.5	.	40.5	41.5	.	41.0	41.7	42.2	35.4	.	42.4	40.5
N90-516	42.4	43.4	.	41.0	42.8	.	41.2	41.3	42.6	37.3	.	42.4	40.4
OK88-5420	42.9	43.5	.	41.7	42.9	.	41.8	42.3	43.4	39.5	.	43.2	40.8
S88-1854	42.8	42.8	.	40.8	42.1	.	41.9	41.3	42.3	39.4	.	43.6	39.8
TN88-87	43.4	45.5	.	41.7	43.3	.	42.5	42.5	41.6	37.7	.	44.1	41.1
V88-1234	42.1	43.4	.	40.5	41.1	.	41.1	40.8	40.8	35.8	.	42.4	39.8
D91-4619	44.2	46.1	.	43.6	44.9	.	44.4	43.3	43.7	37.0	.	44.0	42.3
K1267	42.8	43.5	.	41.4	41.5	.	40.9	41.4	41.3	39.2	.	42.3	39.8
K1268	43.2	43.0	.	41.9	42.9	.	40.5	41.1	41.7	40.2	.	42.8	40.3
K1276	41.4	42.0	.	39.4	40.3	.	40.9	40.1	39.8	38.9	.	43.0	39.6
K1277	42.3	43.1	.	41.3	42.9	.	40.9	41.4	41.4	38.5	.	42.1	40.5
KY90-1896	42.3	42.8	.	41.9	40.8	.	41.4	41.4	43.4	39.5	.	43.5	40.3
KY90-2786	42.6	45.1	.	41.8	43.0	.	41.8	42.2	41.5	39.6	.	43.6	40.9
N91-207	42.6	43.2	.	40.0	40.5	.	41.6	40.4	40.4	37.3	.	42.4	39.7
N91-245	42.7	43.2	.	39.8	41.6	.	40.2	40.8	38.7	38.9	.	42.3	39.6
R88-638	41.7	42.5	.	39.5	40.8	.	40.7	39.9	.	38.9	.	42.8	39.4
S91-1381	42.9	41.0	.	42.2	43.4	.	43.1	42.8	42.3	36.8	.	43.3	41.3
S91-1661	42.5	43.7	.	40.1	42.6	.	42.0	40.4	42.8	36.8	.	42.3	39.6
V89-805	41.5	42.6	.	40.4	41.8	.	40.7	40.5	42.0	38.7	.	41.7	39.9
GRAMS PER 100 SEED													
HUTCHESON	17.0	14.3	14.7	18.7	14.7	14.1	16.4	14.0	18.1	12.6	15.1	1.8	14.4
MANOKIN	15.1	12.5	16.5	14.5	12.8	11.9	14.0	15.6	16.4	13.1	12.5	17.4	12.8
N90-516	17.4	15.9	17.5	17.3	16.2	15.5	16.8	17.1	13.4	14.4	14.9	16.8	15.6
OK88-5420	18.0	15.4	18.9	17.8	16.2	13.5	16.2	15.7	16.1	13.8	15.5	18.9	15.0
S88-1854	17.0	15.0	16.6	17.4	15.5	15.3	15.7	15.0	17.3	13.8	14.3	18.3	14.2
TN88-87	16.1	12.2	14.0	14.0	14.7	12.7	14.0	13.2	15.0	11.8	11.9	16.3	12.6
V88-1234	15.9	14.1	15.5	14.8	14.1	13.7	15.6	14.9	15.1	12.2	13.8	15.1	12.8
D91-4619	14.4	13.2	13.9	15.0	13.7	12.3	14.1	13.8	16.1	11.2	13.3	13.4	12.4
K1267	19.2	15.9	19.8	19.0	18.8	15.7	18.2	18.0	18.4	16.1	17.5	17.3	16.1
K1268	14.7	13.5	16.7	15.6	16.5	14.0	16.1	15.2	16.4	13.3	15.0	13.8	14.3
K1276	17.6	14.6	15.0	16.1	14.8	12.8	15.7	13.9	15.6	13.4	13.7	17.6	13.4
K1277	18.8	16.1	19.6	19.2	17.8	16.3	18.5	17.9	18.0	16.2	17.2	17.7	16.0
KY90-1836	17.8	14.5	17.3	20.0	14.8	13.2	16.1	14.9	17.1	14.6	15.4	17.4	13.1
KY90-2786	17.6	12.9	17.3	17.0	14.8	12.5	17.4	14.5	16.4	14.1	15.5	18.7	13.4
N91-207	15.0	13.6	14.1	15.1	13.5	12.4	15.3	14.6	15.0	11.6	13.1	15.8	12.4
N91-245	14.3	12.0	12.6	13.7	12.5	10.0	12.6	13.3	12.2	11.2	11.4	14.6	11.8
R88-638	14.0	12.5	13.9	12.5	12.7	11.8	13.7	12.5	16.0	10.8	13.2	14.7	12.4
S91-1381	15.5	14.9	15.1	16.3	15.6	12.5	15.3	16.1	16.4	11.0	12.8	15.9	14.0
S91-1661	17.6	17.5	15.7	17.3	16.5	14.5	17.0	15.4	17.7	12.7	13.6	1.8	13.1
V89-805	15.7	13.2	16.4	16.3	14.2	12.6	14.4	15.0	18.0	14.2	14.8	15.7	13.7

† Not included in mean.

TABLE 23 - (Continued).

STRAIN/ VARIETY	POR- TAGE- VILLE MO(B)	PRINCE- TON KY	QUEENS- TOWN MD	ST. JOSEPH LA	STARK- VILLE MS	STONE- VILLE MS(A)	STONE- VILLE MS(B)	STUTT- GART AR	SUF- FOLK VA	ULLIN IL	WAR- SAW VA	MEAN
OIL PERCENTAGE												
HUTCHESON	.	21.7	.	21.7	21.5	21.2	21.5	21.9	.	20.9	21.6	21.3
MANOKIN	.	20.5	.	21.6	21.5	20.9	21.3	21.0	.	19.8	20.9	20.7
N90-516	.	20.9	.	21.2	21.0	20.8	20.5	21.3	.	19.7	20.6	20.6
OK88-5420	.	19.6	.	21.0	20.9	21.0	20.9	21.2	.	20.5	20.8	20.6
S88-1854	.	21.1	.	21.8	21.8	21.5	21.5	22.0	.	20.2	20.8	21.1
TN88-87	.	20.1	.	19.9	19.9	20.0	19.8	20.5	.	19.2	20.2	19.7
V88-1234	.	21.2	.	21.6	20.9	21.8	21.6	21.8	.	20.6	21.2	21.2
D91-4619	.	19.7	.	21.0	20.4	20.2	20.7	21.3	.	19.7	20.3	20.3
K1267	.	21.3	.	22.1	22.0	22.5	21.7	22.1	.	20.8	20.6	21.4
K1268	.	20.4	.	21.7	21.7	21.6	21.4	21.1	.	20.0	20.6	20.8
K1276	.	21.6	.	22.0	21.8	22.6	21.9	22.0	.	21.5	21.3	21.7
K1277	.	21.0	.	21.9	22.3	22.2	22.3	21.8	.	20.7	21.3	21.3
KY90-1836	.	21.8	.	21.9	22.3	21.8	21.4	22.4	.	21.1	21.8	21.6
KY90-2786	.	20.7	.	21.0	20.6	20.9	21.7	20.9	.	20.3	21.3	20.7
N91-207	.	20.5	.	21.9	21.8	21.4	21.4	21.6	.	20.6	21.4	21.1
N91-245	.	20.6	.	21.5	21.3	21.2	21.9	22.1	.	20.7	21.3	21.1
R88-638	.	19.8	.	20.9	21.0	20.3	21.0	22.3	.	19.3	20.7	20.3
S91-1381	.	19.8	.	20.7	20.7	20.7	20.3	21.0	.	19.7	20.8	20.4
S91-1661	.	19.7	.	20.5	20.6	20.1	20.9	20.1	.	19.2	20.0	19.8
V89-805	.	20.9	.	21.1	21.5	21.3	21.7	21.7	.	20.8	21.3	21.0
PROTEIN PERCENTAGE												
HUTCHESON	.	39.8	.	41.9	43.6	42.0	41.5	39.8	.	40.3	41.0	41.2
MANOKIN	.	40.2	.	41.1	43.3	41.7	43.1	41.3	.	40.0	40.3	41.2
N90-516	.	39.3	.	41.2	43.3	42.2	40.7	39.3	.	40.5	41.0	41.2
OK88-5420	.	42.0	.	42.2	43.9	42.5	42.4	39.9	.	41.2	41.6	42.0
S88-1854	.	39.6	.	42.7	43.1	43.3	44.0	39.2	.	41.6	40.6	41.6
TN88-87	.	41.0	.	42.7	44.1	44.1	43.1	37.9	.	41.7	42.1	42.1
V88-1234	.	37.6	.	42.2	44.9	42.5	43.6	38.4	.	39.2	39.3	40.8
D91-4619	.	43.7	.	44.8	46.3	47.0	45.0	40.5	.	43.7	42.2	43.7
K1267	.	41.5	.	41.1	44.4	42.2	42.9	40.3	.	40.7	41.0	41.5
K1268	.	41.0	.	41.2	41.9	42.1	42.1	41.8	.	41.9	40.6	41.6
K1276	.	40.8	.	41.4	42.0	41.2	41.5	38.0	.	40.5	40.5	40.5
K1277	.	40.0	.	41.0	43.3	42.0	41.9	40.5	.	40.8	40.9	41.3
KY90-1836	.	40.1	.	40.8	42.7	41.5	41.3	40.3	.	40.6	41.8	41.3
KY90-2786	.	40.1	.	42.5	43.9	42.5	41.9	41.2	.	41.8	41.6	42.0
N91-207	.	40.1	.	41.3	42.2	43.0	43.4	37.5	.	40.2	40.3	40.8
N91-245	.	40.6	.	42.3	43.7	43.2	42.2	35.2	.	41.0	40.6	40.8
R88-638	.	40.7	.	40.9	41.8	42.3	42.2	34.3	.	41.4	40.8	40.5
S91-1381	.	42.0	.	43.9	43.5	45.0	46.3	40.0	.	42.1	41.0	42.3
S91-1661	.	41.2	.	41.7	41.4	43.2	42.9	39.0	.	41.1	39.4	41.2
V89-805	.	40.9	.	40.0	42.3	41.4	40.6	38.9	.	40.6	41.0	40.8
GRAMS PER 100 SEED												
HUTCHESON	14.4	16.1	16.5	13.9	.	.	.	14	16.0	13.7	17.0	15.3
MANOKIN	12.3	14.2	13.8	13.6	.	.	.	11	14.6	13.0	14.6	13.7
N90-516	14.0	15.8	16.2	15.0	.	.	.	13	17.3	16.4	16.4	15.8
OK88-5420	15.0	16.9	16.3	13.5	.	.	.	13	16.6	14.7	17.5	15.8
S88-1854	13.9	16.5	15.7	12.7	.	.	.	13	15.2	15.0	17.3	15.3
TN88-87	11.4	13.9	13.0	12.2	.	.	.	10	13.8	12.0	13.7	13.1
V88-1234	13.6	13.6	14.5	12.4	.	.	.	12	14.5	12.6	14.9	14.0
D91-4619	12.0	15.1	13.7	13.3	.	.	.	12	13.6	12.5	14.2	13.5
K1267	14.8	18.1	18.9	12.3	.	.	.	17	18.2	15.0	19.9	17.4
K1268	13.7	15.9	16.5	13.9	.	.	.	15	15.4	12.3	16.3	15.0
K1276	13.6	15.5	15.1	14.2	.	.	.	11	15.8	14.4	15.8	14.6
K1277	14.4	16.9	18.9	13.7	.	.	.	18	18.9	15.2	19.2	17.3
KY90-1836	13.4	15.2	15.7	11.8	.	.	.	14	18.3	13.8	16.1	15.4
KY90-2786	13.8	15.0	16.2	13.3	.	.	.	15	16.6	13.9	16.0	15.2
N91-207	12.3	16.1	14.6	11.8	.	.	.	11	14.1	12.0	15.6	13.7
N91-245	10.4	14.1	13.2	12.3	.	.	.	10	12.6	10.9	14.2	12.3
R88-638	12.4	15.0	13.1	12.2	.	.	.	10	12.5	12.3	14.5	12.9
S91-1381	12.8	14.9	13.9	13.4	.	.	.	11	14.3	13.0	14.8	14.2
S91-1661	13.6	16.2	15.2	13.5	.	.	.	12	16.0	14.4	16.5	15.3
V89-805	13.3	15.2	16.1	13.5	.	.	.	12	15.8	13.7	16.0	14.7

TABLE 24 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN HUTCHESON FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1994.

EAST COAST						
STRAIN/ VARIETY	GEORGE- TOWN DE	PLY- MOUTH NC†	QUEENS- TOWN MD	SUFFOLK VA	WARSAW VA	MEAN
HUTCHESON	10/17	10/21	10/20	10/15	10/19	10/18
MANOKIN	-11	0	-6	-6	-11	-9
N90-516	-5	-5	-2	-3	-2	-3
OK88-5420	5	3	7	2	3	4
S88-1854	1	3	6	1	4	3
TN88-87	-2	-4	0	-3	-5	-3
V88-1234	2	3	2	-2	-1	0
D91-4619	-2	-6	0	-5	-1	-2
K1267	0	5	3	1	3	1
K1268	5	0	6	2	5	4
K1276	-2	0	-2	-4	-3	-3
K1277	5	0	5	2	4	4
KY90-1836	-6	-3	-6	-7	-11	-8
KY90-2786	-7	5	-2	-5	-7	-5
N91-207	5	3	5	0	3	3
N91-245	3	-4	3	-1	4	2
R88-638	1	0	4	-3	3	1
S91-1381	2	-3	4	-2	3	2
S91-1661	5	3	6	-1	3	3
V89-805	-2	-3	4	-3	0	-1

UPPER AND CENTRAL SOUTH											
STRAIN/ VARIETY	ATH- ENS GA	BELLE MINA AL	CAL- HOUN GA	CLEM- SON SC	KNOX- VILLE TN	MAR- TIN TN	ORA- NGE VA	PRINCE- TON KY	STARK- VILLE MS	ULLIN IL	MEAN
HUTCHESON	10/01	09/23	10/04	10/03	10/05	10/11	10/19	10/15	10/19	10/12	10/05
MANOKIN	-5	-4	-7	-10	-7	-4	10	3	-5	-6	-4
N90-516	-2	-1	-4	-4	1	-4	10	0	0	6	0
OK88-5420	-1	1	1	-1	0	0	13	5	1	9	3
S88-1854	1	4	-1	0	0	6	13	2	5	6	3
TN88-87	-4	-1	-7	-4	-2	-4	6	-1	2	-4	-2
V88-1234	0	2	-6	1	1	0	8	0	3	9	2
D91-4619	-1	26	-3	-4	-1	0	6	1	7	2	3
K1267	0	18	-5	2	0	0	6	4	6	-6	2
K1268	2	8	-1	5	8	10	13	4	10	-6	5
K1276	0	-1	-5	-3	-2	6	9	2	-2	9	1
K1277	-2	16	-5	2	0	6	7	2	7	-4	3
KY90-1836	-5	-4	-5	-9	-6	-4	3	-2	-6	-12	-5
KY90-2786	-4	-4	-6	-7	-5	-4	4	-1	-2	-6	-4
N91-207	2	4	0	4	1	6	12	4	7	5	4
N91-245	2	20	-4	2	3	6	16	0	7	1	5
R88-638	0	3	-5	-1	0	6	15	1	2	2	2
S91-1381	-1	15	-2	2	0	0	9	2	7	4	4
S91-1661	4	15	1	4	2	6	15	4	7	10	7
V89-805	-4	-2	-4	-4	0	-4	8	0	-2	-4	-2

† Not included in mean.

TABLE 24 - (Continued).

DELTA									
STRAIN/ VARIETY	JONES- BORO AR	KEI- SER AR	PINE TREE AR	POR- TAGE- VILLE MO(A)	POR- TAGE- VILLE MO(B)	ST. JOSEPH LA	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
HUTCHESON	09/30	10/04	10/03	10/09	10/09	09/22	09/21	09/22	09/30
MANOKIN	-4	-1	-4	-8	-5	-4	-6	-8	-5
N90-516	8	1	-4	-3	-3	-4	-1	-3	-1
OK88-5420	-2	7	4	2	3	-4	-1	-3	1
S88-1854	4	6	-1	0	-1	0	-2	0	1
TN88-87	-3	-1	-2	-5	-6	-3	-2	-2	-3
V88-1234	2	7	1	-1	0	0	1	0	1
D91-4619	0	4	1	-1	-2	0	1	-1	0
K1267	6	4	2	2	-1	-3	0	2	2
K1268	5	8	-1	3	2	-1	1	3	3
K1276	-2	2	2	-2	2	-2	-6	-8	-2
K1277	7	3	3	2	0	-2	1	3	2
KY90-1836	-8	-1	-5	-9	-7	-5	-6	-5	-6
KY90-2786	-7	-2	-4	-6	-6	-5	-2	-2	-4
N91-207	4	7	4	3	4	1	1	1	3
N91-245	1	6	5	2	-5	-1	1	0	1
R88-638	0	5	1	-2	-1	-3	-1	0	0
S91-1381	4	3	1	-2	-2	-1	1	0	1
S91-1661	7	6	6	3	0	0	1	1	3
V89-805	-3	0	-2	-6	-6	-5	-2	-5	-4

WEST				
STRAIN/ VARIETY	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	MEAN
HUTCHESON	10/25	09/30	10/02	10/09
MANOKIN	2	0	-11	-3
N90-516	2	0	-4	-1
OK88-5420	5	0	-2	1
S88-1854	3	0	-2	0
TN88-87	3	0	-8	-2
V88-1234	9	1	0	3
D91-4619	9	0	-3	2
K1267	7	1	0	3
K1268	9	0	1	3
K1276	3	0	-4	0
K1277	7	1	1	3
KY90-1836	3	0	-11	-3
KY90-2786	0	0	-9	-3
N91-207	7	2	1	3
N91-245	9	1	2	4
R88-638	9	0	-5	2
S91-1381	10	0	-3	2
S91-1661	10	1	0	3
V89-805	7	0	-7	0



TABLE 25 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1994.

## EAST COAST

STRAIN/ VARIETY	GEORGE- TOWN DE	PLYMOUTH NC†	QUEENS- TOWN MD	SUFFOLK VA	WARSAW VA	MEAN
HUTCHESON	27	21	29	34	37	32
MANOKIN	30	19	33	29	39	33
N90-516	30	25	33	34	37	33
OK88-5420	29	24	30	39	40	35
S88-1854	23	23	36	37	41	34
TN88-87	32	27	37	34	41	36
V88-1234	36	32	39	43	44	40
D91-4619	34	25	34	34	41	36
K1267	38	27	41	50	46	44
K1268	36	30	43	51	46	44
K1276	28	22	33	31	37	32
K1277	35	31	42	50	46	43
KY90-1836	23	18	28	27	32	27
KY90-2786	26	21	32	34	37	32
N91-207	39	31	39	42	43	41
N91-245	38	28	36	42	43	40
R88-638	32	24	31	35	38	34
S91-1381	33	26	37	36	41	37
S91-1661	35	26	40	42	43	40
V89-805	36	31	37	38	42	38

## UPPER AND CENTRAL SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	CAL- HOUN GA	CLEM- SON SC	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PRINCE- TON KY	STARK- VILLE MS	ULLIN IL	MEAN
HUTCHESON	29	26	33	33	34	30	28	33	22	36	30
MANOKIN	27	24	28	31	31	31	28	34	16	35	29
N90-516	33	27	31	34	34	28	36	31	23	35	31
OK88-5420	35	28	32	34	31	31	33	35	22	39	32
S88-1854	33	30	35	34	33	37	34	33	24	41	34
TN88-87	37	27	32	36	35	37	38	41	26	38	35
V88-1234	38	32	37	37	39	34	44	42	28	40	37
D91-4619	35	30	36	36	36	36	38	38	34	38	36
K1267	44	40	48	48	44	38	38	39	31	45	41
K1268	40	41	46	47	48	42	41	40	32	42	42
K1276	29	24	33	30	32	29	34	32	21	31	30
K1277	43	37	48	47	46	41	40	38	34	49	42
KY90-1836	24	19	26	26	24	27	28	25	17	31	25
KY90-2786	29	23	30	29	33	31	33	27	20	32	29
N91-207	39	35	36	39	39	42	41	41	32	42	39
N91-245	36	28	37	35	37	32	36	41	32	41	35
R88-638	33	24	32	30	31	28	33	33	28	34	31
S91-1381	36	30	36	36	35	42	42	39	31	40	37
S91-1661	37	35	33	39	39	36	41	42	31	41	37
V89-805	35	29	33	35	37	32	41	36	27	38	34

† Not included in mean.

TABLE 25 - (Continued).

DELTA									
STRAIN/ VARIETY	JONES- BORO AR	KEISER AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	ST. JOSEPH LA	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
HUTCHESON	24	34	32	30	28	22	27	21	27
MANOKIN	21	28	33	31	33	20	24	21	26
N90-516	25	29	32	28	29	22	27	23	27
OK88-5420	27	33	37	34	34	21	33	23	30
S88-1854	29	37	33	29	31	24	29	28	30
TN88-87	29	30	35	30	36	22	32	21	29
V88-1234	33	38	38	35	37	24	32	27	33
D91-4619	30	33	34	30	35	26	34	24	31
K1267	42	49	41	49	38	41	46	37	43
K1268	46	45	41	46	43	41	44	36	43
K1276	21	29	29	20	25	18	25	18	23
K1277	46	47	41	50	40	41	45	37	43
KY90-1836	18	23	24	20	24	15	23	17	21
KY90-2786	21	24	27	20	26	17	26	20	23
N91-207	34	37	43	35	37	30	37	31	35
N91-245	32	35	39	31	34	22	32	29	32
R88-638	27	30	33	32	32	21	27	23	28
S91-1381	28	36	40	23	35	19	30	23	29
S91-1661	36	38	41	41	37	26	29	25	34
V89-805	29	34	36	27	33	22	34	23	30

WEST							
STRAIN/ VARIETY	BOSSIER		CHANUTE KS	MCCUNE KS	PITTSBURG KS	STUTTGART AR	MEAN
	BIXBY OK	CITY LA					
HUTCHESON	30	23	30	37	34	28	30
MANOKIN	30	25	33	37	33	24	30
N90-516	31	27	32	39	34	28	32
OK88-5420	31	29	33	45	39	27	34
S88-1854	30	28	32	37	34	29	32
TN88-87	36	24	34	42	41	30	34
V88-1234	38	29	39	46	39	34	38
D91-4619	36	33	36	45	41	30	37
K1267	39	36	34	46	37	42	39
K1268	25	35	38	45	39	40	37
K1276	32	23	30	38	33	24	30
K1277	42	31	35	46	37	40	39
KY90-1836	30	19	24	26	26	19	24
KY90-2786	30	24	30	34	32	24	29
N91-207	43	29	38	45	41	39	39
N91-245	36	31	37	43	38	33	36
R88-638	37	24	30	37	35	25	31
S91-1381	37	28	36	44	38	33	36
S91-1661	41	30	39	48	45	33	39
V89-805	36	30	34	47	36	31	36

TABLE 26 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1994.

EAST COAST						
STRAIN/ VARIETY	GEORGE- TOWN DE	PLYMOUTH NC†	QUEENS- TOWN MD	SUFFOLK VA	WARSAW VA	MEAN
HUTCHESON	3.7	2.0	3.8	2.0	2.7	3.0
MANOKIN	3.0	2.0	3.6	1.8	2.7	2.8
N90-516	3.0	2.0	4.0	2.7	2.8	3.1
OK88-5420	2.7	2.0	3.9	3.0	3.0	3.2
S88-1854	2.3	2.0	3.7	2.0	4.3	3.1
TN88-87	2.7	2.0	3.7	2.2	2.7	2.8
V88-1234	2.7	2.7	3.8	3.0	2.7	3.0
D91-4619	3.3	3.0	3.9	4.5	3.0	3.7
K1267	1.7	2.0	3.5	2.2	3.2	2.6
K1268	1.7	2.3	3.5	2.8	4.2	3.0
K1276	1.2	2.0	2.0	1.3	1.8	1.6
K1277	1.3	2.0	3.5	2.0	3.3	2.5
KY90-1836	1.5	1.7	2.5	1.3	1.7	1.8
KY90-2786	1.8	2.0	3.0	1.5	2.5	2.2
N91-207	1.8	2.0	3.5	2.2	3.7	2.8
N91-245	1.5	2.0	3.5	2.2	3.7	2.7
R88-638	2.3	2.0	3.6	2.0	3.3	2.8
S91-1381	2.7	2.3	3.8	3.0	3.8	3.3
S91-1661	2.7	2.0	4.0	2.5	3.5	3.2
V89-805	2.5	2.0	3.5	2.5	2.8	2.8

UPPER AND CENTRAL SOUTH											
STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	CAL- HOUN GA	CLEM- SON SC	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PRINCE- TON KY	STARK- VILLE MS	ULLIN IL	MEAN
HUTCHESON	1.9	1.0	1.0	1.7	3.3	2.0	2.3	1.0	1.3	1.2	1.7
MANOKIN	1.8	1.0	1.0	1.7	3.2	2.0	2.3	2.0	1.7	2.0	1.9
N90-516	2.2	1.0	1.2	2.3	4.0	3.0	2.7	1.0	1.7	1.3	2.0
OK88-5420	2.3	1.3	1.2	2.7	3.5	3.0	2.7	2.3	1.7	1.2	2.2
S88-1854	2.2	1.7	1.0	1.3	3.2	3.0	2.0	1.0	1.3	2.7	1.9
TN88-87	1.9	1.0	1.3	2.3	3.0	2.0	2.3	2.0	2.0	1.2	1.9
V88-1234	3.1	1.3	1.7	2.7	3.3	2.0	3.3	3.3	2.7	2.2	2.6
D91-4619	3.5	2.0	3.5	3.3	5.0	2.0	4.0	4.0	4.0	3.5	3.5
K1267	3.4	1.7	1.5	3.3	3.7	2.0	1.7	1.0	2.3	1.3	2.2
K1268	4.1	2.7	2.3	3.7	4.5	2.0	3.3	2.7	2.3	2.8	3.0
K1276	1.4	1.0	1.0	1.0	2.2	3.0	1.3	1.0	1.0	1.0	1.4
K1277	2.9	2.0	1.7	2.7	4.2	3.0	1.3	1.0	2.0	1.8	2.3
KY90-1836	1.5	1.0	1.0	1.0	1.5	2.0	1.3	1.0	1.0	1.0	1.2
KY90-2786	1.6	1.0	1.0	1.7	2.3	3.0	2.0	1.0	1.0	1.0	1.6
N91-207	2.7	2.0	2.3	2.7	4.3	3.0	3.3	2.3	2.3	2.5	2.8
N91-245	1.9	1.3	3.2	1.7	3.7	2.0	2.7	1.7	2.0	2.0	2.2
R88-638	2.1	1.0	2.2	2.0	2.7	2.0	3.0	1.3	2.3	1.8	2.0
S91-1381	3.5	1.0	1.8	2.7	2.8	2.0	3.3	3.0	1.7	1.8	2.4
S91-1661	3.2	2.0	1.7	2.3	4.0	3.0	3.7	3.3	2.0	2.7	2.8
V89-805	2.8	1.3	1.5	2.3	3.0	2.0	2.7	1.7	1.7	1.2	2.0

† Not included in mean.

TABLE 26 - (Continued).

DELTA									
STRAIN/ VARIETY	JONES- BORO AR	KEISER AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	ST. JOSEPH LA	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
HUTCHESON	1.0	1.0	1.3	1.0	1.0	1.3	2.0	2.0	1.3
MANOKIN	1.0	1.3	1.3	1.5	2.0	1.3	2.0	2.0	1.6
N90-516	1.0	1.3	2.0	1.0	2.0	1.3	2.0	2.0	1.6
OK88-5420	1.0	2.0	1.3	1.0	1.5	1.4	2.0	2.0	1.5
S88-1854	1.0	2.0	1.3	1.0	1.0	1.4	2.0	2.0	1.5
TN88-87	1.0	1.7	1.7	1.0	2.0	1.3	2.0	2.0	1.6
V88-1234	1.0	2.0	2.0	1.5	2.0	1.4	2.0	2.0	1.7
D91-4619	1.7	4.0	3.3	2.0	3.0	1.7	2.3	2.0	2.5
K1267	1.7	3.0	2.0	2.0	1.5	1.7	2.0	2.0	2.0
K1268	2.7	4.0	4.0	2.5	2.5	2.1	2.3	2.0	2.8
K1276	1.0	1.0	1.0	1.0	1.0	1.3	2.0	2.0	1.3
K1277	2.3	3.0	2.0	2.0	1.5	1.8	2.0	2.0	2.1
KY90-1836	1.0	1.0	1.0	1.0	1.0	1.2	2.0	2.0	1.3
KY90-2786	1.0	1.0	1.0	1.0	1.0	1.3	2.0	2.0	1.3
N91-207	1.7	3.0	2.0	1.5	2.0	1.7	2.0	2.0	2.0
N91-245	1.3	2.3	2.0	1.0	2.0	1.4	2.0	2.0	1.8
R88-638	1.0	1.0	2.0	1.0	1.0	1.3	2.0	2.0	1.4
S91-1381	1.0	2.0	1.7	1.0	1.5	1.3	2.0	2.0	1.6
S91-1661	1.0	2.3	3.3	1.5	2.0	1.5	2.0	2.0	2.0
V89-805	1.0	1.7	2.0	1.0	2.0	1.3	2.0	2.0	1.6

WEST								
STRAIN/ VARIETY	BOSSIER			CHANUTE KS	MCCUNE KS	PITTSBURG KS	STUTTGART AR	MEAN
	BIXBY OK	CITY LA						
HUTCHESON	4.0	1.0		1.0	2.3	1.0	1.3	1.8
MANOKIN	1.0	1.7		2.0	2.3	2.3	3.3	2.1
N90-516	1.0	1.0		2.3	3.7	1.3	2.0	1.9
OK88-5420	2.0	1.3		1.7	2.7	1.3	1.3	1.7
S88-1854	1.0	1.0		1.7	2.3	1.0	1.3	1.4
TN88-87	4.0	1.0		2.3	2.3	2.0	2.0	2.3
V88-1234	4.0	1.3		2.7	3.7	2.3	3.0	2.8
D91-4619	5.0	2.0		4.0	4.0	3.3	4.3	3.8
K1267	.	1.3		1.0	1.7	1.0	4.0	1.8
K1268	2.0	2.3		2.0	2.3	1.7	5.0	2.6
K1276	1.0	1.0		1.0	1.3	1.0	1.0	1.1
K1277	1.0	1.0		1.0	2.0	1.0	4.3	1.7
KY90-1836	1.0	1.0		1.0	1.0	1.0	1.0	1.0
KY90-2786	2.0	1.0		1.0	1.7	1.0	1.0	1.3
N91-207	4.0	1.7		2.3	3.7	1.7	3.7	2.8
N91-245	3.0	1.3		2.0	3.0	1.3	2.3	2.2
R88-638	4.0	1.0		1.7	3.3	1.3	1.3	2.1
S91-1381	5.0	1.0		2.3	4.0	2.3	3.0	2.9
S91-1661	5.0	1.0		2.7	4.0	3.0	2.0	2.9
V89-805	4.0	1.7		2.3	3.0	1.3	3.0	2.6

TABLE 27 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1994.

EAST COAST						
STRAIN/ VARIETY	GEORGE-	PLYMOUTH	QUEENS-	SUFFOLK	WARSAW	MEAN
	TOWN DE	NC†	TOWN MD	VA	VA	
HUTCHESON	2.0	2.0	1.0	1.0	1.2	1.3
MANOKIN	1.7	2.0	1.0	1.0	1.7	1.3
N90-516	1.7	2.0	1.0	2.0	1.6	1.6
OK88-5420	1.3	2.0	1.0	2.0	1.6	1.5
S88-1854	1.3	2.0	1.0	1.0	1.6	1.2
TN88-87	1.0	2.0	1.0	1.0	1.5	1.1
V88-1234	1.0	2.0	1.0	1.0	1.6	1.2
D91-4619	2.0	2.0	1.0	1.0	1.3	1.3
K1267	2.0	2.0	1.0	2.0	1.8	1.7
K1268	1.3	2.0	1.0	1.7	1.6	1.4
K1276	1.7	2.0	1.0	1.0	1.3	1.2
K1277	1.3	2.0	1.0	2.0	1.8	1.5
KY90-1836	2.0	2.0	1.0	1.3	1.1	1.4
KY90-2786	1.7	2.0	1.0	1.3	1.5	1.4
N91-207	1.0	2.0	1.0	1.0	1.3	1.1
N91-245	1.0	2.0	1.0	1.0	1.3	1.1
R88-638	1.0	2.0	1.0	1.0	1.6	1.2
S91-1381	1.0	2.5	1.0	1.0	1.7	1.2
S91-1661	2.0	2.0	2.0	1.0	1.8	1.7
V89-805	1.3	2.0	1.0	1.0	1.4	1.2

UPPER AND CENTRAL SOUTH									
STRAIN/ VARIETY	ATHENS	BELLE	CAL-	KNOX-	MARTIN	ORANGE	PRINCE-	ULLIN	MEAN
	GA	MINA AL	HOUN GA	VILLE TN	TN	VA	TON KY	IL	
HUTCHESON	2.0	1.0	1.2	2.0	1.0	1.2	5.0	1.0	1.8
MANOKIN	1.7	1.0	2.0	1.5	2.0	1.0	4.0	1.7	1.9
N90-516	2.7	1.0	2.0	2.0	1.0	1.0	5.0	1.7	2.0
OK88-5420	2.7	1.5	1.8	2.0	2.0	1.0	3.0	1.3	1.9
S88-1854	2.0	1.0	1.7	1.5	1.0	1.0	4.0	1.0	1.6
TN88-87	2.3	1.0	2.0	2.0	2.0	1.0	3.0	1.3	1.8
V88-1234	1.8	1.0	1.5	1.5	2.0	1.0	4.0	1.3	1.8
D91-4619	1.8	1.0	2.0	1.5	2.0	1.0	4.0	1.0	1.8
K1267	2.8	1.5	1.8	2.5	2.0	1.0	4.0	1.7	2.2
K1268	2.8	2.0	2.5	1.5	3.0	1.0	3.0	1.7	2.2
K1276	1.8	1.0	1.0	1.0	2.0	1.0	4.0	1.0	1.6
K1277	2.3	2.5	1.8	3.0	3.0	1.0	4.0	1.3	2.4
KY90-1836	2.3	1.0	1.2	2.0	2.0	1.0	5.0	1.0	1.9
KY90-2786	2.2	1.5	1.8	1.5	1.0	1.0	5.0	1.0	1.9
N91-207	1.8	1.0	1.8	1.5	2.0	1.0	3.0	1.0	1.6
N91-245	1.5	1.0	2.3	1.0	2.0	1.0	4.0	1.0	1.7
R88-638	1.8	1.0	2.0	1.5	2.0	1.0	4.0	1.3	1.8
S91-1381	1.5	1.0	1.7	1.0	2.0	1.3	4.0	1.3	1.7
S91-1661	2.2	1.0	2.5	1.5	3.0	1.5	3.0	1.3	2.0
V89-805	2.2	1.0	1.3	1.0	2.0	1.0	4.0	1.0	1.7

† Not included in mean.

TABLE 27 - (Continued).

DELTA								
STRAIN/ VARIETY	JONES- BORO AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	ST. JOSEPH LA	STONE- VILLE MS(A)	STONE- VILLE MS(B)	MEAN
HUTCHESON	1.0	1.0	1.0	1.5	1.7	2.0	2.0	1.5
MANOKIN	1.7	1.3	1.0	1.0	1.6	2.0	2.3	1.6
N90-516	1.3	1.0	1.5	1.5	1.6	2.0	2.0	1.6
OK88-5420	1.7	2.0	2.0	2.0	1.6	2.0	2.0	1.9
S88-1854	2.0	1.3	1.0	1.5	1.7	2.0	2.0	1.6
TN88-87	2.0	1.0	1.0	1.0	1.7	2.0	2.0	1.5
V88-1234	1.0	1.0	1.0	1.0	1.7	2.0	2.0	1.4
D91-4619	1.3	1.3	1.0	1.0	1.5	2.0	2.0	1.5
K1267	2.0	2.0	2.0	2.0	1.6	2.0	2.3	2.0
K1268	2.3	1.7	1.5	1.5	1.5	2.0	2.3	1.8
K1276	2.7	1.0	2.0	1.5	1.8	2.0	2.0	1.9
K1277	2.0	2.0	1.5	2.0	1.6	2.0	2.0	1.9
KY90-1836	1.3	1.7	1.5	1.5	1.9	2.0	2.0	1.7
KY90-2786	2.0	1.3	1.5	1.5	2.0	2.0	2.0	1.8
N91-207	1.7	1.0	1.5	2.0	1.8	2.0	2.0	1.7
N91-245	2.0	1.0	1.0	1.0	1.7	2.0	2.0	1.5
R88-638	2.0	1.3	1.5	1.0	1.5	2.0	2.0	1.6
S91-1381	1.7	1.0	1.5	1.0	1.6	2.0	2.3	1.6
S91-1661	2.0	1.3	2.0	2.0	1.8	2.0	2.0	1.9
V89-805	1.7	1.0	2.0	1.5	1.6	2.0	2.0	1.7

WEST		
STRAIN/VARIETY	BOSSIER CITY	
	LA	MEAN
HUTCHESON	1.0	1.0
MANOKIN	1.0	1.0
N90-516	1.0	1.0
OK88-5420	1.0	1.0
S88-1854	1.3	1.3
TN88-87	1.0	1.0
V88-1234	1.0	1.0
D91-4619	1.0	1.0
K1267	1.7	1.7
K1268	1.0	1.0
K1276	1.0	1.0
K1277	1.7	1.7
KY90-1836	1.0	1.0
KY90-2786	1.0	1.0
N91-207	2.3	2.3
N91-245	1.0	1.0
R88-638	1.0	1.0
S91-1381	1.0	1.0
S91-1661	2.0	2.0
V89-805	1.0	1.0

**PRELIMINARY GROUP V****1994**

Preliminary Group V nurseries were planted at 11 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 28. Table 29 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 30 - 36.

The cultivar Hutcheson is the yield and maturity check. It had a mean yield of 56.1 bushels per acre and a mean maturity of October 10 at the 11 locations.

TABLE 28 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 1994.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	F5
2. MANOKIN	L70-L3048 X D74-7824	F5
3. D92-3363	D82-2896 X EPPS	F5
4. D91-4630	EPPS X SHARKEY	F5
5. D91-4657	EPPS X SHARKEY	F5
6. D91-9321	D87-5963 X (EPPS X SHARKEY)	F4
7. D91-9368	D87-5963 X (EPPS X SHARKEY)	F4
8. F90-5607	PI 417479 X F85-1138	F5
9. F90-5705	BEDFORD X F84-6291	F5
10. F90-5904	PI 417479 X F85-1235	F5
11. F91-1143	PI 417479 X F85-1138	F6
12. F91-1419	PI 417479 X F87-4017	F5
13. K1308	K1133 X FLYER	F5
14. K1309	K1133 X N83-375	F5
15. K1310	K1133 X N83-375	F5
16. K1311	K1133 X N83-375	F5
17. K1312	N83 X 375 X R85-3309	F5
18. KY91-1352	SOUTHERN STATES SS391 X KY84-1616	F5
19. KY91-1385	SOUTHERN STATES SS391 X KY84-1616	F5
20. KY91-1663	COKER 6925 X ASGROW A3935	F5
21. KY91-11103	ASGROW A3935 X KY84-1616	F5
22. KY91-11114	ASGROW A3935 X KY84-1616	F5
23. LS91-1127	ESSEX X FORREST	F5
24. MD91-5297	SPENCER X MANOKIN	F5
25. MD91-5839	K1130 X MORGAN	F5
26. N92-32	N85-492 X PI43832B	F6
27. N92-189	AU82-211 X N85-578	F6
28. N92-195	AU82-211 X N85-578	F6
29. N91-243	NRS5Y	F6
30. N91-610	N84-564 X HOWARD	F6
31. NTCPR93-286	YOUNG X SUZUYATAKA	F4
32. NTCPR93-644	YOUNG X SUZUYATAKA	F4
33. OK89-5602	BEDFORD X ESSEX	F4
34. R91-429	HARTZ 6381 X WALTERS	F6
35. R91-500	HARTZ 638 X WALTERS	F6
36. R91-988	NAROW X STEVENS	F4
37. R91-4255	NAROW X WILLIAMS 82	F5
38. R91-4594	R85-336 X WALTERS	F5
39. S92-1173-5	PIONEER 9582 X HARTWIG	F5
40. S92-1755	PIONEER 9531 X HARTWIG	F5
41. S92-1403	PIONEER 9581 X HARTWIG	F5
42. S92-1464	PIONEER 9531 X HARTWIG	F5
43. S92-1603	ASGROW 5403 X HARTWIG	F5
44. TN89-39	TN81-2 X TN80-69	F7
45. TN90-91	STAFFORD X TN82-94	F6
46. TN90-177	TN5-85 X V87-727	F6
47. TN90-178	TN5-85 X V87-727	F6
48. TN91-276	TN4-86 X HUTCHESON	F6
49. V90-816	HUTCHESON X 9441	F4
50. V90-951	CHESAPEAKE X HUTCHESON	F4
51. V90-1012	HUTCHESON X (FFR561 X TOANO)	F5
52. V90-1299	V83-245 X DELSOY 4900	F5



TABLE 29 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V, 1994.

STRAIN/ VARIETY	SEED YIELD	MAT INDEX	HT.	OIL	PRO- TEIN	SEED SIZE	LODG- ING	SEED QUALITY
HUTCHESON	56.1	10/10	32	21.5	41.4	15.7	1.8	1.6
MANOKIN	51.9	5-	31	20.6-	41.2	13.9	2.1	1.7
D92-3363	53.3	3+	36	20.1-	42.4+	14.1	3.4	1.6
D91-4630	51.7	2+	38	20.3-	43.3+	13.5	3.1	1.7
D91-4657	51.5-	1+	39	20.7-	43.1+	16.1	3.1	1.8
D91-9321	53.0	0	33	20.8-	41.3	13.3	3.2	1.8
D91-9368	49.7-	0	42	20.5-	43.5+	13.3	3.2	1.6
F90-5607	44.3-	6+	39	19.6-	43.2+	14.5	3.2	1.9
F90-5705	46.0-	3+	37	19.7-	42.9+	15.7	2.1	1.8
F90-5904	43.0-	5+	40	19.3-	42.4+	18.4	3.8	2.0
F91-1143	47.8-	3-	38	42.5+	42.5+	15.2	2.5	1.6
F91-1419	45.5-	7+	30	42.4+	42.4+	13.9	1.9	1.9
K1308	55.6	1-	33	21.4	41.4	14.2	1.8	1.5
K1309	57.4	5-	28	20.2-	20.2-	12.7	1.6	1.8
K1310	53.9	3-	33	20.9-	20.9-	13.9	1.5	1.6
K1311	55.3	4-	28	20.6-	20.6-	13.5	1.8	1.6
K1312	54.5	4-	34	20.2-	20.2-	13.7	2.2	1.7
KY91-1352	56.3	6-	41	20.9-	20.9-	15.1	1.7	1.6
KY91-1385	54.3	4-	43	20.8-	20.8-	15.4	2.3	1.6
KY91-1663	52.8	7-	42	21.3	21.3	14.9	1.9	1.7
KY91-11103	56.1	6-	39	20.6-	20.6-	15.9	1.7	1.8
KY91-11114	57.4	4-	40	21.2	21.2	15.8	1.8	1.9
LS91-1127	53.1	3-	32	20.4-	20.4-	14.3	1.7	1.5
MD91-5297	52.8	1-	30	20.0-	20.0-	15.3	1.5	1.6
MD91-5839	51.0-	6-	28	21.0-	21.0-	16.9	1.7	1.8
N92-32	53.1	3+	35	21.2	40.2-	15.5	1.8	1.5
N92-189	57.5	5-	30	21.0-	40.7	16.4	2.3	1.8
N92-195	6.4	3-	29	20.6-	40.2-	15.0	1.9	1.6
N91-243	50.4-	6+	39	20.4-	41.8	12.0	2.1	1.7
N91-610	51.4-	6+	38	20.4-	42.0	13.8	2.7	1.7
NTCPR93-28	51.3-	7+	34	21.0-	42.4+	17.9	1.8	1.6
NTCPR93-64	48.3-	7+	39	20.3-	41.7	15.1	2.8	1.7
OK89-5602	54.2	2+	30	20.6-	43.8+	14.4	1.9	1.6
R91-429	54.4	3+	35	20.1-	41.6	14.4	2.6	1.7
R91-500	52.7	6+	34	19.6-	43.5+	12.8	2.5	1.8
R91-988	43.5-	6-	50	20.8-	42.6+	14.6	2.7	2.1
R91-4255	49.3-	3-	46	20.6-	41.9-	14.5	2.2	1.8
R91-4594	52.4	2+	33	20.7-	41.1	13.9	2.6	1.7
S92-1173-5	48.9-	3+	36	20.0-	41.4	14.7	2.7	2.1
S92-1755	50.5-	0	37	20.2-	42.1	12.0	2.2	1.6
S92-1403	52.7	1+	37	19.8-	42.8+	13.4	2.9	1.8
S92-1464	49.5-	0	35	20.4-	40.0-	12.4	2.4	1.7
S92-1603	50.7-	2+	39	19.9-	41.9	12.0	2.3	1.7
TN89-39	55.8	2+	35	20.2-	41.6	14.9	1.9	1.8
TN90-91	53.1	6-	31	20.2-	42.7+	14.8	1.8	1.9
TN90-177	52.9	2-	30	20.8-	42.1	13.2	1.6	1.6
TN90-178	51.4-	1-	33	20.3-	41.8	12.9	2.0	1.6
TN91-276	50.9-	0	32	20.8-	41.8	13.7	1.7	1.6
V90-816	52.6	5-	42	20.8-	42.2+	17.9	2.4	1.9
V90-951	50.2-	4-	46	20.6-	41.7	14.8	2.5	1.7
V90-1012	59.0	0	34	21.3	41.5	16.4	1.7	1.6
V90-1299	48.8-	1-	33	20.5-	41.6-	14.7	1.9	1.6
Overall Mean	52.0			20.5	41.9			
L.S.D. (0.05)	4.4			0.4	0.8			
C.V.(%)	10.1			1.9	1.8			

TABLE 29 - (Continued).

STRAIN/ VARIETY	M.a. TN	M.i. TN	SCN		STEM CANKER
			3	14	MS
HUTCHESON	4.0	1.0	5.0	4.0	1.1
MANOKIN	1.1	1.0	1.0	4.0	1.0
D92-3363	3.3	1.0	2.0	3.1	---
D91-4630	4.0	1.3	1.3	3.3	1.0
D91-4657	4.0	1.4	2.0	3.2	1.0
D91-9321	4.0	1.3	2.4	2.0	3.4
D91-9368	4.0	1.4	2.0	1.3	1.0
F90-5607	3.4	1.1	5.0	4.0	3.0
F90-5705	1.1	1.0	5.0	4.1	2.0
F90-5904	3.3	1.0	5.0	3.4	3.4
F91-1143	4.0	1.0	5.0	4.3	3.0
F91-1419	4.0	1.0	---	3.0	4.0
K1308	3.3	2.0	5.0	4.0	4.0
K1309	3.4	1.4	5.0	4.0	4.0
K1310	4.0	1.1	5.0	3.4	4.0
K1311	3.1	1.0	5.0	4.0	3.3
K1312	4.0	2.0	5.0	4.1	3.1
KY91-1352	4.0	1.0	5.0	5.0	1.0
KY91-1385	4.0	1.0	5.0	4.0	1.0
KY91-1663	4.0	1.0	5.0	4.3	1.3
KY91-11103	4.0	1.1	5.0	5.0	1.0
KY91-11114	4.0	2.0	5.0	4.2	1.0
LS91-1127	4.0	1.0	5.0	5.0	3.1
MD91-5297	2.0	1.0	2.0	5.0	1.4
MD91-5839	4.0	2.0	5.0	4.3	1.0
N92-32	3.0	1.0	5.0	4.0	1.0
N92-189	4.0	1.0	5.0	4.0	4.3
N92-195	4.0	1.0	5.0	4.3	3.0
N91-243	1.3	1.2	5.0	5.0	4.0
N91-610	3.4	1.4	5.0	4.3	4.0
NTCPR93-28	4.0	1.0	5.0	4.2	4.0
NTCPR93-64	4.1	2.0	5.0	5.0	1.0
OK89-5602	4.0	2.1	5.0	5.0	3.0
R91-429	1.0	1.0	2.0	4.3	3.0
R91-500	1.0	1.0	1.4	5.0	3.4
R91-988	4.0	2.0	5.0	4.3	5.0
R91-4255	4.0	1.3	2.4	4.0	3.3
R91-4594	4.0	2.2	5.0	4.4	3.0
S92-1173-5	4.0	1.0	1.0	1.0	4.0
S92-1755	2.0	1.0	1.0	1.3	3.0
S92-1403	1.1	1.0	1.0	1.0	4.0
S92-1464	1.3	1.0	1.0	1.1	4.0
S92-1603	1.0	1.4	1.0	1.0	4.0
TN89-39	2.0	1.0	2.1	3.4	3.0
TN90-91	2.0	1.3	5.0	4.0	2.4
TN90-177	4.0	1.4	5.0	4.3	3.4
TN90-178	3.4	1.0	5.0	4.0	3.4
TN91-276	3.4	1.0	1.3	2.3	1.0
V90-816	4.0	1.0	5.0	4.3	3.0
V90-951	4.0	1.0	5.0	5.0	2.0
V90-1012	4.0	1.0	5.0	4.0	1.0
V90-1299	4.0	1.0	5.0	4.0	1.0

TABLE 30 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP V, 1994.

STRAIN/ VARIETY	BIXBY OK	JACK- SON TN	KEISER AR	PITTS- BURG KS	PLY- MOUTH NC	PORTAGE- VILLE MO(A)
HUTCHESON	58.1	57.0	79.1	55.0	25.1	51.1
MANOKIN	43.2-	51.8	71.0-	46.7-	32.1	53.4
D92-3363	56.8	52.3	64.3-	38.0-	48.7+	45.5
D91-4630	51.5	56.3	66.3-	34.0-	43.8+	49.5
D91-4657	49.9	55.5	64.3-	31.7-	47.8+	50.0
D91-9321	50.6	53.0	64.0-	37.8-	46.0+	36.1-
D91-9368	51.1	50.0	65.2-	38.3-	42.3+	42.6
F90-5607	40.3-	41.9-	64.1-	27.4-	32.3	39.2-
F90-5705	47.1	43.2-	65.3-	40.6-	45.8+	35.0-
F90-5904	34.3-	43.0-	60.2-	27.7-	41.0+	38.3-
F91-1143	48.5	44.6	63.7-	39.2-	50.8+	38.5-
F91-1419	37.1-	48.4	69.0-	30.4-	49.3+	35.4-
K1308	57.3	51.7	75.0	54.4	46.7+	54.4
K1309	62.3	57.6	75.5	55.5	46.1+	45.7
K1310	64.1	53.9	75.3	48.6-	50.7+	42.5
K1311	63.2	59.2	72.1	42.5-	43.1+	50.8
K1312	55.8	60.5	70.1-	49.1	56.7+	44.8
KY91-1352	63.2	62.8	67.4-	42.9-	53.1+	50.2
KY91-1385	55.1	53.8	65.7-	48.9-	54.4+	45.6
KY91-1663	56.5	48.9	72.1	49.7	47.6+	46.9
KY91-11103	60.8	52.0	70.4-	44.9-	51.7+	45.1
KY91-11114	63.8	55.4	66.0-	49.0	51.4+	44.5
LS91-1127	52.3	59.4	68.6-	49.6	38.2	43.3
MD91-5297	63.4	52.8	69.2-	50.8	38.9+	38.0-
MD91-5839	57.6	51.9	72.4	49.4	35.4	44.2
N92-32	44.7-	51.5	78.1	44.1-	57.4+	47.0
N92-189	53.1	58.8	79.5	51.1	49.6+	47.2
N92-195	52.3	54.5	79.5	47.1-	45.6+	54.0
N91-243	48.6	46.3	72.0-	50.7	41.6+	42.3
N91-610	53.3	50.3	71.4-	39.7-	50.2+	48.0
NTCPR93-286	43.7-	47.7	68.3-	47.2-	42.9+	47.0
NTCPR93-644	57.6	46.8	64.7-	49.7	40.2+	36.7-
OK89-5602	59.4	54.9	71.5-	54.9	45.8+	42.7
R91-429	54.0	53.6	76.6	45.6-	57.9+	49.7
R91-500	35.6-	56.5	78.1	46.4-	53.9+	53.3
R91-988	38.0-	47.6	56.1-	39.3-	41.6+	33.7-
R91-4255	50.1	49.7	62.4-	45.5-	49.4+	43.8
R91-4594	53.6	53.0	74.6	40.4-	48.5+	46.3
S92-1173-5	51.6	52.8	66.4-	31.3-	50.8+	41.0
S92-1755	58.5	52.1	66.9-	45.5-	47.3+	40.3-
S92-1403	59.5	52.7	66.5-	48.7-	45.3+	39.6-
S92-1464	56.6	49.5-	60.7-	43.6-	37.6	42.4
S92-1603	62.6	54.2	67.8-	40.6-	33.2	41.2
TN89-39	59.1	57.4	78.3	51.4	41.6+	46.0
TN90-91	55.7	55.8	73.2	45.8-	36.7	42.1
TN90-177	43.7-	56.6	73.4	49.7	40.9+	50.1
TN90-178	51.7	54.9	81.7	40.7-	29.8	46.5
TN91-276	54.4	48.7	69.6-	50.0	45.8+	47.1
V90-816	50.7	57.4	62.0-	44.6-	44.5+	44.3
V90-951	54.6	51.3	68.0-	48.2-	41.0+	36.8-
V90-1012	70.5+	54.0	73.5	48.6-	54.1+	51.2
V90-1299	45.5-	56.1	70.8-	41.4-	38.3	41.5
Overall Mean	53.1	52.0	69.7	44.5	44.8	44.4
L.S.D. (0.05)	12.3	13.0	7.0	6.0	13.3	10.6
C.V. (%)	11.6	15.6	5.0	6.7	14.8	11.9

TABLE 30 - (Continued).

STRAIN/ VARIETY	QUEENS- TOWN MD	STONE- VILLE MS(A)	STONE- VILLE MS(B)	ULLIN IL	WAR- SAW VA	MEAN
HUTCHESON	55.5	54.3	46.2	71.0	65.2	56.1
MANOKIN	51.8	50.9	34.9-	71.1	64.2	51.9
D92-3363	54.0	53.7	42.8	63.2	67.1	53.3
D91-4630	48.5	47.8	47.2	64.0	60.2	51.7
D91-4657	48.9	51.4	46.5	62.0	59.2	51.5-
D91-9321	52.9	60.4	46.6	68.8	60.3	51.8
D91-9368	43.4-	46.1-	47.8	65.9	54.2	49.7-
F90-5607	43.0-	50.1	42.0	45.7-	61.0	44.3-
F90-5705	43.1-	46.4	35.3-	51.2-	53.5	46.0-
F90-5904	43.1-	45.0-	35.1-	38.9-	66.5	43.0-
F91-1143	45.1-	44.5-	33.2-	57.3-	60.8	47.8-
F91-1419	42.0-	48.3	39.2-	57.3-	43.8-	45.5-
K1308	60.5	49.1	36.6-	59.9-	66.4	55.6
K1309	57.7	52.4	38.2-	67.8	72.4	57.4
K1310	52.0	52.0	40.0-	62.7	57.7	53.0
K1311	60.6	54.6	40.1-	58.4-	63.6	55.3
K1312	53.6	50.5	36.1-	65.1	57.9	54.5
KY91-1352	55.5	53.8	39.5-	67.3	63.2	56.3
KY91-1385	61.9	51.9	46.2	56.5-	57.8	54.3
KY91-1663	56.5	50.3	37.9-	58.5-	56.1	52.8
KY91-11103	57.6	62.0	43.5	66.6	63.2	56.1
KY91-11114	61.9	58.0	39.2-	75.1	67.3	57.4
LS91-1127	52.9	49.8	34.1-	70.8	65.0	53.1
MD91-5297	52.5	48.3	37.3-	62.7	65.0	51.7
MD91-5839	51.6	44.9-	31.0-	64.6	58.6	51.0-
N92-32	51.7	34.5-	46.4	58.6-	70.2	53.1
N92-189	58.6	51.9	42.7	68.8	71.4	57.5
N92-195	54.6	49.8	45.2	65.9	72.4	56.4
N91-243	48.1	44.5-	37.2-	58.3-	64.4	50.4-
N91-610	51.1	46.1-	41.7	59.3-	54.5	51.4-
NTCPR93-286	48.9	41.6-	44.6	69.9	62.1	51.3-
NTCPR93-644	44.0-	42.3-	38.5-	54.9-	56.6	48.3-
OK89-5602	50.9	48.8	44.2	62.1	61.5	54.2
R91-429	55.2	50.0	37.1-	58.2-	60.7	54.4
R91-500	47.7	46.0-	44.3	57.5-	61.0	52.7
R91-988	42.4-	50.6	33.9-	46.5-	49.3-	43.5-
R91-4255	48.1	50.0	35.8-	53.6-	53.9	49.3-
R91-4594	49.7	51.6	44.8	63.6	49.9-	52.4
S92-1173-5	45.8-	45.2-	34.6-	52.6-	65.4	48.9-
S92-1755	50.4	39.6-	32.5-	64.6	58.6	50.5-
S92-1403	55.6	51.4	39.6-	57.8-	63.0	51.7
S92-1464	45.3-	47.3	36.4-	66.9	58.1	48.6-
S92-1603	51.1	45.0-	34.2-	63.3	64.8	50.7-
TN89-39	58.1	49.3	36.5-	71.9	64.8	55.8
TN90-91	53.2	51.4	37.5-	64.7	68.4	53.1
TN90-177	51.3	48.2	36.0-	69.5	62.8	52.9
TN90-178	54.6	48.3	35.7-	57.0-	64.8	51.4-
TN91-276	47.6	46.5	37.4-	56.9-	55.9	50.9-
V90-816	57.1	51.4	42.5	58.7-	65.0	52.6
V90-951	54.9	43.4-	36.0-	64.7	53.7	50.2-
V90-1012	58.7	57.7	46.4	71.9	62.1	59.0
V90-1299	48.1	41.6-	33.0-	67.3	53.4	48.8-
Overall Mean	51.7	49.0	39.4	61.9	61.1	52.0
L.S.D. (0.05)	8.9	8.1	5.1	10.8	12.5	4.4
C.V. (%)	8.6	8.2	6.5	8.7	10.2	10.1

TABLE 31 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP V, 1994.

STRAIN/ VARIETY	JACK- SON TN	PLY- MOUTH NC	PORTAGE- VILLE MO(A)	STONE- VILLE MS(A)	STONE- VILLE MS(B)	ULLIN IL	WAR- SAW VA	MEAN
HUTCHESON	20.9	21.1	21.6	21.6	21.9	21.2	21.9	21.5
MANOKIN	20.7	20.0	20.8	21.0	21.6	19.7	20.7	20.6
D92-3363	19.5	21.7	19.9	20.0	20.4	19.3	20.0	20.1
D91-4630	20.5	19.5	20.3	20.6	21.2	19.4	20.6	20.3
D91-4657	20.5	20.2	21.3	20.8	21.5	19.3	21.3	20.7
D91-9321	20.4	20.1	21.1	21.5	21.8	19.8	20.9	20.8
D91-9368	20.3	20.0	21.0	20.2	21.5	19.4	20.9	20.5
F90-5607	18.9	20.5	19.5	19.7	20.1	19.0	19.6	19.6
F90-5705	19.3	19.4	19.8	19.7	20.5	19.4	19.5	19.7
F90-5904	18.7	18.3	19.4	19.7	20.4	17.8	21.0	19.3
F91-1143	20.3	19.6	20.5	21.0	21.2	20.3	19.4	20.3
F91-1419	19.6	19.9	20.3	20.6	21.0	19.6	19.1	20.0
K1308	20.4	20.7	21.0	21.6	21.9	20.5	20.4	20.9
K1309	19.9	19.7	20.8	20.6	20.8	19.5	20.0	20.2
K1310	20.6	20.3	21.2	21.9	21.7	19.8	20.3	20.8
K1311	20.3	20.5	20.6	21.0	21.4	19.8	20.8	20.6
K1312	19.9	20.2	20.9	19.9	20.6	19.8	19.9	20.2
KY91-1352	20.8	20.7	20.8	21.5	21.3	20.6	20.4	20.9
KY91-1385	20.8	21.4	21.8	21.1	21.2	19.9	20.2	20.9
KY91-1663	21.4	20.9	21.2	21.7	22.5	20.7	20.7	21.3
KY91-11103	20.9	20.1	20.9	20.7	21.7	19.9	19.7	20.6
KY91-11114	21.4	21.1	21.6	21.3	21.8	20.5	21.1	21.3
LS91-1127	19.8	20.4	20.8	20.5	20.7	20.0	20.5	20.4
MD91-5297	19.7	19.8	20.5	20.0	20.5	19.7	20.2	20.1
MD91-5839	20.6	21.0	21.5	21.2	21.0	20.6	20.7	20.9
N92-32	21.3	20.7	21.4	21.3	22.0	20.5	20.9	21.2
N92-189	19.9	21.0	21.6	21.4	21.9	20.5	20.6	21.0
N92-195	20.2	19.8	21.2	21.1	21.8	20.1	20.4	20.7
N91-243	20.3	20.2	20.8	20.7	21.2	19.6	19.9	20.4
N91-610	19.9	19.8	20.3	21.2	21.1	20.0	20.2	20.4
NTCPR93-286	20.8	20.8	21.1	21.6	21.5	20.3	20.8	21.0
NTCPR93-644	19.7	20.8	21.0	20.7	20.8	19.3	19.8	20.3
OK89-5602	20.3	20.6	20.8	21.0	21.0	19.9	20.0	20.5
R91-429	20.2	19.9	21.1	20.7	20.1	19.2	19.9	20.2
R91-500	19.0	19.1	19.6	19.7	21.5	18.8	19.6	19.6
R91-988	21.2	20.0	21.5	21.2	21.1	20.2	20.4	20.8
R91-4255	20.7	19.6	20.9	20.8	21.4	20.0	20.3	20.5
R91-4594	20.9	20.2	21.6	21.2	20.8	20.0	20.2	20.7
S92-1173-5	20.0	19.5	20.6	19.9	21.3	18.8	19.7	20.0
S92-1755	20.9	19.8	21.1	20.4	20.5	19.5	19.5	20.2
S92-1403	20.1	19.9	20.7	20.2	20.4	18.1	19.3	19.8
S92-1464	20.4	19.8	21.0	20.7	21.1	19.2	20.5	20.4
S92-1603	19.9	19.5	20.3	20.1	20.3	19.0	19.8	19.8
TN89-39	20.4	19.9	20.4	20.5	20.5	19.6	19.8	20.2
TN90-91	19.9	19.8	20.8	20.4	21.3	19.5	19.9	20.2
TN90-177	20.5	21.9	21.1	20.2	21.0	20.6	20.3	20.8
TN90-178	20.4	19.7	20.1	20.9	21.0	19.6	20.3	20.3
TN91-276	20.8	20.7	20.7	20.5	21.6	20.6	20.3	20.7
V90-816	20.8	20.3	20.9	21.3	21.4	20.4	20.3	20.8
V90-951	20.7	20.1	20.8	21.2	21.1	20.2	20.5	20.7
V90-1012	20.6	20.8	21.6	22.0	22.0	20.8	21.2	21.3
V90-1299	20.2	20.8	21.1	20.6	21.4	19.9	19.5	20.5

TABLE 32 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP V, 1994.

STRAIN/ VARIETY	JACK- SON TN	PLY- MOUTH NC	PORTAGE- VILLE MO(A)	STONE- VILLE MS(A)	STONE- VILLE MS(B)	ULLIN IL	WAR- SAW VA	MEAN
HUTCHESON	40.9	43.4	40.4	42.3	40.9	41.0	41.0	41.4
MANOKIN	40.2	42.6	39.7	42.9	42.5	40.2	40.7	41.3
D92-3363	42.9	40.9	41.2	44.1	43.7	42.7	41.1	42.4
D91-4630	42.3	45.1	41.9	45.4	44.5	42.3	41.3	43.3
D91-4657	41.7	44.3	41.2	45.6	44.0	44.0	40.9	43.1
D91-9321	40.8	42.2	39.0	42.3	42.4	41.1	41.2	41.3
D91-9368	43.0	44.1	40.5	46.4	43.7	45.1	42.0	43.5
F90-5607	43.3	42.9	41.9	45.2	44.4	41.9	42.0	43.1
F90-5705	43.8	42.9	41.2	44.5	43.1	42.8	42.1	42.9
F90-5904	41.3	44.7	41.9	43.9	42.0	42.0	40.6	42.3
F91-1143	42.4	44.6	41.5	43.9	44.3	41.0	41.2	42.7
F91-1419	42.5	43.8	39.9	44.7	43.2	41.3	41.3	42.4
K1308	42.2	42.6	40.2	42.9	41.2	40.6	40.8	41.5
K1309	39.5	42.4	37.7	41.9	40.7	39.9	40.9	40.4
K1310	40.2	42.0	37.5	42.1	41.8	40.6	40.9	40.7
K1311	39.2	41.9	38.2	41.2	39.8	40.0	40.2	40.1
K1312	41.9	42.7	39.9	44.0	43.0	41.7	42.3	42.2
KY91-1352	42.4	41.3	39.8	42.9	42.9	41.6	41.7	41.8
KY91-1385	41.0	41.0	38.8	44.5	43.1	42.7	42.5	41.9
KY91-1663	40.8	41.8	39.7	41.5	40.5	41.4	41.1	41.0
KY91-11103	42.4	42.4	39.3	43.5	42.7	42.9	41.4	42.1
KY91-11114	42.8	42.3	39.9	44.4	43.7	42.3	42.2	42.5
LS91-1127	42.1	43.3	39.1	42.7	42.4	41.4	41.6	41.8
MD91-5297	41.5	45.1	39.3	44.2	43.8	42.0	41.6	42.5
MD91-5839	41.1	42.2	39.9	43.6	42.7	40.7	41.2	41.6
N92-32	40.6	42.5	38.9	40.9	39.4	40.6	39.2	40.3
N92-189	41.7	41.2	38.8	41.5	40.5	40.5	40.5	40.7
N92-195	39.8	42.1	37.1	41.7	40.0	40.7	40.4	40.3
N91-243	42.4	42.9	40.0	43.1	41.5	42.1	40.7	41.8
N91-610	42.7	42.7	40.4	42.4	42.8	42.1	40.4	41.9
NTCPR93-286	42.4	43.8	41.2	43.5	43.6	41.2	41.5	42.5
NTCPR93-644	42.6	42.8	40.1	41.3	41.5	42.1	41.6	41.7
OK89-5602	44.3	44.7	41.3	45.5	43.2	44.6	44.1	44.0
R91-429	40.7	42.0	40.1	43.6	43.7	41.5	40.6	41.7
R91-500	44.5	43.7	42.2	45.0	42.7	43.6	42.6	43.5
R91-988	42.0	43.3	40.0	43.8	43.4	43.1	42.4	42.6
R91-4255	41.4	42.6	41.0	43.3	42.5	42.3	41.3	42.1
R91-4594	40.2	43.5	38.2	41.6	42.0	41.7	41.0	41.2
S92-1173-5	41.1	41.9	39.3	43.3	42.6	40.6	40.7	41.4
S92-1755	40.1	43.8	39.3	45.7	43.0	42.5	40.4	42.1
S92-1403	42.6	43.5	39.9	44.5	43.7	43.3	41.5	42.7
S92-1464	40.0	40.4	37.9	42.1	39.7	40.2	39.5	40.0
S92-1603	41.6	42.8	39.0	43.7	43.4	42.3	41.3	42.0
TN89-39	40.5	42.7	40.2	43.3	42.3	42.0	40.5	41.6
TN90-91	42.9	44.2	40.9	43.0	43.0	42.7	42.2	42.7
TN90-177	42.0	41.3	38.5	43.8	43.1	43.1	42.7	42.1
TN90-178	40.8	43.6	40.9	42.3	42.2	42.0	41.4	41.9
TN91-276	40.7	43.3	40.8	43.8	42.0	41.7	41.2	41.9
V90-816	42.5	43.1	40.4	43.0	42.0	42.6	41.5	42.2
V90-951	42.0	41.9	39.7	42.0	41.3	43.0	42.6	41.8
V90-1012	42.2	42.3	40.2	41.9	41.4	42.3	41.1	41.6
V90-1299	40.8	43.1	39.4	42.8	41.8	42.0	41.0	41.6

TABLE 33 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP V, 1994.

STRAIN/ VARIETY	BIXBY OK	JACK- SON TN	PLY- MOUTH NC	PORTAGE- VILLE MO(A)	QUEENS- TOWN MD	ULLIN IL	WAR- SAW VA	MEAN
HUTCHESON	17.4	13.9	18.8	13.5	15.5	15.2	15.9	15.7
MANOKIN	14.6	11.8	17.4	12.3	12.8	14.0	14.4	13.9
D92-3363	15.6	13.2	14.3	12.8	13.3	14.6	14.7	14.1
D91-4630	14.3	12.8	14.3	12.7	13.3	13.1	14.3	13.5
D91-4657	18.4	14.5	15.8	13.8	16.2	16.9	17.0	16.1
D91-9321	14.7	12.9	13.0	11.4	12.5	13.1	15.4	13.3
D91-9368	15.3	11.9	13.3	11.4	13.4	13.8	14.2	13.3
F90-5607	14.7	13.7	16.7	12.2	14.3	14.0	16.3	14.5
F90-5705	15.3	14.8	17.1	14.1	16.1	15.7	17.0	15.7
F90-5904	18.6	17.0	20.0	15.3	20.0	18.1	20.2	18.4
F91-1143	15.7	14.0	16.7	13.0	14.6	15.8	16.7	15.2
F91-1419	14.2	13.5	14.1	12.5	13.7	13.5	16.2	13.9
K1308	14.9	12.3	15.9	12.5	14.1	13.5	16.1	14.2
K1309	15.2	11.3	13.6	11.3	12.2	11.9	13.4	12.7
K1310	16.0	12.3	14.9	11.6	15.0	12.7	14.9	13.9
K1311	16.2	12.1	14.4	12.2	13.3	11.9	14.2	13.5
K1312	15.8	11.7	14.8	11.8	13.4	13.5	15.3	13.7
KY91-1352	17.9	13.5	15.0	13.1	14.7	15.1	16.2	15.1
KY91-1385	17.7	13.1	14.8	13.6	15.8	14.4	18.1	15.4
KY91-1663	16.9	13.5	15.8	12.6	15.3	14.4	15.6	14.9
KY91-11103	18.6	13.8	15.8	13.7	15.5	16.5	17.4	15.9
KY91-11114	17.9	14.5	15.0	14.3	15.6	15.9	17.6	15.8
LS91-1127	16.2	12.3	17.8	11.8	13.2	14.2	14.5	14.3
MD91-5297	17.0	13.2	16.2	13.2	16.1	15.1	16.4	15.3
MD91-5839	18.2	15.0	20.3	15.1	15.7	15.2	18.7	16.9
N92-32	17.2	14.7	16.7	14.1	15.8	15.8	14.6	15.5
N92-189	17.1	14.5	18.3	14.9	15.8	16.3	17.7	16.4
N92-195	16.5	12.9	17.1	12.8	14.3	15.3	15.9	15.0
N91-243	12.2	11.2	12.4	11.3	11.4	11.9	13.6	12.0
N91-610	15.3	12.7	14.2	13.0	13.5	14.2	14.0	13.8
NTCPR93-286	19.2	14.9	19.3	16.3	18.3	18.0	19.3	17.9
NTCPR93-644	16.5	13.3	15.4	13.3	15.3	14.9	17.2	15.1
OK89-5602	16.1	13.1	15.7	12.3	14.1	14.0	15.5	14.4
R91-429	15.6	12.6	15.6	12.9	14.6	14.3	15.4	14.4
R91-500	13.8	11.8	12.9	11.6	12.7	12.7	13.9	12.8
R91-988	17.1	13.1	15.8	12.2	14.3	13.9	15.7	14.6
R91-4255	17.1	12.7	14.1	12.5	14.9	14.5	15.6	14.5
R91-4594	15.3	12.0	16.2	11.3	13.5	14.1	15.1	13.9
S92-1173-5	16.0	13.2	15.7	13.3	13.9	14.2	16.6	14.7
S92-1755	13.8	11.2	13.1	10.9	11.0	11.7	12.3	12.0
S92-1403	14.6	12.8	14.3	11.9	13.2	12.8	14.1	13.4
S92-1464	14.8	11.3	12.3	11.0	12.4	12.1	13.2	12.4
S92-1603	13.0	11.2	13.2	10.4	11.2	11.6	13.1	12.0
TN89-39	16.1	12.6	17.7	14.2	14.4	14.3	15.1	14.9
TN90-91	16.3	13.3	16.6	13.4	13.7	14.7	15.5	14.8
TN90-177	13.6	12.0	15.3	11.8	12.8	13.3	13.8	13.2
TN90-178	14.0	11.6	15.6	11.1	12.2	12.0	13.9	12.9
TN91-276	15.0	12.1	14.6	12.6	13.8	13.4	14.5	13.7
V90-816	20.1	16.6	16.7	16.6	17.8	18.6	18.7	17.9
V90-951	16.4	13.9	14.5	12.7	15.1	15.6	15.4	14.8
V90-1012	18.8	14.1	17.6	14.4	16.2	17.1	17.0	16.4
V90-1299	15.6	12.9	16.4	12.9	15.6	14.6	14.9	14.7

TABLE 34 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP V, 1994.

STRAIN/ VARIETY	BIXBY OK	JACK- SON TN	KEISER AR	PITTSBURG KS	PLY- MOUTH NC	POR- TAGE- VILLE MO(A)
HUTCHESON	39	33	30	36	18	33
MANOKIN	38	32	30	36	21	30
D92-3363	40	38	37	41	28	37
D91-4630	46	42	40	39	31	35
D91-4657	48	41	41	42	29	40
D91-9321	38	31	32	37	26	33
D91-9368	53	43	44	41	31	42
F90-5607	46	42	41	37	25	40
F90-5705	43	39	39	37	30	35
F90-5904	41	39	43	38	32	43
F91-1143	47	38	37	40	30	39
F91-1419	35	35	29	32	22	27
K1308	42	30	32	34	25	33
K1309	35	28	28	31	21	25
K1310	40	36	32	35	29	27
K1311	37	30	31	32	22	26
K1312	42	36	29	37	28	30
KY91-1352	41	46	42	29	34	48
KY91-1385	41	45	47	32	35	46
KY91-1663	47	45	44	33	31	46
KY91-11103	40	41	41	33	30	38
KY91-11114	41	43	41	32	35	34
LS91-1127	45	33	32	37	20	26
MD91-5297	32	31	28	32	23	30
MD91-5839	38	27	26	32	19	24
N92-32	40	33	35	38	29	33
N92-189	36	30	28	36	23	28
N92-195	37	29	31	32	20	25
N91-243	41	42	39	42	32	37
N91-610	45	37	38	38	28	40
NTCPR93-286	37	36	34	38	28	32
NTCPR93-644	40	39	40	42	29	42
OK89-5602	39	28	30	36	22	27
R91-429	43	38	31	42	31	36
R91-500	42	36	32	37	30	34
R91-988	46	57	54	44	34	58
R91-4255	46	53	51	43	37	47
R91-4594	47	36	30	33	24	28
S92-1173-5	44	35	34	41	28	34
S92-1755	45	40	33	39	29	34
S92-1403	48	38	37	43	29	36
S92-1464	44	37	36	40	24	32
S92-1603	46	39	39	42	29	35
TN89-39	41	39	35	40	26	37
TN90-91	37	31	30	33	23	27
TN90-177	36	32	31	35	26	31
TN90-178	45	35	35	40	21	27
TN91-276	37	31	31	35	27	30
V90-816	37	46	46	35	32	46
V90-951	49	52	52	45	34	48
V90-1012	38	37	37	36	28	36
V90-1299	39	35	35	34	25	33



TABLE 34 - (Continued).

STRAIN/ VARIETY	QUEENS- TOWN MD	STONE- VILLE MS(A)	STONE- VILLE MS(B)	ULLIN IL	WAR- SAW VA	MEAN
HUTCHESON	36	29	21	38	39	32
MANOKIN	29	29	23	34	37	31
D92-3363	42	33	24	39	40	36
D91-4630	38	33	30	40	44	38
D91-4657	44	35	31	41	43	39
D91-9321	37	34	25	34	37	33
D91-9368	43	40	35	40	47	42
F90-5607	35	42	35	40	42	39
F90-5705	33	40	30	39	38	37
F90-5904	45	36	33	48	41	40
F91-1143	36	39	30	40	45	38
F91-1419	21	31	25	33	36	30
K1308	33	29	21	41	40	33
K1309	29	27	19	35	33	28
K1310	36	28	22	37	40	33
K1311	31	24	19	28	33	28
K1312	35	29	24	39	42	34
KY91-1352	43	45	38	48	43	41
KY91-1385	46	46	41	48	46	43
KY91-1663	45	41	39	45	43	42
KY91-11103	41	41	35	44	45	39
KY91-11114	45	42	34	44	45	40
LS91-1127	35	29	18	37	40	32
MD91-5297	31	26	20	36	39	30
MD91-5839	30	27	20	26	39	28
N92-32	39	34	29	41	41	35
N92-189	34	26	20	32	38	30
N92-195	31	25	22	32	38	29
N91-243	40	35	28	46	45	39
N91-610	40	38	31	42	41	38
NTCPR93-286	37	30	26	40	39	34
NTCPR93-644	38	36	36	42	41	39
OK89-5602	35	24	22	36	35	30
R91-429	34	32	24	37	39	35
R91-500	34	32	23	40	39	34
R91-988	45	62	44	64	48	50
R91-4255	44	46	38	53	51	46
R91-4594	35	31	25	38	37	33
S92-1173-5	42	33	23	36	42	36
S92-1755	43	38	21	42	44	37
S92-1403	39	32	26	40	38	37
S92-1464	40	31	21	37	43	35
S92-1603	46	34	25	44	46	39
TN89-39	36	35	26	35	40	35
TN90-91	27	37	21	38	34	31
TN90-177	29	24	18	36	38	30
TN90-178	37	34	23	33	42	33
TN91-276	31	28	21	39	40	32
V90-816	43	46	38	47	45	42
V90-951	47	50	40	54	43	46
V90-1012	32	33	21	42	40	34
V90-1299	33	35	20	35	42	33

TABLE 35 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP V, 1994.

STRAIN/ VARIETY	BIXBY OK	JACK- SON TN	KEISER AR	PITTS- BURG KS	PLY- MOUTH NC	POR- TAGE- VILLE MO(A)
HUTCHESON	1.0	2.0	1.0	1.0	2.0	1.0
MANOKIN	3.0	1.3	1.5	2.0	2.0	1.5
D92-3363	5.0	3.0	4.0	4.0	3.0	3.0
D91-4630	4.0	2.7	4.0	3.0	2.5	2.5
D91-4657	4.0	3.0	4.0	3.5	2.5	3.0
D91-9321	5.0	2.7	4.0	4.0	3.0	2.0
D91-9368	5.0	3.0	4.0	2.5	3.0	2.0
F90-5607	3.0	3.0	4.0	3.5	3.5	2.0
F90-5705	1.0	2.0	2.5	1.0	2.5	1.0
F90-5904	4.0	4.3	4.0	4.0	4.0	3.0
F91-1143	2.0	2.3	2.0	3.0	3.0	1.5
F91-1419	2.0	2.0	2.0	1.0	2.0	1.0
K1308	1.0	2.0	1.5	1.0	2.0	1.0
K1309	2.0	1.7	1.0	1.0	1.5	1.0
K1310	1.0	1.3	1.0	1.0	1.5	1.0
K1311	4.0	1.3	1.0	1.0	2.0	1.0
K1312	5.0	2.0	1.0	2.0	1.5	1.0
KY91-1352	1.0	2.0	1.0	1.0	2.0	1.5
KY91-1385	3.0	2.0	2.5	1.0	1.5	1.5
KY91-1663	3.0	1.7	1.5	1.0	1.0	1.5
KY91-11103	1.0	2.3	2.0	1.0	2.0	1.0
KY91-11114	1.0	2.7	2.0	1.0	2.0	1.0
LS91-1127	3.0	1.0	1.0	1.5	1.5	1.0
MD91-5297	1.0	1.0	1.0	1.0	2.0	1.0
MD91-5839	3.0	1.3	1.0	1.5	1.0	1.0
N92-32	3.0	1.7	1.5	1.0	1.0	1.0
N92-189	5.0	1.3	2.0	2.0	2.0	1.0
N92-195	4.0	1.7	1.5	1.0	1.5	1.0
N91-243	2.0	2.3	3.0	1.0	2.0	1.0
N91-610	4.0	2.7	3.0	2.0	2.0	2.5
NTCPR93-286	1.0	2.3	1.0	1.5	2.0	1.0
NTCPR93-644	3.0	3.0	3.0	2.5	2.0	2.0
OK89-5602	2.0	1.3	1.0	1.5	2.0	2.0
R91-429	4.0	2.7	2.0	2.0	3.0	1.5
R91-500	4.0	2.7	2.0	1.5	2.0	1.5
R91-988	4.0	2.7	2.5	2.0	2.5	2.0
R91-4255	3.0	1.7	2.5	1.0	2.0	2.5
R91-4594	5.0	2.7	2.0	1.5	2.0	1.0
S92-1173-5	4.0	2.7	2.0	3.0	2.0	1.0
S92-1755	2.0	2.7	2.0	1.5	2.5	1.0
S92-1403	4.0	3.0	3.0	3.5	2.0	1.5
S92-1464	4.0	3.0	2.5	1.5	2.0	1.0
S92-1603	3.0	2.3	2.0	1.5	2.0	1.0
TN89-39	.	2.7	1.5	1.5	2.0	1.0
TN90-91	3.0	1.3	2.0	1.5	1.5	1.0
TN90-177	1.0	1.3	1.0	1.0	2.0	1.0
TN90-178	3.0	1.7	2.0	2.0	2.0	1.0
TN91-276	1.0	1.3	1.0	1.0	1.5	1.0
V90-816	2.0	3.3	3.0	1.0	2.0	2.0
V90-951	3.0	2.7	2.5	1.5	2.0	2.0
V90-1012	2.0	2.3	1.0	1.0	1.5	1.0
V90-1299	3.0	1.3	1.5	1.5	2.0	1.0

TABLE 35 - (Continued).

STRAIN/ VARIETY	QUEENS- TOWN MD	STONE- VILLE MS(A)	STONE- VILLE MS(B)	ULL- IN IL	WAR- SAW VA	MEAN
HUTCHESON	3.5	2.0	2.0	1.3	2.8	1.8
MANOKIN	3.0	2.0	2.0	2.3	2.0	2.1
D92-3363	4.0	3.0	2.0	3.3	3.5	3.4
D91-4630	3.5	2.5	2.5	3.5	3.5	3.1
D91-4657	3.5	2.5	2.0	3.3	3.0	3.1
D91-9321	3.8	3.0	2.0	1.5	4.0	3.2
D91-9368	3.7	3.0	2.0	3.3	4.0	3.2
F90-5607	3.7	3.0	2.0	4.0	4.0	3.2
F90-5705	3.5	2.0	2.0	1.3	4.0	2.1
F90-5904	3.8	3.0	2.5	4.8	4.0	3.8
F91-1143	3.5	3.0	2.0	1.8	3.0	2.5
F91-1419	2.3	2.0	2.0	1.0	3.5	1.9
K1308	2.8	2.0	2.0	1.0	3.3	1.8
K1309	2.3	2.0	2.0	1.0	2.0	1.6
K1310	2.3	2.0	2.0	1.0	2.8	1.5
K1311	2.3	2.0	2.0	1.0	2.5	1.8
K1312	3.0	2.0	2.0	2.3	2.8	2.2
KY91-1352	2.3	2.0	2.0	1.8	2.0	1.7
KY91-1385	3.5	2.0	2.0	2.5	3.5	2.3
KY91-1663	3.3	2.0	2.0	1.3	2.8	1.9
KY91-11103	2.5	2.0	2.0	1.0	2.3	1.7
KY91-11114	2.3	2.0	2.0	1.0	2.5	1.8
LS91-1127	2.3	2.0	2.0	1.0	2.3	1.7
MD91-5297	2.3	2.0	2.0	1.0	2.0	1.5
MD91-5839	2.0	2.0	2.0	1.0	3.0	1.7
N92-32	3.3	2.0	2.0	1.0	2.5	1.8
N92-189	3.3	2.0	2.0	1.8	2.8	2.3
N92-195	2.8	2.0	2.0	1.0	2.5	1.9
N91-243	3.0	2.0	2.0	1.3	3.8	2.1
N91-610	3.8	2.0	2.0	2.0	4.0	2.7
NTCPR93-286	3.0	2.0	2.0	1.0	2.8	1.8
NTCPR93-644	4.0	2.0	2.0	3.8	4.0	2.8
OK89-5602	2.8	2.0	2.0	1.0	3.0	1.9
R91-429	3.5	2.0	2.0	2.5	3.5	2.6
R91-500	3.5	2.0	2.0	2.8	3.8	2.5
R91-988	3.3	2.5	2.0	3.5	3.3	2.7
R91-4255	3.0	2.0	2.0	1.8	2.5	2.2
R91-4594	3.7	2.0	2.0	2.3	4.0	2.6
S92-1173-5	3.3	2.0	2.0	3.8	3.8	2.7
S92-1755	3.5	2.0	2.0	1.5	3.5	2.2
S92-1403	3.7	2.0	2.0	3.3	3.5	2.9
S92-1464	3.0	2.0	2.0	1.8	3.3	2.4
S92-1603	3.5	2.0	2.0	2.8	3.5	2.3
TN89-39	2.8	2.0	2.0	1.0	2.8	1.9
TN90-91	2.5	2.0	2.0	1.0	2.0	1.8
TN90-177	2.8	2.0	2.0	1.0	2.8	1.6
TN90-178	3.0	2.0	2.0	1.0	2.8	2.0
TN91-276	3.0	2.0	2.0	1.0	3.8	1.7
V90-816	3.0	3.0	2.0	2.5	3.0	2.4
V90-951	3.3	3.0	2.0	2.8	2.8	2.5
V90-1012	2.8	2.0	2.0	1.0	2.5	1.7
V90-1299	2.3	2.0	2.0	1.3	2.8	1.9

TABLE 36 - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP V, 1994.

STRAIN/ VARIETY	JACK- SON TN	PLY- MOUTH NC	POR- TAGE- VILLE MO(A)	QUEENS- TOWN MD	STONE- VILLE MS(A)	STONE- VILLE MS(B)	ULLIN IL	WAR- SAW VA	MEAN
HUTCHESON	1.5	2.5	1.5	1.0	2.0	2.0	1.0	1.5	1.6
MANOKIN	2.2	2.0	1.5	1.3	2.0	2.0	1.0	1.8	1.7
D92-3363	1.8	2.0	1.3	1.0	2.0	2.0	1.0	1.4	1.6
D91-4630	2.0	2.0	2.0	1.5	2.0	2.0	1.0	1.2	1.7
D91-4657	1.8	2.0	1.0	1.5	3.0	2.5	1.5	1.4	1.8
D91-9321	2.2	2.0	1.5	1.3	2.0	3.0	1.0	1.4	1.8
D91-9368	2.0	2.0	1.0	1.0	2.0	2.0	1.5	1.5	1.6
F90-5607	2.5	2.5	2.0	1.5	2.0	2.0	1.0	1.5	1.9
F90-5705	2.5	2.5	2.0	1.0	2.0	2.0	1.0	1.5	1.8
F90-5904	1.8	2.0	2.5	1.5	2.0	2.0	2.0	2.0	2.0
F91-1143	1.5	2.0	1.0	1.0	2.0	2.0	1.0	1.9	1.6
F91-1419	2.3	2.0	2.0	1.0	2.0	2.5	1.5	1.7	1.9
K1308	1.7	2.0	1.0	1.0	2.0	2.0	1.0	1.5	1.5
K1309	2.8	2.5	1.0	1.3	2.0	2.0	1.5	1.2	1.8
K1310	2.5	2.0	1.0	1.0	2.0	2.0	1.0	1.1	1.6
K1311	2.0	2.5	1.0	1.0	2.0	2.0	1.0	1.1	1.6
K1312	2.5	2.0	1.5	1.3	2.0	2.0	1.0	1.4	1.7
KY91-1352	2.2	2.0	1.5	1.0	2.0	2.0	1.0	1.5	1.6
KY91-1385	1.3	2.0	1.0	1.3	2.0	2.0	1.0	1.9	1.6
KY91-1663	2.2	2.0	1.5	1.0	2.0	2.0	1.0	1.8	1.7
KY91-11103	2.3	2.0	1.5	1.8	2.0	2.0	1.0	2.0	1.8
KY91-11114	2.0	2.0	2.0	1.5	2.0	2.5	1.0	2.0	1.9
LS91-1127	2.0	2.0	1.0	1.0	2.0	2.0	1.0	1.4	1.5
MD91-5297	2.0	2.0	1.5	1.0	2.0	2.0	1.0	1.2	1.6
MD91-5839	1.8	2.0	1.5	2.0	2.0	2.0	1.5	1.7	1.8
N92-32	1.5	2.0	1.5	1.0	2.0	2.0	1.0	1.4	1.5
N92-189	2.0	2.0	1.5	2.0	2.0	2.0	1.0	1.9	1.8
N92-195	1.7	2.0	1.0	1.8	2.0	2.0	1.0	1.7	1.6
N91-243	2.5	2.0	2.0	1.0	2.0	2.0	1.0	1.1	1.7
N91-610	2.5	2.0	1.5	1.0	2.0	2.0	1.0	1.4	1.7
NTCPR93-286	1.3	2.5	1.0	1.0	2.0	2.5	1.0	1.1	1.6
NTCPR93-644	2.3	2.0	1.5	1.0	2.0	2.0	1.5	1.1	1.7
OK89-5602	1.8	2.0	1.5	1.0	2.0	2.0	1.0	1.2	1.6
R91-429	2.3	2.0	1.5	1.0	2.0	2.0	1.0	1.7	1.7
R91-500	2.8	2.0	2.0	1.0	2.0	2.0	1.0	1.4	1.8
R91-988	2.2	2.0	2.0	1.3	3.0	2.0	1.5	2.7	2.1
R91-4255	2.2	2.0	1.5	1.3	2.0	2.0	1.5	1.7	1.8
R91-4594	2.2	2.0	1.5	1.0	2.0	2.0	1.5	1.6	1.7
S92-1173-5	3.5	2.0	2.0	2.0	2.0	2.0	1.0	1.9	2.1
S92-1755	2.2	2.0	1.5	1.0	2.0	2.0	1.0	1.5	1.6
S92-1403	2.3	2.0	1.5	1.0	2.0	2.0	1.5	1.8	1.8
S92-1464	3.3	2.0	1.0	1.0	2.0	2.0	1.0	1.5	1.7
S92-1603	2.8	2.0	1.5	1.0	2.0	2.0	1.0	1.2	1.7
TN89-39	2.8	2.0	1.5	1.0	2.0	2.0	1.5	1.5	1.8
TN90-91	2.2	2.0	2.0	1.3	2.0	2.0	2.5	1.4	1.9
TN90-177	2.3	2.0	1.0	1.3	2.0	2.0	1.5	1.1	1.6
TN90-178	2.0	2.0	1.0	1.5	2.0	2.0	1.0	1.0	1.6
TN91-276	2.0	2.0	1.0	1.3	2.0	2.0	1.0	1.4	1.6
V90-816	1.5	2.0	2.0	1.0	2.0	3.0	1.5	2.0	1.9
V90-951	1.7	2.0	1.5	1.5	2.0	2.0	1.5	1.4	1.7
V90-1012	1.7	2.5	1.5	1.0	2.0	2.0	1.0	1.2	1.6
V90-1299	1.8	2.0	1.0	1.0	2.0	2.5	1.5	1.1	1.6

**MATURITY**

**GROUP**

**VI**

## UNIFORM GROUP VI

1994

Uniform Group VI nurseries were planted at 28 locations. Data were obtained from 28 of these locations. The parentage for each strain is reported in Table 37. Table 38 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 39 - 45.

The cultivar Brim is the yield and maturity check. It had a mean yield of 46.8 bushels per acre and a mean maturity of October 13 at the 28 locations.

TABLE 37 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 1994.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BRIM	YOUNG X N77-1102	F7
2. LYON	D82-2218 X LAMAR	F5
3. AU89-1424	G80-1515 X STONEWALL	F6
4. SC89-147	HUTCHESON X LEFLORE	F5
5. SC89-181	HUTCHESON X LEFLORE	F5
6. V88-494	V79-881 X TOANO	F5
7. AU90-442	HUTCHESON X AU82-589	F6
8. AU90-585	HUTCHESON X AU82-589	F6
9. AU90-592	HUTCHESON X AU82-589	F6
10. G89-300	HUTCHESON X COLQUITT	F7
11. G89-2223	G81-152 X COKER 6738	F7
12. G89-2272	G81-152 X COKER 6738	F7
13. N90-541	HUTCHESON X N80-1014	F6
14. N91-140	NRS5Y	F6
15. N91-386	N85-4085 X BRAXTON	F6
16. R90-555	(TRACY-M X JEFF) X (NAROW X SHARKEY)	F5
17. SC90-2089	COKER 6847 X HUTCHESON	F5
18. SC90-2839	COKER 6847 X THOMAS	F5

**Background of lines used as parents:**

- AU82-589** is a selection from N74-1572 X F76-8846. N74-1572 is a selection from Govan X Davis. F76-8846 is a selection from Centennial X [Forrest X (Cobb X D68-216)].
- D82-2218** is a selection from Bedford X Tracy-M.
- G80-1515** is a selection from Pickett 71 X Bedford.
- G81-152** is a selection from D74-7741 X Coker 237. D74-7741 is a selection from Forrest X D70-3001. D70-3001 is of the same parentage as Centennial.
- N73-1102** is a selection from Tracy X Ransom.
- N83-1014** is a selection from Gasoy 17 X N77-940. N77-940 is a selection from N70-1549 X Centennial.
- N85-4085** is a selection from Centennial X PI 417409.
- V79-881** is a selection from Essex X Ransom.

TABLE 38 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 1994.

STRAIN/VARIETY	YIELD†			PROTEIN			OIL		
	1994	93-94	92-94	1994	93-94	92-94	1994	93-94	92-94
1. BRIM	46.8	43.1	.	43.9	42.7	.	20.2	20.2	.
2. LYON	43.8	39.9	41.7	43.0	41.9	41.8	20.4	20.5	20.5
3. AU89-1424	46.0	42.0	.	41.9	40.7	.	20.7	20.9	.
4. SC89-147	46.0	43.4	.	42.6	41.7	.	20.7	20.6	.
5. SC89-181	44.3	43.0	.	42.2	41.1	.	20.0	20.1	.
6. V88-494	46.9	43.5	.	43.1	41.7	.	20.6	20.9	.
7. AU90-442	47.4	.	.	42.4	.	.	21.0	.	.
8. AU90-585	47.5	.	.	43.1	.	.	20.4	.	.
9. AU90-592	46.5	.	.	43.5	.	.	20.4	.	.
10. G89-300	46.2	.	.	41.3	.	.	20.6	.	.
11. G89-2223	48.0	.	.	43.7	.	.	20.8	.	.
12. G89-2272	43.0	.	.	42.6	.	.	21.2	.	.
13. N90-541	48.7	43.1	.	43.0	41.6	.	22.0	22.6	.
14. N91-140	45.0	.	.	42.3	.	.	20.6	.	.
15. N91-386	45.9	.	.	43.7	.	.	19.9	.	.
16. R90-555	44.6	.	.	43.5	.	.	20.2	.	.
17. SC90-2089	46.5	.	.	44.3	.	.	19.8	.	.
18. SC90-2839	44.6	.	.	42.4	.	.	20.1	.	.

## BOTANICAL TRAITS

STRAIN/ VARIETY	FL. COLOR	MAT. DATE	LOG.	HT.	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
1. BRIM	W	10/13	2.2	38	1.6	13.1	G	Br
2. LYON	W	0	2.6	33	1.7	13.8	T	T
3. AU89-1424	W	+3	2.1	35	1.9	15.5	T	T
4. SC89-147	W	+6	2.2	36	1.6	14.2	G	T
5. SC89-181	W	+7	2.4	36	1.8	12.4	G	T
6. V88-494	P	+2	2.0	34	1.6	13.5	G	T
7. AU90-442	P	+3	2.3	35	1.7	12.4	G	T
8. AU90-585	P	+3	2.5	36	1.8	12.1	G	T
9. AU90-592	P	+2	2.5	35	1.8	12.1	G	T
10. G89-300	P	+4	2.0	36	1.8	16.1	T	T
11. G89-2223	W	+6	2.4	33	1.5	13.6	T	T
12. G89-2272	P	+3	1.5	34	1.7	15.2	T	T
13. N90-541	W	-1	1.4	30	2.0	16.2	T	T
14. N91-140	P	+2	2.1	35	1.6	13.3	T	T
15. N91-386	P	+4	1.8	40	1.8	20.2	T	T
16. R90-555	P	-2	2.1	39	1.9	15.3	T	T
17. SC90-2089	W	+4	2.1	37	1.6	13.4	G	T
18. SC90-2839	P	+3	2.0	36	1.5	14.2	G	T

## PEST REACTIONS

STRAIN/ VARIETY	FROG- EYE	FROG- EYE	STEM CANKER		M.a.	M.a.	M.i.	SCN	SCN	AWB	
	AL	MS	VBC	MS	TX	GA	TN	GA	3		14
1. BRIM	1.0	0.2	5.0	4.0	1.0	4.3	3.1	4.0	5.0	4.9	5.0
2. LYON	1.0	0.3	5.3	1.0	0.0	4.3	1.0	1.8	1.0	3.1	5.0
3. AU89-1424	1.0	0.1	4.5	3.5	0.0	4.0	2.1	4.3	1.0	3.4	3.5
4. SC89-147	3.0	1.5	7.1	1.0	0.0	4.3	2.1	3.8	1.1	2.3	4.5
5. SC89-181	4.3	7.9	6.5	1.0	0.0	2.3	1.0	1.0	1.3	1.1	5.0
6. V88-494	1.7	0.8	5.5	1.0	0.0	3.5	2.6	3.0	5.0	4.4	3.5
7. AU90-442	1.0	0.3	4.7	2.5	1.0	3.8	1.1	1.0	5.0	4.8	3.0
8. AU90-585	1.0	0.1	4.5	1.6	0.0	3.0	1.1	1.8	5.0	4.7	2.5
9. AU90-592	3.3	0.9	4.8	1.9	0.0	2.5	1.0	2.0	4.9	4.3	3.0
10. G89-300	3.0	1.6	4.7	1.0	0.0	3.3	1.1	1.0	4.9	4.5	3.0
11. G89-2223	3.0	1.2	4.0	1.0	0.0	3.5	1.0	2.0	1.2	4.2	3.0
12. G89-2272	5.0	1.8	5.0	2.6	0.0	2.3	1.0	2.3	1.0	3.6	4.5
13. N90-541	1.0	0.1	3.2	1.5	0.0	4.5	2.3	4.5	5.0	4.8	4.5
14. N91-140	4.0	2.5	5.5	3.5	3.0	4.8	1.6	4.3	5.0	4.4	3.5
15. N91-386	1.0	0.7	4.5	1.4	0.0	3.3	1.1	1.0	5.0	4.9	4.5
16. R90-555	4.0	2.1	5.5	2.0	1.0	4.0	1.7	4.0	1.6	1.8	4.5
17. SC90-2089	1.0	1.0	6.2	1.0	0.0	3.5	1.0	2.5	5.0	4.9	4.0
18. SC90-2839	4.3	2.8	4.8	1.0	0.0	4.0	1.0	2.0	1.1	5.0	4.0

† Data from Kinston, NC (1994) and Rohwer, AR (1994) were not included in means.



TABLE 39 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1994.

EAST COAST								
STRAIN/ VARIETY	FLORENCE SC	KINSTON NC†	PLYMOUTH NC	SUFFOLK VA	WARAW VA	MEAN		
BRIM	47.8	23.0	40.5	62.7	52.2	50.8		
LYON	43.5	26.7	44.4	60.2	47.0	48.8		
AU89-1424	47.9	34.4	40.8	58.0	56.4	50.7		
SC89-147	50.9	24.3	36.8	55.1	53.0	49.0		
SC89-181	50.0	25.1	34.9	57.7	43.1	46.4		
V88-494	46.2	19.3	43.4	66.4	54.9	52.7		
AU90-442	51.5	21.8	38.3	70.3	52.2	53.1		
AU90-585	51.5	17.9	39.0	65.3	53.8	52.4		
AU90-592	50.6	21.5	38.4	68.0	50.5	51.9		
G89-300	46.3	14.2	43.2	60.9	48.8	49.8		
G89-2223	51.2	34.6	44.9	66.0	51.2	53.3		
G89-2272	46.9	31.0	41.4	60.5	49.6	49.6		
N90-541	51.5	15.4	43.9	65.4	50.3	52.8		
N91-140	43.0	9.6	40.6	61.8	52.7	49.5		
N91-386	49.7	17.1	37.1	69.3	48.2	51.1		
R90-555	41.4	26.0	40.9	61.0	51.1	48.6		
SC90-2089	48.8	20.1	39.6	63.9	49.6	50.5		
SC90-2839	49.4	28.7	38.6	59.6	42.9	47.6		
Overall Mean	48.2	22.8	40.4	62.9	50.4	50.5		
L.S.D. (0.05)	6.4	8.1	5.3	8.1	6.9			
C.V. (%)	8.0	21.3	7.8	7.7	8.3			
SOUTHEAST								
STRAIN/ VARIETY	BATON ROUGE LA	BLACK- VILLE SC(A)	FAIR- HOPE AL	JAY FL	QUINCY FL	TALLA- SSEE AL	TIFTON GA	MEAN
BRIM	52.5	54.6	41.8	23.8	13.4	59.7	69.9	45.1
LYON	31.3	40.7	44.5	23.8	17.1	51.3	56.1	37.8
AU89-1424	61.4	44.0	46.9	21.3	18.8	52.3	68.0	44.7
SC89-147	59.1	46.0	49.6	22.0	16.0	52.7	67.7	44.7
SC89-181	49.7	46.6	52.9	27.1	14.1	52.3	71.5	44.9
V88-494	41.3	48.0	43.9	21.6	17.1	61.7	66.6	42.9
AU90-442	56.1	51.2	51.4	24.2	21.2	52.3	71.0	46.8
AU90-585	58.9	48.3	50.8	26.0	19.1	61.0	67.5	47.4
AU90-592	57.0	51.7	47.8	24.6	13.5	57.3	59.9	44.5
G89-300	51.5	51.9	50.5	30.4	20.1	57.0	64.4	46.5
G89-2223	49.2	49.6	44.5	33.4	26.8	49.3	68.5	45.9
G89-2272	50.5	39.1	47.8	33.0	23.3	47.3	66.2	43.9
N90-541	57.3	38.2	49.9	26.0	16.7	59.7	65.7	44.8
N91-140	50.9	43.8	47.5	28.2	18.4	57.7	71.4	45.4
N91-386	54.4	50.5	46.3	24.6	19.3	59.0	65.4	45.6
R90-555	45.3	30.7	45.7	25.3	21.8	52.3	62.9	40.6
SC90-2089	39.7	46.5	45.4	28.6	18.7	55.0	66.5	42.9
SC90-2839	52.0	50.5	45.7	21.6	14.0	57.3	66.7	44.0
Overall Mean	51.0	46.2	47.4	25.9	18.3	55.3	66.4	44.4
L.S.D. (0.05)	9.4	11.3	6.4	7.5	5.4	8.3	8.7	
C.V. (%)	10.7	14.8	8.1	17.4	17.9	9.1	7.9	
UPPER AND CENTRAL SOUTH								
STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	CALHOUN GA	CLEMSON SC	STARKVILLE MS	MEAN		
BRIM	64.3	46.3	47.4	57.1	42.0	51.4		
LYON	57.3	51.0	56.2	54.0	40.8	51.9		
AU89-1424	57.1	48.0	51.7	59.1	38.3	50.8		
SC89-147	57.9	48.3	47.1	55.6	45.4	50.8		
SC89-181	52.9	31.3	51.6	49.4	41.5	45.3		
V88-494	63.7	44.7	48.2	63.4	46.3	53.2		
AU90-442	53.1	52.0	51.9	53.9	35.2	49.2		
AU90-585	61.5	55.0	52.2	61.0	39.5	53.8		
AU90-592	62.1	51.7	55.1	58.0	42.4	53.9		
G89-300	62.7	42.7	52.7	56.5	37.9	50.5		
G89-2223	55.4	55.0	44.5	57.1	45.0	51.4		
G89-2272	52.4	42.0	51.2	52.9	27.9	45.3		
N90-541	69.3	51.3	53.7	61.7	39.1	55.0		
N91-140	56.1	31.0	52.7	57.7	34.4	46.4		
N91-386	57.5	49.3	46.1	53.7	43.9	50.1		
R90-555	52.5	46.7	53.8	53.5	46.7	50.6		
SC90-2089	62.1	51.3	52.6	55.6	48.1	53.9		
SC90-2839	57.4	38.7	48.8	54.5	48.6	49.6		
Overall Mean	58.6	46.5	50.9	56.4	41.3	50.7		
L.S.D. (0.05)	7.6	6.5	10.0	7.4	6.1			
C.V. (%)	7.8	8.4	11.7	7.7	8.8			

† Not included in mean.

TABLE 39 - (Continued).

STRAIN/ VARIETY	DELTA							MEAN
	JONES- BORO AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	ROHWER AR†	ST. JOSEPH LA	STONE- VILLE MS(B)	
BRIM	19.0	44.3	51.9	61.2	40.4	46.9	38.5	43.6
LYON	27.8	39.3	50.5	59.3	39.7	40.0	35.0	42.0
AU89-1424	25.2	38.8	52.0	55.8	38.4	43.7	34.3	41.6
SC89-147	31.7	39.1	53.0	60.5	44.1	49.4	33.6	44.6
SC89-181	25.0	40.3	47.0	59.3	34.6	44.6	32.4	41.4
V88-494	21.8	43.9	53.0	64.7	40.3	49.7	35.0	44.7
AU90-442	20.7	44.0	44.5	56.5	46.5	46.1	41.0	42.1
AU90-585	20.7	42.0	50.0	59.9	49.5	49.6	31.4	42.3
AU90-592	20.3	38.6	56.3	57.7	39.0	50.8	28.7	42.1
G89-300	22.2	39.3	50.1	58.6	38.7	47.6	38.1	42.7
G89-2223	27.9	43.2	56.8	61.4	47.4	46.0	36.6	45.3
G89-2272	26.7	36.4	51.1	48.7	34.8	40.6	32.1	39.3
N90-541	28.4	41.2	55.4	60.3	42.7	49.7	36.4	45.2
N91-140	17.3	40.0	53.3	59.2	34.2	43.8	35.9	41.6
N91-386	19.0	42.1	52.9	58.0	24.1	45.1	33.9	41.8
R90-555	37.2	37.2	48.8	55.1	39.6	49.7	31.2	43.2
SC90-2089	21.3	38.7	47.5	59.9	36.1	51.3	38.5	42.9
SC90-2839	19.5	37.3	48.9	54.6	40.6	49.8	37.7	41.3
Overall Mean	24.0	40.3	51.3	58.4	39.5	46.9	35.0	42.6
L.S.D. (0.05)	6.0	6.1	5.9	4.6	13.9	4.4	6.6	
C.V. (%)	15.0	9.1	6.9	4.7	21.1	5.6	11.3	

STRAIN/ VARIETY	WEST				MEAN
	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	
BRIM	28.6	52.8	58.2	40.0	44.9
LYON	33.6	49.7	42.8	41.8	42.0
AU89-1424	33.6	49.3	46.1	48.1	44.3
SC89-147	21.2	58.7	44.7	40.4	41.3
SC89-181	26.6	61.0	39.1	48.7	43.9
V88-494	29.6	51.8	47.8	44.4	43.4
AU90-442	30.1	47.9	64.4	51.7	48.5
AU90-585	28.1	44.9	53.7	43.4	42.5
AU90-592	26.6	53.2	45.0	43.0	42.0
G89-300	29.2	45.8	43.4	48.7	41.8
G89-2223	31.7	39.4	61.2	51.7	46.0
G89-2272	21.9	43.8	46.6	39.1	37.9
N90-541	27.3	51.4	65.4	50.2	48.6
N91-140	24.7	51.7	54.0	42.9	43.3
N91-386	29.3	49.9	43.6	46.2	42.2
R90-555	22.9	53.6	45.8	47.5	42.5
SC90-2089	29.7	51.6	53.9	44.0	44.8
SC90-2839	25.7	48.4	53.6	36.6	41.1
Overall Mean	27.8	50.3	50.5	44.9	43.4
L.S.D. (0.05)	5.6	8.5	12.3	7.0	
C.V. (%)	12.2	10.1	14.7	9.3	

† Not included in mean.

TABLE 40 - SEED YIELD, EXPRESSED AS A PERCENTAGE OF THE LOCATION MEAN, FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1994.

STRAIN/ VARIETY	EAST COAST					MEAN		
	FLORENCE SC	KINSTON NC†	PLYMOUTH NC	SUFFOLK VA	WARSAW VA			
BRIM	99.2	100.9	100.2	99.7	103.6	100.6		
LYON	90.2	117.1	109.9	95.7	93.3	96.6		
AU89-1424	99.4	150.9	101.0	92.2	111.9	100.4		
SC89-147	105.6	106.6	91.1	87.6	105.2	97.0		
SC89-181	103.7	110.1	86.4	91.7	85.5	91.9		
V88-494	95.9	84.6	107.4	105.6	108.9	104.4		
AU90-442	106.8	95.6	94.8	111.8	103.6	105.1		
AU90-585	106.8	78.5	96.5	103.8	106.7	103.8		
AU90-592	105.0	94.3	95.0	108.1	100.2	102.8		
G89-300	96.1	62.3	106.9	96.8	96.8	98.6		
G89-2223	106.2	151.8	111.1	104.9	101.6	105.5		
G89-2272	97.3	136.0	102.5	96.2	98.4	98.2		
N90-541	106.8	67.5	108.7	104.0	99.8	104.6		
N91-140	89.2	42.1	100.5	98.3	104.6	98.0		
N91-386	103.1	75.0	91.8	110.2	95.6	101.2		
R90-555	85.9	114.0	101.2	97.0	101.4	96.2		
SC90-2089	101.2	88.2	98.0	101.6	98.4	100.0		
SC90-2839	102.5	125.9	95.5	94.8	85.1	94.3		
MEAN (bu/ac)	48.2	22.8	40.4	62.9	50.4	50.5		
STRAIN/ VARIETY	SOUTHEAST						MEAN	
	BATON ROUGE LA	BLACK- VILLE SC(A)	FAIR- HOPE AL	JAY FL	QUINCY FL	TALLA- SSEE AL		TIFTON GA
BRIM	102.9	118.2	88.2	91.9	73.2	108.0	105.3	101.6
LYON	61.4	88.1	93.9	91.9	93.4	92.8	84.5	85.1
AU89-1424	120.4	95.2	98.9	82.2	102.7	94.6	102.4	100.7
SC89-147	115.9	99.6	104.6	84.9	87.4	95.3	102.0	100.7
SC89-181	97.5	100.9	111.6	104.6	77.0	94.6	107.7	101.1
V88-494	81.0	103.9	92.6	83.4	93.4	111.6	100.3	96.6
AU90-442	110.0	110.8	108.4	93.4	115.8	94.6	106.9	105.4
AU90-585	115.5	104.5	107.2	100.4	104.4	110.3	101.7	106.8
AU90-592	111.8	111.9	100.8	95.0	73.8	103.6	90.2	100.2
G89-300	101.0	112.3	106.5	117.4	109.8	103.1	97.0	104.7
G89-2223	96.5	107.4	93.9	129.0	146.4	89.2	103.2	103.4
G89-2272	99.0	84.6	100.8	127.4	127.3	85.5	99.7	98.9
N90-541	112.4	82.7	105.3	100.4	91.3	108.0	98.9	100.9
N91-140	99.8	94.8	100.2	108.9	100.5	104.3	107.5	102.3
N91-386	106.7	109.3	97.7	95.0	105.5	106.7	98.5	102.7
R90-555	88.8	66.5	96.4	97.7	119.1	94.6	94.7	91.4
SC90-2089	77.8	100.6	95.8	110.4	102.2	99.5	100.2	96.6
SC90-2839	102.0	109.3	96.4	83.4	76.5	103.6	100.5	99.1
MEAN (bu/ac)	51.0	46.2	47.4	25.9	18.3	55.3	66.4	44.4
STRAIN/ VARIETY	UPPER AND CENTRAL SOUTH					MEAN		
	ATHENS GA	BELLE MINA AL	CALHOON GA	CLEMSON SC	STARK- VILLE MS			
BRIM	109.7	99.6	93.1	101.2	101.7	101.4		
LYON	97.8	109.7	110.4	95.7	98.8	102.4		
AU89-1424	97.4	103.2	101.6	104.8	92.7	100.2		
SC89-147	98.8	103.9	92.5	98.6	109.9	100.2		
SC89-181	90.3	67.3	101.4	87.6	100.5	89.3		
V88-494	108.7	96.1	94.7	112.4	112.1	104.9		
AU90-442	90.6	111.8	102.0	95.6	85.2	97.0		
AU90-585	104.9	118.3	102.6	108.2	95.6	106.1		
AU90-592	106.0	111.2	108.3	102.8	102.7	106.3		
G89-300	107.0	91.8	103.5	100.2	91.8	99.6		
G89-2223	94.5	118.3	87.4	101.2	109.0	101.4		
G89-2272	89.4	90.3	100.6	93.8	67.6	89.3		
N90-541	118.3	110.3	105.5	109.4	94.7	108.5		
N91-140	95.7	66.7	103.5	102.3	83.3	91.5		
N91-386	98.1	106.0	90.6	95.2	106.3	98.8		
R90-555	89.6	100.4	105.7	94.9	113.1	99.8		
SC90-2089	106.0	110.3	103.3	98.6	116.5	106.3		
SC90-2839	98.0	83.2	95.9	96.6	117.7	97.8		
MEAN (bu/ac)	58.6	46.5	50.9	56.4	41.3	50.7		

† Not included in mean.

TABLE 40 - (Continued).

DELTA								
STRAIN/ VARIETY	JONES- BORO AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	ROHWER AR†	ST. JOSEPH LA	STONE- VILLE MS(B)	MEAN
BRIM	79.2	109.9	101.2	104.8	102.3	100.0	110.0	102.3
LYON	115.8	97.5	98.4	101.5	100.5	85.3	100.0	98.6
AU89-1424	105.0	96.3	101.4	95.5	97.2	93.2	98.0	97.7
SC89-147	132.1	97.0	103.3	103.6	111.6	105.3	96.0	104.7
SC89-181	104.2	100.0	91.6	101.5	87.6	95.1	92.6	97.2
V88-494	90.8	108.9	103.3	110.8	102.0	106.0	100.0	104.9
AU90-442	86.3	109.2	86.7	96.7	117.7	98.3	117.1	98.8
AU90-585	86.3	104.2	97.5	102.6	125.3	105.8	89.7	99.3
AU90-592	84.6	95.8	109.7	98.8	98.7	108.3	82.0	98.8
G89-300	92.5	97.5	97.7	100.3	98.0	101.5	108.9	100.2
G89-2223	116.3	107.2	110.7	105.1	120.0	98.1	104.6	106.3
G89-2272	111.3	90.3	99.6	83.4	88.1	86.6	91.7	92.3
N90-541	118.3	102.2	108.0	103.3	108.1	106.0	104.0	106.1
N91-140	72.1	99.3	103.9	101.4	86.6	93.4	102.6	97.7
N91-386	79.2	104.5	103.1	99.3	61.0	96.2	96.9	98.1
R90-555	155.0	92.3	95.1	94.3	100.3	106.0	89.1	101.4
SC90-2089	88.8	96.0	92.6	102.6	91.4	109.4	110.0	100.7
SC90-2839	81.3	92.6	95.3	93.5	102.8	106.2	107.7	96.9
MEAN (bu/ac)	24.0	40.3	51.3	58.4	39.5	46.9	35.0	42.6

WEST					
STRAIN/ VARIETY	BEAU- MONT TX	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	MEAN
BRIM	102.9	105.0	115.2	89.1	103.5
LYON	120.9	98.8	84.8	93.1	96.8
AU89-1424	120.9	98.0	91.3	107.1	102.1
SC89-147	76.3	116.7	88.5	90.0	95.2
SC89-181	95.7	121.3	77.4	108.5	101.2
V88-494	106.5	103.0	94.7	98.9	100.0
AU90-442	108.3	95.2	127.5	115.1	111.8
AU90-585	101.1	89.3	106.3	96.7	97.9
AU90-592	95.7	105.8	89.1	95.8	96.8
G89-300	105.0	91.1	85.9	108.5	96.3
G89-2223	114.0	78.3	121.2	115.1	106.0
G89-2272	78.8	87.1	92.3	87.1	87.3
N90-541	98.2	102.2	129.5	111.8	112.0
N91-140	88.8	102.8	106.9	95.5	99.8
N91-386	105.4	99.2	86.3	102.9	97.2
R90-555	82.4	106.6	90.7	105.8	97.9
SC90-2089	106.8	102.6	106.7	98.0	103.2
SC90-2839	92.4	96.2	106.1	81.5	94.7
MEAN (bu/ac)	27.8	50.3	50.5	44.9	43.4

† Not included in mean.

TABLE 41 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	BELLE MINA AL	BIXBY OK	BLACK- VILLE SC(A)	CAL- HOUN GA	CLEM- SON SC	FAIR- HOPE AL	FLOR- ENCE SC	JAY FL	JONES- BORO AR	KINS- TON NC†	PINE TREE AR
OIL PERCENTAGE													
BRIM	20.0	20.0	20.2	.	20.3	20.1	20.0	20.0	20.1	21.2	.	19.3	.
LYON	19.9	21.4	20.9	.	20.4	20.5	20.2	20.4	19.9	21.1	.	19.5	.
AU89-1424	20.6	20.4	21.1	.	21.3	20.6	20.2	20.7	20.3	21.3	.	19.8	.
SC89-147	20.4	22.0	20.2	.	21.5	20.8	20.7	20.9	20.6	21.7	.	20.2	.
SC89-181	20.1	19.7	19.1	.	20.1	20.3	20.1	20.1	19.9	21.0	.	19.3	.
V88-494	20.4	20.1	21.1	.	20.4	20.7	20.8	20.6	20.5	21.2	.	19.9	.
AU90-585	21.0	20.9	21.5	.	21.2	20.7	21.3	20.8	21.1	21.1	.	20.9	.
AU90-592	20.2	20.9	20.4	.	20.8	20.4	20.0	20.4	20.2	21.1	.	20.0	.
AU90-300	20.2	19.9	20.1	.	20.3	20.5	20.0	20.3	19.8	21.8	.	20.0	.
G89-300	20.5	19.8	20.4	.	21.5	20.7	20.8	20.8	20.4	21.6	.	20.3	.
G89-2272	20.7	20.8	20.7	.	21.4	20.9	20.4	20.4	20.6	21.3	.	19.8	.
G89-2272	21.0	21.0	21.6	.	21.7	21.1	20.6	21.4	20.9	22.0	.	20.3	.
N90-541	21.8	22.2	22.0	.	22.4	21.8	21.7	22.6	21.6	22.7	.	20.8	.
N91-140	20.6	21.2	19.5	.	21.2	21.0	19.9	20.8	20.4	21.5	.	19.9	.
N91-386	19.7	19.4	19.6	.	20.3	19.5	19.5	20.9	20.2	20.7	.	18.2	.
R90-555	19.3	19.7	20.2	.	20.7	20.6	19.9	21.2	19.6	21.5	.	19.5	.
SC90-2089	19.9	19.4	19.2	.	20.1	20.6	19.6	20.0	19.6	20.6	.	19.8	.
SC90-2839	19.4	20.4	19.6	.	20.6	20.7	19.6	19.9	19.8	20.9	.	19.5	.
PROTEIN PERCENTAGE													
BRIM	44.9	46.6	44.5	.	44.1	44.3	44.2	48.8	44.0	42.4	.	44.3	.
LYON	43.2	44.6	42.4	.	43.6	41.9	42.9	47.0	42.1	41.6	.	41.8	.
AU89-1424	42.2	45.8	38.9	.	42.5	41.9	40.8	44.9	41.3	39.9	.	42.1	.
SC89-147	42.7	41.3	42.2	.	41.9	41.8	41.9	44.5	43.3	40.0	.	42.8	.
SC89-181	42.1	46.9	43.4	.	40.8	40.8	41.6	43.9	41.7	40.1	.	42.7	.
V88-494	42.9	47.4	39.9	.	43.0	42.6	42.5	47.0	43.0	39.1	.	43.3	.
AU90-442	42.6	45.8	39.6	.	42.3	42.5	42.0	45.4	41.8	40.4	.	41.6	.
AU90-585	43.5	45.6	43.0	.	41.9	41.7	42.5	46.3	43.3	40.9	.	43.9	.
AU90-592	43.9	46.6	43.8	.	43.8	42.5	42.8	47.2	43.0	40.1	.	43.0	.
G89-300	42.0	46.0	41.1	.	39.6	40.2	40.1	42.1	41.1	41.9	.	41.8	.
G89-2223	44.4	47.1	44.2	.	43.7	43.5	43.2	46.7	42.4	41.2	.	43.4	.
G89-2272	43.4	46.4	40.9	.	42.6	41.9	42.6	45.9	41.5	40.3	.	42.8	.
N90-541	43.1	46.0	43.7	.	43.1	42.2	42.0	45.9	42.1	40.4	.	43.1	.
N91-140	42.6	45.3	43.2	.	41.1	40.7	42.1	45.8	41.2	40.2	.	41.7	.
N91-386	43.7	46.4	43.2	.	44.2	42.7	43.7	45.2	43.2	41.8	.	44.8	.
R90-555	44.1	48.0	44.5	.	42.6	41.4	41.9	45.7	43.3	41.8	.	42.3	.
SC90-2089	44.2	48.2	43.5	.	43.4	43.2	43.8	46.5	43.6	42.8	.	44.6	.
SC90-2839	43.0	45.7	44.1	.	42.2	42.8	41.9	43.9	41.6	40.3	.	42.4	.
GRAMS PER 100 SEED													
BRIM	14.8	13.0	12.9	13.7	13.7	15.5	13.5	13.3	12.2	13.6	10.6	11.8	13.5
LYON	15.0	12.2	13.6	14.4	13.9	16.6	14.2	13.5	13.9	14.1	12.1	13.3	13.5
AU89-1424	17.1	13.4	14.9	16.6	14.6	19.3	16.1	14.7	15.1	15.4	13.2	16.2	14.8
SC89-147	16.0	13.8	13.1	15.3	16.1	16.6	15.4	14.5	15.1	14.5	14.2	13.6	14.5
SC89-181	13.1	10.5	10.4	13.2	12.8	15.2	12.4	12.7	12.6	14.0	10.6	11.5	11.8
V88-494	15.3	12.3	12.2	14.7	14.7	16.9	14.9	13.3	14.4	14.2	10.9	12.8	13.8
AU90-442	13.9	11.9	11.8	12.4	13.4	14.8	12.7	11.4	12.8	14.0	10.4	11.8	11.6
AU90-585	12.7	12.3	11.6	12.4	12.9	15.1	11.8	17.7	11.8	14.5	9.9	10.6	11.3
AU90-592	13.2	12.3	11.4	12.8	12.8	14.8	11.4	11.1	11.1	13.7	10.0	11.2	11.8
G89-300	18.8	12.9	14.7	17.9	15.4	20.2	16.2	16.1	16.2	17.7	12.8	16.8	15.0
G89-2223	15.4	11.6	12.3	14.1	13.7	16.4	13.6	11.3	12.7	16.7	11.1	1.41	1.8
G89-2272	16.5	13.3	13.7	15.5	16.5	17.8	15.3	13.5	15.3	17.4	13.7	15.5	13.6
N90-541	17.9	13.8	17.2	18.1	14.8	18.4	15.8	16.0	16.1	14.2	15.1	15.5	15.2
N91-140	14.6	11.2	11.1	12.8	15.7	16.3	13.9	13.2	12.7	13.7	9.5	1.21	2.0
N91-386	22.5	16.1	19.2	21.4	21.5	25.6	21.5	18.6	20.3	20.1	16.6	2.01	7.9
R90-555	17.0	13.5	14.8	16.3	15.1	18.0	14.9	15.2	16.0	14.6	14.2	14.1	14.0
SC90-2089	14.3	11.4	12.2	13.9	14.2	16.9	13.5	11.9	13.0	15.5	10.8	12.1	12.8
SC90-2839	16.3	11.5	13.8	14.9	17.2	18.9	14.5	13.5	13.1	15.1	10.9	13.1	13.2

† Not included in mean.

TABLE 41 - (Continued).

STRAIN/ VARIETY	PLY- MOUTH NC	POR- TAGE- VILLE MO(A)	POR- TAGE- VILLE MO(B)	ROH- WER AR†	ST. JOSEPH LA	STARK- VILLE MS	STONE- VILLE MS(B)	STUTT- GART AR	SUF- FOLK VA	TALLA- SSEE AL	TIF- TON GA	WAR- SAW VA	MEAN
OIL PERCENTAGE													
BRIM	19.3	20.0	.	20.1	20.4	19.8	20.9	21.0	.	19.5	20.2	20.5	20.2
LYON	19.7	19.8	.	19.8	20.2	19.8	21.1	20.4	.	20.2	20.5	20.0	20.4
AU89-1424	20.2	20.3	.	19.3	20.3	20.6	21.1	20.7	.	20.6	21.2	20.9	20.7
SC89-147	20.1	19.9	.	20.2	20.6	20.1	21.2	20.3	.	19.8	20.8	20.9	20.7
SC89-181	19.5	19.3	.	19.4	19.6	19.5	21.5	20.0	.	19.9	20.0	20.5	20.0
V88-494	19.5	20.5	.	20.6	20.7	19.9	21.0	20.9	.	20.4	20.7	20.6	20.6
AU90-442	20.0	20.6	.	20.0	21.2	20.1	22.3	21.0	.	20.5	21.3	21.5	21.0
AU90-585	19.5	19.9	.	20.7	20.6	19.8	21.1	20.3	.	19.6	20.5	21.2	20.4
AU90-592	19.4	19.9	.	19.8	20.7	20.0	22.2	20.3	.	19.8	20.4	20.8	20.4
G89-300	19.6	19.9	.	20.2	21.2	20.1	21.1	20.5	.	20.0	20.7	20.5	20.6
G89-2223	21.3	20.0	.	20.3	21.2	20.6	20.6	20.1	.	20.2	21.7	20.7	20.8
G89-2272	20.3	20.2	.	19.7	21.0	21.0	22.1	20.8	.	21.2	22.0	21.1	21.2
N90-541	21.0	21.5	.	21.8	22.5	22.1	22.2	22.0	.	21.4	22.1	22.1	22.0
N91-140	20.6	19.9	.	18.9	20.6	20.1	20.1	20.2	.	20.7	21.7	20.8	20.6
N91-386	19.1	18.9	.	18.7	20.0	19.8	20.3	20.1	.	19.8	20.2	19.6	19.9
R90-555	18.7	18.5	.	19.7	20.3	19.4	21.7	20.3	.	20.3	20.7	21.0	20.2
SC90-2089	19.2	19.3	.	19.4	19.7	19.8	20.8	19.3	.	19.3	20.0	20.8	19.8
SC90-2839	19.3	19.2	.	19.9	20.5	19.8	21.4	20.8	.	19.9	20.4	19.7	20.1
PROTEIN PERCENTAGE													
BRIM	44.7	41.1	.	44.2	43.0	45.7	44.2	37.6	.	46.0	42.4	42.5	43.9
LYON	42.5	41.3	.	45.8	43.5	43.4	43.1	41.9	.	45.1	41.5	41.7	43.0
AU89-1424	42.7	38.7	.	45.0	42.5	42.3	42.6	40.6	.	44.1	41.0	40.7	41.9
SC89-147	43.6	41.6	.	43.6	42.6	43.7	42.5	44.4	.	44.9	42.1	41.4	42.6
SC89-181	42.2	39.7	.	42.9	41.9	43.4	42.0	41.0	.	44.7	42.1	42.1	42.2
V88-494	45.3	40.6	.	43.5	42.4	45.4	43.0	42.9	.	44.2	42.5	42.3	43.1
AU90-442	41.7	40.1	.	43.9	43.1	44.8	43.2	42.3	.	43.6	41.7	40.9	42.4
AU90-585	44.2	40.2	.	43.4	43.2	45.1	43.7	42.8	.	44.8	42.0	41.3	43.1
AU90-592	44.6	40.6	.	44.3	43.4	45.3	43.6	42.7	.	44.5	42.8	41.7	43.5
G89-300	41.0	38.3	.	42.2	41.1	42.0	41.7	40.4	.	43.1	41.2	39.6	41.3
G89-2223	41.7	41.7	.	44.9	44.0	45.2	42.4	44.3	.	45.3	43.5	42.7	43.7
G89-2272	42.1	40.8	.	45.4	43.4	44.1	43.0	40.3	.	44.1	42.4	40.8	42.6
N90-541	44.0	41.1	.	44.7	41.5	42.2	43.2	42.5	.	45.6	43.5	41.1	43.0
N91-140	43.1	39.6	.	46.7	42.9	43.4	43.3	41.6	.	42.6	41.2	40.6	42.3
N91-386	45.2	41.9	.	46.4	44.3	45.1	44.8	40.6	.	44.2	43.2	43.4	43.7
R90-555	44.9	41.1	.	44.7	43.2	45.5	43.7	42.7	.	45.4	42.4	41.1	43.5
SC90-2089	45.3	42.4	.	45.6	44.6	45.6	44.5	44.6	.	45.0	43.2	42.5	44.3
SC90-2839	42.6	40.5	.	42.3	42.4	43.9	44.2	34.4	.	44.7	42.6	42.7	42.4
GRAMS PER 100 SEED													
BRIM	12.2	12.4	13.7	12.4	10.3	12.2	.	11	13.3	14.4	14.4	13.9	13.1
LYON	14.7	12.7	14.2	12.8	10.4	12.7	.	12	14.6	15.3	15.1	15.1	13.8
AU89-1424	16.1	14.4	14.9	13.6	13.3	14.7	.	15	16.5	17.0	18.1	17.4	15.6
SC89-147	1.4	13.0	14.0	13.2	11.7	13.5	.	14	14.2	17.7	18.0	15.1	14.2
SC89-181	11.5	11.4	12.6	11.3	9.3	10.2	.	12	12.0	15.6	14.8	13.1	12.4
V88-494	1.5	12.9	13.5	12.2	12.6	13.3	.	14	14.8	15.0	17.0	15.9	13.5
AU90-442	12.1	11.2	10.9	11.3	11.6	11.2	.	12	12.4	12.5	15.2	13.1	12.4
AU90-585	1.1	10.4	11.5	12.0	11.7	12.1	.	12	11.4	14.0	15.7	12.7	12.1
AU90-592	11.2	10.2	10.7	11.0	11.7	11.9	.	12	11.3	13.3	15.3	12.3	12.1
G89-300	16.6	14.7	15.3	13.9	13.9	15.5	.	15	16.7	15.3	20.2	17.1	16.1
G89-2223	13.7	12.5	12.6	11.7	12.5	13.5	.	12	14.0	13.9	17.0	16.0	13.6
G89-2272	15.7	13.9	13.6	12.8	12.6	15.6	.	13	15.5	15.4	19.6	16.4	15.2
N90-541	16.5	14.7	15.4	14.9	13.9	16.0	.	16	16.3	18.8	18.9	17.3	16.2
N91-140	16.1	12.4	12.6	10.7	12.1	11.9	.	12	13.2	13.3	17.7	14.9	13.3
N91-386	20.5	19.0	20.6	15.4	16.2	20.3	.	18	21.2	21.6	23.9	22.7	20.2
R90-555	16.2	14.3	14.7	13.3	12.8	15.5	.	14	16.1	17.0	18.3	15.9	15.4
SC90-2089	12.3	11.7	13.0	12.4	12.1	13.9	.	13	13.5	14.1	15.5	14.5	13.4
SC90-2839	12.6	13.0	14.0	12.8	13.1	14.2	.	10	13.8	15.2	18.7	15.9	14.2

† Not included in mean.

TABLE 42 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BRIM FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1994.

EAST COAST						
STRAIN/ VARIETY	FLORENCE SC	PLYMOUTH NC	SUFFOLK VA	WARSAW VA	MEAN	
	10/20	10/21	10/21	10/26	10/22	
BRIM						
LYON	-1	5	-1	3	1	
AU89-1424	4	5	3	2	4	
SC89-147	6	0	4	7	4	
SC89-181	5	3	4	7	5	
V88-494	4	5	3	4	4	
AU90-442	5	5	4	5	5	
AU90-585	5	3	2	2	3	
AU90-592	4	1	3	2	3	
G89-300	4	5	3	4	4	
G89-2223	4	8	6	11	7	
G89-2272	3	5	3	7	4	
N90-541	-1	0	2	1	0	
N91-140	4	5	-3	6	3	
N91-386	5	5	3	7	5	
R90-555	-3	0	-2	-6	-3	
SC90-2089	4	1	3	5	3	
SC90-2839	4	0	2	7	3	
SOUTHEAST						
STRAIN/ VARIETY	BLACK- VILLE SC(A)	FAIR- HOPE AL	JAY FL	TALLASSEE AL	TIFTON GA	MEAN
	10/16	09/24	10/17	10/19	10/03	10/10
BRIM						
LYON	-1	2	3	0	-4	0
AU89-1424	-2	4	11	2	1	3
SC89-147	1	12	7	8	10	7
SC89-181	4	12	11	8	12	9
V88-494	-4	0	4	1	3	1
AU90-442	-1	3	7	1	1	2
AU90-585	-2	3	7	4	7	4
AU90-592	0	1	4	2	6	2
G89-300	-3	6	11	2	7	4
G89-2223	2	5	11	2	4	4
G89-2272	-2	6	4	1	-1	2
N90-541	-2	0	4	-2	-2	-1
N91-140	-3	2	4	0	3	1
N91-386	-1	3	4	1	3	2
R90-555	-3	-4	5	0	-2	-1
SC90-2089	1	3	4	5	5	3
SC90-2839	0	6	4	6	5	4
UPPER AND CENTRAL SOUTH						
STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	CALHOUN GA	CLEMSON SC	STARK- VILLE MS	MEAN
	10/10	10/03	10/12	10/11	10/05	10/08
BRIM						
LYON	-3	1	-1	0	1	0
AU89-1424	2	4	3	3	7	4
SC89-147	2	4	2	10	10	6
SC89-181	3	4	9	10	11	7
V88-494	1	4	2	5	4	3
AU90-442	2	4	5	4	2	4
AU90-585	-1	4	6	4	6	4
AU90-592	-1	3	4	4	2	3
G89-300	0	7	3	3	6	4
G89-2223	3	8	10	8	9	8
G89-2272	0	4	2	3	12	4
N90-541	-4	3	-1	-2	-1	-1
N91-140	0	1	4	4	-1	2
N91-386	0	6	4	4	7	4
R90-555	-5	0	-1	-3	-1	-2
SC90-2089	1	5	4	10	6	5
SC90-2839	0	3	5	4	11	5

TABLE 42 - (Continued).

DELTA								
STRAIN/ VARIETY	JONES- BORO AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	ROHWER AR†	ST. JOSEPH LA	STONE- VILLE MS(B)	MEAN
BRIM	10/13	10/14	10/20	10/22	10/03	09/28	10/05	10/12
LYON	6	2	-1	-1	-2	1	-2	1
AU89-1424	8	5	1	2	2	3	-2	3
SC89-147	12	6	4	3	6	5	0	5
SC89-181	11	7	5	4	7	7	2	6
V88-494	2	4	4	5	0	4	-3	3
AU90-442	7	4	1	2	4	3	0	3
AU90-585	7	4	-1	-1	5	4	1	2
AU90-592	8	3	-1	-1	1	3	-4	1
G89-300	6	4	3	1	3	5	2	4
G89-2223	7	5	5	4	2	3	1	4
G89-2272	6	3	1	0	0	2	-1	2
N90-541	-2	1	-7	-1	-6	0	-6	-2
N91-140	4	4	2	0	-1	1	-3	1
N91-386	7	3	4	3	2	4	3	4
R90-555	-1	-9	1	-2	-1	5	-5	-2
SC90-2089	7	6	4	4	4	6	1	5
SC90-2839	7	4	1	0	1	4	0	3

WEST				
STRAIN/VARIETY	BEAUMONT TX	BIXBY OK	STUTTGART AR	MEAN
BRIM	10/07	10/25	10/07	10/13
LYON	-2	0	1	0
AU89-1424	-1	5	4	3
SC89-147	6	5	13	8
SC89-181	0	5	13	6
V88-494	-3	2	4	1
AU90-442	-1	8	8	5
AU90-585	0	5	10	5
AU90-592	-2	3	2	1
G89-300	0	4	7	3
G89-2223	-2	12	7	6
G89-2272	-4	9	2	2
N90-541	-2	3	-1	0
N91-140	-5	12	2	3
N91-386	0	6	5	4
R90-555	-2	2	-1	0
SC90-2089	-1	7	5	3
SC90-2839	-1	6	3	3

† Not included in mean.



TABLE 43 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1994.

STRAIN/ VARIETY	EAST COAST					MEAN
	FLORENCE SC	KINSTON NC†	PLYMOUTH NC	SUFFOLK VA	WARSAW VA	
BRIM	39	28	32	47	43	40
LYON	37	29	33	40	44	39
AU89-1424	38	34	34	46	44	41
SC89-147	39	26	29	43	46	39
SC89-181	38	29	32	44	44	40
V88-494	38	28	33	48	44	41
AU90-442	38	26	28	43	43	38
AU90-585	38	27	31	49	43	40
AU90-592	38	29	31	43	43	39
G89-300	40	29	33	45	43	40
G89-2223	37	30	28	42	43	38
G89-2272	37	29	30	45	41	38
N90-541	35	21	25	37	41	35
N91-140	37	25	28	39	45	37
N91-386	41	33	37	60	52	48
R90-555	42	35	37	55	48	46
SC90-2089	39	29	31	44	46	40
SC90-2839	39	31	29	45	48	40

  

STRAIN/ VARIETY	SOUTHEAST					MEAN
	BLACK- VILLE SC(A)	FAIR- HOPE AL	JAY FL	TALLA- SSEE AL	TIFTON GA	
BRIM	28	33	18	38	32	30
LYON	24	33	16	35	21	26
AU89-1424	27	33	18	35	23	27
SC89-147	27	34	19	39	27	29
SC89-181	30	34	20	38	31	30
V88-494	21	29	19	39	19	25
AU90-442	26	36	21	34	30	29
AU90-585	28	34	21	39	26	30
AU90-592	27	33	20	40	24	29
G89-300	24	35	22	36	23	28
G89-2223	25	34	20	32	30	28
G89-2272	21	34	20	34	30	28
N90-541	21	29	19	34	23	25
N91-140	31	40	22	38	27	32
N91-386	27	39	25	44	29	33
R90-555	24	40	24	39	28	31
SC90-2089	27	39	21	38	34	32
SC90-2839	23	36	18	38	29	29

  

STRAIN/ VARIETY	UPPER AND CENTRAL SOUTH					MEAN
	ATHENS GA	BELLE MINA AL	CALHOUN GA	CLEMSON SC	STARK- VILLE MS	
BRIM	44	41	40	42	39	41
LYON	35	31	37	36	31	34
AU89-1424	36	36	40	41	35	38
SC89-147	36	37	42	44	36	39
SC89-181	39	37	42	41	33	39
V88-494	37	34	37	41	32	36
AU90-442	39	36	38	42	35	38
AU90-585	40	37	46	40	38	40
AU90-592	39	38	36	37	35	37
G89-300	39	36	39	44	33	38
G89-2223	39	33	36	38	34	36
G89-2272	39	32	40	43	31	37
N90-541	33	29	34	38	27	32
N91-140	38	39	35	41	31	37
N91-386	42	40	43	45	38	42
R90-555	43	37	42	42	38	40
SC90-2089	44	39	43	43	34	41
SC90-2839	42	36	49	41	33	40

† Not included in mean.

TABLE 43 - (Continued).

DELTA								
STRAIN/ VARIETY	JONES- BORO AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	ROHWER AR†	ST. JOSEPH LA	STONE- VILLE MS(B)	MEAN
BRIM	39	43	50	43	43	33	36	41
LYON	35	38	35	34	33	28	31	33
AU89-1424	36	42	46	38	40	31	31	37
SC89-147	35	44	44	36	37	32	35	38
SC89-181	40	40	44	39	38	30	35	38
V88-494	35	41	35	37	34	26	29	34
AU90-442	31	44	45	36	38	31	31	36
AU90-585	36	45	47	38	37	31	33	38
AU90-592	37	44	42	35	35	30	31	37
G89-300	35	44	42	40	40	29	34	37
G89-2223	27	38	29	31	34	28	30	31
G89-2272	33	42	42	33	35	30	25	34
N90-541	25	33	30	27	30	26	26	28
N91-140	32	44	37	35	36	28	29	34
N91-386	35	49	38	44	40	34	37	40
R90-555	36	42	44	40	42	33	35	38
SC90-2089	36	42	44	36	40	28	31	36
SC90-2839	35	44	48	36	38	30	32	38

WEST						
STRAIN/ VARIETY	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	MEAN	
BRIM	30	40	43	42	39	
LYON	25	36	34	38	33	
AU89-1424	26	37	35	38	34	
SC89-147	26	36	36	40	34	
SC89-181	27	34	36	40	34	
V88-494	25	35	32	38	33	
AU90-442	27	35	34	38	33	
AU90-585	27	35	36	37	34	
AU90-592	24	34	39	37	33	
G89-300	28	42	32	42	36	
G89-2223	24	40	31	33	32	
G89-2272	22	43	36	34	34	
N90-541	24	40	27	33	31	
N91-140	25	43	33	37	35	
N91-386	30	48	40	42	40	
R90-555	29	49	42	38	39	
SC90-2089	25	49	37	41	38	
SC90-2839	21	46	33	38	35	

† Not included in mean.

TABLE 44 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1994.

EAST COAST						
STRAIN/ VARIETY	FLORENCE SC	KINSTON NC†	PLYMOUTH NC	SUFFOLK VA	WARSAW VA	MEAN
BRIM	2.7	2.0	2.7	3.3	3.8	3.1
LYON	2.7	2.0	3.3	4.2	4.2	3.6
AU89-1424	2.0	2.0	3.0	3.3	3.8	3.0
SC89-147	2.7	2.0	2.7	3.2	3.7	3.0
SC89-181	2.3	2.0	3.0	3.5	3.8	3.2
V88-494	2.0	2.0	3.0	3.5	3.3	3.0
AU90-442	2.0	2.0	2.7	3.7	3.7	3.0
AU90-585	3.0	2.0	4.0	4.7	3.8	3.9
AU90-592	3.0	2.0	3.3	4.5	4.0	3.7
G89-300	2.0	2.0	2.7	2.7	4.0	2.8
G89-2223	2.7	1.7	3.0	3.7	3.8	3.3
G89-2272	2.0	2.0	2.0	2.8	3.6	2.6
N90-541	1.0	2.0	1.7	2.5	3.2	2.1
N91-140	2.0	2.0	3.0	3.2	3.8	3.0
N91-386	2.0	2.0	3.0	3.3	3.2	2.9
R90-555	2.3	2.0	3.0	3.5	2.7	2.9
SC90-2089	3.0	2.0	3.7	3.3	3.8	3.5
SC90-2839	2.3	2.0	2.7	3.5	3.3	3.0
SOUTHEAST						
STRAIN/ VARIETY	FAIRHOPE AL	JAY FL	TALLASSEE AL	TIFTON GA		MEAN
BRIM	1.3	1.0	1.7	1.3		1.3
LYON	2.0	1.0	1.8	1.0		1.5
AU89-1424	1.0	1.0	1.5	1.0		1.1
SC89-147	1.0	1.0	3.0	1.0		1.5
SC89-181	1.0	1.0	3.7	1.7		1.8
V88-494	1.0	1.0	1.0	1.0		1.0
AU90-442	1.0	1.0	1.8	1.3		1.3
AU90-585	1.0	1.0	1.3	1.0		1.1
AU90-592	1.7	1.0	1.5	1.0		1.3
G89-300	1.0	1.0	1.2	1.0		1.0
G89-2223	1.0	1.0	3.0	1.3		1.6
G89-2272	1.0	1.0	1.0	1.0		1.0
N90-541	1.0	1.0	1.0	1.0		1.0
N91-140	2.0	1.0	1.5	1.0		1.4
N91-386	1.0	1.0	1.2	1.0		1.0
R90-555	1.0	1.0	1.3	1.0		1.1
SC90-2089	1.7	1.0	1.5	1.3		1.4
SC90-2839	1.0	1.0	1.3	1.0		1.1
UPPER AND CENTRAL SOUTH						
STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	CALHOUN GA	CLEMSON SC	STARK- VILLE MS	MEAN
BRIM	2.5	2.0	3.3	3.3	3.3	2.9
LYON	3.0	2.0	3.5	3.3	2.7	2.9
AU89-1424	3.3	1.0	2.7	2.0	1.7	2.1
SC89-147	2.7	2.0	2.7	2.0	2.3	2.3
SC89-181	3.8	2.3	3.0	3.0	2.0	2.8
V88-494	2.5	1.3	1.8	2.0	2.3	2.0
AU90-442	3.7	2.0	2.7	3.3	2.0	2.7
AU90-585	3.2	2.0	3.7	3.3	4.0	3.2
AU90-592	3.2	2.0	3.3	3.0	3.3	3.0
G89-300	2.0	1.0	2.5	2.0	1.0	1.7
G89-2223	4.0	1.7	3.3	3.0	2.0	2.8
G89-2272	2.0	1.0	1.5	2.0	1.0	1.5
N90-541	2.0	1.0	1.2	2.0	1.0	1.4
N91-140	3.0	2.0	2.7	2.7	2.7	2.6
N91-386	1.7	1.3	1.8	2.0	2.0	1.8
R90-555	2.8	2.0	2.8	3.0	3.3	2.8
SC90-2089	2.3	2.0	2.0	2.0	2.3	2.1
SC90-2839	2.8	1.7	3.2	2.0	2.0	2.3

† Not included in mean.

TABLE 44 - (Continued).

DELTA								
STRAIN/ VARIETY	JONES- BORO AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	ROHWER AR†	ST. JOSEPH LA	STONE- VILLE MB(B)	MEAN
BRIM	1.3	2.3	2.0	2.5	1.0	1.9	2.0	2.0
LYON	2.0	4.0	2.5	2.5	1.3	1.8	2.0	2.5
AU89-1424	1.0	3.0	2.5	2.0	1.0	1.7	2.0	2.0
SC89-147	1.3	4.3	2.0	2.5	1.0	1.7	2.0	2.3
SC89-181	1.7	3.0	2.5	2.5	1.0	1.6	2.0	2.2
V88-494	1.7	2.3	2.0	2.5	1.0	1.6	2.0	2.0
AU90-442	1.0	3.0	2.0	2.5	1.0	1.6	2.0	2.0
AU90-585	1.0	3.0	2.0	2.5	1.3	1.9	2.0	2.1
AU90-592	1.7	3.3	2.0	3.0	1.0	1.7	2.7	2.4
G89-300	1.0	3.0	2.0	2.0	1.0	1.6	2.0	1.9
G89-2223	1.0	3.0	2.0	2.0	1.0	1.6	2.0	1.9
G89-2272	1.0	1.3	1.0	1.0	1.0	1.5	2.0	1.3
N90-541	1.0	1.7	1.0	1.0	1.0	1.4	2.0	1.3
N91-140	1.0	3.0	1.5	1.5	1.0	1.8	2.0	1.8
N91-386	1.0	2.0	2.0	2.0	1.0	1.7	2.0	1.8
R90-555	1.0	1.0	2.5	2.5	1.0	1.5	2.0	1.8
SC90-2089	1.3	2.3	1.5	2.5	1.0	1.6	2.0	1.9
SC90-2839	1.0	2.3	2.5	2.0	1.0	1.6	2.0	1.9

WEST						
STRAIN/ VARIETY	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	MEAN	
BRIM	1.0	3.0	1.0	2.3	1.8	
LYON	1.0	5.0	1.0	4.3	2.8	
AU89-1424	1.0	4.0	1.0	3.0	2.3	
SC89-147	1.0	3.0	1.0	3.7	2.2	
SC89-181	1.0	3.0	1.0	4.7	2.4	
V88-494	1.0	4.0	1.0	3.3	2.3	
AU90-442	1.0	4.0	1.0	4.0	2.5	
AU90-585	1.0	4.0	1.0	4.3	2.6	
AU90-592	1.0	3.0	1.0	4.3	2.3	
G89-300	1.0	5.0	1.0	4.0	2.8	
G89-2223	1.0	5.0	1.7	3.3	2.8	
G89-2272	1.0	3.0	1.0	1.3	1.6	
N90-541	1.0	3.0	1.0	1.0	1.5	
N91-140	1.0	4.0	1.0	3.3	2.3	
N91-386	1.0	2.0	1.0	3.3	1.8	
R90-555	1.0	4.0	1.0	2.7	2.2	
SC90-2089	1.0	2.0	1.0	4.0	2.0	
SC90-2839	1.0	3.0	1.0	2.0	1.8	

† Not included in mean.

TABLE 45 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1994.

STRAIN/ VARIETY	EAST COAST				MEAN
	KINSTON NC†	PLYMOUTH NC	SUFFOLK VA	WARSAW VA	
BRIM	2.0	2.5	1.0	1.7	1.7
LYON	2.0	2.0	1.3	1.8	1.7
AU89-1424	2.0	2.0	1.3	1.8	1.7
SC89-147	2.0	2.0	1.0	1.2	1.4
SC89-181	2.0	2.5	1.0	1.5	1.7
V88-494	2.0	2.5	1.0	1.4	1.6
AU90-442	2.0	2.0	1.0	1.3	1.4
AU90-585	2.0	2.5	1.0	1.4	1.6
AU90-592	2.0	2.5	1.0	1.3	1.6
G89-300	2.0	2.0	1.0	1.5	1.5
G89-2223	2.0	2.0	1.0	1.4	1.5
G89-2272	2.0	2.5	1.0	1.6	1.7
N90-541	2.0	2.5	1.0	1.8	1.8
N91-140	2.0	2.0	1.0	1.4	1.5
N91-386	2.0	2.5	1.0	1.9	1.8
R90-555	2.0	2.0	1.7	1.3	1.7
SC90-2089	2.0	2.5	1.0	1.7	1.7
SC90-2839	2.0	2.5	1.0	1.7	1.7

  

STRAIN/ VARIETY	SOUTHEAST				MEAN
	FAIRHOPE AL	JAY FL	TALLASSEE AL	TIFTON GA	
BRIM	3.0	3.0	1.0	1.3	2.1
LYON	1.5	3.0	1.5	1.3	1.8
AU89-1424	2.0	3.0	1.5	1.5	2.0
SC89-147	1.0	3.0	1.5	1.1	1.7
SC89-181	1.0	2.0	2.5	1.4	1.7
V88-494	1.5	3.0	1.0	1.2	1.7
AU90-442	1.5	3.0	1.5	1.5	1.9
AU90-585	1.5	3.0	1.0	1.3	1.7
AU90-592	2.0	3.0	1.0	1.5	1.9
G89-300	2.0	2.0	1.5	1.6	1.8
G89-2223	1.0	2.0	1.0	1.1	1.3
G89-2272	1.0	2.0	1.0	1.6	1.4
N90-541	2.0	2.0	2.5	2.5	2.3
N91-140	1.0	3.0	1.0	1.2	1.5
N91-386	2.5	2.0	1.0	1.6	1.8
R90-555	1.5	3.0	1.5	2.0	2.0
SC90-2089	1.0	3.0	1.0	1.5	1.6
SC90-2839	1.0	3.0	1.0	1.2	1.6

  

STRAIN/ VARIETY	UPPER AND CENTRAL SOUTH				MEAN
	ATHENS GA	BELLE MINA AL	CALHOUN GA	STARKVILLE MS	
BRIM	2.0	1.0	1.8	2.0	1.7
LYON	2.0	1.0	1.8	2.0	1.7
AU89-1424	2.3	1.0	2.0	2.0	1.8
SC89-147	2.0	1.0	1.0	1.0	1.3
SC89-181	2.2	1.0	1.7	2.0	1.7
V88-494	2.1	1.0	1.5	2.0	1.7
AU90-442	2.1	1.0	2.0	2.0	1.8
AU90-585	2.0	1.0	1.5	3.0	1.9
AU90-592	2.2	1.0	1.2	2.0	1.6
G89-300	2.5	1.0	1.8	3.0	2.1
G89-2223	2.2	1.0	1.8	2.0	1.8
G89-2272	2.0	1.0	1.7	3.0	1.9
N90-541	2.3	1.0	2.0	2.0	1.8
N91-140	1.9	1.0	1.8	2.0	1.7
N91-386	2.4	1.0	2.0	2.0	1.9
R90-555	2.4	1.0	2.3	3.0	2.2
SC90-2089	2.2	1.0	1.7	2.0	1.7
SC90-2839	2.1	1.0	1.2	1.0	1.3

† Not included in mean.

TABLE 45 - (Continued).

DELTA							
STRAIN/ VARIETY	JONES- BORO AR	PINE TREE AR	PORTAGE- VILLE MO(A)	PORTAGE- VILLE MO(B)	ST. JOSEPH LA	STONE- VILLE MS(B)	MEAN
BRIM	1.7	1.3	1.0	1.0	1.6	2.0	1.4
LYON	1.0	1.0	1.5	1.5	2.0	2.0	1.5
AU89-1424	1.7	2.0	1.5	1.5	2.6	2.3	1.9
SC89-147	2.0	2.0	1.5	1.5	1.8	2.0	1.8
SC89-181	1.7	1.7	1.5	1.5	2.6	2.0	1.8
V88-494	1.3	1.3	1.5	1.5	1.7	2.7	1.7
AU90-442	1.7	2.0	1.5	1.5	2.1	2.0	1.8
AU90-585	2.0	2.0	1.5	1.5	2.1	2.0	1.9
AU90-592	2.0	1.7	1.5	1.0	1.8	3.0	1.8
G89-300	1.7	1.3	2.0	1.0	2.1	2.0	1.7
G89-2223	1.3	1.0	2.0	1.5	1.9	2.0	1.6
G89-2272	2.0	1.3	1.5	1.5	2.2	2.0	1.8
N90-541	1.0	1.3	2.0	1.5	2.2	3.0	1.8
N91-140	2.0	1.0	2.0	1.5	2.0	2.0	1.8
N91-386	1.7	1.7	2.0	1.5	1.6	2.0	1.7
R90-555	1.7	1.7	2.0	1.5	1.9	2.7	1.9
SC90-2089	2.0	2.0	1.5	1.0	1.6	2.0	1.7
SC90-2839	1.0	1.0	1.0	1.0	1.9	2.3	1.4

WEST			
STRAIN/VARIETY	BEAUMONT TX	BOSSIER CITY LA	MEAN
BRIM	1.0	1.0	1.0
LYON	1.0	3.3	2.2
AU89-1424	1.3	3.0	2.2
SC89-147	2.2	2.0	2.1
SC89-181	1.0	3.0	2.0
V88-494	1.0	1.7	1.3
AU90-442	1.0	1.7	1.3
AU90-585	1.0	3.3	2.2
AU90-592	1.0	2.7	1.8
G89-300	1.0	3.7	2.3
G89-2223	1.0	1.7	1.3
G89-2272	1.0	3.0	2.0
N90-541	2.2	2.3	2.3
N91-140	1.0	2.3	1.7
N91-386	1.2	3.0	2.1
R90-555	1.2	2.7	1.9
SC90-2089	1.0	1.7	1.3
SC90-2839	1.0	2.0	1.5

**PRELIMINARY GROUP VI****1994**

Preliminary Group VI nurseries were planted at 9 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 46. Table 47 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 48 - 54.

The cultivar Brim is the yield and maturity check. It had a mean yield of 46.7 bushels per acre and a mean maturity of October 14 at the 9 locations.

TABLE 46 - PARENTAGE OF STRAINS/VARIETY GROWN IN PRELIMINARY GROUP VI, 1994.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BRIM	YOUNG X N77-1102	F7
2. LYON	D82-2218 X LAMAR	F5
3. BEDFORD	FORREST(2) X (D68-18 X PI88788)	F4
4. TN690	A5474 X TN82-94	F5
5. AU91-158	G83-198 X N85-492	F6
6. AU91-307	G83-198 X N85-492	F6
7. AU91-357	G83-198 X N85-492	F6
8. AU91-399	G83-198 X N85-492	F6
9. AU91-1371	AU82-211 X AU82-589	F6
10. D91-4715	EPPS X SHARKEY	F5
11. D91-9507	D87-5963 X (EPPS X SHARKEY)	F4
12. D92-4216	LYON X D86-3429	F5
13. D92-4219	LYON X D86-3429	F5
14. D92-8760	D87-3465 X D87-4736	F5
15. F90-5728	BEDFORD X F84-6291	F5
16. F91-1507	BEDFORD X F84-6291	F6
17. F92-2488	PI417479 X F87-4039	F6
18. G90-1290	COKER 82-622 X G81-152	F6
19. G90-1356	COKER 82-622 X G81-152	F6
20. G90-1399	COKER 82-622 X G81-152	F6
21. G90-1441	COKER 82-622 X G81-152	F6
22. G90-5176	LAMAR X D82-3213	F7
23. N92-142	N85-661 X N85-67	F6
24. N92-441	PI438302B X N85-492	F6
25. N92-486	N85-574 X PI471938	F6
26. N92-598	N85-492 X N84-507	F6
27. N92-612	N85-492 X PI438302B	F6
28. N91-6026	GASOY 17 X AMCOR	F4
29. N91-6032	GASOY 17 X WILLIAMS	F4
30. N91-8005	N77-114 X PI416937	F4
31. NTCPR92-5	NAKESENNARI X D74-9806	F4
32. NTCPR92-40	NAKESENNARI X D74-9806	F4
33. OK89-5618	COKER 156 X ESSEX	F5
34. R91-347	(R80-437 X SHARKEY) X (JEFF X R80-64K)	F6
35. R91-4484	R85-336 X WALTERS	F5
36. S91-1839	HARTWIG X COKER 485	F5
37. SC88-714	J90-293 X [GORDON X (FOSTER X D77-6056)]	F5
38. SC91-1457	STONEWALL X THOMAS	F5
39. SC91-1601	COKER 6847 X STONEWALL	F5
40. SC91-1881	NK'S S83-30 X HUTCHESON	F5
41. SC91-2007	NK'S S83-30 X HUTCHESON	F5
42. TSB92-641	SHARKEY X BRYAN	F5
43. TSB92-1273	AU82-211 X THOMAS	F5
44. TSB92-1300	AU82-211 X THOMAS	F5
45. TSB92-3262	SHARKEY X AU82-589	F5
46. TSB92-3396	SHARKEY X S82-1338	F5



TABLE 47 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 1994.

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	HT.	OIL	PRO- TEIN	SEED SIZE	LODG- ING	SEED QTY.
BRIM	46.7	10/14	38	20.4	42.6	13.1	1.9	1.4
LYON	43.7	1+	34	20.4	44.0	13.9	2.6	1.5
BEDFORD	39.2-	4-	36	20.4	42.7	13.3	2.4	2.2
TN690	41.6	5-	30	20.4	44.4	16.0	1.7	2.5
AU91-158	47.2	2+	34	20.9	42.4	14.4	1.8	1.7
AU91-307	42.9	3+	32	21.5+	41.6	12.5	1.8	1.5
AU91-357	45.2	4+	30	21.2+	43.9	13.0	1.9	1.5
AU91-399	44.6	3+	32	21.0+	41.7	12.8	1.8	1.6
AU91-1371	45.7	5+	33	19.4-	43.7	13.1	2.3	1.5
D91-4715	45.5	1+	37	19.9	45.3+	13.3	2.3	1.6
D91-9507	40.5-	7+	41	20.0	43.5	14.6	2.9	2.2
D92-4216	42.3	6+	37	19.3-	46.2+	14.4	2.8	1.5
D92-4219	39.1-	4+	35	20.0	46.2+	16.6	2.7	1.8
D92-8760	34.3-	5+	44	19.7-	41.3	12.1	2.7	2.3
F90-5728	36.9-	0	30	19.7-	42.4	14.5	2.2	1.9
F91-1507	34.8-	1+	27	19.6-	43.1	14.1	1.9	1.7
F92-2488	39.6-	0	31	18.8-	43.8	14.6	2.2	1.6
G90-1290	43.5	3-	32	21.0+	41.0	13.2	1.6	1.5
G90-1356	45.0	2+	33	20.7	42.3	14.7	1.5	1.5
G90-1399	43.7	1-	31	20.6	42.2	13.7	1.9	1.5
G90-1441	44.4	2+	37	21.0+	43.9	14.4	2.4	1.7
G90-5176	39.7-	4+	39	19.5-	43.5	12.0	2.4	1.5
N92-142	42.5	5-	28	21.3+	42.9	15.6	1.6	2.1
N92-441	45.8	2-	28	20.9	41.3	17.4	1.6	2.3
N92-486	45.1	1-	27	21.3+	43.7	16.4	2.2	1.8
N92-598	51.7	0	29	21.8+	41.2	17.3	1.9	2.4
N92-612	46.9	0	32	21.4+	40.0-	16.7	2.2	2.5
N91-6026	39.3-	4+	41	20.2	41.5	11.8	2.2	1.7
N91-6032	40.4-	6+	44	20.7	42.5	14.5	2.6	1.6
N91-8005	42.6	1-	27	21.1+	42.0	15.9	1.5	1.8
NTCPR92-5	40.9-	6+	37	20.1	43.5	22.0	2.1	1.9
NTCPR92-40	44.9	2+	36	20.4	43.8	22.1	1.9	2.1
OK89-5618	40.9-	0	36	21.1+	42.4	15.8	2.1	2.0
R91-347	44.2	2+	35	20.1	45.5+	14.8	2.0	1.9
R91-4484	44.9	2-	29	20.5	44.4	15.9	2.0	2.0
S91-1839	42.1	2-	34	20.3	41.8	11.4	2.0	1.5
SC88-714	44.8	2+	34	20.4	43.9	11.6	2.5	1.6
SC91-1457	40.5-	3+	39	20.5	42.1	14.9	2.1	1.5
SC91-1601	45.6	5+	38	20.9	43.5	14.9	2.1	1.6
SC91-1881	43.8	5+	42	20.8	41.6	13.4	2.0	1.6
SC91-2007	47.0	6+	40	20.6	43.9	14.2	1.8	1.8
TSB92-641	45.2	3+	35	19.7-	44.6+	15.7	1.9	2.0
TSB92-1273	44.2	6+	40	20.1	43.7	15.9	2.4	1.6
TSB92-1300	42.5	4+	36	20.5	43.8	16.1	2.3	1.6
TSB92-3262	41.6	7+	39	20.2	44.0	13.1	2.1	1.6
TSB92-3396	41.2-	9+	43	20.0	43.1	12.7	2.7	1.6
Overall Mean	42.9			20.4	43.1			
L.S.D. (0.05)	5.5			0.6	1.8			
C.V. (%)	12.2			2.6	3.7			

TABLE 47 - (Continued).

STRAIN/ VARIETY	M.a. TN	M.i. TN	SCN 3	SCN 14	STEM CANKER MS	STEM CANKER TX
BRIM	3.0	1.2	5.0	5.0	4.1	1.0
LYON	1.0	1.0	2.0	1.3	1.0	0.0
BEDFORD	1.0	1.0	1.3	1.3	3.1	2.0
TN690	3.0	1.0	3.0	3.0	---	1.0
AU91-158	1.4	1.0	2.4	5.0	4.0	0.0
AU91-307	1.4	1.0	5.0	5.0	4.4	3.0
AU91-357	1.2	1.0	5.0	5.0	3.1	1.0
AU91-399	2.0	1.0	5.0	4.5	4.0	2.0
AU91-1371	4.0	2.0	1.1	5.0	2.3	0.0
D91-4715	3.4	1.1	3.0	2.0	1.3	0.0
D91-9507	4.0	1.3	1.3	3.1	1.0	0.0
D92-4216	1.0	2.0	5.0	5.0	1.0	0.0
D92-4219	4.0	1.3	5.0	5.0	1.0	0.0
D92-8760	3.2	3.0	1.0	5.0	---	0.0
F90-5728	1.0	1.0	1.2	4.0	2.0	0.0
F91-1507	1.0	1.0	2.0	2.2	2.0	0.0
F92-2488	2.0	1.2	5.0	5.0	4.4	0.0
G90-1290	1.0	1.0	1.0	3.4	1.0	0.0
G90-1356	1.0	1.0	2.0	4.0	1.0	0.0
G90-1399	1.3	1.0	1.2	4.3	1.0	0.0
G90-1441	1.2	1.0	1.0	4.5	3.0	0.0
G90-5176	1.3	1.0	2.0	2.0	4.0	1.0
N92-142	1.0	1.0	5.0	4.5	5.0	0.0
N92-441	2.0	1.1	5.0	5.0	2.0	0.0
N92-486	3.0	1.0	5.0	5.0	4.0	1.0
N92-598	2.4	1.1	5.0	5.0	4.0	0.0
N92-612	2.0	1.0	5.0	5.0	4.4	2.0
N91-6026	3.4	4.0	5.0	5.0	1.0	0.0
N91-6032	4.0	1.3	5.0	5.0	4.0	2.0
N91-8005	3.0	1.0	5.0	5.0	2.0	0.0
NTCPR92-5	3.4	1.1	5.0	5.0	3.0	0.0
NTCPR92-40	3.3	1.3	5.0	5.0	4.0	0.0
OK89-5618	2.3	1.0	2.3	2.0	5.0	1.0
R91-347	4.0	1.0	1.0	5.0	3.0	2.0
R91-4484	4.3	3.3	2.0	5.0	4.0	1.0
S91-1839	1.0	1.0	1.0	5.0	4.2	1.0
SC88-714	2.0	1.0	1.2	2.0	4.1	1.0
SC91-1457	4.0	1.1	2.0	5.0	3.0	0.0
SC91-1601	1.1	1.0	1.0	5.0	1.1	0.0
SC91-1881	1.3	1.0	5.0	5.0	1.0	0.0
SC91-2007	2.0	1.0	1.0	5.0	1.0	0.0
TSB92-641	4.0	2.2	1.1	5.0	1.3	0.0
TSB92-1273	4.0	1.0	1.3	4.0	1.0	0.0
TSB92-1300	4.0	1.1	2.0	4.1	1.0	0.0
TSB92-3262	4.0	3.0	2.4	5.0	3.3	0.0
TSB92-3396	4.0	2.0	2.0	5.0	4.0	0.0

TABLE 48 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	BIXBY OK	BLACK- VILLE SC(A)†	JAY FL†	PLY- MOUTH NC	STONE- VILLE MS(B)	STUTT- GART AR	TALLA- SSEE AL	MEAN
BRIM	52.7	28.8	56.3	45.3	24.8	50.6	46.6	35.2	57.0	46.5
LYON	49.2	27.9	52.2	35.7	20.9	48.1	39.5-	41.0	48.0	42.7
BEDFORD	41.8-	24.9	56.0	18.0-	23.1	46.3	36.2-	30.5	39.0-	36.6-
TN690	63.3+	22.0-	62.9	12.9-	24.8	45.6	38.4-	27.2	32.0-	38.0-
AU91-158	61.2	27.1	53.9	27.6	19.8	51.6	47.6	43.2	46.0	44.8
AU91-307	47.1	24.0	59.2	36.9	22.6	46.3	47.8	34.3	41.5-	42.1
AU91-357	54.0	31.4	50.0	35.5	14.3	41.5-	48.9	44.6+	46.0	44.0
AU91-399	55.0	28.5	56.3	28.1	20.4	43.9	46.0	38.4	44.0	42.5
AU91-1371	53.7	31.2	56.4	42.4	24.2	47.7	40.3-	46.7+	44.0	45.3
D91-4715	51.5	28.8	59.3	33.4	27.5	45.9	43.9	33.1	56.0	44.0
D91-9507	48.2	27.1	42.3-	41.4	34.7	44.5	37.8-	39.5	44.5	40.7-
D92-4216	44.4	27.2	55.3	36.8	22.6	43.4	44.3	40.8	41.0-	41.6
D92-4219	43.3	24.7	44.5-	37.3	28.1	47.3	39.7-	37.0	37.5-	38.9
D92-8760	47.7	23.6	30.2-	24.4	34.1	38.1-	34.5-	31.5	34.5-	33.0-
F90-5728	50.3	17.6-	47.8	29.2	29.7	44.2	32.7-	33.1	32.5-	35.9-
F91-1507	50.0	17.3-	37.1-	22.4-	28.1	38.7-	33.1-	26.7-	41.0-	34.8
F92-2488	37.3-	24.6	51.4	13.3-	32.5	42.9	43.3	36.9	41.0-	36.3-
G90-1290	56.5	28.4	58.1	15.8-	24.2	45.9	47.6	29.2	39.0-	40.1
G90-1356	66.7+	25.3	44.6-	23.3	19.8	48.9	47.0	33.3	49.5	42.3
G90-1399	49.6	20.8-	54.4	25.7	28.6	47.9	49.2	47.3+	37.0-	41.5
G90-1441	53.5	25.8	52.5	40.0	25.9	45.8	50.2	44.0+	39.5-	43.9
G90-5176	45.7	24.9	54.5	44.3	16.5	44.5	42.6	28.5	37.0-	40.2-
N92-142	62.8+	22.0-	53.0	17.9-	11.0-	41.2-	33.8-	33.9	51.0	39.4-
N92-441	51.5	25.1	56.0	39.5	17.6	48.8	41.2-	44.3+	53.5	45.0
N92-486	58.5	25.3	56.4	23.5	18.7	45.5	40.9-	48.3+	41.0-	42.4
N92-598	71.4+	30.0	58.9	22.5-	21.5	51.4	44.1	45.5+	61.0	48.1
N92-612	59.7	24.4	54.1	25.4	21.5	56.7	38.2-	44.3+	51.0	44.2
N91-6026	45.8	24.3	46.0	25.3	19.3	43.2	36.7-	25.5-	53.5	37.5-
N91-6032	38.3-	23.2	49.2	29.7	25.9	44.4	37.3-	45.8+	44.5	39.0-
N91-8005	44.3	16.0-	55.1	19.8-	14.3	50.2	47.9	40.2	44.5	39.7-
NTCPR92-5	38.6-	22.7	52.6	36.8	16.5	44.1	40.2-	41.2	47.0	40.4-
NTCPR92-40	44.1	24.1	50.4	32.0	29.2	50.1	45.0	49.1+	51.5	43.3
OK89-5618	52.8	23.2	49.6	14.1-	24.8	42.9	38.2-	33.4	46.5	37.6-
R91-347	55.8	21.4-	52.4	35.3	23.7	51.8	42.3	41.2	45.0	43.1
R91-4484	59.5	26.4	61.1	5.9-	26.4	49.5	42.5	42.1	33.5-	40.1-
S91-1839	53.6	24.9	56.0	28.4	26.4	48.2	38.0-	32.8	41.0-	40.4-
SC88-714	50.7	20.9-	59.0	20.4-	16.0	50.3	42.3	43.8+	46.5	41.7
SC91-1457	54.2	29.3	54.6	33.4	28.6	42.7	34.9-	25.2-	42.5-	39.6-
SC91-1601	46.7	29.5	55.1	42.2	26.4	44.5	48.9	48.4+	46.0	45.2
SC91-1881	60.7	27.2	57.1	47.9	22.0	40.5-	43.5	31.6	46.0	44.3
SC91-2007	54.5	26.7	61.1	55.7	28.6	48.1	47.5	36.4	54.5	48.1
TSB92-641	53.2	26.7	52.2	34.5	22.6	44.8	47.4	44.3+	48.0	43.9
TSB92-1273	52.9	34.3	48.9	38.0	24.2	43.3	39.0-	41.1	50.0	43.4
TSB92-1300	42.7-	32.6	55.5	27.8-	19.8	43.2	39.7-	44.9+	39.0-	40.7-
TSB92-3262	40.4-	22.0-	59.8	21.5-	20.4	42.7	35.8-	43.8+	47.0	39.1-
TSB92-3396	49.4	30.2	48.6	48.6	23.7	45.1	31.4-	37.6	46.5	42.2
Overall Mean	51.4	25.5	53.0	30.3	23.4	45.9	41.6	38.4	44.7	42.9
L.S.D.(0.05)	9.9	6.8	10.9	22.1	12.5	8.4	4.9	8.3	14.0	5.5
C.V.(%)	9.6	13.2	10.2	36.2	26.5	15.8	5.8	10.8	15.5	12.2

† Not included in mean.

TABLE 49 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL†	PLYMOUTH NC	STONE- VILLE MS(B)	STUTT- GART AR	TALLA- SSEE AL	MEAN
BRIM	19.9	19.8	21.1	19.5	20.8	21.9	20.2	20.4
LYON	20.1	20.5	20.4	19.2	20.7	21.1	20.6	20.4
BEDFORD	19.8	20.2	20.9	19.5	22.0	21.1	20.0	20.4
TN690	19.9	20.0	21.0	20.2	20.6	21.1	20.7	20.4
AU91-158	20.6	21.4	20.9	20.6	21.0	20.5	21.0	20.9
AU91-307	21.3	21.9	21.8	20.6	21.6	22.1	21.3	21.5
AU91-357	21.0	21.9	21.6	20.5	21.1	20.8	21.8	21.2
AU91-399	20.5	21.4	22.0	20.6	21.5	21.5	20.7	21.0
AU91-1371	19.4	20.5	21.5	19.1	18.8	19.3	19.5	19.4
D91-4715	20.0	20.2	20.8	19.0	19.1	20.7	20.1	19.9
D91-9507	20.0	20.2	20.7	19.5	20.4	20.8	19.3	20.0
D92-4216	19.3	19.6	20.8	18.4	19.8	19.3	19.1	19.3
D92-4219	19.1	21.0	22.0	19.4	19.9	19.9	20.4	20.0
D92-8760	18.5	20.3	20.5	18.4	20.4	21.0	19.5	19.7
F90-5728	19.0	21.2	19.3	19.0	20.2	20.0	18.8	19.7
F91-1507	18.8	20.4	19.8	19.1	20.9	20.0	18.5	19.6
F92-2488	17.6	20.7	19.3	18.2	19.1	18.1	19.2	18.8
G90-1290	20.2	21.0	21.3	20.2	20.7	22.4	21.6	21.0
G90-1356	20.1	21.0	21.3	20.3	20.8	20.8	21.3	20.7
G90-1399	20.4	--	19.3	21.6	20.4	20.8	20.7	20.6
G90-1441	20.5	21.8	21.3	20.3	20.8	20.6	21.7	21.0
G90-5176	18.4	19.7	20.8	20.3	18.9	20.1	19.6	19.5
N92-142	20.5	21.7	21.9	20.4	21.2	22.3	21.4	21.3
N92-441	20.2	21.7	21.3	19.7	21.7	21.1	20.9	20.9
N92-486	20.9	22.3	21.9	20.5	21.7	21.3	21.0	21.3
N92-598	21.7	22.0	22.0	21.0	22.0	22.1	21.9	21.8
N92-612	20.8	22.2	21.4	20.7	22.1	21.3	21.3	21.4
N91-6026	19.5	20.6	21.3	19.3	20.5	21.8	19.7	20.2
N91-6032	19.9	21.5	20.5	20.3	20.0	21.0	21.3	20.7
N91-8005	20.8	21.6	21.4	20.3	21.4	20.8	21.6	21.1
NTCPR92-5	19.6	19.8	21.0	19.8	20.2	20.3	20.7	20.1
NTCPR92-40	20.4	19.5	21.7	20.3	20.8	20.8	20.6	20.4
OK89-5618	21.1	21.0	21.9	20.2	21.8	21.7	20.8	21.1
R91-347	20.1	19.7	21.3	19.7	20.0	20.6	20.5	20.1
R91-4484	20.3	20.6	21.0	20.1	20.9	20.3	20.9	20.5
S91-1839	20.1	20.3	20.7	19.7	20.4	21.1	20.4	20.3
SC88-714	20.6	19.7	22.0	20.6	20.5	20.5	20.4	20.4
SC91-1457	20.5	20.5	21.5	19.9	20.3	21.8	20.0	20.5
SC91-1601	20.6	20.4	21.8	21.0	21.4	21.1	20.8	20.9
SC91-1881	20.6	20.5	21.8	20.2	21.4	21.9	20.0	20.8
SC91-2007	20.9	19.8	22.1	20.3	20.6	21.2	21.0	20.6
TSB92-641	19.0	19.2	20.9	18.9	20.9	19.9	20.0	19.7
TSB92-1273	20.1	20.0	21.2	19.2	20.4	20.8	20.2	20.1
TSB92-1300	20.2	21.2	21.2	20.4	20.6	20.3	20.5	20.5
TSB92-3262	20.2	20.3	20.5	19.2	21.4	19.5	20.5	20.2
TSB92-3396	19.8	20.2	21.0	19.3	19.7	20.5	20.5	20.0

† Not included in mean.

TABLE 50 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	JAY FL†	PLYMOUTH NC	STONE- VILLE MS(B)	STUTT- GART AR	TALLA- SSEE AL	MEAN
BRIM	44.9	47.0	41.0	44.8	42.7	30.2	45.9	42.6
LYON	43.3	47.7	41.4	44.0	42.6	40.7	45.4	44.0
BEDFORD	43.9	46.6	41.2	41.9	41.4	38.2	44.4	42.7
TN690	45.8	47.7	42.2	43.5	45.5	38.4	45.7	44.4
AU91-158	42.0	44.0	40.8	42.6	41.4	42.1	42.0	42.4
AU91-307	40.8	44.3	41.3	42.6	42.5	36.2	42.9	41.6
AU91-357	43.7	45.7	43.1	43.0	44.4	42.8	43.6	43.9
AU91-399	41.4	45.8	40.1	42.1	41.5	38.8	40.5	41.7
AU91-1371	43.0	45.4	40.2	44.5	41.9	42.5	45.1	43.7
D91-4715	44.1	47.8	44.6	46.9	46.3	39.7	46.7	45.3
D91-9507	43.3	45.4	43.1	44.6	43.3	40.8	43.8	43.5
D92-4216	45.0	48.2	43.3	46.8	45.0	44.5	47.4	46.2
D92-4219	46.4	45.9	40.9	46.2	46.8	45.0	47.0	46.2
D92-8760	41.8	44.3	39.4	42.6	41.6	34.1	43.1	41.3
F90-5728	41.6	44.9	41.0	41.5	42.1	39.1	45.4	42.4
F91-1507	42.1	45.8	41.2	42.6	42.8	39.4	45.7	43.1
F92-2488	43.0	43.9	41.5	44.9	44.4	42.7	43.6	43.8
G90-1290	42.2	46.0	40.2	41.7	41.7	31.2	42.9	41.0
G90-1356	42.7	45.2	40.7	42.0	42.7	38.0	43.4	42.3
G90-1399	42.8	--	40.1	42.6	42.2	39.6	43.9	42.2
G90-1441	42.6	45.1	41.6	43.4	43.5	43.2	45.7	43.9
G90-5176	44.0	46.2	40.9	43.6	44.5	38.0	44.8	43.5
N92-142	44.1	45.0	41.5	44.7	43.4	36.3	43.6	42.9
N92-441	41.5	44.0	39.6	41.8	40.1	39.5	41.0	41.3
N92-486	44.0	44.1	41.9	43.9	42.6	42.8	44.7	43.7
N92-598	41.4	43.6	39.6	41.4	40.1	39.7	41.0	41.2
N92-612	39.8	42.8	40.4	40.2	38.8	38.0	40.5	40.0
N91-6026	42.9	45.5	40.8	43.6	41.4	31.6	44.0	41.5
N91-6032	43.3	44.3	40.3	42.6	42.5	40.8	41.3	42.5
N91-8005	42.2	41.8	41.8	42.9	40.9	41.4	42.5	42.0
NTCPR92-5	42.4	45.9	40.8	44.4	42.6	42.2	43.6	43.5
NTCPR92-40	43.2	46.6	40.5	43.4	43.7	42.1	44.0	43.8
OK89-5618	42.0	45.6	41.2	42.3	41.9	38.6	43.7	42.4
R91-347	45.7	48.5	42.9	45.1	45.6	42.3	45.5	45.5
R91-4484	44.3	47.2	41.7	43.6	43.7	42.2	45.3	44.4
S91-1839	42.6	45.7	40.4	42.7	41.9	34.7	43.3	41.8
SC88-714	44.2	47.4	40.4	44.6	42.6	41.6	43.2	43.9
SC91-1457	42.6	46.0	41.1	43.9	42.2	33.4	44.6	42.1
SC91-1601	43.6	47.0	42.3	42.1	42.7	41.1	44.6	43.5
SC91-1881	42.5	45.7	41.0	42.6	41.5	34.3	42.8	41.6
SC91-2007	42.9	47.6	41.3	42.9	44.2	40.6	44.9	43.9
TSB92-641	44.1	46.7	43.6	45.3	43.5	42.0	45.8	44.6
TSB92-1273	44.0	44.4	43.1	44.9	42.7	40.6	45.4	43.7
TSB92-1300	44.0	44.7	41.6	44.5	43.2	42.1	44.0	43.8
TSB92-3262	43.1	45.4	42.1	43.6	43.7	43.9	44.2	44.0
TSB92-3396	43.3	47.1	43.0	43.1	42.8	37.9	44.2	43.1

† Not included in mean.

TABLE 51 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BIXBY OK	JAY FL†	PLYMOUTH NC	STUTT- GART AR	TALLA- SSEE AL	MEAN
BRIM	14.3	12.8	13.9	15.3	12.6	11.0	13.9	13.1
LYON	14.9	12.4	14.7	14.9	14.2	13.0	14.4	13.9
BEDFORD	14.5	14.1	14.1	14.0	13.8	10.0	13.1	13.3
TN690	20.5	15.5	17.8	13.8	16.4	11.0	15.0	16.0
AU91-158	15.5	12.7	15.7	14.4	14.2	13.0	15.1	14.4
AU91-307	12.6	10.9	13.6	13.5	12.6	12.0	13.4	12.5
AU91-357	13.6	12.1	13.1	13.6	13.6	14.0	11.6	13.0
AU91-399	13.2	11.2	13.8	12.7	13.2	12.0	13.2	12.8
AU91-1371	14.1	12.0	13.3	15.1	12.4	12.0	14.6	13.1
D91-4715	14.7	12.5	14.5	14.4	13.4	12.0	12.7	13.3
D91-9507	15.3	12.6	16.1	17.4	14.0	15.0	14.4	14.6
D92-4216	15.0	13.1	14.6	17.4	14.4	14.0	15.5	14.4
D92-4219	17.5	14.2	17.0	17.1	16.3	17.0	17.6	16.6
D92-8760	13.0	11.2	12.3	14.2	13.1	11.0	12.3	12.1
F90-5728	15.9	14.3	14.7	14.8	15.7	12.0	14.1	14.5
F91-1507	15.2	13.2	13.8	16.4	16.3	11.0	14.9	14.1
F92-2488	14.3	13.9	15.7	16.4	14.4	14.0	15.1	14.6
G90-1290	15.6	12.1	15.8	15.8	14.8	10.0	11.0	13.2
G90-1356	16.8	14.1	15.8	16.9	15.7	12.0	13.7	14.7
G90-1399	15.2	12.8	14.6	15.5	14.1	12.0	13.3	13.7
G90-1441	16.2	12.9	16.3	15.8	15.4	14.0	11.9	14.4
G90-5176	12.7	9.5	13.4	13.9	14.8	10.0	11.5	12.0
N92-142	18.2	13.9	15.9	13.6	17.6	12.0	16.0	15.6
N92-441	17.7	19.0	16.3	15.4	18.1	15.0	18.3	17.4
N92-486	18.1	15.1	17.6	15.1	17.1	14.0	16.8	16.4
N92-598	20.0	17.0	18.9	16.3	15.7	15.0	17.2	17.3
N92-612	17.2	15.3	17.2	20.6	17.1	15.0	18.3	16.7
N91-6026	12.2	10.2	13.0	15.4	11.7	10.0	13.7	11.8
N91-6032	14.9	12.8	15.7	17.2	14.2	15.0	14.6	14.5
N91-8005	17.4	13.6	17.0	16.4	16.5	13.0	17.8	15.9
NTCPR92-5	22.3	19.1	21.8	22.1	22.7	22.0	24.0	22.0
NTCPR92-40	23.7	19.3	21.0	19.1	22.3	22.0	24.3	22.1
OK89-5618	17.4	13.7	16.3	15.6	16.5	14.0	16.6	15.8
R91-347	16.9	11.4	16.5	14.9	14.9	14.0	15.1	14.8
R91-4484	18.5	15.7	15.9	16.2	17.1	14.0	14.2	15.9
S91-1839	13.4	10.5	13.7	11.6	11.2	9.0	10.7	11.4
SC88-714	12.5	9.2	13.0	12.7	11.8	11.0	12.1	11.6
SC91-1457	17.4	12.5	17.1	15.2	15.0	11.0	16.3	14.9
SC91-1601	16.4	12.8	15.9	13.3	15.2	14.0	15.2	14.9
SC91-1881	16.2	11.2	14.8	13.8	12.9	11.0	14.5	13.4
SC91-2007	15.7	10.5	17.1	14.4	14.3	13.0	14.6	14.2
TSB92-641	17.2	13.6	17.7	15.9	16.0	15.0	14.7	15.7
TSB92-1273	16.9	13.1	16.6	14.2	15.9	16.0	16.7	15.9
TSB92-1300	17.5	14.8	16.8	11.5	15.5	15.0	16.9	16.1
TSB92-3262	13.8	10.4	13.7	13.5	13.0	14.0	13.5	13.1
TSB92-3396	13.3	10.3	14.3	15.5	13.2	12.0	13.0	12.7

† Not included in mean.

TABLE 52 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	BIXBY OK	BLACK- VILLE CS(A)†	JAY FL†	PLY- MOUTH NC	STONE- VILLE MS(B)	STUTT- GART AR	TALLA- SSEE AL	MEAN
BRIM	45	27	42	26	21	33	37	43	38	35
LYON	30	26	44	22	17	34	30	35	39	31
BEDFORD	42	26	39	22	22	34	32	39	40	33
TN690	39	21	41	16	19	25	23	32	32	28
AU91-158	41	28	40	21	21	31	29	36	32	31
AU91-307	35	25	38	20	18	29	32	34	27	29
AU91-357	38	25	33	16	18	27	26	28	28	27
AU91-399	33	26	32	18	24	29	37	32	34	29
AU91-1371	37	23	39	19	16	31	32	35	31	29
D91-4715	40	31	39	23	23	37	36	36	39	34
D91-9507	53	32	44	25	22	38	34	43	40	37
D92-4216	34	30	51	21	24	35	34	39	35	33
D92-4219	36	28	43	21	22	33	34	36	37	32
D92-8760	51	36	55	28	35	35	39	47	40	41
F90-5728	37	23	35	15	23	25	30	28	29	27
F91-1507	30	24	35	18	23	24	24	25	27	25
F92-2488	31	26	39	21	22	26	30	32	34	29
G90-1290	41	25	35	21	19	29	28	35	30	29
G90-1356	41	24	42	22	18	28	30	30	35	30
G90-1399	38	20	43	17	17	28	29	33	30	28
G90-1441	44	25	47	19	16	33	31	42	37	33
G90-5176	41	27	52	23	15	36	38	43	33	34
N92-142	27	19	45	13	17	23	24	31	30	25
N92-441	30	21	37	16	20	25	24	33	30	26
N92-486	32	17	37	13	19	20	32	29	29	25
N92-598	28	21	41	17	16	25	23	31	32	26
N92-612	33	21	45	19	16	30	25	31	36	28
N91-6026	46	30	53	17	22	36	37	46	38	36
N91-6032	52	33	51	20	20	38	47	47	40	39
N91-8005	22	15	39	12	13	32	26	27	26	24
NTCPR92-5	38	27	47	25	26	35	36	38	39	34
NTCPR92-4	41	28	45	20	22	32	36	26	38	32
OK89-5618	35	25	46	18	19	35	35	39	39	32
R91-347	40	23	46	21	21	33	36	35	29	32
R91-4484	38	19	43	14	15	27	23	30	25	26
S91-1839	40	23	46	18	18	32	28	38	35	31
SC88-714	34	25	51	18	17	30	32	39	29	30
SC91-1457	41	28	50	22	19	38	35	46	38	35
SC91-1601	43	27	46	21	17	34	36	42	38	34
SC91-1881	53	29	46	31	22	36	42	42	42	38
SC91-2007	45	29	51	29	22	37	39	40	37	37
TSB92-641	38	25	43	23	18	32	34	36	35	31
TSB92-1273	37	34	51	18	22	38	36	44	41	35
TSB92-1300	43	25	46	20	19	35	32	39	31	32
TSB92-3262	42	29	50	21	18	36	39	40	36	34
TSB92-3396	55	31	52	34	22	35	40	47	41	40

† Not included in mean.

TABLE 53 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI,1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	BIXBY OK	JAY FL†	PLY- MOUTH NC	STONE- VILLE MS(B)	STUTT- GART AR	TALLA- SSEE AL	MEAN
BRIM	2.0	1.0	4.0	1.0	2.0	2.0	1.5	1.3	1.9
LYON	4.0	1.0	5.0	1.0	3.0	2.0	4.0	2.0	2.6
BEDFORD	3.3	1.0	5.0	1.0	2.5	2.0	3.0	2.0	2.4
TN690	1.9	1.0	3.0	1.0	2.0	2.0	1.0	1.0	1.7
AU91-158	2.6	1.0	3.0	1.0	2.0	2.0	1.5	1.0	1.8
AU91-307	2.5	1.0	3.0	1.0	2.0	2.0	1.5	1.0	1.8
AU91-357	2.8	1.0	3.0	1.0	2.5	2.0	1.5	1.0	1.9
AU91-399	2.6	1.0	2.0	1.0	3.0	2.0	1.5	1.0	1.8
AU91-1371	3.8	1.0	4.0	1.0	2.5	2.5	2.0	1.0	2.3
D91-4715	2.8	1.0	4.0	1.0	3.0	2.0	2.5	2.0	2.3
D91-9507	4.7	1.3	5.0	1.0	4.0	2.0	5.0	2.3	2.9
D92-4216	4.8	1.3	5.0	1.0	3.0	2.5	4.0	2.0	2.8
D92-4219	4.0	1.0	5.0	1.0	3.0	2.5	5.0	2.5	2.7
D92-8760	4.1	1.0	4.0	1.0	3.5	2.5	4.0	2.5	2.7
F90-5728	2.7	1.0	3.0	2.5	3.0	2.0	3.0	1.0	2.2
F91-1507	2.7	1.0	3.0	1.0	2.5	2.0	3.0	1.0	1.9
F92-2488	3.8	1.0	3.0	1.0	3.0	2.0	3.0	1.8	2.2
G90-1290	2.4	1.0	2.0	1.0	2.0	2.0	1.0	1.0	1.6
G90-1356	1.8	1.0	2.0	1.0	2.0	2.0	1.0	1.0	1.5
G90-1399	2.5	1.0	4.0	1.0	2.0	2.0	1.5	1.0	1.9
G90-1441	3.4	1.0	5.0	1.0	3.0	2.0	3.0	1.3	2.4
G90-5176	3.6	1.0	5.0	1.0	3.0	2.0	4.0	1.0	2.4
N92-142	2.1	1.0	3.0	1.0	1.0	2.0	1.0	1.0	1.6
N92-441	1.7	1.0	3.0	1.0	1.5	2.0	1.0	1.0	1.6
N92-486	2.6	1.0	5.0	1.0	2.5	2.0	2.0	1.0	2.2
N92-598	2.2	1.0	4.0	1.0	2.0	2.0	1.0	1.0	1.9
N92-612	2.7	1.0	5.0	1.0	2.5	2.0	1.5	1.0	2.2
N91-6026	2.9	1.0	4.0	1.0	3.0	2.5	3.0	1.3	2.2
N91-6032	3.5	1.0	5.0	1.0	3.5	2.0	4.5	2.5	2.6
N91-8005	1.6	1.0	2.0	1.0	2.0	2.0	1.0	1.0	1.5
NTCPR92-5	3.2	1.0	4.0	1.0	2.5	2.0	5.0	1.3	2.1
NTCPR92-40	3.2	1.0	3.0	1.0	2.0	2.0	2.5	1.3	1.9
OK89-5618	2.5	1.0	4.0	1.0	3.0	2.0	1.5	1.0	2.1
R91-347	2.6	1.0	4.0	1.0	2.5	2.0	2.5	1.0	2.0
R91-4484	2.3	1.0	5.0	1.0	2.0	2.0	2.0	1.0	2.0
S91-1839	2.9	1.0	4.0	1.0	2.0	2.0	1.0	1.0	2.0
SC88-714	4.0	1.0	5.0	1.0	3.5	2.0	3.0	1.3	2.5
SC91-1457	3.2	1.0	3.0	1.0	3.0	2.0	3.5	1.5	2.1
SC91-1601	2.8	1.0	4.0	1.0	2.5	2.0	2.0	1.5	2.1
SC91-1881	2.6	1.0	3.0	1.0	3.0	2.0	3.0	1.5	2.0
SC91-2007	2.3	1.0	2.0	1.0	2.5	2.5	2.5	1.0	1.8
TSB92-641	2.5	1.0	3.0	1.0	2.5	2.0	2.5	1.0	1.9
TSB92-1273	3.3	1.0	4.0	1.0	3.0	2.0	4.0	2.5	2.4
TSB92-1300	3.5	1.0	4.0	1.0	3.5	2.0	3.0	1.3	2.3
TSB92-3262	3.2	1.0	3.0	1.0	3.0	2.5	3.5	1.3	2.1
TSB92-3396	4.2	1.0	5.0	1.0	3.0	2.5	4.5	2.3	2.7

† Not included in mean.



TABLE 54 - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	JAY FL†	PLY- MOUTH NC	STONE- VILLE MS(B)	TALLA- SSEE AL	MEAN
BRIM	1.5	1.0	4.0	1.5	2.0	1.0	1.4
LYON	1.5	1.0	3.0	2.0	2.0	1.0	1.5
BEDFORD	1.8	2.5	2.0	2.0	3.0	1.5	2.2
TN690	2.3	3.3	3.0	2.0	2.5	2.5	2.5
AU91-158	1.8	1.0	2.0	2.0	2.0	1.5	1.7
AU91-307	1.5	1.0	2.0	2.0	2.0	1.0	1.5
AU91-357	1.5	1.0	2.0	2.0	2.0	1.0	1.5
AU91-399	1.8	1.3	2.0	2.0	2.0	1.0	1.6
AU91-1371	1.5	1.3	2.0	1.5	2.0	1.0	1.5
D91-4715	1.5	1.5	3.0	2.0	2.0	1.0	1.6
D91-9507	1.5	2.5	2.0	2.0	2.0	3.0	2.2
D92-4216	1.5	1.0	2.0	2.0	2.0	1.0	1.5
D92-4219	2.0	1.5	3.0	2.0	2.0	1.5	1.8
D92-8760	2.3	2.3	2.0	2.5	2.0	2.5	2.3
F90-5728	1.8	1.5	3.0	2.0	3.0	1.0	1.9
F91-1507	1.5	1.5	3.0	2.0	2.0	1.5	1.7
F92-2488	1.5	1.0	2.0	2.0	2.5	1.0	1.6
G90-1290	1.5	1.0	3.0	2.0	2.0	1.0	1.5
G90-1356	1.5	1.3	2.0	1.5	2.0	1.0	1.5
G90-1399	1.5	1.0	2.0	2.0	2.0	1.0	1.5
G90-1441	1.5	1.3	2.0	2.0	2.0	1.5	1.7
G90-5176	1.5	1.0	3.0	2.0	2.0	1.0	1.5
N92-142	2.3	2.0	3.0	2.0	2.5	1.5	2.1
N92-441	2.0	1.8	2.0	2.5	3.0	2.0	2.3
N92-486	1.8	1.3	4.0	2.0	2.5	1.5	1.8
N92-598	2.5	2.0	4.0	2.0	2.5	3.0	2.4
N92-612	2.3	3.0	4.0	2.0	2.0	3.0	2.5
N91-6026	1.5	1.0	3.0	2.0	2.5	1.5	1.7
N91-6032	1.8	1.0	3.0	2.0	2.0	1.0	1.6
N91-8005	2.3	1.3	3.0	2.0	2.0	1.5	1.8
NTCPR92-5	2.3	1.3	3.0	2.0	2.5	1.5	1.9
NTCPR92-40	2.3	2.0	2.0	2.5	2.0	1.5	2.1
OK89-5618	2.0	1.8	4.0	2.5	2.0	1.5	2.0
R91-347	1.5	2.3	3.0	2.0	2.0	1.5	1.9
R91-4484	2.0	2.0	3.0	2.5	2.0	1.5	2.0
S91-1839	1.5	1.0	3.0	2.0	2.0	1.0	1.5
SC88-714	1.8	1.0	3.0	2.0	2.0	1.0	1.6
SC91-1457	1.5	1.3	3.0	1.5	2.0	1.0	1.5
SC91-1601	1.8	1.8	2.0	1.5	2.0	1.0	1.6
SC91-1881	1.5	1.0	3.0	2.0	2.0	1.5	1.6
SC91-2007	1.5	1.3	2.0	2.5	2.0	1.5	1.8
TSB92-641	1.8	2.8	3.0	2.0	2.0	1.5	2.0
TSB92-1273	1.5	1.0	3.0	2.0	2.5	1.0	1.6
TSB92-1300	1.8	1.3	2.0	2.0	2.0	1.0	1.6
TSB92-3262	1.5	1.0	3.0	2.0	2.0	1.5	1.6
TSB92-3396	1.5	1.5	2.0	2.0	2.0	1.0	1.6

† Not included in mean.

**MATURITY**

**GROUP**

**VII**

**UNIFORM GROUP VII****1994**

Uniform Group VII nurseries were planted at 18 locations. Data were obtained from 18 of these locations. The parentage for each strain is reported in Table 55. Table 56 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 57 - 63.

The cultivar Stonewall is the yield and maturity check. It had a mean yield of 48.1 bushels per acre and a mean maturity of October 16 at the 18 locations.

TABLE 55 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 1994.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. STONEWALL	N73-693 X F76-8757	F6
2. HASKELL	JOHNSTON X BRAXTON	F5
3. AU89-2363	STONEWALL X COKER 6738	F6
4. G88-3266	HUTCHESON X COKER 6738	F6
5. G89-9111	HUTCHESON X COKER 6738	F7
6. SC88-2872	COKER 368 X LEFLORE	F5
7. SC89-328	HUTCHESON X LEFLORE	F5
8. SC89-1093	BRIM X COKER 6738	F5
9. AU90-519	HUTCHESON X AU82-589	F6
10. N90-845	BRIM X N80-777	F6
11. N90-1072	BRIM X N80-777	F6
12. N91-404	N85-4085 X BRAXTON	F6
13. N91-639	HUTCHESON X N84-878	F6
14. SC90-80	YOUNG X LEFLORE	F6
15. SC90-831	HUTCHESON X COKER 6738	F5

**Background of lines used as parents:**

**AU82-589** is a selection from N74-1572 X F76-8846.

**F76-8757** is a SCN race 3 resistant line from (Centennial X Forrest) X (Cobb X D68-216).

**F76-8846** is a selection from Centennial X [Forrest X (Cobb X D68-216)].

**N73-693** is a selection from D68-216 X Ransom which was grown in Uniform Group VI in 1977. D68-216 is a SCN race 3 resistant selection of the same parentage as Forrest.

**N74-1572** is a selection from Govan X Davis.

**N80-777** is a selection from N70-1501 X (N72-40 X N73-538). N70-1501 is a selection from Dare X D65-6765. N72-40 is a selection from D64-3253 X D65-3168 and N73-538 is a selection from Tracy X Ransom.

**N84-878** is a selection from Young X Gasoy 17.

**N85-4085** is a selection from Centennial X PI 417409.

TABLE 56 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 1994.

STRAIN/VARIETY	YIELD†			PROTEIN			OIL		
	1994	93-94	92-94	1994	93-94	92-94	1994	93-94	92-94
1. STONEWALL	48.1	42.6	43.4	43.7	42.4	42.2	20.6	20.9	20.9
2. HASKELL	51.4	45.1	45.1	42.1	41.0	40.7	20.3	20.8	20.7
3. AU89-2363	48.0	42.8	.	43.7	42.6	.	20.5	20.8	.
4. G88-3266	50.0	44.8	.	42.7	41.6	.	20.5	21.0	.
5. G89-9111	46.3	42.2	.	41.9	41.1	.	20.9	21.2	.
6. SC88-2872	45.5	41.2	41.9	42.9	41.8	41.7	20.2	20.4	20.3
7. SC89-328	47.2	42.7	.	43.0	42.1	.	19.9	20.2	.
8. SC89-1093	47.1	42.2	.	43.5	42.8	.	19.0	19.8	.
9. AU90-519	48.2	.	.	42.6	.	.	20.4	.	.
10. N90-845	49.1	41.2	.	43.6	42.4	.	20.1	20.4	.
11. N90-1072	48.7	41.8	.	44.5	43.0	.	19.6	19.9	.
12. N91-404	47.8	.	.	43.7	.	.	20.5	.	.
13. N91-639	47.5	.	.	42.5	.	.	20.2	.	.
14. SC90-80	48.7	.	.	44.5	.	.	20.2	.	.
15. SC90-831	48.9	.	.	41.7	.	.	21.1	.	.

## BOTANICAL TRAITS

STRAIN/ VARIETY	FL. COLOR	MAT. DATE	LOG.	HT.	SEED QUALITY	SEED SIZE	PUB. COL.	POD WALL
1. STONEWALL	W	10/16	1.9	34	1.8	17.6	T	T
2. HASKELL	P	+3	2.5	36	1.7	16.3	T	T
3. AU89-2363	W	+4	2.0	37	1.7	15.6	T	T
4. G88-3266	P	+3	1.9	37	1.8	14.9	T	T
5. G89-9111	W	+3	2.1	35	1.6	14.2	T	T
6. SC88-2872	W	+1	1.9	35	1.5	14.4	G	T
7. SC89-328	W	+1	2.3	37	1.6	13.6	G	T
8. SC89-1093	P	+1	1.8	35	1.7	15.7	G	Br
9. AU90-519	P	+3	1.6	37	1.6	14.4	G	T
10. N90-845	P	+5	2.0	31	1.9	13.6	G	T
11. N90-1072	P	+3	2.0	32	1.7	13.2	G	Br
12. N91-404	P	+2	1.9	36	2.0	19.3	T	T
13. N91-639	W	0	2.1	35	1.5	13.4	G	T
14. SC90-80	W	+2	2.2	36	1.7	15.8	G	T
15. SC90-831	P	+2	1.8	41	1.7	15.7	T	T

## PEST REACTIONS

STRAIN/ VARIETY	FROG	VBC	STEM	STEM	M.a. GA	M.a. TN	M.i. GA	SCN 3	SCN 14	AWB
	EYE MS		CANKER MS	CANKER TX						
1. STONEWALL	0.5	3.8	1.8	0.0	4.3	1.9	3.3	1.0	4.7	3.0
2. HASKELL	0.4	2.5	1.0	0.0	3.0	1.0	2.3	5.0	5.0	3.0
3. AU89-2363	0.5	3.2	1.6	1.0	4.3	2.0	4.8	1.2	4.5	4.5
4. G88-3266	0.7	6.3	1.0	0.0	2.5	1.0	1.3	1.1	5.0	3.5
5. G89-9111	2.1	6.3	1.0	0.0	3.3	1.2	2.5	1.0	5.0	5.0
6. SC88-2872	6.7	5.8	2.5	1.0	3.3	1.0	1.3	1.0	3.9	4.5
7. SC89-328	1.9	6.3	1.4	0.0	4.0	1.0	1.5	5.0	5.0	5.0
8. SC89-1093	6.3	5.7	1.0	0.0	3.8	1.3	2.3	5.0	5.0	5.0
9. AU90-519	0.4	6.5	2.0	1.0	3.8	2.3	4.3	5.0	5.0	2.5
10. N90-845	0.3	5.0	3.4	1.0	4.5	2.9	3.0	5.0	5.0	5.0
11. N90-1072	0.2	4.7	3.3	1.0	4.0	3.2	4.5	5.0	5.0	5.0
12. N91-404	1.0	4.7	1.0	0.0	3.0	1.0	1.0	5.0	5.0	4.0
13. N91-639	0.4	6.2	1.0	0.0	4.8	2.9	1.8	5.0	5.0	4.0
14. SC90-80	2.7	7.8	2.5	0.0	3.8	3.0	3.5	1.4	3.5	4.0
15. SC90-831	2.1	8.0	1.1	0.0	4.0	2.1	3.5	1.0	5.0	3.5

† Data from Bossier City, LA (1993,1994); Gainesville,FL (1992); Jackson Springs, NC (1993); Jay, FL (1994); Kinston, NC (1994); and Quincy, FL (1993,1994) not included in mean.

TABLE 57 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1994.

EAST COAST				
STRAIN/ VARIETY	FLORENCE	JACKSON	KINSTON†	MEAN
	SC	SPRINGS NC	NC	
STONEWALL	51.6	59.4	26.4	55.5
HASKELL	42.8	56.0	12.7	49.4
AU89-2363	49.9	42.4	25.9	46.2
G88-3266	54.3	55.7	20.2	55.0
G89-9111	52.8	47.9	16.7	50.4
SC88-2872	45.5	54.2	24.2	49.8
SC89-328	44.0	44.9	19.6	44.5
SC89-1093	43.9	53.8	13.3	48.9
AU90-519	47.5	41.2	13.3	44.3
N90-845	48.1	55.0	11.7	51.5
N90-1072	46.5	52.4	13.4	49.4
N91-404	44.1	51.1	12.3	47.6
N91-639	46.4	50.2	15.2	48.3
SC90-80	48.2	44.1	20.9	46.1
SC90-831	48.5	55.0	31.9	51.8
Overall Mean	47.6	51.0	18.5	49.2
L.S.D. (0.05)	7.2	9.7	6.6	
C.V. (%)	9.1	10.3	21.4	

SOUTHEAST								
STRAIN/ VARIETY	BATON	BLACK-	FAIR-	JAY†	QUINCY†	TALLA-	TIFTON	MEAN
	ROUGE LA	VILLE SC(A)	HOPE AL	FL	FL	SSEE AL	GA	
STONEWALL	50.5	39.5	46.9	7.0	21.7	54.7	59.4	50.2
HASKELL	57.3	52.5	46.3	8.8	23.2	56.3	72.6	57.0
AU89-2363	50.9	47.1	44.5	9.2	16.0	51.7	62.0	51.2
G88-3266	54.4	52.0	45.1	8.8	18.0	60.3	70.2	56.4
G89-9111	45.3	46.7	45.4	13.2	14.5	48.3	63.5	49.9
SC88-2872	22.2	44.8	45.1	13.6	12.0	54.0	63.8	46.0
SC89-328	40.9	47.3	42.1	20.5	15.6	57.0	71.2	51.7
SC89-1093	30.6	51.7	45.4	13.9	12.7	52.0	68.7	49.7
AU90-519	51.6	51.6	40.3	15.0	18.4	60.7	65.0	53.8
N90-845	43.8	48.0	41.5	13.9	7.6	56.3	71.6	52.2
N90-1072	36.5	47.8	43.6	8.4	13.9	56.7	62.9	49.5
N91-404	47.2	46.8	49.6	16.9	13.1	56.0	65.7	53.1
N91-639	48.2	47.3	43.6	11.0	14.1	53.3	68.0	52.1
SC90-80	45.7	49.0	44.2	11.0	17.7	56.7	64.9	52.1
SC90-831	41.8	46.8	47.2	13.9	16.4	55.7	63.5	51.0
Overall Mean	44.7	47.9	44.7	12.3	15.7	55.3	66.2	51.7
L.S.D. (0.05)	9.2	8.7	7.7	5.8	6.3	8.9	9.4	
C.V. (%)	11.7	10.8	10.3	28.2	23.9	9.7	8.5	

† Not included in mean.

TABLE 57 - (Continued).

UPPER AND CENTRAL SOUTH					
STRAIN/ VARIETY	ATHENS GA	CALHOUN GA	CLEMSON SC	STARKVILLE MS	MEAN
STONEWALL	46.7	47.1	54.0	40.8	47.2
HASKELL	58.1	44.9	54.9	35.7	48.4
AU89-2363	56.8	50.0	55.1	36.0	49.5
G88-3266	53.5	49.0	56.2	41.2	50.0
G89-9111	59.3	39.0	49.8	40.2	47.1
SC88-2872	55.0	52.4	51.7	40.1	49.8
SC89-328	50.3	46.3	54.4	43.2	48.6
SC89-1093	58.0	43.0	51.5	40.2	48.2
AU90-519	53.1	46.5	54.3	42.8	49.2
N90-845	53.8	45.4	57.2	42.4	49.7
N90-1072	57.8	45.7	59.2	44.8	51.9
N91-404	59.6	46.7	57.0	37.7	50.3
N91-639	53.5	47.2	47.3	38.0	46.5
SC90-80	56.5	46.6	54.6	47.4	51.2
SC90-831	53.5	49.5	54.5	46.0	50.9
Overall Mean	55.0	46.5	54.1	41.1	49.2
L.S.D. (0.05)	9.7	8.2	8.3	7.3	
C.V. (%)	10.2	9.2	9.2	10.7	

DELTA AND WEST					
STRAIN/ VARIETY	BEAU- MONT TX	BOSSIER† CITY LA	ST. JOSEPH LA	STONE- VILLE MS	MEAN
STONEWALL	41.9	21.4	46.8	33.7	40.8
HASKELL	51.5	28.3	52.7	38.5	47.6
AU89-2363	46.3	20.1	42.4	36.4	41.7
G88-3266	35.7	27.4	40.4	32.6	36.3
G89-9111	29.0	28.0	43.8	37.7	36.8
SC88-2872	28.9	34.2	44.7	34.2	35.9
SC89-328	37.2	26.4	48.5	33.0	39.6
SC89-1093	30.6	32.7	48.9	41.5	40.3
AU90-519	41.7	32.0	44.8	33.7	40.1
N90-845	38.2	44.4	49.5	37.5	41.7
N90-1072	38.7	43.8	47.0	41.7	42.5
N91-404	29.8	23.8	40.2	38.3	36.1
N91-639	37.9	31.6	43.6	40.0	40.5
SC90-80	35.3	29.2	49.2	39.1	41.2
SC90-831	33.5	25.9	46.6	43.0	41.0
Overall Mean	37.1	30.0	45.9	37.4	40.1
L.S.D. (0.05)	5.7	12.8	6.5	4.8	
C.V. (%)	9.1	25.5	8.5	7.6	

† Not included in mean.

TABLE 58 - SEED YIELD, EXPRESSED AS A PERCENTAGE OF THE LOCATION MEAN, FOR STRAIN/VARIETY IN UNIFORM GROUP UVII, 1994.

EAST COAST				
STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	KINSTON	MEAN
	SC	NC	NC†	
STONEWALL	108.4	116.5	142.7	112.8
HASKELL	89.9	109.8	68.6	100.4
AU89-2363	104.8	83.1	140.0	93.9
G88-3266	114.1	109.2	109.2	111.8
G89-9111	110.9	93.9	90.3	102.4
SC88-2872	95.6	106.3	130.8	101.2
SC89-328	92.4	88.0	105.9	90.4
SC89-1093	92.2	105.5	71.9	99.4
AU90-519	99.8	80.8	71.9	90.0
N90-845	101.1	107.8	63.2	104.7
N90-1072	97.7	102.7	72.4	100.4
N91-404	92.6	100.2	66.5	96.7
N91-639	97.5	98.4	82.2	98.2
SC90-80	101.3	86.5	113.0	93.7
SC90-831	101.9	107.8	172.4	105.3
MEAN (bu/ac)	47.6	51.0	18.5	49.2

SOUTHEAST								
STRAIN/ VARIETY	BATON ROUGE	BLACK- VILLE	FAIR- HOPE	JAY†	QUINCY†	TALLA- SSEE	TIFTON	MEAN
	LA	SC(A)	AL	FL	FL	AL	GA	
STONEWALL	113.0	82.5	104.9	56.9	138.2	98.9	89.7	97.1
HASKELL	128.2	109.6	103.6	71.5	147.8	101.8	109.7	110.3
AU89-2363	113.9	98.3	99.6	74.8	101.9	93.5	93.7	99.0
G88-3266	121.7	108.6	100.9	71.5	114.6	109.0	106.0	109.1
G89-9111	101.3	97.5	101.6	70.3	92.4	87.3	95.9	96.5
SC88-2872	49.7	93.5	100.9	10.6	76.4	97.6	96.4	89.0
SC89-328	91.5	98.7	94.2	66.7	99.4	103.1	107.6	100.0
SC89-1093	68.5	107.9	101.6	13.0	80.9	94.0	103.8	96.1
AU90-519	115.4	107.7	90.2	22.0	117.2	109.8	98.2	104.1
N90-845	98.0	100.2	92.8	13.0	48.4	101.8	108.2	101.0
N90-1072	81.7	99.8	97.5	68.3	88.5	102.5	95.0	95.7
N91-404	105.6	97.7	111.0	37.4	83.4	101.3	99.2	102.7
N91-639	107.8	98.7	97.5	89.4	89.8	96.4	102.7	100.8
SC90-80	102.2	102.3	98.9	89.4	112.7	102.5	98.0	100.8
SC90-831	93.5	97.7	105.6	13.0	104.5	100.7	95.9	98.6
MEAN (bu/ac)	44.7	47.9	44.7	12.3	15.7	55.3	66.2	51.7

† Not included in mean.



TABLE 58 - (Continued).

UPPER AND CENTRAL SOUTH					
STRAIN/ VARIETY	ATHENS GA	CALHOUN GA	CLEMSON SC	STARK- VILLE MS	MEAN
STONEWALL	84.9	101.3	99.8	99.3	95.9
HASKELL	105.6	96.6	101.5	86.9	98.4
AU89-2363	103.3	107.5	101.8	87.6	100.6
G88-3266	97.3	105.4	103.9	100.2	101.6
G89-9111	107.8	83.9	92.1	97.8	95.7
SC88-2872	100.0	112.7	95.6	97.6	101.2
SC89-328	91.5	99.6	100.6	105.1	98.8
SC89-1093	105.5	92.5	95.2	97.8	98.0
AU90-519	96.5	100.0	100.4	104.1	100.0
N90-845	97.8	97.6	105.7	103.2	101.0
N90-1072	105.1	98.3	109.4	109.0	105.5
N91-404	108.4	100.4	105.4	91.7	102.2
N91-639	97.3	101.5	87.4	92.5	94.5
SC90-80	102.7	100.2	100.9	115.3	104.1
SC90-831	97.3	106.5	100.7	111.9	103.5
MEAN (bu/ac)	55.0	46.5	54.1	41.1	49.2

DELTA AND WEST					
STRAIN/ VARIETY	BEAUMONT TX	BOSSIER† CITY LA	ST. JOSEPH LA	STONE- VILLE MS(B)	MEAN
STONEWALL	112.9	71.3	102.0	90.1	101.7
HASKELL	138.8	94.3	114.8	102.9	118.7
AU89-2363	124.8	67.0	92.4	97.3	104.0
G88-3266	96.2	91.3	88.0	87.2	90.5
G89-9111	78.2	93.3	95.4	100.8	91.8
SC88-2872	77.9	114.0	97.4	91.4	89.5
SC89-328	100.3	88.0	105.7	88.2	98.8
SC89-1093	82.5	109.0	106.5	111.0	100.5
AU90-519	112.4	106.7	97.6	90.1	100.0
N90-845	103.0	148.0	107.8	100.3	104.0
N90-1072	104.3	146.0	102.4	111.5	106.0
N91-404	80.3	79.3	87.6	102.4	90.0
N91-639	102.2	105.3	95.0	107.0	101.0
SC90-80	95.1	97.3	107.2	104.5	102.7
SC90-831	90.3	86.3	101.5	115.0	102.2
MEAN (bu/ac)	37.1	30.0	45.9	37.4	40.1

† Not included in mean.

TABLE 59 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	BLACK- VILLE SC(A)	CAL- HOUN GA	CLEM- SON SC	FAIR- HOPE AL	FLOR- ENCE SC	JACKSON SPRINGS NC	JAY† FL
OIL PERCENTAGE									
STONEWALL	20.4	21.3	20.7	20.6	20.6	20.4	20.7	20.6	21.0
HASKELL	19.9	21.4	20.7	20.7	19.5	20.4	20.1	19.7	20.4
AU89-2363	20.3	21.5	21.0	20.7	20.6	20.2	21.0	20.0	21.4
G88-3266	20.7	20.7	21.1	20.9	20.6	20.0	20.2	20.3	21.5
G89-9111	21.2	20.1	21.3	20.8	20.5	21.0	21.0	20.4	21.4
SC88-2872	20.2	20.6	20.6	20.1	20.0	20.0	20.4	19.5	21.1
SC89-328	19.9	20.3	20.2	19.7	19.6	20.0	19.9	19.7	21.3
SC89-1093	20.2	20.4	21.0	20.2	19.5	20.2	20.4	20.0	21.1
AU90-519	20.5	21.6	20.5	19.8	20.0	20.4	20.3	19.8	21.4
N90-845	20.1	20.5	20.5	20.2	19.8	18.9	20.8	19.7	20.9
N90-1072	19.6	20.4	19.9	19.8	18.9	19.0	19.6	18.9	19.2
N91-404	22.5	20.7	20.7	20.8	20.1	21.0	20.5	18.6	21.2
N91-639	20.4	20.7	20.2	20.5	20.3	20.3	20.4	20.0	20.9
SC90-80	20.1	20.6	20.5	20.3	20.4	19.6	20.8	19.8	20.8
SC90-831	21.0	21.3	21.4	20.3	21.0	21.5	21.2	20.9	21.6
PROTEIN PERCENTAGE									
STONEWALL	43.1	45.4	42.5	43.6	42.3	45.7	43.5	41.3	42.1
HASKELL	41.0	43.4	40.7	41.6	41.5	46.0	40.7	42.0	41.6
AU89-2363	42.4	45.5	42.7	41.8	42.4	46.0	43.4	43.1	41.3
G88-3266	41.4	46.5	40.3	41.3	41.7	46.5	41.2	42.4	39.6
G89-9111	41.0	44.3	39.9	41.3	41.1	44.3	41.6	41.4	42.2
SC88-2872	41.9	45.8	41.6	41.1	42.3	48.1	41.4	42.3	41.2
SC89-328	42.2	47.1	41.4	42.0	42.3	45.9	41.4	42.2	41.5
SC89-1093	43.3	46.5	40.6	42.6	42.8	47.3	42.9	43.7	39.5
AU90-519	41.5	44.3	41.1	41.9	41.7	44.5	42.9	42.5	40.3
N90-845	42.7	46.3	41.2	42.6	42.9	49.7	41.8	45.2	40.8
N90-1072	44.0	46.2	42.0	43.6	43.4	49.6	43.6	45.1	41.7
N91-404	40.9	46.7	42.4	41.0	43.5	46.4	42.3	43.7	41.4
N91-639	41.6	45.4	40.7	41.9	41.8	45.3	42.3	42.2	40.8
SC90-80	44.4	47.0	43.4	42.8	43.6	48.9	42.9	44.4	42.9
SC90-831	40.0	46.9	40.7	41.9	40.3	43.5	40.8	41.5	41.3
GRAMS PER 100 SEED									
STONEWALL	18.1	14.5	17.4	20.9	17.2	17.6	18.3	15.9	15.1
HASKELL	16.7	13.6	15.6	21.3	15.0	15.1	16.1	15.5	16.4
AU89-2363	16.8	12.2	15.6	19.0	15.7	15.1	15.8	15.2	15.7
G88-3266	15.4	12.9	13.7	18.9	15.4	13.3	15.2	13.7	14.2
G89-9111	15.0	11.0	13.9	17.6	13.7	13.0	14.3	12.3	12.5
SC88-2872	15.1	11.1	15.1	17.2	16.1	13.6	14.2	12.7	13.0
SC89-328	13.9	11.7	13.8	14.8	13.4	13.8	13.8	13.6	13.4
SC89-1093	17.6	13.4	16.0	19.9	15.2	13.4	14.8	15.7	13.7
AU90-519	15.4	12.9	15.1	17.1	14.4	11.7	15.6	14.5	13.4
N90-845	13.6	13.8	15.3	15.8	12.4	11.5	13.6	13.6	11.8
N90-1072	13.8	10.1	12.9	15.8	12.4	12.6	12.9	12.8	10.0
N91-404	21.8	14.5	18.6	26.2	20.6	16.8	18.1	18.8	16.8
N91-639	14.5	11.6	13.6	15.7	12.9	12.6	13.0	13.2	13.4
SC90-80	16.9	14.4	12.4	20.0	16.5	15.6	15.6	14.3	12.4
SC90-831	16.2	11.7	17.0	18.1	15.8	14.6	16.5	14.2	14.0

† Not included in mean.

TABLE 59 - (Continued).

STRAIN/ VARIETY	KINSTON NC†	ST. JOSEPH LA	STARK- VILLE MS	STONE- VILLE MS(B)	TALLA- SSEE AL	TIFTON GA	MEAN
OIL PERCENTAGE							
STONEWALL	20.3	20.6	19.9	19.8	20.7	21.5	20.6
HASKELL	19.7	20.5	20.1	20.4	20.1	20.6	20.3
AU89-2363	20.3	20.4	19.7	20.4	20.1	21.1	20.5
G88-3266	19.8	20.6	20.0	20.4	20.7	20.8	20.5
G89-9111	20.2	20.9	20.9	21.1	21.3	21.5	20.9
SC88-2872	18.8	20.4	20.0	20.2	19.5	20.8	20.2
SC89-328	19.3	19.8	20.3	19.3	19.8	20.8	19.9
SC89-1093	19.5	2.4	20.3	20.8	20.6	20.8	19.0
AU90-519	20.0	20.5	20.0	20.7	19.9	21.0	20.4
N90-845	19.6	20.8	20.0	20.2	20.0	20.4	20.1
N90-1072	18.1	19.8	19.3	19.8	19.0	20.3	19.6
N91-404	19.2	20.6	20.6	20.1	20.0	20.7	20.5
N91-639	20.0	20.0	20.0	20.5	19.5	20.2	20.2
SC90-80	20.0	20.7	19.9	20.2	19.8	20.2	20.2
SC90-831	20.3	21.1	20.9	21.3	21.3	21.6	21.1
PROTEIN PERCENTAGE							
STONEWALL	43.5	43.3	45.8	44.3	44.2	42.5	43.7
HASKELL	41.3	41.9	42.6	41.1	42.9	42.0	42.1
AU89-2363	42.2	43.6	44.9	43.3	45.9	42.7	43.7
G88-3266	43.3	42.4	43.6	42.6	43.9	41.0	42.7
G89-9111	41.7	41.8	41.9	41.8	42.7	41.0	41.9
SC88-2872	42.5	42.3	42.8	41.5	44.6	42.2	42.9
SC89-328	43.1	42.5	43.4	42.9	43.2	42.0	43.0
SC89-1093	44.6	42.5	44.3	43.1	44.0	41.9	43.5
AU90-519	43.4	43.0	43.9	42.6	42.7	40.6	42.6
N90-845	43.0	42.0	43.2	41.9	43.7	43.4	43.6
N90-1072	45.6	43.4	44.5	43.6	46.7	42.7	44.5
N91-404	43.5	45.2	43.6	44.0	44.4	44.0	43.7
N91-639	42.3	42.0	42.6	40.8	45.1	41.1	42.5
SC90-80	43.8	42.8	44.6	43.0	45.7	45.3	44.5
SC90-831	41.3	42.1	42.3	40.7	40.9	40.1	41.7
GRAMS PER 100 SEED							
STONEWALL	15.9	13.9	16.4	.	18.7	22.5	17.6
HASKELL	13.5	14.1	15.6	.	17.3	20.2	16.3
AU89-2363	14.8	11.7	14.8	.	17.0	18.6	15.6
G88-3266	15.2	11.7	13.1	.	17.7	18.2	14.9
G89-9111	12.9	11.9	11.8	.	16.4	19.2	14.2
SC88-2872	13.5	12.3	11.8	.	15.0	18.0	14.4
SC89-328	12.6	11.8	12.0	.	14.6	16.2	13.6
SC89-1093	14.2	13.2	13.3	.	17.2	19.1	15.7
AU90-519	13.8	12.8	14.1	.	14.9	14.9	14.4
N90-845	10.9	10.9	11.3	.	15.0	16.2	13.6
N90-1072	10.8	11.4	12.1	.	14.9	17.1	13.2
N91-404	17.3	14.8	17.3	.	20.2	24.2	19.3
N91-639	11.9	12.3	11.4	.	14.0	15.5	13.4
SC90-80	14.4	13.6	13.3	.	16.7	19.6	15.7
SC90-831	14.9	14.0	16.2	.	15.8	18.1	15.7

† Not included in mean.

TABLE 60 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN STONEWALL FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1994.

EAST COAST				
STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	KINSTON	MEAN
	SC	NC	NC†	
STONEWALL	10/25	10/28	10/28	10/27
HASKELL	1	3	-3	2
AU89-2363	2	3	1	2
G88-3266	2	0	2	0
G89-9111	3	2	0	2
SC88-2872	-1	2	0	0
SC89-328	0	0	2	0
SC89-1093	-1	0	-4	-1
AU90-519	3	3	1	3
N90-845	3	3	-2	3
N90-1072	3	2	-1	2
N91-404	1	0	-2	0
N91-639	-1	0	-2	-1
SC90-80	1	0	-1	0
SC90-831	1	0	1	0

SOUTHEAST						
STRAIN/ VARIETY	BLACK- VILLE	FAIR- HOPE	JAY†	TALLA- SSEE	TIFTON	MEAN
	SC(A)	AL	FL	AL	GA	
STONEWALL	10/17	09/30	10/24	10/22	10/09	10/12
HASKELL	2	8	7	4	6	5
AU89-2363	4	6	5	3	7	5
G88-3266	2	7	0	2	5	4
G89-9111	3	7	2	3	6	5
SC88-2872	2	7	0	3	2	4
SC89-328	4	3	0	4	2	3
SC89-1093	2	2	-1	-1	0	1
AU90-519	3	3	1	4	5	4
N90-845	4	8	1	5	11	7
N90-1072	2	5	-1	6	7	5
N91-404	3	5	0	2	1	3
N91-639	3	0	2	0	2	1
SC90-80	2	3	1	4	6	4
SC90-831	2	5	2	2	3	3

† Not included in mean.

TABLE 60 - (Continued).

UPPER AND CENTRAL SOUTH					
STRAIN/ VARIETY	ATHENS	CALHOUN	CLEMSON	STARKVILLE	MEAN
	GA	GA	SC	MS	
STONEWALL	10/15	10/19	10/16	10/16	10/17
HASKELL	3	2	6	-4	1
AU89-2363	4	7	6	4	5
G88-3266	0	2	6	1	2
G89-9111	4	-1	7	0	2
SC88-2872	-4	4	5	-2	0
SC89-328	-4	2	5	-2	0
SC89-1093	-2	2	5	0	1
AU90-519	4	2	6	1	3
N90-845	3	4	6	-1	2
N90-1072	3	5	6	-2	3
N91-404	-3	4	5	0	1
N91-639	-3	2	5	-5	-1
SC90-80	-3	5	6	-5	0
SC90-831	4	7	6	-1	3

DELTA AND WEST				
STRAIN/ VARIETY	BEAUMONT	ST. JOSEPH	STONEVILLE	MEAN
	TX	LA	MS(B)	
STONEWALL	10/09	10/09	10/20	10/13
HASKELL	9	0	0	3
AU89-2363	7	7	0	4
G88-3266	5	3	0	2
G89-9111	2	3	0	1
SC88-2872	-1	-3	0	-2
SC89-328	-1	-2	0	-1
SC89-1093	5	-4	0	0
AU90-519	6	1	0	2
N90-845	14	4	0	6
N90-1072	4	2	0	2
N91-404	1	4	0	1
N91-639	2	-3	0	-1
SC90-80	0	0	0	0
SC90-831	1	0	0	0

TABLE 61 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1994.

STRAIN/ VARIETY	EAST COAST				MEAN
	FLORENCE	JACKSON SPRINGS	KINSTON†		
	SC	NC	NC		
STONEWALL	41	39	32		40
HASKELL	40	39	31		40
AU89-2363	43	39	35		41
G88-3266	42	39	35		40
G89-9111	40	35	30		38
SC88-2872	41	39	31		40
SC89-328	41	40	36		41
SC89-1093	39	40	27		40
AU90-519	44	42	31		43
N90-845	39	37	25		38
N90-1072	41	36	31		39
N91-404	43	43	31		43
N91-639	42	39	32		41
SC90-80	44	39	35		41
SC90-831	47	46	42		46

STRAIN/ VARIETY	SOUTHEAST					MEAN
	BLACK- VILLE	FAIR- HOPE	JAY†	TALLA- SSEE	TIFTON	
	SC(A)	AL	FL	AL	GA	
STONEWALL	24	36	18	31	22	28
HASKELL	26	37	19	38	29	33
AU89-2363	29	38	18	37	28	33
G88-3266	29	37	19	41	33	35
G89-9111	23	33	18	37	31	31
SC88-2872	24	34	18	40	24	30
SC89-328	27	37	20	38	33	34
SC89-1093	28	31	20	38	19	29
AU90-519	27	36	20	35	28	32
N90-845	22	30	18	31	20	26
N90-1072	19	33	17	34	18	26
N91-404	23	37	22	36	25	30
N91-639	28	34	20	37	25	31
SC90-80	26	36	23	39	27	32
SC90-831	27	45	22	38	36	36

† Not included in mean.

TABLE 61 - (Continued).

UPPER AND CENTRAL SOUTH					
STRAIN/ VARIETY	ATHENS GA	CALHOUN GA	CLEMSON SC	STARKVILLE MS	MEAN
STONEWALL	40	38	42	35	39
HASKELL	49	39	40	37	41
AU89-2363	44	41	44	35	41
G88-3266	46	45	46	38	44
G89-9111	45	42	44	33	41
SC88-2872	44	38	43	35	40
SC89-328	43	39	43	33	40
SC89-1093	45	43	43	33	41
AU90-519	47	43	41	36	42
N90-845	38	37	38	31	36
N90-1072	38	39	38	31	36
N91-404	47	44	44	36	43
N91-639	40	40	41	35	39
SC90-80	45	40	42	37	41
SC90-831	52	48	51	39	47

DELTA AND WEST					
STRAIN/ VARIETY	BEAUMONT TX	BOSSIER <sup>†</sup>		STONEVILLE MS(B)	MEAN
		CITY LA	ST. JOSEPH LA		
STONEWALL	28	37	28	37	31
HASKELL	30	38	30	39	33
AU89-2363	28	38	31	37	32
G88-3266	27	38	27	37	31
G89-9111	27	40	27	37	30
SC88-2872	27	40	27	35	30
SC89-328	29	38	33	37	33
SC89-1093	25	40	27	37	30
AU90-519	27	37	29	40	32
N90-845	24	36	25	35	28
N90-1072	27	36	23	36	29
N91-404	26	38	24	39	30
N91-639	28	38	24	37	29
SC90-80	28	42	29	39	32
SC90-831	30	47	32	41	34

<sup>†</sup> Not included in mean.

TABLE 62 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1994.

EAST COAST				
STRAIN/VARIETY	FLORENCE	JACKSON SPRINGS	KINSTON†	MEAN
	NC	NC	NC	
STONEWALL	2.7	2.3	2.0	2.5
HASKELL	3.0	3.0	2.0	3.0
AU89-2363	3.0	2.3	2.0	2.7
G88-3266	2.3	2.0	2.0	2.2
G89-9111	2.7	2.3	2.0	2.5
SC88-2872	2.7	2.3	2.0	2.5
SC89-328	2.0	2.7	2.0	2.3
SC89-1093	2.0	2.3	2.0	2.2
AU90-519	2.0	2.3	2.0	2.2
N90-845	3.0	3.0	2.0	3.0
N90-1072	3.0	3.0	2.0	3.0
N91-404	2.3	2.3	2.0	2.3
N91-639	2.3	2.7	2.0	2.5
SC90-80	3.0	3.0	2.0	3.0
SC90-831	2.3	2.3	2.0	2.3

SOUTHEAST					
STRAIN/VARIETY	FAIRHOPE	JAY†	TALLASSEE	TIFTON	MEAN
	AL	FL	AL	GA	
STONEWALL	1.0	1.0	1.0	1.0	1.0
HASKELL	1.0	1.0	2.7	1.7	1.8
AU89-2363	1.0	1.0	2.5	1.0	1.5
G88-3266	1.3	1.0	1.7	1.0	1.3
G89-9111	1.0	1.0	2.2	1.0	1.4
SC88-2872	1.0	1.0	2.0	1.0	1.3
SC89-328	2.0	1.0	1.8	1.7	1.8
SC89-1093	1.0	1.0	1.5	1.0	1.2
AU90-519	1.0	1.0	1.2	1.0	1.1
N90-845	1.0	1.0	1.2	1.0	1.1
N90-1072	1.0	1.0	1.2	1.0	1.1
N91-404	1.0	1.0	1.5	1.0	1.2
N91-639	2.0	1.0	2.0	1.0	1.7
SC90-80	1.3	1.0	1.5	1.0	1.3
SC90-831	1.7	1.0	1.3	1.3	1.4

† Not included in mean.



TABLE 62 - (Continued).

UPPER AND CENTRAL SOUTH					
STRAIN/VARIETY	ATHENS	CALHOUN	CLEMSON	STARKVILLE	MEAN
	GA	GA	SC	MS	
STONEWALL	3.1	4.0	2.0	2.7	2.9
HASKELL	4.3	3.8	3.7	3.0	3.7
AU89-2363	3.0	2.8	2.7	2.3	2.7
G88-3266	2.8	3.3	2.7	2.3	2.8
G89-9111	3.7	3.5	3.0	1.7	3.0
SC88-2872	2.8	3.5	2.0	2.0	2.6
SC89-328	3.7	4.0	3.3	3.3	3.6
SC89-1093	2.5	3.5	2.0	1.7	2.4
AU90-519	2.2	2.2	2.0	2.0	2.1
N90-845	3.5	3.2	2.7	2.0	2.8
N90-1072	3.6	3.3	2.7	2.0	2.9
N91-404	2.6	2.7	2.0	3.3	2.7
N91-639	3.4	3.8	3.3	2.3	3.2
SC90-80	3.8	3.5	3.0	2.7	3.2
SC90-831	2.4	3.0	2.0	2.3	2.4

DELTA AND WEST					
STRAIN/VARIETY	BEAUMONT	BOSSIER CITY†	ST. JOSEPH	STONEVILLE	MEAN
	TX	LA	LA	MS(B)	
STONEWALL	1.0	1.0	1.5	2.0	1.5
HASKELL	1.0	1.3	1.9	2.0	1.6
AU89-2363	1.0	1.7	1.6	2.0	1.5
G88-3266	1.0	1.3	1.4	2.0	1.5
G89-9111	1.0	1.7	1.5	2.0	1.5
SC88-2872	1.0	1.0	1.5	2.0	1.5
SC89-328	1.0	1.0	1.6	2.0	1.5
SC89-1093	1.0	1.0	1.5	2.0	1.5
AU90-519	1.0	1.0	1.5	2.0	1.5
N90-845	1.0	1.3	1.4	2.0	1.5
N90-1072	1.0	1.3	1.5	2.0	1.5
N91-404	1.0	1.0	1.5	2.0	1.5
N91-639	1.0	1.3	1.5	2.0	1.5
SC90-80	1.0	1.0	1.6	2.0	1.5
SC90-831	1.0	1.0	1.5	2.0	1.5

† Not included in mean.

TABLE 63 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1994.

EAST COAST				
STRAIN/VARIETY	JACKSON SPRINGS		KINSTON†	MEAN
	NC		NC	
STONEWALL	2.0		2.0	2.0
HASKELL	2.0		2.0	2.0
AU89-2363	2.0		2.0	2.0
G88-3266	2.0		2.0	2.0
G89-9111	2.0		2.0	2.0
SC88-2872	2.0		2.0	2.0
SC89-328	2.0		2.0	2.0
SC89-1093	2.0		2.0	2.0
AU90-519	2.0		2.0	2.0
N90-845	2.0		2.0	2.0
N90-1072	2.0		2.0	2.0
N91-404	2.0		2.0	2.0
N91-639	2.0		2.0	2.0
SC90-80	2.0		2.0	2.0
SC90-831	2.0		2.0	2.0

SOUTHEAST					
STRAIN/VARIETY	FAIRHOPE	JAY†	TALLASSEE	TIFTON	MEAN
	AL	FL	AL	GA	
STONEWALL	2.0	3.0	1.0	1.6	1.5
HASKELL	1.5	2.0	1.0	1.7	1.4
AU89-2363	1.0	3.0	1.0	1.2	1.1
G88-3266	2.5	3.0	2.0	1.2	1.9
G89-9111	1.0	3.0	1.0	1.5	1.2
SC88-2872	1.0	2.0	1.0	1.2	1.1
SC89-328	1.0	3.0	1.0	1.2	1.1
SC89-1093	1.0	3.0	1.0	1.3	1.1
AU90-519	1.5	3.0	1.0	1.5	1.3
N90-845	3.0	3.0	1.0	1.3	1.8
N90-1072	1.5	4.0	1.5	1.3	1.4
N91-404	3.0	2.0	2.0	1.7	2.2
N91-639	1.5	2.0	1.0	1.3	1.3
SC90-80	2.0	3.0	1.5	1.8	1.8
SC90-831	1.5	3.0	1.0	1.2	1.2

† Not included in mean.

TABLE 63 - (Continued).

UPPER AND CENTRAL SOUTH				
STRAIN/VARIETY	ATHENS	CALHOUN	STARKVILLE	MEAN
	GA	GA	MS	
STONEWALL	1.7	2.0	2.0	1.9
HASKELL	1.5	1.8	1.0	1.4
AU89-2363	1.5	2.0	2.0	1.8
G88-3266	1.5	1.8	1.0	1.4
G89-9111	1.5	1.0	2.0	1.5
SC88-2872	1.5	2.0	1.0	1.5
SC89-328	1.5	1.5	2.0	1.7
SC89-1093	1.7	2.0	2.0	1.9
AU90-519	1.5	1.7	1.0	1.4
N90-845	1.5	2.2	2.0	1.9
N90-1072	1.5	2.0	2.0	1.8
N91-404	1.8	2.0	1.0	1.6
N91-639	1.5	1.5	2.0	1.7
SC90-80	1.5	1.0	2.0	1.5
SC90-831	1.5	2.0	2.0	1.8

DELTA AND WEST					
STRAIN/VARIETY	BEAUMONT	BOSSIER CITY†	ST. JOSEPH	STONEVILLE	MEAN
	TX	LA	LA	MS(B)	
STONEWALL	1.5	3.7	2.4	2.0	2.0
HASKELL	2.2	3.0	2.7	2.0	2.3
AU89-2363	1.5	4.3	2.9	2.3	2.2
G88-3266	1.7	3.0	2.6	2.0	2.1
G89-9111	1.2	2.3	2.4	2.0	1.9
SC88-2872	1.3	3.0	2.0	2.0	1.8
SC89-328	1.3	2.7	2.1	2.0	1.8
SC89-1093	1.7	3.0	1.9	2.0	1.9
AU90-519	1.5	3.3	2.6	2.0	2.0
N90-845	2.2	2.0	1.9	2.0	2.0
N90-1072	1.3	2.0	2.0	2.0	1.8
N91-404	2.0	3.0	2.2	2.0	2.1
N91-639	1.0	3.3	1.6	2.0	1.5
SC90-80	1.7	4.0	1.8	2.0	1.8
SC90-831	1.8	3.3	1.9	2.0	1.9

† Not included in mean.

**PRELIMINARY GROUP VII****1994**

Preliminary Group VII nurseries were planted at 7 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 64. Table 65 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 66 - 72.

The cultivar Stonewall is the yield and maturity check. It had a mean yield of 44.8 bushels per acre and a mean maturity of October 20 at the 7 locations.

TABLE 64 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 1994.

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. STONEWALL	N73-693 X F76-8757	F6
2. HASKELL	JOHNSTON X BRAXTON	F5
3. CENTENNIAL	D66-4636 X D68-8847	F5
4. BRAXTON	F59-1501 X (BRAGG(3) X D60-7965)	F5
5. AU91-788	G83-198 X AU89-589	F6
6. AU91-1074	G83-198 X AU89-589	F6
7. AU91-1387	AU82-211 X AU82-589	F6
8. AU91-1398	AU82-211 X AU82-589	F6
9. AU91-1699	AU82-211 X AU82-589	F6
10. AU91-2104	COOK X AU84-1855	F6
11. D91-4759	EPPS X SHARKEY	F5
12. D91-4789	EPPS X SHARKEY	F5
13. D92-2591	D67-4793(2) X PI 406607	F5
14. D91-6201	SHARKEY X CROCKETT	F5
15. F91-1542	A3127 X F87-4039	F5
16. F91-1895	PI417479 X F87-4039	F5
17. F91-3578	F85-1108 X F85-7356	F6
18. F92-1519	PI417479 X F85-1138	F7
19. G90-1587	COKER 82-622 X HOWARD	F6
20. G90-1669	COKER 82-622 X HOWARD	F6
21. G90-2243	COKER 82-622 X G81-1949	F6
22. G90-3258	STONEWALL X BRYAN	F6
23. G90-3262	STONEWALL X BRYAN	F6
24. G91-5245	LAMAR X COKER 6738	F6
25. N92-610	N85-492 X PI438302B	F6
26. N92-705	N85-574 X PI471938	F6
27. N92-715	N85-574 X PI471938	F6
28. N92-727	AU82-211 X N85-578	F6
29. N90-7199	N77-114 X PI 416937	F4
30. N90-7202	N77-114 X PI 416937	F4
31. N91-6117	GASOY 17 X FC31732	F4
32. NTCPR92-100	VANCE X JIZUKA	F4
33. NTCPR92-115	VANCE X JIZUKA	F4
34. NTCEBH91-42	VANCE X NC 112	F4
35. SC91-483	HUTCHESON X THOMAS	F5
36. SC91-1767	COKER 6847 X STONEWALL	F5
37. SC91-1791	COKER 6847 X STONEWALL	F5
38. SC91-1907	NK'S S83-30 X HUTCHESON	F5
39. SC91-2410	NK'S S83-30 X HOWARD	F5
40. TSB92-1181	D82-10143 X THOMAS	F5
41. TSB92-1316	AU82-211 X THOMAS	F5
42. TSB92-1382	D82-10143 X R83-44S	F5
43. TSB92-3453	SHARKEY X S82-1338	F5
44. TSB92-3784	D82-10143 X COLQUITT	F5
45. TSB92-3917	AU82-211 X BRAXTON	F5

TABLE 65 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 1994.

STRAIN/ VARIETY	SEED YIELD†	MAT. INDEX	HT.	OIL	PROTEIN	SEED SIZE	LODG- ING	SEED QTY.
STONEWALL	44.8	10/19	37	20.5	44.6	15.2	2.6	1.6
HASKELL	48.3	2+	38	20.1	42.8-	15.5	2.4	1.7
CENTENNIAL	43.7	4-	36	20.0	45.3	14.8	2.2	1.6
BRAXTON	43.8	3+	40	19.8	44.0	15.5	2.4	1.8
AU91-788	48.6	2+	38	20.3	43.2-	9.2	2.5	1.6
AU91-1074	41.2	3+	35	20.5	41.8-	11.4	2.1	1.6
AU91-1387	40.6	3+	39	20.3	45.2	15.7	2.5	1.7
AU91-1398	43.2	0	36	20.4	44.7	13.2	1.7	1.7
AU91-1699	41.7	2+	37	20.8	42.4-	13.7	2.6	1.7
AU91-2104	44.6	4+	39	20.3	42.6-	13.0	2.3	1.7
D91-4759	47.8	2+	36	19.8	45.5	13.5	2.6	1.7
D91-4789	45.3	0	41	19.8	45.0	13.6	2.8	1.6
D92-2591	41.1	2-	35	18.2-	50.8+	10.6	2.2	1.6
D91-6201	43.2	4+	41	19.2	45.2	14.7	2.7	1.7
F91-1542	36.7-	1-	34	20.1	42.4-	11.1	2.3	1.7
F91-1895	35.3-	2-	35	18.8-	45.0	16.1	2.3	1.9
F91-3578	37.9	1+	38	16.0-	42.6-	11.5	3.0	1.9
F92-1519	42.4	1+	35	19.6	41.7-	10.9	3.1	1.7
G90-1587	44.6	0	35	20.0	44.3	13.1	1.8	1.6
G90-1669	46.8	3+	38	20.0	43.4-	12.3	2.3	1.7
G90-2243	42.7	5+	38	20.7	41.8-	14.0	2.8	1.6
G90-3258	48.4	0	33	20.6	42.7-	14.9	1.6	1.7
G90-3262	42.2	0	38	20.0	43.8	10.4	2.3	1.6
G91-5245	43.9	2+	36	20.5	44.0	14.4	2.0	1.6
N92-610	44.3	5+	34	20.6	41.9-	18.8	2.0	2.4
N92-705	41.7	3-	36	20.8	42.6-	18.2	1.9	1.9
N92-715	40.5	3+	35	21.7	41.8-	13.7	3.1	1.7
N92-727	47.4	3+	39	20.6	43.0-	18.2	1.8	2.0
N90-7199	49.1	2+	32	20.4	42.1-	13.7	2.2	1.8
N90-7202	42.5	5+	37	20.4	43.4	13.1	2.6	1.7
N91-6117	42.3	5+	42	19.5	42.9-	16.0	2.9	1.7
NTCPR92-100	31.1-	3+	35	17.8-	47.1+	7.7	2.4	1.7
NTCPR92-115	37.6-	2-	30	18.1-	47.4+	8.0	2.5	1.5
NTCEBH91-42	39.4	4-	33	17.9-	50.5+	8.5	3.3	1.5
SC91-483	45.5	1+	41	20.2	44.1	15.5	1.8	1.7
SC91-1767	44.7	0	40	21.0	43.2-	14.2	2.5	1.7
SC91-1791	50.0	1-	40	21.0	45.5	15.0	2.3	1.7
SC91-1907	45.5	1+	39	21.0	42.4-	12.8	1.8	1.6
SC91-2410	46.0	2+	38	20.3	42.8-	13.4	2.3	1.6
TSB92-1181	42.1	4+	39	19.9	43.8	14.4	2.2	1.6
TSB92-1316	41.9	3+	38	20.2	42.3-	14.0	2.7	1.6
TSB92-1382	40.6	3+	40	18.5-	44.7	12.0	3.4	1.7
TSB92-3453	43.6	4+	42	19.8	45.3	13.4	2.6	1.6
TSB92-3784	38.0	3+	35	18.3-	45.4	10.1	1.8	1.6
TSB92-3917	41.3	6+	40	20.4	44.2	15.4	2.2	1.8
Overall Mean	43.0			19.9	44.0			
L.S.D. (0.05)	7.0			1.5	1.2			
C.V. (%)	12.9			6.2	2.0			

† Data from Blackville, SC (A) and Jay, FL not included in mean.

TABLE 65 - (Continued).

STRAIN/ VARIETY	M.a.	M.i.	SCN	SCN	STEM	STEM
	TN	TN	3	14	CANKER MS	CANKER TX
STONEWALL	3.4	1.0	1.3	3.0	2.0	1.0
HASKELL	1.0	1.0	5.0	4.0	1.0	0.0
CENTENNIAL	1.0	1.0	1.4	3.7	4.0	2.0
BRAXTON	1.0	1.0	5.0	4.0	1.0	1.0
AU91-788	3.0	1.0	1.4	4.0	4.0	2.0
AU91-1074	1.0	1.0	1.4	3.0	3.6	1.0
AU91-1387	1.3	1.0	4.7	4.4	2.4	0.0
AU91-1398	1.1	1.0	2.2	3.1	3.4	0.0
AU91-1699	1.0	1.0	1.2	4.0	1.0	0.0
AU91-2104	2.0	1.0	5.0	4.0	5.0	3.0
D91-4759	3.3	1.0	1.1	1.1	1.0	0.0
D91-4789	3.7	1.3	1.0	1.0	2.0	0.0
D92-2591	2.0	1.0	5.0	3.0	1.0	0.0
D91-6201	3.0	1.0	4.3	4.0	1.0	0.0
F91-1542	1.4	1.0	4.0	5.0	1.2	0.0
F91-1895	2.3	1.0	4.0	4.0	3.3	0.0
F91-3578	1.1	1.0	1.0	4.3	4.0	6.0
F92-1519	2.0	1.0	5.0	4.4	1.1	0.0
G90-1587	1.0	1.0	1.0	1.2	2.0	0.0
G90-1669	1.3	1.0	1.0	1.2	4.0	2.0
G90-2243	1.2	1.0	1.0	4.3	3.4	0.0
G90-3258	1.0	1.0	1.0	5.0	4.0	1.0
G90-3262	1.0	1.0	1.3	4.4	3.4	1.0
G91-5245	1.3	1.0	1.1	5.0	1.3	0.0
N92-610	3.1	1.0	4.0	4.3	4.4	2.0
N92-705	4.0	2.0	4.3	5.0	5.0	5.0
N92-715	3.0	1.0	3.4	4.3	---	2.0
N92-727	4.0	1.3	4.2	5.0	4.0	0.0
N90-7199	4.0	1.0	5.0	5.0	3.0	0.0
N90-7202	3.0	2.0	5.0	5.0	2.3	1.0
N91-6117	3.4	1.1	4.3	5.0	1.0	1.0
NTCPR92-100	4.0	1.4	5.0	5.0	3.4	2.0
NTCPR92-115	4.3	1.3	4.3	4.3	4.0	0.0
NTCEBH91-42	3.7	2.0	3.7	3.0	4.0	4.0
SC91-483	2.3	1.0	4.3	3.4	1.0	0.0
SC91-1767	2.2	1.0	2.0	5.0	1.0	0.0
SC91-1791	4.0	1.0	1.3	4.3	1.4	0.0
SC91-1907	1.1	1.0	5.0	5.0	1.0	0.0
SC91-2410	1.0	1.0	1.1	2.0	1.0	0.0
TSB92-1181	2.1	1.0	4.4	4.0	1.1	0.0
TSB92-1316	2.3	2.0	1.0	4.3	3.0	1.0
TSB92-1382	1.0	1.0	4.4	4.0	2.0	0.0
TSB92-3453	4.0	2.4	1.0	4.1	1.0	0.0
TSB92-3784	2.0	1.0	5.0	5.0	1.0	0.0
TSB92-3917	1.0	1.0	5.0	5.0	1.0	0.0

TABLE 66 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	BLACK- VILLE SC(A)†	JACKSON SPRINGS NC	JAY FL†	STONE- VILLE MS(B)	TALLA- SSEE AL	MEAN
STONEWALL	41.6	36.2	45.4	45.7	24.2	42.8	57.5	44.8
HASKELL	54.4+	35.7	45.5	59.3+	23.7	43.8	48.5	48.3
CENTENNIAL	48.8	36.8	44.6	44.6	24.8	33.5-	55.0	43.7
BRAXTON	32.5-	33.7	38.3	52.3	28.1	43.0	57.5	43.8
AU91-788	50.1	42.7	51.3	51.5	23.7	41.0	57.5	48.6
AU91-1074	37.2	39.1	50.1	47.1	28.1	37.8	45.0	41.2
AU91-1387	38.3	38.0	37.1	45.4	24.2	41.7	39.5-	40.6
AU91-1398	50.4+	34.7	38.9	41.8	28.1	42.5	46.5	43.2
AU91-1699	43.5	36.1	49.3	37.1	18.2	42.5	49.5	41.7
AU91-2104	49.0	33.3	57.0	51.2	19.3	42.8	47.0	44.6
D91-4759	53.9+	29.7	34.0	50.2	21.5	47.2	58.0	47.8
D91-4789	54.7+	34.1	33.8	48.1	23.7	40.3	49.5	45.3
D92-2591	37.5	37.3	40.2	42.4	19.8	34.3-	54.0	41.1
D91-6201	40.1	33.9	36.8	49.5	23.7	42.7	50.0	43.2
F91-1542	39.8	28.2	48.4	43.6	29.2	38.1	34.0-	36.7-
F91-1895	35.6	31.2	30.0	--	27.5	35.5-	39.0-	35.3-
F91-3578	41.6	21.4-	30.0	42.5	28.6	36.7	47.5	37.9
F92-1519	48.0	39.4	37.1	50.9	27.5	31.1-	42.5-	42.4
G90-1587	53.5+	27.6	41.3	44.9	27.5	41.8	55.0	44.6
G90-1669	52.5+	29.4	43.3	56.3	30.8	37.6	58.5	46.8
G90-2243	33.6	33.6	35.5	50.5	34.7	44.3	51.5	42.7
G90-3258	59.4+	35.9	39.8	46.1	24.2	44.9	55.5	48.4
G90-3262	45.3	26.5	38.5	49.2	24.8	40.1	50.0	42.2
G91-5245	52.5+	25.8	56.0	50.5	23.7	39.9	51.0	43.9
N92-610	47.4	34.7	47.3	47.0	17.6	42.8	49.5	44.3
N92-705	37.0	26.2	36.9	49.5	18.2	43.9	52.0	41.7
N92-715	34.2	35.0	46.8	44.5	27.5	40.2	48.5	40.5
N92-727	37.9	44.7	33.4	49.8	21.5	41.3	63.0	47.4
N90-7199	43.3	38.6	38.0	53.7	22.0	48.2	61.5	49.1
N90-7202	43.9	37.9	40.4	45.4	24.8	38.9	46.5	42.5
N91-6117	37.7	33.7	51.3	41.1	25.3	39.2	60.0	42.3
NTCPR92-100	23.4-	25.2	45.1	43.4	14.9	21.3-	42.0-	31.1-
NTCPR92-115	39.2	32.8	38.8	44.3	13.2	27.1-	44.5	37.6-
NTCEBH91-42	43.1	35.5	24.5	41.7	17.6	25.9-	51.0	39.4
SC91-483	50.8+	31.6	48.8	54.1	34.1	36.2-	55.0	45.5
SC91-1767	43.0	40.9	52.7	48.4	29.7	47.0	44.0-	44.7
SC91-1791	54.6+	39.8	56.1	50.5	23.1	46.9	58.0	50.0
SC91-1907	45.6	32.7	35.1	46.8	19.3	46.2	56.0	45.5
SC91-2410	54.9+	40.0	50.4	43.6	24.8	41.2	50.5	46.0
TSB92-1181	47.6	40.2	46.3	41.0	28.1	37.7	44.0-	42.1
TSB92-1316	38.0	44.3	41.9	41.7	21.5	39.2	46.5	41.9
TSB92-1382	41.3	35.1	33.0	44.6	25.3	35.5-	46.5	40.6
TSB92-3453	60.1+	30.6	40.1	--	26.4	37.7	46.0	43.6
TSB92-3784	35.9	36.7	29.4	36.2	24.2	40.0	41.0-	38.0
TSB92-3917	56.3+	35.1	41.7	34.9	33.6	40.0	40.0-	41.3
Overall Mean	44.6	34.5	41.8	46.7	24.5	39.6	49.9	43.0
L.S.D. (0.05)	8.6	13.5	21.4	11.4	12.0	6.3	13.4	7.0
C.V. (%)	11.3	19.5	25.5	11.5	24.3	7.9	13.3	12.9

† Not included in mean.



TABLE 67 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	JACKSON SPRINGS NC	JAY FL†	STONE- VILLE MS(B)	TALLA- SSEE AL	MEAN
STONEWALL	20.8	21.0	20.5	21.8	20.2	19.9	20.5
HASKELL	19.9	21.0	19.3	20.9	20.2	20.0	20.1
CENTENNIAL	19.8	19.8	19.8	22.2	19.8	20.7	20.0
BRAXTON	19.6	20.0	19.5	21.4	19.7	20.2	19.8
AU91-788	19.9	20.2	20.1	21.6	20.8	20.6	20.3
AU91-1074	20.5	20.8	19.6	22.1	21.0	20.4	20.5
AU91-1387	19.7	20.3	20.4	21.4	20.6	20.5	20.3
AU91-1398	20.5	20.2	20.4	21.6	20.3	20.8	20.4
AU91-1699	20.3	20.9	19.9	22.4	21.5	21.6	20.8
AU91-2104	20.1	20.4	19.5	21.7	21.0	20.6	20.3
D91-4759	19.6	19.6	19.8	21.6	19.9	20.0	19.8
D91-4789	19.9	19.0	19.4	21.6	20.4	20.3	19.8
D92-2591	18.3	17.6	18.4	19.8	18.2	18.7	18.2
D91-6201	19.6	19.1	18.9	20.6	19.2	19.4	19.2
F91-1542	19.7	20.3	19.4	21.1	20.7	20.4	20.1
F91-1895	18.9	18.8	18.7	18.8	18.8	18.6	18.8
F91-3578	19.2	19.7	18.9	20.5	20.4	19.8	16.0
F92-1519	19.7	20.7	19.0	21.0	19.7	18.9	19.6
G90-1587	20.1	19.5	19.7	21.5	20.2	20.6	20.0
G90-1669	20.2	20.1	19.5	21.8	19.9	20.1	20.0
G90-2243	20.6	20.1	20.5	22.4	20.9	21.5	20.7
G90-3258	21.0	20.5	20.2	22.5	20.3	20.9	20.6
G90-3262	20.5	19.6	19.8	22.0	20.2	20.0	20.0
G91-5245	20.8	19.1	20.5	22.0	20.9	21.0	20.5
N92-610	20.4	20.6	19.7	21.7	21.4	20.7	20.6
N92-705	20.4	21.8	19.8	20.8	21.2	20.9	20.8
N92-715	21.1	21.4	21.6	22.8	22.2	22.0	21.7
N92-727	20.5	20.9	19.8	21.9	21.0	20.9	20.6
N90-7199	20.0	21.2	20.0	21.4	20.0	20.9	20.4
N90-7202	20.5	20.6	19.6	21.3	20.5	20.8	20.4
N91-6117	19.3	19.9	19.1	20.9	19.4	19.7	19.5
NTCPR92-100	17.9	17.2	17.7	18.2	18.4	17.6	17.8
NTCPR92-115	17.5	17.4	18.4	19.0	19.5	17.7	18.1
NTCEBH91-42	17.6	18.4	17.7	18.1	18.1	17.5	17.9
SC91-483	19.7	20.4	20.4	21.2	19.9	20.6	20.2
SC91-1767	20.8	21.2	20.6	22.1	21.0	21.2	21.0
SC91-1791	21.1	20.8	20.8	22.3	21.3	21.1	21.0
SC91-1907	20.9	20.6	20.4	21.9	21.5	21.4	21.0
SC91-2410	20.4	20.4	19.6	21.1	20.3	20.8	20.3
TSB92-1181	19.9	20.1	19.8	20.6	19.9	19.9	19.9
TSB92-1316	19.8	20.5	20.1	21.7	20.5	20.3	20.2
TSB92-1382	18.8	18.0	18.7	20.6	18.3	18.8	18.5
TSB92-3453	19.4	20.4	19.2	21.3	20.0	19.9	19.8
TSB92-3784	19.2	18.0	18.6	19.9	18.4	17.4	18.3
TSB92-3917	20.3	20.5	20.0	21.7	20.4	21.0	20.4

† Not included in mean.

TABLE 68 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	JACKSON SPRINGS NC	JAY FL†	STONE- VILLE MS(B)	TALLA- SSEE AL	MEAN
STONEWALL	43.6	45.3	43.8	42.3	42.9	47.6	44.6
HASKELL	41.1	44.3	42.0	42.1	43.1	43.7	42.8
CENTENNIAL	45.0	47.9	44.2	41.9	44.4	45.0	45.3
BRAXTON	43.3	46.4	43.5	41.2	44.0	42.9	44.0
AU91-788	41.9	46.7	42.5	41.4	41.1	43.8	43.2
AU91-1074	40.4	44.0	41.4	40.0	40.3	43.0	41.8
AU91-1387	44.5	47.6	43.7	43.9	44.7	45.5	45.2
AU91-1398	43.9	47.8	42.6	42.9	44.3	44.7	44.7
AU91-1699	41.7	46.2	41.5	40.0	41.5	41.1	42.4
AU91-2104	41.8	45.9	41.5	39.8	41.3	42.6	42.6
D91-4759	44.4	49.5	43.6	42.1	44.6	45.3	45.5
D91-4789	43.7	48.4	44.1	43.1	44.6	44.1	45.0
D92-2591	50.2	55.4	48.3	47.7	49.8	50.2	50.8
D91-6201	44.5	47.5	43.9	42.7	44.9	45.2	45.2
F91-1542	42.3	46.6	39.2	41.1	41.7	42.2	42.4
F91-1895	44.0	48.8	42.1	43.8	44.7	45.6	45.0
F91-3578	41.6	46.5	40.8	41.7	41.8	42.4	42.6
F92-1519	40.2	43.0	42.3	43.5	40.9	42.3	41.7
G90-1587	43.5	48.2	41.0	42.8	44.8	44.2	44.3
G90-1669	41.5	47.0	42.0	42.5	42.3	44.1	43.4
G90-2243	41.6	45.0	41.1	40.9	41.3	39.8	41.8
G90-3258	41.5	45.2	40.6	39.6	42.9	43.1	42.7
G90-3262	42.1	47.5	41.8	39.7	42.8	44.8	43.8
G91-5245	42.5	49.2	42.0	42.1	42.3	44.2	44.0
N92-610	40.9	43.5	42.1	40.4	40.6	42.3	41.9
N92-705	42.4	44.2	41.9	43.1	41.8	42.8	42.6
N92-715	41.0	45.2	41.8	39.8	39.5	41.7	41.8
N92-727	42.6	43.9	43.2	40.5	42.4	42.9	43.0
N90-7199	42.1	43.9	42.2	39.4	40.9	41.5	42.1
N90-7202	42.3	45.0	43.6	42.6	43.5	42.7	43.4
N91-6117	42.3	45.3	41.7	41.9	43.3	42.0	42.9
NTCPR92-100	45.7	50.0	46.7	45.4	45.8	47.2	47.1
NTCPR92-115	47.0	50.8	46.5	45.1	45.2	47.5	47.4
NTCEBH91-42	49.6	51.4	51.5	49.2	48.7	51.3	50.5
SC91-483	43.4	46.9	43.3	42.4	42.9	44.0	44.1
SC91-1767	43.2	45.5	41.6	41.3	42.6	43.2	43.2
SC91-1791	44.1	48.7	44.1	42.6	45.3	45.3	45.5
SC91-1907	41.4	46.7	41.9	40.3	41.3	40.7	42.4
SC91-2410	41.2	45.5	41.6	41.7	42.0	43.6	42.8
TSB92-1181	43.3	46.2	41.0	43.7	43.8	44.6	43.8
TSB92-1316	42.0	44.0	40.8	40.8	41.3	43.3	42.3
TSB92-1382	43.6	48.1	42.8	42.7	43.7	45.5	44.7
TSB92-3453	44.3	47.0	44.7	42.5	44.5	46.0	45.3
TSB92-3784	45.3	48.7	43.0	44.1	44.6	45.2	45.4
TSB92-3917	43.8	46.3	42.9	42.7	43.8	44.1	44.2

† Not included in mean.

TABLE 69 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	JACKSON SPRINGS NC	JAY FL†	TALLA- SSEE AL	MEAN
STONEWALL	17.7	10.9	16.8	16.4	15.4	15.2
HASKELL	16.6	12.3	15.4	17.7	17.7	15.5
CENTENNIAL	14.3	13.0	13.6	17.9	18.2	14.8
BRAXTON	17.7	11.8	16.9	18.7	15.8	15.5
AU91-788	12.7	10.9	11.0	13.9	12.0	9.2
AU91-1074	11.1	10.0	11.3	13.6	13.4	11.4
AU91-1387	16.4	12.0	15.3	17.1	19.2	15.7
AU91-1398	15.3	11.1	12.8	15.5	13.5	13.2
AU91-1699	14.8	11.1	13.4	13.6	15.4	13.7
AU91-2104	14.5	9.7	14.2	13.5	13.6	13.0
D91-4759	15.8	11.0	13.8	16.2	13.6	13.5
D91-4789	14.9	10.7	13.8	14.4	15.0	13.6
D92-2591	14.1	11.4	14.0	14.9	15.4	10.6
D91-6201	15.9	11.5	14.8	17.2	16.4	14.7
F91-1542	12.5	9.5	11.1	13.3	11.2	11.1
F91-1895	16.4	15.0	15.3	18.3	17.9	16.1
F91-3578	13.4	9.5	11.2	13.7	12.0	11.5
F92-1519	14.4	12.3	14.0	14.1	15.4	10.9
G90-1587	14.5	9.8	12.3	15.1	15.6	13.1
G90-1669	13.5	10.7	11.8	16.5	13.0	12.3
G90-2243	16.3	11.7	14.7	15.4	13.4	14.0
G90-3258	17.0	12.4	13.9	15.7	16.2	14.9
G90-3262	14.8	10.0	14.0	14.5	15.3	10.4
G91-5245	16.1	10.9	14.5	16.4	16.2	14.4
N92-610	20.0	15.3	18.5	17.1	21.3	18.8
N92-705	19.3	15.2	18.6	12.2	19.7	18.2
N92-715	13.5	11.4	14.7	15.1	15.3	13.7
N92-727	19.3	15.0	17.3	21.1	21.3	18.2
N90-7199	15.0	10.4	14.2	14.2	15.2	13.7
N90-7202	13.6	11.1	13.7	14.3	14.1	13.1
N91-6117	15.8	13.1	16.6	19.9	18.4	16.0
NTCPR92-100	6.7	9.8	6.9	7.4	7.3	7.7
NTCPR92-115	7.1	9.8	7.3	8.0	7.9	8.0
NTCEBH91-42	7.8	10.8	7.4	7.4	8.1	8.5
SC91-483	16.4	11.3	16.9	16.3	17.3	15.5
SC91-1767	16.0	12.3	13.7	15.1	14.7	14.2
SC91-1791	17.1	11.7	16.1	13.9	15.1	15.0
SC91-1907	13.4	11.4	12.3	14.2	14.1	12.8
SC91-2410	14.9	11.3	14.3	14.7	13.2	13.4
TSB92-1181	16.1	12.3	14.3	17.3	15.0	14.4
TSB92-1316	14.9	11.4	14.7	16.0	14.9	14.0
TSB92-1382	12.3	8.8	12.6	13.7	14.4	12.0
TSB92-3453	14.5	9.0	14.7	15.2	15.4	13.4
TSB92-3784	14.0	12.3	12.0	15.6	12.8	10.1
TSB92-3917	17.8	11.7	16.2	18.2	15.9	15.4

† Not included in mean.

TABLE 70 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	BLACK- VILLE SC(A)†	JACKSON SPRINGS NC	JAY FL†	STONE- VILLE MS(B)	TALLA- SSEE AL	MEAN
STONEWALL	39	28	27	41	23	38	41	37
HASKELL	42	31	32	40	26	37	41	38
CENTENNIAL	40	32	28	40	20	34	37	36
BRAXTON	48	31	27	44	22	40	38	40
AU91-788	38	31	28	42	20	38	40	38
AU91-1074	42	28	28	39	22	37	29	35
AU91-1387	49	30	27	43	21	37	36	39
AU91-1398	42	24	30	39	20	40	35	36
AU91-1699	47	29	30	34	18	36	38	37
AU91-2104	43	33	26	41	20	39	38	39
D91-4759	42	28	22	38	21	34	40	36
D91-4789	49	32	29	42	27	41	40	41
D92-2591	38	31	30	36	20	33	36	35
D91-6201	42	33	24	43	27	43	46	41
F91-1542	40	29	29	33	23	37	33	34
F91-1895	38	32	21	36	25	32	36	35
F91-3578	44	33	25	38	24	39	38	38
F92-1519	46	28	27	36	26	36	29	35
G90-1587	37	29	23	34	20	39	38	35
G90-1669	43	27	25	41	21	42	36	38
G90-2243	43	31	23	37	22	41	37	38
G90-3258	37	25	20	35	21	34	33	33
G90-3262	44	29	30	42	19	37	41	38
G91-5245	39	26	22	36	20	38	39	36
N92-610	39	25	24	34	24	33	38	34
N92-705	40	25	24	39	23	36	42	36
N92-715	39	27	26	36	21	38	34	35
N92-727	46	27	23	44	24	41	38	39
N90-7199	31	26	22	35	18	33	35	32
N90-7202	40	30	23	41	24	36	40	37
N91-6117	46	34	28	44	25	43	44	42
NTCPR92-100	43	27	25	37	18	35	32	35
NTCPR92-115	33	22	20	30	14	32	33	30
NTCEBH91-42	38	24	23	37	17	34	32	33
SC91-483	45	31	26	46	18	41	42	41
SC91-1767	46	29	31	47	21	41	39	40
SC91-1791	44	29	33	44	22	42	39	40
SC91-1907	47	30	28	39	20	40	38	39
SC91-2410	46	26	27	39	22	38	40	38
TSB92-1181	46	32	29	45	20	42	32	39
TSB92-1316	41	30	26	46	19	36	38	38
TSB92-1382	48	33	24	42	17	39	40	40
TSB92-3453	48	35	26	39	25	44	45	42
TSB92-3784	45	27	26	39	17	37	30	35
TSB92-3917	48	29	24	43	19	41	38	40

† Not included in mean.

TABLE 71 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1994.

STRAIN VARIETY	ATHENS GA	BEAU- MONT TX	JACKSON SPRINGS NC	JAY FL†	STONE- VILLE MS(B)	TALLA- SSEE AL	MEAN
STONEWALL	4.3	1.3	3.0	1.0	2.0	2.5	2.6
HASKELL	4.2	1.0	3.0	1.0	2.5	1.3	2.4
CENTENNIAL	2.9	1.5	3.0	1.0	2.0	1.5	2.2
BRAXTON	3.4	1.0	3.0	1.0	2.0	2.8	2.4
AU91-788	3.6	1.3	3.5	1.0	2.0	2.3	2.5
AU91-1074	3.2	1.0	3.0	1.0	2.0	1.3	2.1
AU91-1387	4.2	1.0	3.0	1.0	3.0	1.3	2.5
AU91-1398	2.3	1.0	2.0	1.0	2.0	1.0	1.7
AU91-1699	4.2	1.0	3.5	1.0	2.0	2.3	2.6
AU91-2104	3.6	1.0	3.0	1.0	2.0	2.0	2.3
D91-4759	4.1	1.0	3.0	1.0	2.0	3.0	2.6
D91-4789	4.1	1.3	3.5	1.0	2.5	2.8	2.8
D92-2591	2.5	1.0	3.0	1.0	2.5	2.0	2.2
D91-6201	3.0	1.8	3.0	1.0	2.5	3.0	2.7
F91-1542	3.1	1.0	3.0	1.0	2.0	2.3	2.3
F91-1895	3.7	2.0	2.5	1.5	2.0	1.5	2.3
F91-3578	4.0	1.5	3.5	1.5	2.0	3.8	3.0
F92-1519	4.2	1.5	3.5	1.0	3.0	3.3	3.1
G90-1587	2.0	1.0	2.5	1.0	2.0	1.3	1.8
G90-1669	4.2	1.0	3.0	1.0	2.0	1.5	2.3
G90-2243	4.3	1.0	3.5	1.0	2.0	3.3	2.8
G90-3258	2.2	1.0	2.0	1.0	2.0	1.0	1.6
G90-3262	3.9	1.0	3.0	1.0	2.0	1.5	2.3
G91-5245	3.1	1.0	2.5	1.0	2.0	1.3	2.0
N92-610	2.9	1.0	2.0	1.0	2.0	2.0	2.0
N92-705	2.1	1.0	2.0	1.0	2.0	2.3	1.9
N92-715	3.4	1.3	4.0	1.0	2.0	4.8	3.1
N92-727	2.7	1.0	2.0	1.0	2.0	1.5	1.8
N90-7199	2.5	1.3	2.5	1.0	2.5	2.0	2.2
N90-7202	4.6	1.3	3.0	1.0	2.5	1.8	2.6
N91-6117	4.0	2.0	3.0	1.0	2.5	2.8	2.9
NTCPR92-100	3.0	1.3	3.5	1.0	2.5	1.5	2.4
NTCPR92-115	3.3	1.0	4.0	1.0	3.0	1.3	2.5
NTCEBH91-42	4.2	1.0	4.0	1.0	3.0	4.3	3.3
SC91-483	2.3	1.0	2.5	1.0	2.0	1.3	1.8
SC91-1767	3.1	1.0	3.0	1.0	3.0	2.5	2.5
SC91-1791	3.8	1.0	2.5	1.0	2.0	2.0	2.3
SC91-1907	1.8	1.0	3.0	1.0	2.0	1.3	1.8
SC91-2410	3.3	1.0	3.0	1.0	2.0	2.3	2.3
TSB92-1181	2.8	1.5	3.0	1.0	2.0	1.5	2.2
TSB92-1316	3.8	1.5	3.0	1.0	2.0	3.3	2.7
TSB92-1382	4.8	1.5	3.5	1.0	3.0	4.0	3.4
TSB92-3453	3.1	1.0	3.0	1.0	3.0	3.0	2.6
TSB92-3784	2.7	1.0	2.5	1.0	2.0	1.0	1.8
TSB92-3917	3.3	1.0	3.5	1.0	2.0	1.3	2.2

† Not included in mean.

TABLE 72 - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	JACKSON SPRINGS NC	JAY FL†	STONE- VILLE MS(B)	TALLA- SSEE AL	MEAN
STONEWALL	1.5	1.5	2.0	3.0	2.0	1.0	1.6
HASKELL	1.5	1.3	2.0	2.0	2.0	1.5	1.7
CENTENNIAL	1.8	1.3	2.0	2.0	2.0	1.0	1.6
BRAXTON	2.3	1.8	2.0	2.0	2.0	1.0	1.8
AU91-788	1.5	1.5	2.0	2.0	2.0	1.0	1.6
AU91-1074	1.5	1.3	2.0	3.0	2.0	1.0	1.6
AU91-1387	1.8	1.5	2.0	3.0	2.0	1.0	1.7
AU91-1398	1.8	1.5	2.0	3.0	2.0	1.0	1.7
AU91-1699	1.5	1.8	2.0	3.0	2.0	1.0	1.7
AU91-2104	1.5	1.8	2.0	3.0	2.0	1.0	1.7
D91-4759	1.5	1.8	2.0	3.0	2.0	1.0	1.7
D91-4789	1.8	1.0	2.0	3.0	2.0	1.0	1.6
D92-2591	1.8	1.0	2.0	2.0	2.0	1.0	1.6
D91-6201	1.5	1.8	2.0	2.0	2.0	1.0	1.7
F91-1542	1.8	1.5	2.0	3.0	2.0	1.0	1.7
F91-1895	1.8	2.0	2.0	3.0	2.0	1.5	1.9
F91-3578	1.5	2.3	2.0	2.0	2.0	1.5	1.9
F92-1519	1.5	1.8	2.0	2.0	2.0	1.0	1.7
G90-1587	1.5	1.3	2.0	3.0	2.0	1.0	1.6
G90-1669	1.5	1.8	2.0	3.0	2.0	1.0	1.7
G90-2243	1.5	1.3	2.0	2.0	2.0	1.0	1.6
G90-3258	1.5	1.8	2.0	4.0	2.0	1.0	1.7
G90-3262	1.8	1.0	2.0	3.0	2.0	1.0	1.6
G91-5245	1.5	1.5	2.0	2.0	2.0	1.0	1.6
N92-610	2.3	2.5	2.0	3.0	2.0	3.0	2.4
N92-705	1.8	2.3	2.0	4.0	2.0	1.5	1.9
N92-715	1.8	1.8	2.0	2.0	2.0	1.0	1.7
N92-727	2.0	1.5	2.0	3.0	2.0	2.5	2.0
N90-7199	2.0	1.5	2.0	4.0	2.0	1.5	1.8
N90-7202	1.8	1.5	2.0	3.0	2.0	1.0	1.7
N91-6117	1.5	1.8	2.0	3.0	2.0	1.0	1.7
NTCPR92-100	1.5	1.8	2.0	4.0	2.0	1.0	1.7
NTCPR92-115	1.5	1.0	2.0	4.0	2.0	1.0	1.5
NTCEBH91-42	1.5	1.0	2.0	3.0	2.0	1.0	1.5
SC91-483	1.8	1.8	2.0	2.0	2.0	1.0	1.7
SC91-1767	1.8	1.8	2.0	3.0	2.0	1.0	1.7
SC91-1791	1.5	2.0	2.0	3.0	2.0	1.0	1.7
SC91-1907	1.8	1.3	2.0	3.0	2.0	1.0	1.6
SC91-2410	1.8	1.3	2.0	3.0	2.0	1.0	1.6
TSB92-1181	1.8	1.3	2.0	2.0	2.0	1.0	1.6
TSB92-1316	1.5	1.3	2.0	2.0	2.0	1.0	1.6
TSB92-1382	1.8	1.5	2.0	3.0	2.0	1.0	1.7
TSB92-3453	1.5	1.3	2.0	3.0	2.0	1.0	1.6
TSB92-3784	1.5	1.5	2.0	2.0	2.0	1.0	1.6
TSB92-3917	1.8	2.3	2.0	2.0	2.0	1.0	1.8

† Not included in mean.

**MATURITY**

**GROUP**

**VIII**

**UNIFORM GROUP VIII****1994**

Uniform Group VIII nurseries were planted at 11 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 73. Table 74 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 75 - 81.

The cultivar Cook is the yield and maturity check. It had a mean yield of 52.2 bushels per acre and a mean maturity of October 21 at the 11 locations.



TABLE 73 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 1994.

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. COOK	BRAXTON X YOUNG	F6
2. MAXCY	D76-9665 X JOHNSTON	F6
3. AU89-2256	STONEWALL X COKER 6738	F6
4. G88-3129	HUTCHESON X COKER 6738	F6
5. SC88-2537	KIRBY X (N79-491 X FORREST)	F5
6. SC89-551	A6785 X COKER 6738	F5
7. AU90-1698	D82-2228 X COKER 6738	F6
8. F88-8723	KIRBY X F84-1569	F6
9. F90-3126	F77-2000 X BRAXTON	F9
10. G89-1053	G80-1515 X THOMAS	F6
11. G89-2328	G81-152 X COKER 6738	F7
12. SC90-2878	COKER 6847 X THOMAS	F5
13. SC90-3014	COKER 6738 X HOWARD	F5
14. TSB88-1266	BRAXTON X N77-889	F9

**Background of lines used as parents:**

- D74-7741** is a selection from Forrest X D70-3001 which was grown in Uniform Group VI 1977-79. D70-3001 is of the same parentage as Centennial.
- D76-9665** is a selection from Forrest X Centennial.
- D82-2228** is a selection from Bedford X Tracy-M.
- F77-2000** is a selection from Centennial X [Forrest X (Cobb X D68-216)]. D68-216 is a selection from Dyer X Bragg.
- F84-1569** is a selection from F73-3376 X [Late Giant (2) X (Jupiter X F66-1534)].
- G80-1515** is a selection from Pickett 71 X Bedford.
- G81-152** is a selection from D74-7741 X Coker 237.
- N77-889** is a selection from N70-1549 X Centennial. N70-1549 is a selection from Dare X D65-6765.
- N79-491** is a selection from N70-1501 X Centennial. N70-1501 is a selection from Dare X D65-6765.

TABLE 74 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 1994.

STRAIN/VARIETY	YIELD †			PROTEIN			OIL		
	1994	93-94	92-94	1994	93-94	92-94	1994	93-94	92-94
1. COOK	52.2	46.4	46.1	44.3	43.1	42.7	20.1	20.3	20.4
2. MAXCY	46.1	43.4	42.7	42.6	42.1	41.6	20.4	20.5	20.5
3. AU89-2256	47.6	44.3	.	43.6	42.1	.	20.0	20.4	.
4. G88-3129	47.4	44.4	.	43.7	42.6	.	20.7	21.1	.
5. SC88-2537	44.9	42.2	41.6	44.1	42.7	42.3	20.2	20.5	20.5
6. SC89-551	47.4	44.3	.	42.1	41.2	.	20.3	20.6	.
7. AU90-1698	46.6	.	.	43.1	.	.	20.1	.	.
8. F88-8723	46.1	.	.	43.7	.	.	19.4	.	.
9. F90-3126	47.8	.	.	45.5	.	.	19.7	.	.
10. G89-1053	46.7	.	.	41.9	.	.	19.8	.	.
11. G89-2328	44.3	.	.	43.0	.	.	20.2	.	.
12. SC90-2878	43.7	.	.	44.0	.	.	20.3	.	.
13. SC90-3014	44.2	.	.	42.4	.	.	20.5	.	.
14. TSB88-1266	48.4	.	.	41.4	.	.	20.6	.	.

## BOTANICAL TRAITS

STRAIN/ VARIETY	FL. COLOR	MAT. DATE	LOG.	HT.	SEED QUALITY	SEED SIZE	PUB. COL.	POD WALL
1. COOK	P	10/21	1.8	41	1.8	16.4	T	T
2. MAXCY	P	+3	1.8	35	1.7	15.1	T	T
3. AU89-2256	W	+6	2.0	36	1.6	15.5	T	T
4. G88-3129	W	+3	2.0	40	1.5	15.7	G	T
5. SC88-2537	P	-3	1.8	35	1.7	13.7	G	T
6. SC89-551	P	+5	2.2	40	1.7	14.4	T	T
7. AU90-1698	P	-2	2.0	38	2.0	17.4	T	T
8. F88-8723	P	+9	2.2	34	1.8	18.0	T	--
9. F90-3126	W	+6	1.9	44	1.4	14.5	G	--
10. G89-1053	P	0	2.3	36	1.6	13.9	T	T
11. G89-2328	W	+4	2.0	39	1.5	14.1	T	T
12. SC90-2878	W	+4	1.9	35	1.7	15.9	T	T
13. SC90-3014	P	+1	1.6	34	1.5	12.7	T	T
14. TSB88-1266	P	+4	2.7	41	1.7	14.6	T	T

## PEST REACTIONS

STRAIN/ VARIETY	STEM CANKER		STEM CANKER		M.a.	M.a.	M.i.	SCN	SCN	AWB
	VBC	MS	TX	GA	GA	TN	GA	3	14	
1. COOK	4.3	1.0	0.0	4.5	1.1	1.3	5.0	5.0	3.0	
2. MAXCY	4.5	2.9	5.0	4.5	1.4	3.8	1.0	5.0	3.0	
3. AU89-2256	2.8	1.0	1.0	3.5	1.3	1.5	1.3	5.0	3.5	
4. G88-3129	4.7	1.0	3.0	3.8	1.3	2.3	1.0	5.0	3.5	
5. SC88-2537	5.7	2.8	0.0	3.8	1.0	1.0	1.0	5.0	4.0	
6. SC89-551	4.8	1.8	0.0	3.5	1.0	1.8	1.6	5.0	4.5	
7. AU90-1698	4.3	1.0	1.0	2.8	1.0	1.5	4.9	5.0	3.5	
8. F88-8723	6.0	1.0	0.0	3.8	1.0	3.3	1.0	4.9	5.0	
9. F90-3126	5.3	1.0	0.0	3.5	1.0	2.3	1.0	5.0	3.0	
10. G89-1053	4.2	1.0	0.0	3.0	1.0	1.0	1.0	4.2	4.0	
11. G89-2328	4.5	1.0	0.0	3.0	1.0	3.0	1.2	4.6	4.0	
12. SC90-2878	4.3	1.4	0.0	4.5	1.0	1.3	1.1	4.9	3.5	
13. SC90-3014	4.0	1.4	0.0	2.0	1.0	1.0	1.0	5.0	4.5	
14. TSB88-1266	3.8	1.5	0.0	2.5	1.3	4.3	5.0	5.0	3.5	

† Data from Blackville, SC(A) and (B) (1993); Gainesville, FL (1992); Jackson Springs, NC (1993); Jay, FL (1994); and Quincy, FL (1993) not included in mean.

TABLE 75 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1994.

STRAIN/ VARIETY	ATHENS GA	BATON ROUGE LA	BEAU- MONT TX	FAIR- HOPE AL	FLOR- ENCE SC	JACKSON SPRINGS NC
COOK	51.8	65.5	46.9	37.8	44.7	59.7
MAXCY	47.4	60.8	18.7	40.8	48.9	46.3
AU89-2256	42.7	65.2	41.3	39.9	47.4	45.2
G88-3129	47.2	50.8	44.2	39.6	57.7	57.0
SC88-2537	53.2	44.9	25.5	44.8	44.5	60.7
SC89-551	44.7	57.8	41.0	42.4	47.3	45.9
AU90-1698	42.4	48.2	43.0	43.9	44.2	51.0
F88-8723	47.9	68.1	37.9	40.5	45.2	48.0
F90-3126	43.6	60.1	42.1	38.4	44.9	45.3
G89-1053	51.7	50.9	47.4	47.2	47.4	43.9
G89-2328	42.2	53.9	33.1	41.5	42.4	40.6
SC90-2878	38.0	46.9	31.3	41.1	47.9	54.1
SC90-3014	51.7	33.5	36.8	38.4	45.4	48.3
TSB88-1266	38.0	67.3	35.9	50.5	43.5	54.7
Overall mean	45.9	55.3	37.5	41.9	46.5	50.0
L.S.D. (0.05)	8.8	8.3	8.3	5.5	5.9	9.1
C.V. (%)	11.1	8.9	13.2	7.9	7.5	10.2

STRAIN/ VARIETY	JAY FL†	PLAINS GA	QUINCY FL	TALLA- SSEE AL	TIFTON GA	MEAN
COOK	11.7	63.4	18.8	63.7	69.5	52.2
MAXCY	12.8	63.6	18.0	58.0	59.0	46.1
AU89-2256	16.9	63.4	25.0	47.7	57.9	47.6
G88-3129	12.5	61.5	18.7	50.7	46.8	47.4
SC88-2537	21.6	63.2	17.1	50.3	45.1	44.9
SC89-551	24.2	62.1	21.1	54.3	58.0	47.4
AU90-1698	19.4	67.2	16.5	54.7	54.9	46.6
F88-8723	38.9	59.6	16.6	41.0	56.7	46.1
F90-3126	36.7	58.5	18.9	55.7	70.5	47.8
G89-1053	29.3	55.6	17.6	52.7	52.4	46.7
G89-2328	26.0	66.3	17.6	45.3	60.0	44.3
SC90-287	20.5	62.5	11.2	41.3	62.2	43.7
SC90-3014	16.1	67.4	15.8	49.3	55.0	44.2
TSB88-1266	2.5	69.6	17.9	45.3	60.9	48.4
Overall mean	21.4	63.1	17.9	50.7	57.8	46.7
L.S.D. (0.05)	16.0	5.1	5.9	10.4	12.5	5.3
C.V. (%)	44.5	4.6	19.8	12.3	12.9	12.9

† Not included in mean.

TABLE 76 - SEED YIELD, EXPRESSED AS A PERCENTAGE OF THE LOCATION MEAN, FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1994.

STRAIN/ VARIETY	ATHENS GA	BATON ROUGE LA	BEAU- MONT TX	FAIR- HOPE AL	FLOR- ENCE SC	JACKSON SPRINGS NC
COOK	112.9	118.4	125.1	90.2	96.1	119.4
MAXCY	103.3	109.9	49.9	97.4	105.2	92.6
AU89-2256	93.0	117.9	110.1	95.2	101.9	90.4
G88-3129	102.8	91.9	117.9	94.5	124.1	114.0
SC88-2537	115.9	81.2	68.0	106.9	95.7	121.4
SC89-551	97.4	104.5	109.3	101.2	101.7	91.8
AU90-1698	92.4	87.2	114.7	104.8	95.1	102.0
F88-8723	104.4	123.1	101.1	96.7	97.2	96.0
F90-3126	95.0	108.7	112.3	91.6	96.6	90.6
G89-1053	112.6	92.0	126.4	112.6	101.9	87.8
G89-2328	91.9	97.5	88.3	99.0	91.2	81.2
SC90-2878	82.8	84.8	83.5	98.1	103.0	108.2
SC90-3014	112.6	60.6	98.1	91.6	97.6	96.6
TSB88-1266	82.8	121.7	95.7	120.5	93.5	109.4
Mean (bu/ac)	45.9	55.3	37.5	41.9	46.5	50.0

STRAIN/ VARIETY	JAY FL†	PLAINS GA	QUINCY FL	TALLASSEE AL	TIFTON GA	MEAN
COOK	54.7	100.5	105.0	125.6	120.2	111.8
MAXCY	59.8	100.8	100.6	114.4	102.1	98.7
AU89-2256	79.0	100.5	139.7	94.1	100.2	101.9
G88-3129	58.4	97.5	104.5	100.0	81.0	101.5
SC88-2537	100.9	100.2	95.5	99.2	78.0	96.1
SC89-551	113.1	98.4	117.9	107.1	100.3	101.5
AU90-1698	90.7	106.5	92.2	107.9	95.0	99.8
F88-8723	181.8	94.5	92.7	80.9	98.1	98.7
F90-3126	171.5	92.7	105.6	109.9	122.0	102.4
G89-1053	136.9	88.1	98.3	103.9	90.7	100.0
G89-2328	121.5	105.1	98.3	89.3	103.8	94.9
SC90-2878	95.8	99.0	62.6	81.5	107.6	93.6
SC90-3014	75.2	106.8	88.3	97.2	95.2	94.6
TSB88-1266	58.4	110.3	100.0	89.3	105.4	103.6
Mean (bu/ac)	21.4	63.1	17.9	50.7	57.8	46.7

† Not included in mean.

TABLE 77 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	FAIR- HOPE AL	FLOR- ENCE SC	JACKSON SPRINGS NC	JAY FL†	PLAINS GA	TALLA- SSEE AL	TIF- TON GA	MEAN
OIL PERCENTAGE										
COOK	20.0	20.6	20.1	20.3	19.5	20.7	20.0	20.0	20.6	20.1
MAXCY	19.9	20.7	19.8	20.6	19.9	20.2	20.5	20.6	21.1	20.4
AU89-2256	20.1	20.3	18.9	20.3	19.4	21.5	20.1	20.2	20.4	20.0
G88-3129	20.6	20.3	19.3	21.1	20.3	21.1	21.2	21.0	22.0	20.7
SC88-2537	20.2	20.5	19.9	20.4	19.8	20.6	20.4	19.9	20.8	20.2
SC89-551	20.4	20.4	19.6	20.6	19.4	20.9	20.7	20.5	20.8	20.3
AU90-1698	19.6	20.2	19.8	19.6	20.1	20.8	20.3	20.1	21.1	20.1
F88-8723	19.1	20.0	18.6	19.7	18.2	20.5	19.3	19.8	20.2	19.4
F90-3126	19.6	19.9	19.9	19.6	19.3	20.2	19.8	19.2	20.4	19.7
G89-1053	19.4	20.1	19.5	20.0	19.1	20.5	19.9	19.9	20.2	19.8
G89-2328	19.9	20.3	19.5	20.4	19.3	20.9	20.8	20.6	21.0	20.2
SC90-2878	20.2	19.9	20.1	20.5	20.2	21.3	20.6	20.1	20.5	20.3
SC90-3014	20.3	20.5	19.9	20.8	20.0	21.1	20.8	20.3	21.1	20.5
TSB88-1266	20.5	20.9	20.7	20.0	20.0	21.0	21.1	20.3	21.0	20.6
PROTEIN PERCENTAGE										
COOK	42.8	46.5	47.0	43.2	43.3	42.1	44.1	44.7	42.7	44.3
MAXCY	40.6	46.8	46.5	41.3	40.9	40.8	41.5	42.7	40.6	42.6
AU89-2256	42.2	44.5	47.2	42.7	42.3	40.9	42.4	44.8	42.3	43.6
G88-3129	43.0	47.4	46.4	43.2	42.1	43.1	43.5	43.0	41.2	43.7
SC88-2537	42.3	47.3	47.1	42.6	42.2	43.8	44.2	44.4	42.9	44.1
SC89-551	41.4	44.6	46.0	41.0	41.0	42.4	40.9	42.2	39.3	42.1
AU90-1698	41.5	45.0	48.8	42.9	41.1	43.1	42.1	43.1	40.6	43.1
F88-8723	4.30	46.0	49.8	42.1	42.8	42.4	42.2	42.6	40.7	43.7
F90-3126	44.3	47.1	48.6	45.1	44.4	45.8	45.1	45.2	44.0	45.5
G89-1053	41.0	45.2	45.5	41.3	39.9	42.0	41.3	41.1	39.6	41.9
G89-2328	41.4	45.8	46.3	42.2	41.5	42.1	42.3	42.8	41.6	43.0
SC90-2878	42.5	45.4	47.9	43.3	43.5	42.2	43.4	44.0	41.9	44.0
SC90-3014	41.2	46.8	46.0	41.9	40.7	41.6	40.0	42.4	39.8	42.4
TSB88-1266	40.0	43.6	43.6	41.6	40.2	41.1	40.9	41.8	39.7	41.4
GRAMS PER 100 SEED										
COOK	15.9	13.7	13.9	15.2	15.7	16.8	18.6	19.1	19.4	16.4
MAXCY	13.9	11.9	13.9	14.7	14.5	15.1	16.5	17.4	18.4	15.2
AU89-2256	14.4	11.3	14.2	16.9	15.2	18.4	16.2	18.7	17.5	15.6
G88-3129	15.5	13.1	12.9	15.8	15.2	17.2	17.3	17.7	18.1	15.7
SC88-2537	13.6	10.2	12.6	13.5	13.3	15.4	14.4	15.8	16.0	13.7
SC89-551	13.6	10.5	12.3	15.2	15.2	17.2	14.9	16.6	16.7	14.4
AU90-1698	17.0	15.4	15.6	17.5	16.6	18.8	18.8	19.6	18.6	17.4
F88-8723	17.2	14.3	17.7	18.7	17.1	20.0	17.0	21.3	20.5	18.0
F90-3126	13.8	10.5	13.3	15.6	14.8	17.6	14.7	16.5	16.9	14.5
G89-1053	14.0	11.7	13.3	14.1	13.3	16.1	13.8	13.8	16.9	13.9
G89-2328	13.4	10.6	11.7	14.8	13.7	16.6	15.8	15.1	18.0	14.1
SC90-2878	14.8	11.5	14.2	16.4	16.7	17.5	17.3	18.0	18.1	15.9
SC90-3014	12.6	9.8	11.7	12.5	12.5	14.6	13.5	13.4	15.3	12.7
TSB88-1266	13.1	11.1	14.4	14.8	15.2	15.3	15.5	16.1	16.2	14.6

† Not included in mean.

TABLE 78 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN COOK, FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1994.

STRAIN VARIETY	ATHENS GA	BEAU- MONT TX	FAIR- HOPE AL	FLOR- ENCE NC	JACKSON SPRINGS NC	JAY FL†	TALLA- SSEE AL	TIF- TON GA	MEAN
COOK	10/19	10/19	10/7	10/27	10/31	11/3	10/25	10/16	10/21
MAXCY	3	-7	9	5	4	-2	3	5	3
AU89-2256	7	2	11	9	2	1	-	7	5
G88-3129	3	0	7	4	2	3	2	1	2
SC88-2537	-5	-10	6	-9	0	1	1	-2	-3
SC89-551	5	1	11	6	4	2	4	4	5
AU90-1698	-2	-6	-1	-1	-1	3	0	-3	-2
F88-8723	13	3	14	13	4	2	-	10	8
F90-3126	5	0	8	12	4	2	-	6	5
G89-1053	-2	-6	7	-2	4	4	0	-2	-1
G89-2328	4	-5	11	6	4	4	3	5	4
SC90-2878	3	-6	14	8	4	3	3	4	4
SC90-3014	1	-3	7	0	-1	-2	0	0	0
TSB88-1266	2	2	9	5	4	2	3	3	4

† Not included in mean.

TABLE 79 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	FAIR- HOPE AL	FLOR- ENCE SC	JACKSON SPRINGS NC	JAY FL†	PLAINS GA	TALLA- SSEE AL	TIF- TON GA	MEAN
COOK	48	40	39	45	43	22	37	44	31	41
MAXCY	38	33	33	43	36	21	34	33	28	35
AU89-2256	36	34	34	40	37	19	36	41	30	36
G88-3129	43	36	40	44	43	19	39	42	33	40
SC88-2537	42	35	35	41	34	18	32	43	22	35
SC89-551	48	37	40	44	41	25	34	41	33	40
AU90-1698	40	37	35	45	40	20	37	42	26	38
F88-8723	40	34	33	39	27	23	34	38	28	34
F90-3126	48	44	43	47	44	24	41	49	39	44
G89-1053	40	36	35	41	38	23	30	37	27	36
G89-2328	42	39	39	43	43	21	40	41	29	39
SC90-2878	42	35	30	39	37	21	33	38	28	35
SC90-3014	42	35	32	39	36	18	29	36	23	34
TSB88-1266	48	41	40	43	43	19	36	42	34	41

† Not included in mean.

TABLE 80 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1994.

STRAIN VARIETY	ATHENS GA	BEAU- MONT TX	FAIR- HOPE AL	FLOR- ENCE SC	JACKSON SPRINGS NC	JAY FL†	PLAINS GA	TALLA- SSEE AL	TIF- TON GA	MEAN
COOK	3.2	1.2	1.3	2.0	3.0	1.0	1.8	1.8	1.0	1.9
MAXCY	3.2	1.5	1.3	2.0	2.3	1.0	1.2	2.7	1.0	1.9
AU89-2256	3.8	1.0	1.0	2.7	3.0	1.0	1.3	2.8	1.3	2.1
G88-3129	3.5	1.7	1.0	2.3	3.0	1.0	1.5	2.7	1.3	2.1
SC88-2537	3.4	1.5	1.0	2.0	3.0	1.0	1.5	2.0	1.0	1.9
SC89-551	3.4	1.7	2.0	2.0	3.0	1.0	1.5	4.0	1.7	2.4
AU90-1698	3.8	2.0	1.0	2.0	2.7	1.0	1.5	3.0	1.0	2.1
F88-8723	3.2	1.2	1.0	3.0	3.0	1.0	1.5	4.0	1.3	2.3
F90-3126	2.9	1.2	1.0	3.0	3.0	1.0	1.3	2.0	1.7	2.0
G89-1053	4.0	2.5	1.0	2.3	3.0	1.0	1.6	3.3	1.3	2.4
G89-2328	3.2	1.2	1.0	2.3	3.0	1.0	1.2	3.3	2.0	2.2
SC90-2878	3.7	1.2	1.0	2.3	3.0	1.0	1.2	2.7	1.3	2.1
SC90-3014	3.1	1.0	1.0	2.0	2.3	1.0	1.2	2.3	1.0	1.7
TSB88-1266	4.2	3.0	1.3	2.7	3.0	1.0	2.0	4.2	2.3	2.8

† Not included in mean.



TABLE 81 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1994.

STRAIN/ VARIETY	ATHENS GA	BEAU- MONT TX	FAIR- HOPE AL	JACKSON SPRINGS NC	JAY FL†	PLAINS GA	TALLA- SSEE AL	TIFTON GA	MEAN
COOK	1.6	2.0	2.5	2.0	3.0	1.5	1.5	1.2	1.8
MAXCY	1.9	2.2	2.0	2.0	3.0	1.8	1.0	1.1	1.7
AU89-2256	1.9	1.3	1.5	2.0	3.0	1.5	1.5	1.2	1.6
G88-3129	1.5	1.5	1.5	2.0	3.0	1.5	1.0	1.3	1.5
SC88-2537	1.5	1.7	1.5	2.5	2.0	1.5	1.5	1.4	1.7
SC89-551	1.5	1.7	2.5	2.5	2.0	1.5	1.0	1.2	1.7
AU90-1698	1.5	2.7	3.0	2.0	2.0	2.5	1.0	1.4	2.0
F88-8723	2.0	1.2	2.0	2.5	2.0	2.0	2.0	1.2	1.8
F90-3126	1.5	1.3	1.5	2.0	2.0	1.5	1.0	1.0	1.4
G89-1053	1.6	1.2	2.0	2.5	2.0	1.7	1.0	1.4	1.6
G89-2328	1.5	1.7	1.0	2.5	2.0	1.7	1.0	1.1	1.5
SC90-2878	1.5	1.5	3.0	2.0	2.0	1.5	1.0	1.2	1.7
SC90-3014	1.5	1.5	1.5	2.0	2.0	1.4	1.0	1.3	1.5
TSB88-1266	1.5	1.7	3.0	2.0	2.0	1.5	1.0	1.3	1.7

† Not included in mean.

**PRELIMINARY GROUP VIII****1994**

Preliminary Group VIII nurseries were planted at 5 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 82. Table 83 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 84 - 90.

The cultivar Cook is the yield and maturity check. It had a mean yield of 43.9 bushels per acre and a mean maturity of October 24 at the 5 locations.

TABLE 82 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 1994.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. COOK	BRAXTON X YOUNG	F6
2. MAXCY	D76-9665 X JOHNSTON	F6
3. BRAXTON	F59-1501 X (BRAGG(3) X D60-7965)	F5
4. AU91-13	N85-492 X COKER 85-483	F6
5. AU91-41	N85-492 X COKER 85-483	F6
6. AU91-442	G81-1949 X N85-574	F6
7. AU91-473	G81-1949 X N85-574	F6
8. AU91-680	G81-1949 X N85-574	F6
9. AU91-1970	AU82-211 X COKER 85-483	F6
10. F89-3961	F83-1960 X F76-1514	F6
11. F89-4067	KIRBY X F84-1569	F7
12. F90-5099	F85-1108 X F85-7356	F5
13. F90-5117	BEDFORD X F85-1028	F5
14. F91-2192	BEDFORD X F85-1028	F6
15. F91-3533	PI417479 X F87-4039	F5
16. F92-2514	PI417479 X F87-4039	F6
17. G90-1106	COKER 82-622 X G81-152	F6
18. G90-1551	COKER 82-622 X HOWARD	F6
19. G90-1611	COKER 82-622 X HOWARD	F6
20. G90-1894	COKER 82-622 X HOWARD	F6
21. G90-2080	COKER 82-622 X G81-1949	F6
22. G90-2635	COKER 6738 X G82-2933	F6
23. SC91-1756	COKER 6847 X STONEWALL	F5
24. SC91-2310	NK'S S83-30 X HOWARD	F5
25. SC91-2351	NK'S S83-30 X HOWARD	F5
26. SC91-2447	NK'S S83-30 X HOWARD	F5
27. SC91-2573	NK'S S83-30 X HOWARD	F5
28. SC91-2620	NK'S S83-30 X HOWARD	F5
29. TSB90-302	DOWLING X BRAXTON	F5
30. TSB91-4516	F79-4860 X JOHNSTON	F6
31. TSB91-4521	F79-4860 X JOHNSTON	F6
32. TSB91-5381	JOHNSTON X DOWLING	F5
33. TSB91-5422	JOHNSTON X DOWLING	F5
34. TSB91-5425	JOHNSTON X DOWLING	F5

TABLE 83 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 1994.

STRAIN/ VARIETY	SEED YIELD†	MAT. INDEX	HT.	OIL	PRO- TEIN	SEED SIZE	LODG- ING	SEED QUALITY
COOK	43.9	10/24	38	20.3	44.2	15.6	1.9	1.8
MAXCY	42.8	2-	36	20.2	44.9	14.9	1.3	1.9
BRAXTON	42.2	2-	38	20.4	44.8	16.8	1.4	2.2
AU91-13	45.9	2-	41	21.1+	41.4-	15.0	1.6	1.8
AU91-41	43.7	1-	36	21.1+	40.5-	13.6	1.3	1.8
AU91-442	35.0-	2-	34	21.0+	43.4	13.2	1.8	1.6
AU91-473	41.7	0	38	20.6	42.4-	12.7	1.9	1.3
AU91-680	39.7	3-	39	20.0	42.5-	13.3	2.1	1.5
AU91-1970	43.7	1+	35	20.5	44.1	16.8	1.8	1.5
F89-3961	40.6	1+	40	20.5	44.2	13.7	2.4	1.9
F89-4067	42.8	2-	37	20.2	44.5	17.7	1.4	1.9
F90-5099	35.6-	7-	37	20.5	44.0	12.7	2.2	1.3
F90-5117	35.6-	7-	36	19.5-	46.7+	17.2	1.9	2.3
F91-2192	33.2-	8-	35	19.4-	46.5+	16.8	1.4	2.3
F91-3533	7.5	7-	37	20.4	45.2	15.2	1.9	1.3
F92-2514	33.4-	8-	35	20.3	46.3+	13.9	2.2	1.6
G90-1106	41.1	3-	37	20.3	43.8	13.6	2.0	1.6
G90-1551	42.2	1-	39	20.1	45.2	14.4	1.3	1.5
G90-1611	36.3	1+	33	20.7	43.6	14.7	1.2	1.7
G90-1894	41.2	2-	33	20.2	45.8+	13.8	1.1	1.6
G90-2080	40.3	5-	37	20.5	44.3	15.2	2.2	1.5
G90-2635	42.3	4-	34	21.2+	42.6-	13.4	1.5	1.4
SC91-1756	43.9	2+	39	20.4	44.4	15.7	1.3	1.7
SC91-2310	32.9-	1+	38	20.1	42.7-	14.1	1.1	1.5
SC91-2351	40.1	4-	36	19.9	45.0	14.6	1.5	1.6
SC91-2447	39.3	2+	41	19.9	44.3	14.6	1.6	1.3
SC91-2573	42.1	1-	37	20.5	43.6	13.7	1.4	1.5
SC91-2620	36.8	2+	43	20.2	43.4	13.9	1.3	1.7
TSB90-302	42.7	5-	37	20.2	44.1	15.4	1.3	1.6
TSB91-4516	35.0-	1-	33	20.2	44.0	13.8	1.7	1.6
TSB91-4521	41.8	2-	39	20.6	42.5-	12.5	1.9	1.6
TSB91-5381	38.8	3+	38	20.4	42.2-	15.3	2.7	1.4
TSB91-5422	42.1	0	42	20.5	43.1	15.8	1.6	1.5
TSB91-5425	40.5	0	37	21.0+	42.9	15.5	2.4	1.3
Overall Mean	39.9			20.4	43.9			
L.S.D. (0.05)	7.8			0.6	1.4			
C.V.(%)	13.9			1.8	1.9			

† Data from Jay, FL not included in mean.

TABLE 83 - (Continued).

STRAIN/ VARIETY	M.a. TN	M.i. TN	SCN 3	SCN 14	STEM CANKER MS	STEM CANKER TX
COOK	1.3	1.0	5.0	5.0	1.0	0.0
MAXCY	2.0	1.1	1.0	5.0	4.0	1.0
BRAXTON	1.0	1.0	5.0	5.0	1.0	1.0
AU91-13	1.1	1.0	1.0	2.4	2.0	2.0
AU91-41	2.0	1.0	2.0	2.3	3.1	1.0
AU91-442	1.3	1.0	3.0	5.0	4.0	1.0
AU91-473	2.0	1.0	1.0	5.0	1.0	0.0
AU91-680	1.1	1.0	2.3	5.0	1.0	0.0
AU91-1970	1.2	1.0	1.2	2.2	3.0	0.0
F89-3961	1.0	1.0	1.2	2.1	4.0	1.0
F89-4067	1.0	1.0	1.3	5.0	1.0	0.0
F90-5099	1.3	1.0	1.0	5.0	1.0	0.0
F90-5117	1.3	1.0	1.4	2.1	2.0	0.0
F91-2192	1.2	1.0	2.0	2.0	1.0	0.0
F91-3533	4.0	1.3	4.4	5.0	4.0	1.0
F92-2514	3.4	1.0	1.0	5.0	4.0	1.0
G90-1106	1.0	1.0	1.0	5.0	1.0	0.0
G90-1551	1.2	1.0	1.2	2.0	1.0	0.0
G90-1611	1.0	1.0	1.0	1.1	2.4	0.0
G90-1894	1.0	1.0	1.0	1.0	3.3	1.0
G90-2080	1.0	1.0	1.0	5.0	1.0	0.0
G90-2635	1.0	1.0	1.2	5.0	4.0	1.0
SC91-1756	4.0	1.1	1.0	5.0	2.0	0.0
SC91-2310	2.0	1.0	1.3	3.1	1.0	0.0
SC91-2351	1.0	1.0	1.0	2.1	1.0	0.0
SC91-2447	1.2	1.0	1.2	3.4	1.0	0.0
SC91-2573	1.0	1.0	1.0	5.0	1.0	0.0
SC91-2620	1.2	1.0	1.0	5.0	2.6	0.0
TSB90-302	4.0	3.0	5.0	5.0	2.0	0.0
TSB91-4516	1.3	1.0	5.0	5.0	3.0	0.0
TSB91-4521	1.0	1.0	2.7	5.0	4.0	1.0
TSB91-5381	4.0	2.0	5.0	4.4	1.0	0.0
TSB91-5422	3.3	1.0	4.4	5.0	2.0	1.0
TSB91-5425	3.0	1.0	5.0	5.0	1.0	0.0

TABLE 84 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1994.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL†	PLAINS GA	QUINCY FL	TALLASSEE AL	MEAN
COOK	31.5	24.8	63.8	23.5	57.0	43.9
MAXCY	25.6	29.2	69.6	16.9-	59.0	42.8
BRAXTON	21.6	19.8	68.8	17.3	61.0	42.2
AU91-13	28.5	14.9	72.7+	22.2	60.0	45.9
AU91-41	33.7	13.8	74.5+	15.2-	51.5	43.7
AU91-442	18.0-	20.4	57.4-	15.8-	49.0	35.0-
AU91-473	31.2	21.5	68.8	16.9-	50.0	41.7
AU91-680	30.6	18.7	63.8	11.7-	52.5	39.7
AU91-1970	30.0	23.1	77.2+	11.3-	56.5	43.7
F89-3961	30.6	21.5	52.5-	21.4	58.0	40.6
F89-4067	24.1	20.4	66.5	22.2	58.5	42.8
F90-5099	20.4-	30.8	61.3	19.7	41.0-	35.6-
F90-5117	28.5	28.1	50.7-	12.7-	50.5	35.6-
F91-2192	28.4	34.1	53.6-	15.7-	35.0-	33.2-
F91-3533	25.0	34.7	49.6-	25.6	50.0	37.5
F92-2514	25.5	27.5	47.4-	17.4	43.5	33.4-
G90-1106	26.6	31.4	72.4+	16.2-	49.0	41.1
G90-1551	27.5	31.9	66.9	15.0-	59.5	42.2
G90-1611	24.0	25.3	57.9	8.9-	54.5	36.3
G90-1894	30.1	18.7	61.4	12.8-	60.5	41.2
G90-2080	27.5	20.9	67.9	13.4-	52.5	40.3
G90-2635	25.8	33.0	69.1	15.7-	58.5	42.3
SC91-1756	25.2	31.4	68.6	15.9-	66.0	43.9
SC91-2310	22.1-	33.6	47.8-	9.7-	52.0	32.9-
SC91-2351	24.6	33.0	64.1	12.1-	59.5	40.1
SC91-2447	28.1	41.8	57.4-	19.1	52.5	39.3
SC91-2573	26.1	37.4	63.9	20.3	58.0	42.1
SC91-2620	22.2-	38.5	58.0	13.7-	53.5	36.8
TSB90-302	24.6	44.6+	68.0	14.7-	63.5	42.7
TSB91-4516	26.9	33.6	60.7	12.9-	39.5-	35.0-
TSB91-4521	30.1	35.8	74.1+	13.5-	49.5	41.8
TSB91-5381	30.9	29.2	56.8-	18.1	49.5	38.8
TSB91-5422	35.7	31.9	64.1	18.7	50.0	42.1
TSB91-5425	24.6	31.4	58.9	22.0	56.5	40.5
Overall Mean	26.9	28.4	62.8	16.4	53.5	39.9
L.S.D. (0.05)	7.8	18.2	6.0	6.4	13.7	7.8
C.V. (%)	14.2	31.5	5.5	19.1	12.6	13.9

† Not included in mean.

TABLE 85 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1994.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL†	PLAINS GA	TALLASSEE AL	MEAN
COOK	20.4	21.3	20.5	20.0	20.3
MAXCY	19.9	21.0	20.8	19.8	20.2
BRAXTON	20.4	21.4	20.4	20.3	20.4
AU91-13	21.8	20.9	20.9	20.6	21.1
AU91-41	21.4	21.8	21.2	20.6	21.1
AU91-442	21.3	21.5	20.6	21.1	21.0
AU91-473	20.7	21.5	21.0	20.2	20.6
AU91-680	19.8	21.5	20.4	19.7	20.0
AU91-1970	20.9	21.3	20.7	19.9	20.5
F89-3961	21.2	21.1	20.4	19.9	20.5
F89-4067	20.4	21.5	20.8	19.3	20.2
F90-5099	20.7	20.6	20.8	20.0	20.5
F90-5117	20.0	20.6	19.6	18.8	19.5
F91-2192	20.2	19.9	19.7	18.3	19.4
F91-3533	21.0	21.1	20.5	19.8	20.4
F92-2514	21.1	21.0	20.3	19.6	20.3
G90-1106	20.1	21.4	20.8	20.1	20.3
G90-1551	19.8	20.7	20.4	20.2	20.1
G90-1611	20.9	22.1	21.2	19.9	20.7
G90-1894	20.3	20.5	19.8	20.5	20.2
G90-2080	20.4	21.5	20.4	20.6	20.5
G90-2635	21.3	22.0	21.2	21.1	21.2
SC91-1756	20.4	20.6	20.6	20.1	20.4
SC91-2310	20.4	21.0	20.3	19.7	20.1
SC91-2351	20.2	21.3	20.0	19.6	19.9
SC91-2447	20.3	20.5	20.2	19.3	19.9
SC91-2573	20.8	21.5	20.7	20.0	20.5
SC91-2620	20.1	21.2	20.2	20.2	20.2
TSB90-302	20.3	21.3	20.4	19.8	20.2
TSB91-4516	19.6	21.3	20.6	20.3	20.2
TSB91-4521	20.8	21.7	21.0	20.1	20.6
TSB91-5381	20.9	21.2	20.4	20.0	20.4
TSB91-5422	21.0	21.4	20.5	20.0	20.5
TSB91-5425	21.0	21.6	20.8	21.1	21.0

† Not included in mean.

TABLE 86 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1994.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL†	PLAINS GA	TALLASSEE AL	MEAN
COOK	45.7	41.2	43.9	42.9	44.2
MAXCY	45.9	41.4	43.5	45.4	44.9
BRAXTON	45.7	42.5	44.5	44.2	44.8
AU91-13	41.6	41.4	40.8	41.9	41.4
AU91-41	41.9	39.9	39.9	39.7	40.5
AU91-442	44.6	41.5	43.5	42.1	43.4
AU91-473	43.4	40.3	41.0	42.8	42.4
AU91-680	43.6	40.7	41.5	42.5	42.5
AU91-1970	45.1	42.3	43.0	44.2	44.1
F89-3961	45.7	42.9	43.1	43.8	44.2
F89-4067	45.9	42.5	42.2	45.5	44.5
F90-5099	45.7	41.8	43.7	42.6	44.0
F90-5117	47.8	43.0	46.4	46.0	46.7
F91-2192	47.2	43.4	46.5	45.9	46.5
F91-3533	46.1	41.6	44.7	44.9	45.2
F92-2514	47.5	43.2	45.3	46.0	46.3
G90-1106	46.2	41.3	41.8	43.5	43.8
G90-1551	46.9	42.5	43.7	45.1	45.2
G90-1611	46.0	41.2	41.5	43.2	43.6
G90-1894	47.5	43.6	44.8	45.1	45.8
G90-2080	45.3	41.5	44.4	43.3	44.3
G90-2635	43.5	40.9	42.1	42.2	42.6
SC91-1756	44.4	42.7	44.8	44.1	44.4
SC91-2310	45.5	42.3	40.3	42.3	42.7
SC91-2351	46.0	42.3	44.0	44.9	45.0
SC91-2447	44.8	44.1	43.2	44.9	44.3
SC91-2573	44.8	42.2	42.6	43.4	43.6
SC91-2620	46.0	42.1	41.0	43.3	43.4
TSB90-302	45.5	41.9	42.6	44.1	44.1
TSB91-4516	46.7	41.7	42.5	42.8	44.0
TSB91-4521	42.6	41.6	41.8	43.1	42.5
TSB91-5381	43.0	41.9	41.3	42.3	42.2
TSB91-5422	43.6	42.1	42.2	43.6	43.1
TSB91-5425	43.6	41.8	42.3	42.7	42.9

† Not included in mean.



TABLE 87 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1994.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL†	PLAINS GA	TALLASSEE AL	MEAN
COOK	12.5	20.2	17.4	16.9	15.6
MAXCY	10.0	16.9	17.6	17.2	14.9
BRAXTON	12.5	17.0	20.9	17.0	16.8
AU91-13	12.4	19.6	15.9	16.7	15.0
AU91-41	10.8	14.6	16.1	13.8	13.6
AU91-442	9.9	13.6	13.8	15.9	13.2
AU91-473	10.4	14.3	14.5	13.1	12.7
AU91-680	10.1	14.6	14.7	15.2	13.3
AU91-1970	14.1	15.5	17.9	18.4	16.8
F89-3961	10.7	15.3	15.7	14.7	13.7
F89-4067	14.6	19.9	18.7	19.9	17.7
F90-5099	9.5	14.2	15.7	13.0	12.7
F90-5117	15.2	16.5	19.1	17.4	17.2
F91-2192	14.3	17.4	19.0	17.0	16.8
F91-3533	13.7	16.3	17.2	14.8	15.2
F92-2514	11.6	14.7	14.5	15.5	13.9
G90-1106	10.1	15.5	15.5	15.1	13.6
G90-1551	10.8	15.8	16.7	15.7	14.4
G90-1611	12.3	16.4	16.0	15.9	14.7
G90-1894	11.0	16.2	15.3	15.0	13.8
G90-2080	11.3	15.7	17.9	16.3	15.2
G90-2635	9.9	16.2	15.0	15.3	13.4
SC91-1756	12.1	16.8	18.4	16.7	15.7
SC91-2310	11.5	17.9	14.3	16.5	14.1
SC91-2351	10.2	16.8	18.0	15.5	14.6
SC91-2447	11.4	17.6	15.7	16.7	14.6
SC91-2573	11.4	17.7	15.7	14.0	13.7
SC91-2620	11.4	15.8	15.4	14.9	13.9
TSB90-302	11.0	16.3	17.9	17.3	15.4
TSB91-4516	10.8	21.2	16.0	14.5	13.8
TSB91-4521	9.5	18.6	14.0	13.9	12.5
TSB91-5381	11.3	18.1	16.3	18.3	15.3
TSB91-5422	12.5	18.1	18.2	16.6	15.8
TSB91-5425	11.7	16.7	16.7	18.0	15.5

† Not included in mean.

TABLE 88 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1994.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL†	PLAINS GA	TALLASSEE AL	MEAN
COOK	32	22	40	42	38
MAXCY	33	23	38	38	36
BRAXTON	30	21	39	45	38
AU91-13	33	23	45	46	41
AU91-41	32	19	38	37	36
AU91-442	25	21	37	39	34
AU91-473	32	21	43	40	38
AU91-680	33	21	41	43	39
AU91-1970	34	20	34	38	35
F89-3961	36	20	44	41	40
F89-4067	31	25	40	40	37
F90-5099	29	33	46	36	37
F90-5117	32	26	38	40	36
F91-2192	32	27	40	35	35
F91-3533	31	31	40	40	37
F92-2514	29	30	40	37	35
G90-1106	32	23	43	37	37
G90-1551	34	21	43	40	39
G90-1611	30	21	34	35	33
G90-1894	28	20	33	39	33
G90-2080	30	19	42	38	37
G90-2635	29	23	39	36	34
SC91-1756	33	23	42	44	39
SC91-2310	32	23	39	43	38
SC91-2351	31	22	38	40	36
SC91-2447	32	28	45	45	41
SC91-2573	30	27	43	38	37
SC91-2620	33	29	48	48	43
TSB90-302	31	19	41	39	37
TSB91-4516	31	20	37	32	33
TSB91-4521	34	26	43	41	39
TSB91-5381	32	27	44	39	38
TSB91-5422	36	27	44	46	42
TSB91-5425	30	33	41	39	37

† Not included in mean.

TABLE 89 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1994.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL†	PLAINS GA	TALLASSEE AL	MEAN
COOK	1.0	1.0	1.8	2.8	1.9
MAXCY	1.0	1.0	1.5	1.3	1.3
BRAXTON	1.0	1.0	1.5	1.8	1.4
AU91-13	1.0	1.0	1.5	2.3	1.6
AU91-41	1.0	1.0	1.5	1.3	1.3
AU91-442	1.0	1.0	2.0	2.5	1.8
AU91-473	1.0	1.0	2.0	2.8	1.9
AU91-680	1.0	1.0	1.8	3.5	2.1
AU91-1970	1.0	1.5	2.0	2.3	1.8
F89-3961	1.8	1.0	2.5	3.0	2.4
F89-4067	1.0	1.0	2.0	1.3	1.4
F90-5099	1.0	1.5	3.0	2.5	2.2
F90-5117	1.0	1.0	2.0	2.8	1.9
F91-2192	1.0	1.0	2.0	1.3	1.4
F91-3533	2.0	1.0	2.3	1.5	1.9
F92-2514	1.3	2.5	3.0	2.3	2.2
G90-1106	1.0	1.0	1.8	3.3	2.0
G90-1551	1.0	1.0	1.5	1.5	1.3
G90-1611	1.0	1.0	1.3	1.3	1.2
G90-1894	1.0	1.0	1.0	1.3	1.1
G90-2080	1.0	1.0	2.0	3.5	2.2
G90-2635	1.0	1.0	1.3	2.3	1.5
SC91-1756	1.0	1.0	1.5	1.3	1.3
SC91-2310	1.0	1.0	1.0	1.3	1.1
SC91-2351	1.0	1.0	1.5	2.0	1.5
SC91-2447	1.0	1.5	1.8	2.0	1.6
SC91-2573	1.0	1.0	1.8	1.3	1.4
SC91-2620	1.0	1.0	1.5	1.3	1.3
TSB90-302	1.0	1.0	1.5	1.5	1.3
TSB91-4516	1.0	1.0	1.8	2.3	1.7
TSB91-4521	1.0	1.0	2.3	2.5	1.9
TSB91-5381	1.8	1.0	3.0	3.3	2.7
TSB91-5422	1.3	1.0	1.5	2.0	1.6
TSB91-5425	1.8	1.0	3.3	2.3	2.4

† Not included in mean.

TABLE 90 - SEED QUALITY FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1994.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL†	PLAINS GA	TALLASSEE AL	MEAN
COOK	2.0	2.0	2.3	1.0	1.8
MAXCY	2.5	2.0	1.8	1.5	1.9
BRAXTON	2.0	2.0	3.0	1.5	2.2
AU91-13	2.0	2.0	2.5	1.0	1.8
AU91-41	2.5	2.0	2.0	1.0	1.8
AU91-442	1.8	2.0	2.0	1.0	1.6
AU91-473	1.3	2.0	1.5	1.0	1.3
AU91-680	1.5	2.0	2.0	1.0	1.5
AU91-1970	1.8	2.0	1.8	1.0	1.5
F89-3961	2.3	2.0	2.5	1.0	1.9
F89-4067	2.0	2.0	2.3	1.5	1.9
F90-5099	1.0	3.0	2.0	1.0	1.3
F90-5117	1.5	3.0	3.8	1.5	2.3
F91-2192	2.0	2.0	3.5	1.5	2.3
F91-3533	1.0	2.0	2.0	1.0	1.3
F92-2514	1.5	2.0	2.3	1.0	1.6
G90-1106	2.0	2.0	1.8	1.0	1.6
G90-1551	1.8	2.0	1.8	1.0	1.5
G90-1611	2.3	2.0	1.8	1.0	1.7
G90-1894	2.0	2.0	1.8	1.0	1.6
G90-2080	1.3	3.0	2.3	1.0	1.5
G90-2635	1.3	2.0	2.0	1.0	1.4
SC91-1756	1.5	2.0	2.5	1.0	1.7
SC91-2310	1.8	2.0	1.8	1.0	1.5
SC91-2351	1.8	2.0	2.0	1.0	1.6
SC91-2447	1.3	2.0	1.5	1.0	1.3
SC91-2573	1.8	2.0	1.8	1.0	1.5
SC91-2620	2.3	2.0	1.8	1.0	1.7
TSB90-302	1.8	2.0	2.0	1.0	1.6
TSB91-4516	1.5	2.0	2.3	1.0	1.6
TSB91-4521	1.3	2.0	2.0	1.5	1.6
TSB91-5381	1.5	2.0	1.8	1.0	1.4
TSB91-5422	1.5	2.0	2.0	1.0	1.5
TSB91-5425	1.5	2.0	1.5	1.0	1.3

† Not included in mean.