

UNIFORM SOYBEAN TESTS
SOUTHERN STATES
1997

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

1997

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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. Lines are usually entered only once in the Preliminary Tests and then are either dropped or advanced to the Uniform Test for a maximum of three years if performance warrants further testing.

Eleven uniform test groups have been established to evaluate the best strains developed in the breeding programs. The groups 00 through IV are adapted in the northern part of the United States, and the groups IV-S through VIII are grown in the southern part. Within their area of adaptation, there is a maturity range of 12 to 18 days within each maturity class. The best public varieties available in each maturity class are used as check varieties with which to compare new strains as to seed yield, chemical composition, maturity, height, lodging, seed quality, and reaction to diseases and nematodes. For the groups grown in the southern area, the major check varieties are: KS4694, Manokin, Delsoy 4710, Hutcheson, Brim, Boggs, Dillon, Benning, Haskell, 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, and the Gulf Coast of Louisiana and Texas. In this area, several of the tests receive supplemental irrigation.

On nearly all of the soils, other than the alluvial soils along the Mississippi River, fertilization is essential for satisfactory soybean production. The soil test information is based upon analyses run by laboratories with the states. Different methods are used for extraction and reporting by the various laboratories.

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STRAIN DESIGNATION

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

AU	-	Alabama Agricultural Experiment Station, Auburn
DT	-	Delta Branch Experiment Station and USDA-ARS
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
VS	-	Virginia Agricultural Experiment Station

LOCATION OF SOYBEAN NURSERIES ALONG WITH SOIL TYPE

LOCATION	IV	V	VI	VII	VIII	SOIL	
EAST COAST							
Queenstown, MD	UP	UP				Mattapeake silt loam	
Georgetown, DE	U	U				Evesboro loamy sand	
Warsaw, VA	UP	UP	U			Kempsville loam	
Plymouth, NC			UP	UP		Portsmouth silt loam	
Whiteville, NC				U	UP	Norfolk sandy loam	
Jackson Springs, NC					UP	U	Norfolk sandy loam
Florence, SC				U	U	U	Goldsboro sandy loam
Petersburg, VA				P			
SOUTHEAST							
Blackville, SC(A)				UP	UP	P	Faceville sandy loam
Blackville, SC(B)					U	2U	Norfolk sandy loam
Tifton, GA				U	U	U	Tifton sandy loam
Tallassee, AL				UP	UP	2U	Cahaba fine s. l.
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
UPPER AND CENTRAL SOUTH							
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				Leeper silty clay
Suffolk, VA			U	U			Lynchburg fine sandy loam
DELTA							
Portageville, MO(A)	UP	UP	U				Tiptonville s. l.
Portageville, MO(B)	U	U					Sharkey clay
Keiser, AR	UP	UP					Sharkey clay
Marianna, AR	U						Loring silt loam
Pine Tree, AR	U	U	U				Calloway silt loam
Rolling Fork, MS			U				Sharkey Clay
Stoneville, MS(B)	UP	UP	UP	UP			Sharkey clay
Rohwer, AR				U			Perry clay
WEST							
Walnut, KS	U	U					Kenoma silt loam
Pittsburg, KS	U	UP					Parsons silt loam
Chanute, KS	U						Parsons silt loam
Bixby, OK	UP	UP	UP				Reinach silt loam
Stuttgart, AR			U	UP			Crowley silt loam
Bossier City, LA			U	U	U		Latanier silt loam
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
EAST COAST	
Queenstown, MD	30 inches
Georgetown, DE	20 inches
Warsaw, VA	30 inches
Petersburg, VA	30 inches
Plymouth, NC	38 inches
Kinston, NC	38 inches
Jackson Springs, NC	38 inches
Florence, SC	38 inches
SOUTHEAST	
Blackville, SC(A)	38 inches
Blackville, SC(B)	38 inches
Tifton, GA	30 inches
Tallassee, AL	30 inches
Jay, FL	36 inches
Fairhope, AL	30 inches
Baton Rouge, LA	30 inches
UPPER & CENTRAL SOUTH	
Orange, VA	30 inches
Clemson, SC	38 inches
Calhoun, GA	30 inches
Athens, GA	30 inches
Plains, GA	30 inches
Belle Mina, AL	36 inches
Knoxville, TN	30 inches
Cora, IL	30 inches
Princeton, KY	30 inches
Martin, TN	38 inches
Jackson, TN	30 inches
Starkville, MS	30 inches
Suffolk, VA	20 inches
DELTA	
Portageville, MO(A)	30 inches
Portageville, MO(B)	30 inches
Keiser, AR	38 inches
Marianna, AR	38 inches
Jonesboro, AR	36 inches
Pine Tree, AR	36 inches
Stoneville, MS(B)	24 inches
Rolling Fork, MS	30 inches
Rohwer, AR	38 inches
WEST	
McCune, KS	30 inches
Pittsburg, KS	30 inches
Chanute, KS	30 inches
Bixby, OK	30 inches
Stuttgart, AR	32 inches
Bossier City, LA	40 inches
Beaumont, TX	30 inches

METHODS

Cultural Practices

Most uniform nurseries were planted in four-row plots with three replications. Two middle rows were harvested. The preliminary nurseries were planted similarly with two 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, Benning; and UVIII and PVIII, Cook.

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

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

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

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

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

Pest Assessment

Root-knot nematode. Screenings of strains of UIVS - UVIII were conducted in a greenhouse at the University of Georgia.

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

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

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

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

- 1 = < 10% of root system with small galls,
- 2 = 10-25% of root system galled with mostly small galls,
- 3 = 26-50% of root system galled with several large galls,
- 4 = 51-90% of root system galled with mostly large galls, 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* and *M. arenaria* were obtained from Dr. Robert A. Kinloch, University of Florida. The isolates of the nematodes used were different than those used by Dr. Roger Boerma at the University of Georgia.

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

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

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

Stem Canker

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

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

Statistical Analyses

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

UNIFORM GROUP IV-S**1997**

Uniform Group IV-S nurseries were planted at 19 locations. Data were obtained from 18 locations. The parentage for each strain is reported in Table 1. Table 2 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil, protein, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 3 - 8.

TABLE 1 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 1997

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSED
1. MANOKIN	L70-L3048 X D74-7824	F5
2. DELSOY 4710	L77-443 X L77-906	F5
3. KS4694	SHERMAN X TOANO	F5
4. KY91-1214	PIONEER 9391 X KY84-1616	F5
5. MD93-5298	MD87-5669 X EDISON	F5
6. MD93-5581	LS84-920 X MANOKIN	F5
7. MD92-5769	N85-578 X RIPLEY	F5
8. TN93-87	TN85-55 X TN82-268	
9. TN93-88	TN85-55 X TN82-268	
10. S94-2086	DELSOY X HARTWIG	F6
11. V92-840	A4595 X AVERY	F6
12. V91-2492	CHESAPEAKE X HUTCHESON	F5
13. V92-0995	HUTCHESON X FFR561	F5
14. V92-1333	CHESAPEAKE X HUTCHESON	F6
15. V90-798	HUTCHESON X P9441	F4

TABLE 2 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 1997.

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1997	96-97	95-97	1997	96-97	95-97	1997	96-97	95-97
MANOKIN	49.0	49.9	45.5	40.3	41.4	41.5	20.1	20.5	20.5
DELSOY 4710	44.7	44.6	40.8	40.2	41.3	41.5	20.2	20.5	20.3
KS4694	44.5	.	.	40.9	.	.	20.6	.	.
KY91-1214	48.1	49.0	.	40.5	41.3	.	20.7	21.1	.
MD93-5298	49.1	.	.	39.8	.	.	20.7	.	.
MD93-5581	42.7	.	.	41.8	.	.	19.5	.	.
MD92-5769	46.7	47.6	.	38.7	39.5	.	20.3	20.7	.
TN93-87	44.0	.	.	39.3	.	.	19.9	.	.
TN93-88	46.5	.	.	41.7	.	.	20.1	.	.
S94-2086	44.5	.	.	40.9	.	.	19.1	.	.
V92-840	46.0	.	.	41.2	.	.	20.3	.	.
V91-2492	46.2	47.0	.	41.4	42.2	.	20.3	20.3	.
V92-0995	44.0	.	.	42.5	.	.	19.5	.	.
V92-1333	47.9	.	.	42.3	.	.	19.3	.	.
V90-798	46.1	47.1	44.0	41.7	42.9	42.7	20.1	20.2	20.3

†Data from Martin, TN (1996); Orange, VA (1995) not included in mean.

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
MANOKIN	W	10/03	2	29	2	13.1	T	T
DELSOY 4710	P	5-	2	36	3	16.3	T	T
KS4694	W	7-	1	28	2	15.9	G	BR
KY91-1214	P	1-	1	33	2	14.8	T	T
MD93-5298	P	4-	2	36	2	12.9	T	T
MD93-5581	W	6-	2	27	2	14.7	T	T
MD92-5769	P	0	1	23	2	13.8	G	T
TN93-87	P	0	2	30	2	12.8	G	T
TN93-88	P	1-	2	29	2	14.4	T	T
S94-2086	W	3-	2	38	2	14.4	T	T
V92-840	W	3-	2	39	2	15.4	T	T
V91-2492	W	4-	2	34	2	14.5	G	T
V92-0995	W	3-	1	25	2	14.4	G	T
V92-1333	W	5-	1	34	2	14.2	G	T
V90-798	W	4-	2	34	2	14.2	G	T

TABLE 2 - Continued.

PEST REACTIONS					
STRAIN/ VARIETY	STEM CANKER	SCN 3	SCN 14	M. I. GA	M. a. GA
MANOKIN	R	1.0	4.9	1.3	2.8
DELSOY 4710	R	1.0	1.1	5.0	2.8
KS4694	S	4.1	3.4	5.0	3.3
KY91-1214	R	4.0	4.2	5.0	4.0
MD93-5298	R	4.4	3.7	5.0	3.3
MD93-5581	R	1.9	3.0	1.0	4.8
MD92-5769	S	4.0	3.6	5.0	5.0
TN93-87	R	4.2	4.1	5.0	4.3
TN93-88	R	3.5	4.3	4.8	4.5
S94-2086	R	1.4	1.0	5.0	2.0
V92-840	R	1.3	1.9	4.8	3.5
V91-2492	S	3.9	4.8	5.0	5.0
V92-0995	R	4.0	3.2	5.0	5.0
V92-1333	R	3.7	4.9	5.0	5.0
V90-798	R/S	2.9	4.7	5.0	4.5

See Methods section for description of rating scales.

TABLE 3 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1997.

EAST				
STRAIN/ VARIETY	GEORGETOWN DE	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	71.3	54.7	45.6	57.2
DELSOY 4710	71.4	60.9	45.4	59.2
KS4694	76.4	63.3	47.0	62.2
KY91-1214	78.5	64.9	45.3	62.9
MD93-5298	83.8	65.0	45.6	64.8
MD93-5581	72.0	53.5	43.2	56.2
MD92-5769	84.7	62.9	48.6	65.4
TN93-87	76.0	55.9	45.8	59.2
TN93-88	74.1	55.9	47.3	59.1
S94-2086	58.8	60.8	42.5	54.0
V92-840	73.6	54.2	43.9	57.2
V91-2492	82.4	62.5	48.8	64.6
V92-0995	81.2	61.3	46.1	62.9
V92-1333	83.6	60.9	44.6	63.0
V90-798	83.9	65.3	44.3	64.5
L. S. D. (0.05)	.	4.1	5.4	.
C. V. (%)	.	4.1	7.1	.

SOUTH							
STRAIN/ VARIETY	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARKVILLE MS	ULLIN IL	MEAN
MANOKIN	31.1	50.6	47.5	49.5	40.5	50.0	44.9
DELSOY 4710	25.9	42.9	48.7	50.9	30.1	50.3	41.5
KS4694	27.0	22.6	50.3	54.9	20.6	46.9	37.1
KY91-1214	27.1	55.6	55.4	56.0	23.3	43.4	43.5
MD93-5298	25.7	43.8	56.3	61.0	38.0	45.4	45.0
MD93-5581	28.8	35.9	39.2	50.2	37.3	46.1	39.6
MD92-5769	24.5	41.8	53.9	63.6	37.7	45.9	44.6
TN93-87	26.5	48.0	42.5	49.2	34.6	44.1	40.8
TN93-88	25.7	48.7	44.2	47.5	37.4	40.6	40.7
S94-2086	27.6	45.2	49.0	51.5	31.1	46.4	41.8
V92-840	26.5	51.4	45.8	51.2	30.4	48.9	42.4
V91-2492	28.7	25.8	50.3	57.5	30.6	54.4	41.2
V92-0995	30.0	46.0	49.1	55.1	36.4	47.4	44.0
V92-1333	26.8	45.3	51.1	54.2	31.2	45.0	42.3
V90-798	30.1	32.3	46.1	49.7	26.4	50.0	39.1
L. S. D. (0.05)	4.0	13.6	6.1	7.8	5.5	6.5	.
C. V. (%)	8.7	17.1	7.5	8.8	10.1	8.3	.

Table 3 - Continued.

DELTA							
STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PINETREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	50.0	54.8	59.8	43.5	50.4	57.3	52.6
DELSOY 4710	47.3	45.1	43.3	43.0	45.0	54.1	46.3
KS4694	56.5	47.0	52.2	45.4	48.9	50.9	50.2
KY91-1214	52.4	48.8	52.4	45.7	51.9	53.4	50.8
MD93-5298	59.8	50.9	51.4	44.0	53.2	55.2	52.4
MD93-5581	38.3	49.1	32.6	39.5	42.6	52.9	42.5
MD92-5769	47.4	55.3	28.3	40.5	48.0	52.8	45.4
TN93-87	49.4	44.3	47.9	34.8	45.3	56.8	46.4
TN93-88	51.8	54.2	59.7	43.0	50.8	56.9	52.7
S94-2086	48.1	40.5	52.6	45.3	45.2	47.6	46.6
V92-840	52.2	48.9	42.2	46.7	48.1	52.3	48.4
V91-2492	52.1	49.9	38.3	45.5	49.7	57.1	48.8
V92-0995	32.2	49.6	35.4	36.8	49.4	49.7	42.2
V92-1333	53.1	46.8	51.5	51.0	55.8	51.9	51.7
V90-798	49.7	52.2	47.9	40.5	56.5	51.0	49.6
L. S. D. (0.05)	6.8	5.2	13.4	8.0	6.6	5.5	.
C. V. (%)	8.2	6.3	17.3	11.5	8.2	6.2	.

WEST						
STRAIN/ VARIETY	BIXBY OK	CHANUTE KS	PITTSBURG KS	WALNUT KS	MEAN	
MANOKIN	44.9	50.8	34.8	43.6	43.5	
DELSOY 4710	38.1	40.0	26.9	40.3	36.3	
KS4694	29.3	48.5	22.7	35.8	34.1	
KY91-1214	42.8	51.0	27.7	37.5	39.8	
MD93-5298	39.2	51.2	25.7	37.3	38.3	
MD93-5581	37.3	42.2	32.3	38.9	37.7	
MD92-5769	37.7	51.6	24.0	38.5	38.0	
TN93-87	33.5	42.3	24.7	33.7	33.6	
TN93-88	40.3	43.6	29.2	32.6	36.4	
S94-2086	38.4	40.3	34.4	39.9	38.2	
V92-840	38.9	43.0	33.8	41.8	39.4	
V91-2492	38.5	40.4	29.9	35.1	36.0	
V92-0995	31.5	43.9	20.5	34.0	32.5	
V92-1333	40.5	43.9	31.4	40.9	39.2	
V90-798	36.6	45.8	29.5	38.6	37.6	
L. S. D. (0.05)	5.2	4.8	5.3	8.8	.	
C. V. (%)	8.3	6.4	11.1	13.9	.	

TABLE 4 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1997.

OIL PERCENTAGES

STRAIN/ VARIETY	BIXBY OK	CHANUTE KS	KNOXVILLE TN	MARTIN TN	ORANGE VA	PINETREE AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STARKVILLE MS	STONEVILLE MS	ULLIN IL	WALNUT KS	WARSAW VA	MEAN
MANOKIN	.	.	21.1	19.7	19.7	20.3	20.9	19.6	.	19.9	18.5	.	20.9	19.7	.	20.9	20.1
DELSOY 4710	.	.	20.6	19.0	22.4	20.3	20.3	20.3	.	19.4	18.5	.	19.5	21.1	.	20.6	20.2
KS4694	.	.	21.1	19.9	20.8	20.9	20.8	20.4	.	21.2	18.8	.	21.3	20.4	.	21.2	20.6
KY91-1214	.	.	20.9	20.7	20.8	21.4	21.0	20.4	.	20.7	19.6	.	20.6	19.9	.	21.3	20.7
MD93-5298	.	.	20.3	20.6	21.2	21.6	20.6	20.4	.	20.5	20.1	.	21.1	20.7	.	21.0	20.7
MD93-5581	.	.	20.5	18.3	21.1	19.3	19.5	18.9	.	19.1	18.9	.	20.1	18.7	.	20.0	19.5
MD92-5769	.	.	20.7	19.9	20.0	21.6	20.8	19.4	.	19.4	19.5	.	21.3	20.1	.	21.1	20.3
TN93-87	.	.	20.4	18.7	20.8	20.3	20.1	19.3	.	19.5	18.5	.	20.9	20.0	.	20.5	19.9
TN93-88	.	.	20.7	18.9	20.2	20.7	20.9	19.5	.	19.6	19.2	.	20.9	19.5	.	20.6	20.1
S94-2086	.	.	19.2	18.6	20.1	20.0	20.2	19.5	.	18.3	17.4	.	18.0	19.8	.	19.4	19.1
V92-840	.	.	20.0	20.4	21.5	20.8	21.4	20.0	.	20.0	18.6	.	19.4	21.0	.	20.2	20.3
V91-2492	.	.	21.4	19.2	20.3	20.6	20.4	19.5	.	20.8	19.6	.	20.7	20.2	.	21.1	20.3
V92-0995	.	.	19.1	18.3	20.5	20.0	19.6	19.1	.	19.6	18.0	.	20.2	19.4	.	20.4	19.5
V92-1333	.	.	19.4	17.9	20.7	18.8	19.4	18.4	.	20.1	17.8	.	20.2	18.8	.	20.8	19.3
V90-798	.	.	19.8	18.3	21.2	20.7	20.5	19.3	.	20.5	19.4	.	19.4	20.7	.	20.8	20.1

PROTEIN PERCENTAGES

STRAIN/ VARIETY	BIXBY OK	CHANUTE KS	KNOXVILLE TN	MARTIN TN	ORANGE VA	PINETREE AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STARKVILLE MS	STONEVILLE MS	ULLIN IL	WALNUT KS	WARSAW VA	MEAN
MANOKIN	.	.	40.0	41.5	36.8	41.8	38.9	40.7	.	39.9	41.7	.	41.0	40.8	.	40.0	40.3
DELSOY 4710	.	.	40.6	42.8	34.5	42.0	39.3	39.5	.	41.0	41.7	.	40.5	39.2	.	40.8	40.2
KS4694	.	.	41.0	40.9	38.9	41.4	41.3	40.1	.	40.0	43.0	.	39.2	42.5	.	41.4	40.9
KY91-1214	.	.	40.2	40.5	38.3	39.5	38.2	40.5	.	40.4	41.9	.	40.7	42.4	.	43.1	40.5
MD93-5298	.	.	41.2	41.1	36.6	40.2	39.6	39.5	.	39.5	39.7	.	38.9	41.7	.	40.3	39.8
MD93-5581	.	.	41.3	43.9	36.3	44.0	41.4	42.2	.	42.2	41.7	.	42.1	43.1	.	41.5	41.8
MD92-5769	.	.	39.8	39.7	36.4	38.3	37.4	38.3	.	38.0	40.4	.	37.6	41.1	.	38.9	38.7
TN93-87	.	.	40.0	41.7	35.0	40.9	38.0	39.3	.	38.0	41.0	.	39.5	40.0	.	39.4	39.3
TN93-88	.	.	42.4	45.5	37.5	43.3	38.6	41.5	.	40.3	42.6	.	42.1	42.9	.	41.5	41.7
S94-2086	.	.	41.5	43.2	37.9	40.0	39.5	40.0	.	40.4	42.4	.	41.2	41.7	.	42.5	40.9
V92-840	.	.	42.6	41.5	37.6	42.2	39.6	40.7	.	40.7	43.1	.	43.0	40.7	.	41.3	41.2
V91-2492	.	.	41.7	43.1	39.7	41.6	40.7	41.9	.	39.8	42.2	.	41.1	42.8	.	40.9	41.4
V92-0995	.	.	43.9	44.2	40.0	42.8	41.8	42.8	.	40.7	43.6	.	41.7	43.6	.	41.9	42.5
V92-1333	.	.	43.0	44.7	38.7	43.0	41.5	42.6	.	40.3	43.0	.	42.7	44.3	.	41.5	42.3
V90-798	.	.	42.9	44.3	37.6	41.6	41.0	41.5	.	39.9	42.7	.	42.5	42.8	.	41.4	41.7

TABLE 4 - Continued.

GRAMS PER 100 SEED

STRAIN/ VARIETY	BIXBY OK	CHANUTE KS	KNOXVILLE TN	MARTIN TN	ORANGE VA	PINETREE AR	PITTSBURG KS	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STARKVILLE MS	STONEVILLE MS	ULLIN IL	WALNUT KS	WARSAW VA	MEAN
MANOKIN	12.9	13.0	10.5	14	15.3	18.4	11.8	10.4	12.0	14.0	15.8	10.8	.	10.9	11.6	15.0	13.1
DELSOY 4710	15.6	17.1	13.1	17	16.3	21.2	14.1	14.3	16.8	18.0	20.2	12.5	.	13.6	15.8	18.2	16.3
KS4694	16.1	16.8	12.1	15	17.7	19.2	13.6	14.3	16.3	16.9	22.4	12.3	.	12.9	13.6	18.7	15.9
KY91-1214	15.3	15.8	10.0	16	17.0	17.6	11.5	12.7	15.2	16.5	19.5	12.7	.	11.9	12.7	17.7	14.8
MD93-5298	13.3	13.5	11.7	14	14.3	15.3	10.2	10.4	12.6	15.0	16.8	10.7	.	11.1	11.0	14.2	12.9
MD93-5581	15.8	14.4	10.5	14	16.4	19.5	13.0	12.1	15.6	16.9	17.6	12.8	.	13.1	12.2	17.3	14.7
MD92-5769	14.7	14.5	11.1	13	15.1	19.3	11.3	11.4	13.9	15.6	17.5	11.4	.	12.5	10.0	15.8	13.8
TN93-87	12.6	12.4	13.1	13	14.1	17.0	9.9	10.0	12.6	14.0	15.6	13.5	.	10.9	9.8	14.0	12.8
TN93-88	15.8	14.8	11.4	16	15.8	19.0	11.5	12.0	14.3	15.0	18.0	13.2	.	12.2	11.2	15.6	14.4
S94-2086	13.6	14.7	13.2	15	15.8	17.7	12.5	13.0	14.4	14.5	17.7	11.7	.	11.5	13.9	16.7	14.4
V92-840	16.6	15.7	12.2	16	18.0	17.4	13.9	14.3	14.7	16.9	20.1	11.3	.	13.4	12.8	17.7	15.4
V91-2492	16.4	14.6	11.9	14	15.6	17.9	12.3	12.7	13.9	15.1	19.1	11.5	.	12.9	12.6	17.0	14.5
V92-0995	13.4	15.9	12.0	15	16.1	20.3	10.8	13.2	14.1	14.5	18.3	11.8	.	12.7	10.8	17.0	14.4
V92-1333	15.5	15.2	12.1	15	15.4	17.2	11.9	12.1	14.1	14.1	18.1	11.7	.	12.2	12.6	15.0	14.2
V90-798	14.4	16.0	12.1	14	16.1	16.9	11.7	11.7	14.8	14.0	19.6	10.9	.	12.9	12.6	15.7	14.2

TABLE 5 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN MANOKIN FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1997.

EAST				
STRAIN/ VARIETY	GEORGETOWN DE	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	.	10/20	10/09	10/15
DELSOY 4710	.	-5	-4	-5
KS4694	.	-4	-4	-4
KY91-1214	.	-4	-2	-3
MD93-5298	.	-3	-1	-2
MD93-5581	.	-5	-4	-5
MD92-5769	.	3	0	1
TN93-87	.	4	1	2
TN93-88	.	-2	-1	-2
S94-2086	.	-3	-4	-4
V92-840	.	-2	-2	-2
V91-2492	.	-3	-4	-4
V92-0995	.	0	-2	-1
V92-1333	.	-5	-9	-8
V90-798	.	-4	-3	-4

SOUTH							
STRAIN/ VARIETY	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARKVILLE MS	ULLIN IL	MEAN
MANOKIN	09/23	09/30	10/20	10/18	09/03	10/02	10/01
DELSOY 4710	-5	-3	-12	-9	-11	-3	-7
KS4694	-11	-1	-11	-11	-19	-7	-10
KY91-1214	2	-3	-10	-8	-5	-1	-4
MD93-5298	-3	-3	-6	-6	-9	-4	-5
MD93-5581	-8	-3	-12	-5	-16	-4	-8
MD92-5769	-3	0	4	-2	-7	-1	-1
TN93-87	1	-3	2	4	-2	0	0
TN93-88	-1	-1	-1	-3	-6	-1	-2
S94-2086	-3	-1	-11	-5	-8	1	-5
V92-840	-1	-4	-2	-5	-11	-1	-4
V91-2492	-3	0	-10	-9	-10	-1	-5
V92-0995	-2	-1	-3	-3	-7	-2	-3
V92-1333	-2	0	-10	-11	-9	-2	-6
V90-798	-4	0	-10	-10	-11	-1	-6

TABLE 5 - Continued.

STRAIN/ VARIETY	DELTA						MEAN
	KEISER AR	MARIANNA AR	PINETREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
MANOKIN	09/28	09/22	09/30	09/30	10/02	09/17	09/26
DELSOY 4710	-8	-5	0	-8	-4	-7	-5
KS4694	-9	-11	-3	-9	-2	-12	-7
KY91-1214	1	5	0	2	3	2	3
MD93-5298	-5	-6	-4	-8	-3	-5	-5
MD93-5581	-7	-8	1	-10	-4	-7	-5
MD92-5769	0	0	1	-4	4	-1	0
TN93-87	0	-2	1	-6	0	-3	-1
TN93-88	0	-1	0	-2	-1	-3	-1
S94-2086	-6	-1	0	-3	-1	-4	-2
V92-840	-5	-4	-1	-2	-2	-6	-3
V91-2492	-5	-2	-2	-9	-3	-6	-4
V92-0995	-6	-8	-2	-10	-1	-7	-5
V92-1333	-5	-5	-3	-8	-2	-6	-4
V90-798	-5	-2	-2	-9	-1	-6	-4

TABLE 6 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1997.**EAST**

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MD	VA	
MANOKIN	34	30	27	30
DELSOY 4710	37	37	32	35
KS4694	27	31	28	28
KY91-1214	35	34	29	33
MD93-5298	35	40	31	35
MD93-5581	35	34	27	32
MD92-5769	30	24	22	25
TN93-87	38	32	31	34
TN93-88	38	33	30	33
S94-2086	38	41	36	38
V92-840	36	40	39	38
V91-2492	35	35	31	34
V92-0995	34	29	25	30
V92-1333	39	35	33	36
V90-798	38	36	31	35

SOUTH

STRAIN/ VARIETY	KNOXVILLE	MARTIN	ORANGE	PRINCETON	STARKVILLE	ULLIN	MEAN
	TN	TN	VA	KY	MS	IL	
MANOKIN	28	29	39	39	22	27	31
DELSOY 4710	37	33	44	38	24	37	36
KS4694	29	27	35	34	19	31	29
KY91-1214	31	36	39	35	23	30	32
MD93-5298	36	38	39	36	29	37	36
MD93-5581	32	29	33	36	21	25	29
MD92-5769	26	23	29	32	20	20	25
TN93-87	31	30	39	37	23	24	31
TN93-88	31	31	36	35	25	27	31
S94-2086	38	40	44	42	26	42	39
V92-840	39	41	48	45	32	43	41
V91-2492	37	37	37	34	28	37	35
V92-0995	30	24	35	32	20	24	28
V92-1333	36	35	40	34	25	33	34
V90-798	37	34	37	34	24	36	34

TABLE 6 - Continued.

DELTA							
STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PINETREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	23	26	23	27	27	21	25
DELSOY 4710	36	37	33	36	31	29	34
KS4694	25	31	28	28	27	22	27
KY91-1214	38	38	33	34	31	35	35
MD93-5298	40	41	34	40	33	36	37
MD93-5581	19	20	19	27	22	17	21
MD92-5769	18	20	14	21	19	18	18
TN93-87	26	24	18	26	27	23	24
TN93-88	25	26	22	29	26	20	25
S94-2086	37	41	44	37	34	33	38
V92-840	39	40	39	40	28	34	37
V91-2492	36	39	31	33	32	33	34
V92-0995	19	21	17	24	21	16	20
V92-1333	39	39	35	31	33	32	35
V90-798	37	38	32	33	31	34	34

WEST						
STRAIN/ VARIETY	BIXBY OK	CHANUTE KS	PITTSBURG KS	WALNUT KS	MEAN	
MANOKIN	31	37	31	32	33	
DELSOY 4710	38	38	38	41	39	
KS4694	25	30	25	32	28	
KY91-1214	33	35	32	35	34	
MD93-5298	38	39	31	35	36	
MD93-5581	27	32	26	31	29	
MD92-5769	20	26	22	25	23	
TN93-87	30	36	31	34	33	
TN93-88	27	36	28	32	31	
S94-2086	39	40	38	43	40	
V92-840	40	42	39	41	41	
V91-2492	30	36	31	35	33	
V92-0995	23	27	21	26	24	
V92-1333	32	35	32	37	34	
V90-798	35	35	31	36	34	

TABLE 7 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1997.

EAST				
STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MD	VA	
MANOKIN	1	4	2	2
DELSOY 4710	2	3	1	2
KS4694	2	2	1	2
KY91-1214	2	3	1	2
MD93-5298	2	3	2	2
MD93-5581	2	3	2	2
MD92-5769	1	2	1	1
TN93-87	2	4	2	3
TN93-88	2	4	2	3
S94-2086	2	3	2	2
V92-840	2	4	2	3
V91-2492	2	3	2	2
V92-0995	1	2	1	1
V92-1333	2	2	1	2
V90-798	2	2	1	2

SOUTH							
STRAIN/ VARIETY	KNOXVILLE	MARTIN	ORANGE	PRINCETON	STARKVILLE	ULLIN	MEAN
	TN	TN	VA	KY	MS	IL	
MANOKIN	2	2	3	3	1	1	2
DELSOY 4710	2	2	2	2	1	1	2
KS4694	1	2	1	1	1	1	1
KY91-1214	2	1	1	1	1	1	1
MD93-5298	2	2	1	2	2	1	2
MD93-5581	2	1	2	3	1	1	2
MD92-5769	1	1	1	2	1	1	1
TN93-87	2	1	3	3	2	1	2
TN93-88	3	1	3	3	1	1	2
S94-2086	2	2	2	2	1	2	2
V92-840	2	2	2	2	1	1	2
V91-2492	2	5	1	1	2	1	2
V92-0995	2	1	1	1	1	1	1
V92-1333	2	2	2	1	1	1	2
V90-798	2	4	1	1	1	1	2

TABLE 7 - Continued.

DELTA							
STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PINETREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	1	1	1	1	1	2	1
DELSOY 4710	1	2	2	1	1	3	2
KS4694	1	2	1	1	1	2	1
KY91-1214	1	1	1	1	1	2	1
MD93-5298	1	2	1	1	1	3	2
MD93-5581	1	1	1	1	1	2	1
MD92-5769	1	1	1	1	1	2	1
TN93-87	1	1	1	1	1	2	1
TN93-88	1	1	1	1	1	2	1
S94-2086	1	2	2	1	1	3	2
V92-840	2	2	2	2	2	2	2
V91-2492	1	2	1	1	1	3	2
V92-0995	1	1	1	1	1	2	1
V92-1333	2	2	1	1	1	3	2
V90-798	1	1	1	1	1	2	1

WEST					
STRAIN/ VARIETY	BIXBY OK	CHANUTE KS	PITTSBURG KS	WALNUT KS	MEAN
MANOKIN	1	2	2	3	2
DELSOY 4710	3	1	2	3	2
KS4694	.	1	1	1	1
KY91-1214	.	1	1	1	1
MD93-5298	1	1	1	1	1
MD93-5581	1	2	1	3	2
MD92-5769	.	1	1	1	1
TN93-87	3	3	2	3	3
TN93-88	1	3	1	2	2
S94-2086	3	1	1	2	2
V92-840	3	1	1	2	2
V91-2492	1	1	1	2	1
V92-0995	.	1	1	1	1
V92-1333	.	1	1	2	1
V90-798	2	1	1	2	2

TABLE 8 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1997.

EAST				
STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MD	VA	
MANOKIN	1	1	2	1
DELSOY 4710	1	2	3	2
KS4694	1	1	2	1
KY91-1214	1	1	2	1
MD93-5298	1	1	2	1
MD93-5581	1	1	2	1
MD92-5769	1	1	2	1
TN93-87	1	1	2	1
TN93-88	1	1	2	1
S94-2086	1	1	2	1
V92-840	1	1	2	1
V91-2492	1	1	2	1
V92-0995	1	1	2	1
V92-1333	1	1	2	1
V90-798	1	1	2	1

SOUTH							
STRAIN/ VARIETY	KNOXVILLE	MARTIN	ORANGE	PRINCETON	STARKVILLE	ULLIN	MEAN
	TN	TN	VA	KY	MS	IL	
MANOKIN	2	2	1	3	2	1	2
DELSOY 4710	3	3	1	4	4	2	3
KS4694	3	3	1	1	4	2	2
KY91-1214	1	2	1	2	3	2	2
MD93-5298	1	2	1	1	4	2	2
MD93-5581	1	1	1	3	3	2	2
MD92-5769	1	1	1	2	2	2	2
TN93-87	2	1	1	3	3	2	2
TN93-88	3	2	1	3	3	2	2
S94-2086	2	3	1	2	3	1	2
V92-840	2	2	1	3	3	2	2
V91-2492	2	3	1	2	3	1	2
V92-0995	2	1	1	2	2	1	2
V92-1333	2	1	1	1	3	1	2
V90-798	2	2	1	2	4	1	2

TABLE 8 - Continued.

DELTA					
STRAIN/ VARIETY	PINETREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	2	2	2	2	2
DELSOY 4710	4	2	3	2	3
KS4694	2	2	2	2	2
KY91-1214	2	2	2	2	2
MD93-5298	2	2	2	2	2
MD93-5581	2	2	2	2	2
MD92-5769	3	2	2	2	2
TN93-87	3	2	2	2	2
TN93-88	2	2	1	2	2
S94-2086	3	2	2	2	2
V92-840	4	2	2	2	3
V91-2492	3	2	2	2	2
V92-0995	3	2	2	2	2
V92-1333	2	2	2	2	2
V90-798	3	2	2	2	2

WEST				
STRAIN/ VARIETY	CHANUTE KS	PITTSBURG KS	WALNUT KS	MEAN
MANOKIN	2	3	2	2
DELSOY 4710	4	4	3	4
KS4694	3	3	2	3
KY91-1214	2	2	2	2
D93-5298	3	2	2	2
MD93-5581	3	3	2	3
MD92-5769	3	2	2	2
TN93-87	3	2	2	2
TN93-88	2	2	2	2
S94-2086	3	3	2	3
V92-840	3	2	2	2
V91-2492	3	2	2	2
V92-0995	2	2	2	2
V92-1333	3	3	2	3
V90-798	3	3	2	3

PRELIMINARY GROUP IV-S**1997**

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

**TABLE 9 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S,
1997.**

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 X D74-7824	F5
2. DELSOY 4710	L77-433 X L77-906	F5
3. KS4694	SHERMAN X TOANO	
4. LS94-0125	PHARAOH X LINFORD	
5. LS94-3166	PHARAOH X HARTWIG	
6. LS94-3207	PHARAOH X HARTWIG	
7. LS94-3943	PIONEER 9531 X EGYPTIAN	F6
8. LS94-2644	PHARAOH X HUTCHESON	F6
9. LS94-3223	PHARAOH X HARTWIG	F6
10. MD94-5332	CLIFFORD X CORSICA	F5
11. MD94-5396	RIPLEY X CLIFFORD	F5
12. MD94-5362	CLIFFORD X SPRY	F5
13. MD94-5218	LS83-5616 X WICOMICO	F5
14. R95-584	PIO 9442 X ASG A4393	
15. R95-3235	MANOKIN X KS4895	
16. TN94-257	N84-507 X LS83-8300	
17. TN95-53	TN4-86 X KUNITZ	
18. TN95-14	TN4-86 X KUNITZ	
19. TN95-95	TN4-86 X KUNITZ	
20. V93-2329	V84-1787 X V85-5344	F5
21. K1387	KS5292 X KS4694	F5
22. K1388	DELSOY 4500 X ASGROW A5403	F5
23. K1389	DELSOY 4500 X ASGROW A5403	F5
24. K1390	DELSOY 4500 X ASGROW A5403	F5
25. K1391	MANOKIN X HC85-618	F5

TABLE 10 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP IV-S, 1997 - MEAN OF 9 LOCATIONS.

STRAIN/ VARIETY	SEED	MAT.	LODGING	HEIGHT	QUALITY	SEED	----PERCENT----		STEM	SCN	SCN	M. i .	M. a .
	YIELD	INDEX				SIZE	PROTEIN	OIL	CANKER	3	14	TN	TN
MANOKIN	47.8	10/05	2	27	2	13.0	40.9	20.3	R	1.3	4.7	2.7	1.3
DELSOY 4710	46.4	3-	2	35	3	16.1	40.7	19.7	R	1.0	1.3	4.0	4.8
KS4694	46.2	5-	1	28	2	16.5	41.2	20.7	S	4.0	3.4	4.3	2.3
LS94-0125	44.7	4-	2	26	3	15.7	41.8	21.4+	R	3.0	2.8	3.3	3.8
LS94-3166	45.2	5-	2	25	2	13.1	41.0	20.1	R	1.0	4.0	2.7	2.0
LS94-3207	46.0	4-	2	25	3	13.2	41.0	20.2	R	1.0	1.4	2.5	2.8
LS94-3943	48.3	0	2	31	2	12.1	43.3+	18.2-	S	1.8	2.0	3.0	3.8
LS94-2644	47.5	2-	1	27	2	13.5	39.6-	20.7	R	1.0	3.5	1.7	3.8
LS94-3223	45.3	0	2	27	2	12.3	41.4	19.9	R/S	1.0	2.9	3.5	4.0
MD94-5332	50.8	0	1	25	2	18.1	41.9	20.5	R	5.0	4.4	3.3	4.2
MD94-5396	52.0	1+	1	28	2	13.2	40.5	20.0	R	5.0	3.3	3.4	4.3
MD94-5362	45.1	2-	1	22	3	14.7	42.6+	19.7	S	5.0	3.1	4.2	4.3
MD94-5218	45.7	0	1	28	2	13.0	42.4+	19.5-	S	1.4	4.1	3.7	4.7
R95-584	46.4	7-	1	28	3	15.2	41.9	21.1+	S	4.7	4.0	4.2	4.0
R95-3235	48.5	1-	1	25	2	11.9	41.7	19.6	R	4.8	3.6	3.3	3.2
TN94-257	45.0	3+	1	29	2	13.1	41.2	19.7	R	5.0	3.7	5.0	4.0
TN95-53	46.7	1-	1	33	2	15.4	41.3	20.9	R	5.0	3.9	4.0	4.0
TN95-14	44.7	3-	1	37	2	13.2	42.1+	20.3	R	2.3	2.3	4.4	4.0
TN95-95	46.2	2-	2	35	2	14.7	41.9	20.5	R	5.0	4.1	4.2	4.0
V93-2329	47.3	1-	1	23	2	12.6	44.4+	19.4-	S	1.7	1.5	3.3	4.0
K1387	46.3	4+	1	28	2	12.9	42.7+	20.0	S	4.8	2.4	3.8	4.0
K1388	45.4	2+	1	28	2	13.2	42.5+	19.0-	R	2.2	1.2	3.0	4.3
K1389	44.5	0	1	27	2	12.6	41.5	19.6	R	2.4	1.6	4.3	4.3
K1390	47.3	0	2	27	2	14.1	41.7	20.2	R	1.8	1.6	3.8	4.0
K1391	50.1	3+	2	30	2	12.9	40.4	20.2	R	4.7	3.8	3.3	4.0
OVERALL MEAN	46.8						41.7	20.1					
L. S. D. (.05)	4.6						1.1	0.8					
C. V.	9%						2%	2%					

TABLE 11 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S. 1997.

STRAIN/ VARIETY	BIXBY OK	KEISER AR	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	42.7	49.8	47.3	46.9	49.6	42.6	55.2	51.3	44.6	47.8
DELSOY 4710	37.9	51.5	40.0-	46.8	53.2	47.8	50.0	44.2	46.6	46.4
KS4694	34.8	57.6	38.6-	41.8	45.9	53.2+	50.5	46.0	47.7	46.2
LS94-0125	40.7	44.5	39.0-	39.5	57.8+	48.6	39.2-	47.2	45.8	44.7
LS94-3166	36.2	46.4	43.3	41.4	50.8	51.4+	48.1	44.2	44.7	45.2
LS94-3207	38.3	40.8	42.8	46.8	55.0	48.9	47.9	53.5	40.0	46.0
LS94-3943	46.8	53.9	45.3	45.9	49.1	44.4	57.1	46.9	45.4	48.3
LS94-2644	40.6	47.3	44.0	47.5	53.9	48.4	49.8	49.0	46.7	47.5
LS94-3223	36.8	36.7-	42.5	42.2	50.6	47.6	48.2	47.4	55.5+	45.3
MD94-5332	39.4	46.2	52.3+	38.9	62.9+	57.2+	56.2	48.1	55.8+	50.8
MD94-5396	47.2	57.8	48.3	47.6	61.1+	50.8+	52.7	48.2	54.3+	52.0
MD94-5362	45.2	53.4	45.1	34.0	45.6	45.7	47.8	41.3	48.2	45.1
MD94-5218	39.1	50.0	45.9	44.2	50.0	43.6	48.9	45.9	43.3	45.7
R95-584	36.9	52.1	40.0-	43.6	54.3	48.4	55.1	39.9	47.1	46.4
R95-3235	45.4	54.3	48.6	46.2	53.6	46.7	53.9	44.2	43.6	48.5
TN94-257	41.6	52.9	49.0	43.4	37.4-	37.6	52.4	47.9	42.8	45.0
TN95-53	39.9	52.7	45.5	40.9	53.8	52.3+	46.5	42.7	46.4	46.7
TN95-14	40.7	49.9	41.5-	46.2	52.0	46.8	50.4	35.8	39.2	44.7
TN95-95	38.5	49.2	45.5	41.1	52.4	48.7	55.4	42.9	42.2	46.2
V93-2329	50.9	50.7	50.6	45.8	47.2	43.8	39.3-	50.5	47.3	47.3
K1387	46.5	48.9	51.2	41.3	46.3	43.7	50.6	40.1	47.7	46.3
K1388	46.0	50.2	46.4	41.4	54.3	41.8	37.9-	41.8	49.1	45.4
K1389	46.4	47.7	49.9	44.5	52.1	40.7	34.8-	38.2	45.8	44.5
K1390	44.6	48.4	45.5	42.7	51.6	45.7	47.7	49.3	50.2	47.3
K1391	47.5	53.7	48.3	47.4	58.7+	46.6	55.2	43.8	49.5	50.1
L. S. D. (0.05)	6.5	10.9	4.9	5.7	7.7	7.3	14.8	11.3	9.2	4.6
C. V. (%)	9.4	10.6	5.3	6.4	6.9	7.5	14.5	12.1	9.1	9.3

TABLE 12 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1997.

STRAIN/ VARIETY	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	20.7	19.7	19.7	19.3	20.6	21.0	20.9	20.3
DELSOY 4710	20.2	20.1	18.8	18.7	19.3	20.9	20.0	19.7
KS4694	20.9	21.0	19.9	20.1	21.1	20.9	20.8	20.7
LS94-0125	21.6	20.6	23.9	20.1	21.5	20.8	21.6	21.4
LS94-3166	20.1	20.0	20.5	18.9	20.7	19.6	20.9	20.1
LS94-3207	20.0	20.2	20.2	19.8	20.5	19.8	20.9	20.2
LS94-3943	18.6	18.3	18.4	16.8	18.2	18.5	18.7	18.2
LS94-2644	20.9	20.7	20.4	19.6	21.7	20.7	20.6	20.7
LS94-3223	20.0	19.3	20.4	19.5	19.5	19.6	21.3	19.9
MD94-5332	21.2	19.8	20.4	19.3	21.2	20.8	20.6	20.5
MD94-5396	20.2	20.2	19.6	18.5	20.6	20.5	20.2	20.0
MD94-5362	20.4	19.6	19.2	18.4	20.2	19.9	20.1	19.7
MD94-5218	20.1	19.1	19.4	18.8	19.2	19.5	20.2	19.5
R95-584	20.7	21.4	21.4	20.3	21.4	21.8	20.9	21.1
R95-3235	20.5	18.9	19.6	17.9	20.1	20.1	20.3	19.6
TN94-257	20.4	20.2	19.3	18.1	20.5	19.5	19.7	19.7
TN95-53	21.0	21.0	20.8	19.7	21.0	21.6	21.5	20.9
TN95-14	20.8	20.4	19.7	19.4	20.2	20.4	21.4	20.3
TN95-95	20.7	20.0	20.8	20.7	19.9	20.3	21.3	20.5
V93-2329	20.0	19.0	19.7	18.2	18.9	19.0	20.9	19.4
K1387	20.5	19.9	20.5	18.4	20.1	20.0	20.7	20.0
K1388	19.6	19.1	18.8	18.2	19.4	18.6	19.5	19.0
K1389	20.1	18.8	19.7	18.1	20.2	19.6	20.4	19.6
K1390	20.3	20.0	19.9	18.5	20.9	21.1	20.7	20.2
K1391	20.7	20.2	19.7	19.0	20.5	20.4	21.1	20.2

TABLE 13 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1997.

STRAIN/ VARIETY	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW	MEAN
MANOKIN	39.9	40.6	41.6	43.0	41.3	40.4	39.5	40.9
DELSOY 4710	40.4	39.9	41.5	41.5	40.9	40.8	40.2	40.7
KS4694	41.1	40.2	41.4	41.5	40.6	41.9	41.5	41.2
LS94-0125	40.3	42.5	42.0	41.8	43.2	42.4	40.7	41.8
LS94-3166	40.8	41.3	38.6	41.7	42.0	42.2	40.4	41.0
LS94-3207	41.7	41.4	38.5	40.7	42.2	42.2	40.4	41.0
LS94-3943	42.1	42.2	42.3	44.6	44.6	45.0	42.2	43.3
LS94-2644	38.5	39.4	38.1	40.1	39.9	41.2	40.3	39.6
LS94-3223	41.1	42.1	39.4	41.6	42.9	43.4	39.0	41.4
MD94-5332	40.8	42.8	40.3	42.8	42.4	42.8	41.6	41.9
MD94-5396	40.9	40.4	39.4	41.9	40.5	41.0	39.4	40.5
MD94-5362	41.9	42.5	42.3	43.3	42.0	44.0	42.3	42.6
MD94-5218	42.1	42.4	40.9	42.5	43.8	43.4	41.4	42.4
R95-584	42.5	41.4	40.3	41.5	41.7	43.0	43.0	41.9
R95-3235	41.1	41.5	39.2	43.2	42.2	42.8	41.6	41.7
TN94-257	40.3	40.5	40.7	42.6	40.8	42.8	40.5	41.2
TN95-53	40.2	41.0	41.3	41.5	41.2	42.5	41.7	41.3
TN95-14	41.2	41.2	42.7	42.9	42.1	43.1	41.5	42.1
TN95-95	41.7	42.3	40.5	41.9	42.2	43.7	41.2	41.9
V93-2329	43.6	44.6	42.9	45.5	46.0	45.3	42.9	44.4
K1387	42.0	41.8	40.8	43.5	44.0	44.4	42.1	42.7
K1388	42.2	41.6	43.0	42.9	41.9	43.1	42.9	42.5
K1389	40.9	40.8	40.9	43.3	40.8	42.3	41.2	41.5
K1390	41.2	41.8	41.1	43.5	41.2	41.5	41.6	41.7
K1391	40.0	39.8	40.6	41.4	40.5	41.2	39.6	40.4

TABLE 14 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP PIV-S, 1997.

STRAIN/ VARIETY	BIXBY OK	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	ULLIN IL	WARSAW VA	MEAN
MANOKIN	12.8	14.0	10.8	15.8	13.0	11.7	13.0	13.0
DELSOY 4710	17.4	17.4	14.6	14.7	17.5	13.8	17.5	16.1
KS4694	17.0	16.4	14.4	18.8	19.8	12.7	16.8	16.5
LS94-0125	16.9	16.4	13.9	17.1	16.7	13.7	15.6	15.7
LS94-3166	14.4	13.0	11.4	13.9	14.9	10.6	13.6	13.1
LS94-3207	14.7	14.1	11.3	13.2	13.6	11.6	13.9	13.2
LS94-3943	13.6	12.7	10.2	13.0	12.2	10.2	12.5	12.1
LS94-2644	14.3	14.6	11.9	14.0	14.3	12.3	13.2	13.5
LS94-3223	13.0	12.6	11.0	13.0	13.0	10.0	13.2	12.3
MD94-5332	19.3	19.7	14.4	20.0	18.9	15.5	19.2	18.1
MD94-5396	14.1	13.8	11.2	14.5	13.7	12.4	13.1	13.2
MD94-5362	15.7	15.7	11.9	16.0	15.4	12.7	15.4	14.7
MD94-5218	12.6	13.9	11.1	14.5	14.2	11.0	13.6	13.0
R95-584	15.2	16.4	13.1	17.5	15.5	12.7	15.9	15.2
R95-3235	12.6	12.0	9.4	12.1	13.5	10.9	13.0	11.9
TN94-257	12.2	15.2	11.3	14.0	13.0	12.6	13.8	13.1
TN95-53	16.3	16.5	12.9	17.9	16.3	12.6	15.4	15.4
TN95-14	14.0	13.3	11.2	14.0	15.0	11.2	13.9	13.2
TN95-95	14.6	14.6	12.9	16.5	16.2	12.7	15.7	14.7
V93-2329	12.0	13.3	10.8	14.0	14.1	11.3	12.8	12.6
K1387	13.9	14.6	11.4	13.3	13.4	10.8	13.0	12.9
K1388	13.2	13.9	11.0	15.0	14.3	10.6	14.1	13.2
K1389	12.5	14.0	10.4	14.0	13.2	10.6	13.4	12.6
K1390	14.9	14.8	12.0	14.9	15.5	11.4	15.2	14.1
K1391	13.7	13.7	10.8	15.0	13.2	10.4	13.6	12.9

TABLE 15 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1997.

STRAIN/ VARIETY	BIXBY OK	KEISER AR	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	23	24	35	27	33	28	20	25	28	27
DELSOY 4710	35	32	41	34	38	34	32	34	35	35
KS4694	21	25	32	32	31	28	22	32	29	28
LS94-0125	22	21	30	27	36	27	21	23	25	26
LS94-3166	24	19	32	30	34	27	14	22	25	25
LS94-3207	24	22	33	29	34	26	19	21	22	25
LS94-3943	27	29	40	32	36	31	25	29	32	31
LS94-2644	20	25	30	30	36	27	20	25	28	27
LS94-3223	23	19	35	30	38	27	18	28	29	27
MD94-5332	21	24	30	22	35	26	20	22	24	25
MD94-5396	27	24	33	30	36	27	22	27	28	28
MD94-5362	22	18	30	22	25	22	20	20	22	22
MD94-5218	28	22	36	34	36	29	18	26	27	28
R95-584	27	32	30	30	27	27	26	30	28	28
R95-3235	24	19	32	27	33	24	18	21	25	25
TN94-257	26	24	35	31	32	29	24	32	30	29
TN95-53	32	38	38	34	37	34	28	33	29	33
TN95-14	39	39	39	40	36	33	35	38	35	37
TN95-95	38	39	39	35	34	34	30	36	32	35
V93-2329	19	18	28	25	30	20	20	24	22	23
K1387	24	22	36	31	36	29	19	27	27	28
K1388	25	21	33	30	36	29	22	28	29	28
K1389	27	23	33	30	31	26	19	25	28	27
K1390	27	25	32	27	33	28	20	26	28	27
K1391	27	26	34	29	35	27	28	33	29	30

TABLE 16 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1997.

STRAIN/ VARIETY	BIXBY OK	KEISER AR	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	0	1	3	1	3	4	2	1	2	2
DELSOY 4710	1	1	2	1	1	3	3	1	3	2
KS4694	0	1	1	1	1	2	2	1	2	1
LS94-0125	1	1	2	1	2	3	2	1	3	2
LS94-3166	2	1	2	1	1	3	2	1	2	2
LS94-3207	0	1	2	2	3	3	2	1	2	2
LS94-3943	1	1	2	1	3	4	2	1	3	2
LS94-2644	0	1	2	1	2	2	2	1	1	1
LS94-3223	0	1	2	1	3	2	2	1	3	2
MD94-5332	0	1	1	1	1	2	2	1	2	1
MD94-5396	0	1	1	1	2	2	2	1	2	1
MD94-5362	1	1	1	1	2	3	2	1	2	1
MD94-5218	0	1	1	1	2	2	2	1	2	1
R95-584	0	1	1	1	1	2	2	1	2	1
R95-3235	0	1	1	1	2	2	2	1	1	1
TN94-257	0	1	1	1	2	2	2	1	2	1
TN95-53	0	1	1	1	2	3	3	1	1	1
TN95-14	1	2	1	1	1	2	3	1	2	1
TN95-95	1	3	2	1	1	3	3	1	2	2
V93-2329	1	1	1	1	3	2	2	1	1	1
K1387	0	1	1	1	3	2	2	1	2	1
K1388	0	1	1	1	2	2	2	1	2	1
K1389	0	1	1	1	1	2	2	1	2	1
K1390	0	1	1	1	2	3	2	1	3	2
K1391	1	1	2	1	2	3	2	1	3	2

TABLE 17 - SEED QUALITY FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1997.

STRAIN/ VARIETY	MCCUNE KS	PORTAGEVILLE MO(A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	3	2	3	2	2	2	2	2
DELSOY 4710	4	2	4	2	2	2	3	3
KS4694	3	2	2	2	2	3	3	2
LS94-0125	3	2	3	2	2	3	3	3
LS94-3166	2	2	4	2	2	3	2	2
LS94-3207	3	2	3	2	2	3	3	3
LS94-3943	2	2	3	2	2	1	2	2
LS94-2644	2	2	2	2	2	2	2	2
LS94-3223	3	2	3	2	2	2	3	2
MD94-5332	3	2	2	2	2	3	2	2
MD94-5396	2	2	1	1	2	1	2	2
MD94-5362	4	2	4	3	2	2	2	3
MD94-5218	3	2	2	2	2	2	2	2
R95-584	4	2	2	2	2	3	3	3
R95-3235	3	2	2	1	2	2	2	2
TN94-257	2	2	3	2	2	1	2	2
TN95-53	2	1	3	2	2	2	2	2
TN95-14	2	2	3	2	2	3	2	2
TN95-95	2	1	3	2	2	1	3	2
V93-2329	3	2	2	1	2	2	2	2
K1387	3	2	3	2	2	1	2	2
K1388	2	2	3	2	2	1	2	2
K1389	2	2	2	2	2	1	2	2
K1390	3	2	2	2	2	2	2	2
K1391	3	2	2	2	2	1	2	2

UNIFORM GROUP V**1997**

Uniform Group V nurseries were planted at 26 locations. Data were obtained from 25 of these locations. The parentage for each strain is reported in Table 18. Table 19 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 20 - 25.

TABLE 18 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 1997 .

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	F5
2. MANOKIN	L70-L3048 X D74-7824	F5
3. J94-7	HARTWIG X HOLLADAY	
4. MD93-5634	K1173 X CORSICA	F5
5. MD93-5668	K1173 X CORSICA	F5
6. R92-1294	HUTCHESON X WALTERS	
7. R93-171	ASG A5403 X HUTCHESON	
8. N93-54	N85-67 X HOLLADAY	F6
9. N94-546	COOK X CLIFFORD	F6
10. N94-208	HOLLADAY(2) X (N87-2122-4 X N89-3095)	F6
11. TN93-74	TN84-21 X TN85-42	
12. TN93-99	HUTCHESON X (TN85-55 X TN5-85)	
13. S94-1956	N85-578 X HARTWIG	F5
14. S94-1867	P9592 X S91-1693	
15. S94-1873	P9592 X S91-1693	F5
16. NTCPR94-5483	N77-179 X FORREST	
17. NTCPR94-5237	YOUNG X N73-1102	
18. V90-1012	HUTCHESON X (FFR561 X TOANO)	F5
19. V91-3036	HUTCHESON X V84-1790	F5
20. V92-0254	HUTCHESON X V83-2298	F5
21. V92-0974	HUTCHESON X FFR561	F5
22. K1360	TOANO X CORSICA	F5
23. K1361	P6917-29 X TOANO	F5
24. K1364	RHODES X HOLLADAY	F5
25. K1366	RHODES X HOLLADAY	F5
26. OK89-5602	ESSEX X SOHOMA	

TABLE 19 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 1997.

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1997	96-97	95-97	1997	96-97	95-97	1997	96-97	95-97
HUTCHESON	49.1	49.9	46.8	40.5	41.3	41.3	20.8	21.1	21.1
MANOKIN	48.7	48.6	44.4	40.2	41.3	41.3	20.4	20.9	20.8
J94-7	47.0	.	.	39.8	.	.	19.2	.	.
MD93-5634	48.8	.	.	42.5	.	.	19.9	.	.
MD93-5668	49.2	.	.	42.4	.	.	20.0	.	.
R92-1294	49.9	50.4	.	40.6	41.4	.	20.5	20.8	.
R93-171	50.9	.	.	41.5	.	.	20.2	.	.
N93-54	48.3	48.1	.	42.1	42.5	.	19.4	20.0	.
N94-546	48.0	.	.	41.9	.	.	19.5	.	.
N94-208	46.8	.	.	40.5	.	.	20.4	.	.
TN93-74	46.3	.	.	43.4	.	.	19.4	.	.
TN93-99	51.8	.	.	41.0	.	.	21.0	.	.
S94-1956	52.1	.	.	41.1	.	.	20.1	.	.
S94-1867	48.0	.	.	40.9	.	.	19.3	.	.
S94-1873	48.3	.	.	40.9	.	.	19.3	.	.
NTCPR94-5483	47.9	49.1	.	41.7	42.0	.	19.6	20.3	.
NTCPR94-5237	47.9	.	.	41.6	.	.	20.2	.	.
V90-1012	50.6	50.4	47.4	41.1	41.5	41.6	21.0	21.2	21.1
V91-3036	50.8	50.2	.	42.2	42.5	.	19.5	20.0	.
V92-0254	50.5	.	.	41.1	.	.	20.9	.	.
V92-0974	49.4	.	.	42.6	.	.	18.9	.	.
K1360	47.4	.	.	41.9	.	.	19.8	.	.
K1361	49.2	.	.	41.6	.	.	20.4	.	.
K1364	48.7	.	.	42.1	.	.	20.3	.	.
K1366	47.1	.	.	39.6	.	.	20.0	.	.
OK89-5602	44.5	44.3	42.0	44.0	44.1	44.0	19.3	19.7	20.0

†Data from Pinetree, AR; Suffolk, VA (1997); Martin, TN, Suffolk, VA (1996); Georgetown, DE (1995) not included in mean.

TABLE 19 - Continued.

BOTANICAL TRAITS								
STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
HUTCHESON	W	10/07	1	28	2	14.3	G	T
MANOKIN	W	5-	2	29	2	13.4	T	T
J94-7	W	0	2	30	2	13.0	T	T
MD93-5634	P	3-	1	33	2	15.1	G	T
MD93-5668	P	1-	1	38	2	16.2	G	T
R92-1294	W	2+	2	32	2	14.1	T	T
R93-171	W	1+	2	30	2	14.3	G	T
N93-54	P	1+	2	30	2	14.2	G	BR
N94-546	P	0	2	28	2	14.6	T	T
N94-208	P	3-	2	26	2	15.1	G	T
TN93-74	P	2-	2	26	2	13.0	G	T
TN93-99	W	2+	2	29	2	14.6	G	T
S94-1956	P	0	1	26	2	13.8	T	T
S94-1867	P	4+	2	40	2	15.6	T	T
S94-1873	P	3+	2	35	2	14.5	T	T
NTCPR94-5483	W	2-	2	29	2	13.6	T	T
NTCPR94-5237	W	4+	2	31	2	16.9	T	T
V90-1012	P	0	2	30	2	15.1	G	T
V91-3036	SEG	2+	2	31	2	13.8	G	T
V92-0254	W	0	2	28	2	13.3	G	T
V92-0974	W	3+	1	30	2	13.4	G	T
K1360	P	2-	1	26	2	14.5	G	T
K1361	P	3-	2	27	2	14.6	G	T
K1364	W	1+	1	24	2	13.9	T	T
K1366	P	4-	2	28	2	12.8	T	T
OK89-5602	P	1+	2	26	2	13.5	G	T

TABLE 19 - Continued.

STRAIN/ VARIETY	STEM CANKER	PEST REACTIONS			
		SCN 3	SCN 14	M. I. GA	M. a. GA
HUTCHESON	R	3.7	5.0	5.0	4.3
MANOKIN	R	1.1	4.7	1.3	3.5
J94-7	S	1.0	1.0	5.0	4.0
MD93-5634	S	4.0	3.7	5.0	4.3
MD93-5668	S	3.6	3.8	5.0	3.8
R92-1294	R	4.0	3.4	4.5	3.5
R93-171	R	1.4	1.3	5.0	4.8
N93-54	S	1.6	1.8	5.0	4.8
N94-546	S	4.0	3.7	5.0	4.5
N94-208	S	4.0	3.5	5.0	4.5
TN93-74	S	3.5	4.1	3.3	4.8
TN93-99	R	4.0	4.0	5.0	5.0
S94-1956	MS	2.1	1.0	5.0	4.5
S94-1867	S	1.1	1.0	4.3	4.5
S94-1873	S	1.3	1.4	3.3	3.8
NTCPR94-5483	S	4.7	4.0	4.8	3.8
NTCPR94-5237	S	4.8	4.3	5.0	5.0
V90-1012	R	4.7	3.7	5.0	5.0
V91-3036	R	1.0	1.0	5.0	5.0
V92-0254	R	4.7	3.9	4.5	4.8
V92-0974	R	4.5	4.1	4.3	5.0
K1360	R	4.3	4.0	3.8	4.3
K1361	R	4.2	4.3	5.0	3.8
K1364	S	1.0	4.3	1.5	4.8
K1366	S	1.0	3.6	5.0	4.5
OK89-5602	R	4.6	4.0	5.0	3.5

TABLE 20 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM V, 1997.

STRAIN/ VARIETY	EAST				MEAN
	GEORGETOWN MD	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	62.5	64.1	54.8	46.2	56.9
MANOKIN	67.6	62.6	54.7	44.5	57.3
J94-7	62.0	70.0	53.8	43.8	57.4
MD93-5634	69.4	57.9	61.2	50.8	59.8
MD93-5668	67.7	59.6	52.5	48.8	57.1
R92-1294	67.9	51.7	52.1	45.2	54.2
R93-171	70.0	62.7	47.9	45.9	56.6
N93-54	61.2	66.0	46.0	47.4	55.2
N94-546	70.6	66.3	54.0	52.4	60.8
N94-208	68.9	61.2	53.7	46.5	57.6
TN93-74	65.9	57.2	52.8	47.8	55.9
TN93-99	61.9	70.6	52.6	50.3	58.9
S94-1956	61.4	69.5	62.0	47.5	60.1
S94-1867	61.2	71.1	50.0	38.1	55.1
S94-1873	67.4	63.8	52.7	41.1	56.3
NTCPR94-5483	69.1	59.7	53.5	47.8	57.5
NTCPR94-5237	69.0	63.3	56.4	44.9	58.4
V90-1012	70.0	65.4	56.1	48.8	60.1
V91-3036	68.5	58.9	47.9	46.2	55.4
V92-0254	64.5	58.5	53.3	48.1	56.1
V92-0974	68.0	63.8	54.7	46.4	58.2
K1360	71.6	47.4	60.6	49.8	57.4
K1361	63.4	55.1	60.0	46.1	56.1
K1364	63.2	68.9	55.7	46.7	58.6
K1366	62.1	64.5	55.0	45.7	56.8
OK89-5602	64.2	59.7	48.7	43.2	54.0
L. S. D. (0.05)	.	10.5	6.3	3.9	.
C. V. (%)	.	10.3	7.1	5.1	.

TABLE 20 - Continued.

STRAIN/ VARIETY	SOUTH										
	ATHENS GA	BELLE MINA AL	CALHOUN GA	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARKVILLE MS	SUFFOLK VA†	ULLIN IL	MEAN
HUTCHESON	40.1	48.4	57.8	30.8	54.1	55.6	52.7	45.2	49.6	46.8	47.9
MANOKIN	45.4	42.8	59.9	25.9	49.8	51.7	56.2	48.6	45.4	46.4	47.4
J94-7	43.5	40.6	61.2	30.6	58.7	44.3	50.2	43.4	38.0	42.3	46.1
MD93-5634	41.5	46.2	59.8	27.0	43.6	54.9	57.2	42.1	40.6	45.7	46.4
MD93-5668	44.2	44.6	59.8	31.3	44.2	59.4	53.4	48.6	45.6	37.5	47.0
R92-1294	40.5	46.6	52.7	31.9	56.1	49.0	58.6	52.8	42.2	45.8	48.2
R93-171	45.5	50.3	51.9	28.2	68.7	48.5	53.7	50.8	50.8	45.7	49.3
N93-54	44.7	42.3	60.1	22.5	44.0	46.1	56.5	55.3	52.8	39.9	45.7
N94-546	39.1	48.2	63.3	28.5	26.8	51.9	54.5	51.0	46.0	44.2	45.3
N94-208	37.6	43.6	61.1	22.9	47.0	53.2	49.8	44.0	46.6	42.2	44.6
TN93-74	42.2	46.9	64.5	26.5	36.1	56.0	50.3	40.3	42.5	44.9	45.3
TN93-99	43.8	48.9	54.6	31.9	59.9	54.8	61.1	51.0	49.8	49.4	50.6
S94-1956	46.5	45.9	67.8	33.1	54.7	54.5	57.0	54.8	43.4	47.4	51.3
S94-1867	46.4	47.0	58.7	30.1	45.1	33.6	46.6	43.3	39.5	54.1	45.0
S94-1873	40.8	37.8	57.5	29.1	48.6	35.7	50.6	43.7	45.5	47.5	43.5
NTCPR94-5483	42.1	47.4	60.6	31.6	32.1	50.3	54.4	42.0	51.2	35.0	43.9
NTCPR94-5237	38.4	39.7	56.7	31.5	34.7	46.5	52.0	50.6	49.3	46.1	44.0
V90-1012	43.8	49.1	57.2	28.9	54.9	52.6	57.0	49.3	47.5	48.2	49.0
V91-3036	48.0	42.1	56.6	33.2	60.5	49.9	54.7	42.3	45.2	54.1	49.0
V92-0254	43.5	52.4	57.2	29.6	54.5	56.3	54.5	45.3	49.5	42.3	48.4
V92-0974	43.3	46.3	56.4	26.0	56.0	56.4	58.0	48.6	46.0	41.5	48.0
K1360	40.4	49.0	57.9	30.1	42.4	54.4	58.3	44.1	47.1	42.0	46.5
K1361	42.4	48.3	59.3	28.7	56.0	56.4	56.9	43.4	41.1	49.0	48.9
K1364	41.0	41.4	55.8	28.9	44.2	53.7	57.5	52.2	32.6	46.3	46.8
K1366	41.2	47.9	61.1	24.5	42.7	52.9	48.3	49.8	40.3	43.7	45.8
OK89-5602	37.2	46.0	43.1	28.8	35.8	48.4	57.6	38.2	38.5	37.8	41.4
L. S. D. (0.05)	8.1	7.8	5.2	5.3	13.4	7.7	7.2	6.2	.	9.0	.
C. V. (%)	11.7	10.3	5.3	11.2	16.5	9.1	8.1	8.1	.	12.2	.

†Not included in Mean.

TABLE 20 - Continued.

STRAIN/ VARIETY	DELTA						
	KEISER AR	PINETREE AR†	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	ROLLING FORK MS	STONEVILLE MS	MEAN
HUTCHESON	52.1	50.2	45.9	54.2	15.1	60.3	45.5
MANOKIN	55.8	63.6	41.0	55.8	21.0	55.3	45.8
J94-7	47.1	55.0	44.3	54.0	10.8	51.3	41.5
MD93-5634	56.9	51.9	46.3	61.6	12.0	57.6	46.9
MD93-5668	53.8	57.3	46.4	58.8	16.6	62.8	47.7
R92-1294	52.5	61.9	48.5	55.5	35.6	59.7	50.4
R93-171	54.0	49.3	47.6	54.8	24.5	63.0	48.8
N93-54	51.6	61.6	43.9	53.6	19.8	52.0	44.2
N94-546	49.3	62.7	37.2	52.4	21.8	57.3	43.6
N94-208	52.0	47.1	35.6	52.9	24.0	52.3	43.4
TN93-74	51.1	.	42.9	45.8	11.8	56.7	41.7
TN93-99	52.2	56.2	50.6	56.9	26.7	60.1	49.3
S94-1956	53.8	45.8	49.2	57.5	18.8	56.4	47.1
S94-1867	46.5	.	52.3	55.1	21.3	57.1	46.5
S94-1873	45.7	65.3	47.9	56.5	23.2	56.2	45.9
NTCPR94-5483	51.5	54.0	38.6	58.1	27.3	54.6	46.0
NTCPR94-5237	45.4	55.1	43.7	51.5	26.2	46.4	42.6
V90-1012	54.1	54.4	44.3	56.6	22.6	57.2	46.9
V91-3036	55.1	58.9	51.1	53.2	28.7	56.7	49.0
V92-0254	54.6	60.5	47.8	56.1	24.5	65.7	49.7
V92-0974	49.2	55.3	45.7	55.5	26.1	57.3	46.7
K1360	51.5	55.1	41.2	45.0	10.9	53.2	40.4
K1361	55.7	48.5	41.3	52.3	19.0	59.1	45.5
K1364	51.5	51.4	37.1	53.4	26.0	53.8	44.4
K1366	52.9	56.8	42.2	49.5	17.3	46.3	41.6
OK89-5602	44.1	55.5	37.7	53.6	20.0	57.6	42.6
L. S. D. (0.05)	4.1	9.8	5.3	4.8	8.7	4.8	.
C. V. (%)	4.8	10.8	7.3	5.4	25.1	4.9	.

†Not included in Mean.

TABLE 20 - Continued.

STRAIN/ VARIETY	WEST						MEAN
	BIXBY OK	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	STUTT GART AR	WALNUT KS	
HUTCHESON	47.5	61.2	50.5	23.4	58.0	51.6	48.7
MANOKIN	45.8	55.9	49.3	34.3	51.2	47.2	47.3
J94-7	50.7	47.6	42.7	38.6	51.2	46.3	46.2
MD93-5634	43.2	59.7	44.5	28.2	54.9	49.2	46.6
MD93-5668	43.4	69.0	45.8	29.9	56.0	47.5	48.6
R92-1294	47.4	65.0	49.3	24.1	60.0	47.9	49.0
R93-171	49.2	64.7	51.1	34.2	62.9	46.1	51.4
N93-54	50.2	74.5	46.5	34.6	54.0	45.4	50.9
N94-546	44.9	67.8	48.0	19.2	56.9	46.9	47.3
N94-208	43.2	55.6	48.3	32.1	49.5	46.7	45.9
TN93-74	43.8	54.0	45.4	29.8	55.2	44.2	45.4
TN93-99	54.6	57.6	51.8	34.5	58.8	49.1	51.1
S94-1956	53.2	64.4	49.0	40.5	52.8	51.9	52.0
S94-1867	50.9	69.5	46.5	34.2	52.6	40.6	49.1
S94-1873	52.2	73.9	47.9	31.4	58.2	48.8	52.1
NTCPR94-5483	44.1	67.9	52.3	24.7	54.6	50.9	49.1
NTCPR94-5237	50.9	73.9	50.7	31.2	50.6	49.1	51.1
V90-1012	49.3	69.8	48.7	27.2	54.6	48.0	49.6
V91-3036	48.4	64.4	49.8	37.5	60.9	50.2	51.9
V92-0254	47.5	63.6	52.4	31.6	58.7	50.2	50.7
V92-0974	47.4	57.6	49.0	29.8	53.0	49.7	47.7
K1360	51.6	57.2	47.8	28.3	52.7	50.3	48.0
K1361	49.1	59.7	48.6	26.7	54.0	50.7	48.1
K1364	52.8	62.0	49.2	33.6	44.8	50.1	48.8
K1366	48.1	53.5	45.0	34.8	54.4	46.8	47.1
OK89-5602	45.8	51.3	44.1	28.0	50.3	46.8	44.4
L. S. D. (0.05)	6.1	17.9	3.7	5.3	5.5	4.6	.
C. V. (%)	7.7	16.7	4.7	10.4	6.0	5.8	.

TABLE 21 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1997.

OIL PERCENTAGE

STRAIN/ VARIETY	BELLE		CAL-		KNOX-		PINE-		PITTS-		PLY-		PORTAGE-		PORTAGE-		PRINCE-		QUEENS-		ROLLING		STARK-		STONE-		SUF-		WAL-		WARSAW		MEAN
	ATHENS GA	MINA AL	BIXBY OK	HOUN GA	VILLE TN	MARTIN TN	MCCUNE KS	ORANGE VA	TREE AR	BURG KS	MOUTH NC	VILLE MO(A)	VILLE MO(B)	TON KY	TOWN MD	FORK MS	VILLE MS	VILLE MS	FOLK VA	ULLIN IL	NUT KS	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA		
HUTCHESON	20.6	21.2	.	.	21.1	20.1	.	19.1	21.1	21.2	.	20.8	.	21.3	19.9	21.5	.	21.2	20.8	21.2	.	21.1	20.8										
MANOKIN	19.7	20.3	.	.	21.9	19.4	.	20.4	21.1	20.5	.	20.2	.	20.7	18.5	23.1	.	20.6	20.3	19.5	.	20.4	20.4										
J94-7	18.8	20.1	.	.	20.3	18.4	.	18.2	19.4	19.8	.	18.7	.	19.0	18.5	20.6	.	18.7	19.1	19.3	.	19.3	19.2										
MD93-5634	19.5	20.3	.	.	20.5	19.5	.	19.4	19.8	20.0	.	20.2	.	19.8	18.7	21.0	.	19.7	19.7	20.2	.	20.3	19.9										
MD93-5668	20.0	20.3	.	.	20.9	20.6	.	19.5	20.4	19.9	.	19.3	.	19.7	19.5	20.0	.	19.8	19.5	19.6	.	20.4	20.0										
R92-1294	19.6	20.7	.	.	21.7	19.9	.	21.1	20.7	20.5	.	20.2	.	20.4	19.1	20.9	.	20.8	20.8	21.2	.	20.5	20.5										
R93-171	19.9	20.6	.	.	21.0	19.9	.	19.8	20.8	20.3	.	19.4	.	19.0	21.0	21.2	.	20.4	20.3	20.0	.	19.8	20.2										
N93-54	18.9	19.5	.	.	19.7	18.6	.	19.0	20.5	19.9	.	18.8	.	19.6	19.1	20.6	.	20.3	19.8	19.1	.	19.6	19.4										
N94-546	19.2	20.5	.	.	19.9	17.6	.	19.3	19.9	18.9	.	18.9	.	19.9	18.9	19.9	.	21.6	19.7	19.1	.	20.2	19.5										
N94-208	20.6	20.6	.	.	21.0	19.8	.	19.2	21.0	21.1	.	20.2	.	19.9	19.0	22.4	.	20.2	20.3	20.5	.	20.4	20.4										
TN93-74	19.5	19.8	.	.	19.6	18.9	.	18.7	.	19.5	.	19.0	.	18.4	17.5	20.5	.	20.0	20.0	20.0	.	20.4	19.4										
TN93-99	20.6	21.6	.	.	21.5	20.6	.	20.0	21.3	21.3	.	21.1	.	20.8	20.3	21.1	.	21.4	21.5	21.4	.	21.1	21.0										
S94-1956	19.9	21.4	.	.	20.8	18.7	.	19.2	20.4	20.6	.	19.7	.	20.4	19.1	21.4	.	20.4	19.9	18.8	.	20.4	20.1										
S94-1867	19.3	19.2	.	.	20.9	19.0	.	19.1	.	20.1	.	18.5	.	17.6	19.1	19.6	.	19.2	19.9	19.8	.	20.0	19.3										
S94-1873	18.6	19.9	.	.	20.7	19.0	.	19.2	19.6	20.0	.	18.0	.	19.3	19.1	19.3	.	19.5	20.3	19.0	.	19.7	19.3										
NTCPR94-5483	18.8	20.5	.	.	20.0	18.3	.	17.7	20.8	20.0	.	19.2	.	19.9	20.5	20.7	.	20.3	21.0	19.2	.	19.6	19.6										
NTCPR94-5237	19.9	20.4	.	.	20.4	19.8	.	18.8	20.9	20.9	.	20.5	.	19.8	19.7	20.5	.	20.8	20.6	20.7	.	20.5	20.2										
V90-1012	21.0	21.7	.	.	22.0	20.9	.	19.3	21.5	21.6	.	20.9	.	20.5	20.3	21.6	.	21.1	21.3	21.1	.	20.8	21.0										
V91-3036	19.6	20.3	.	.	20.2	19.2	.	19.0	20.0	20.0	.	19.3	.	19.4	18.6	19.7	.	19.8	20.2	19.8	.	19.2	19.5										
V92-0254	20.2	21.5	.	.	21.8	20.6	.	20.8	21.8	20.9	.	20.6	.	20.2	20.2	21.6	.	20.8	21.3	20.9	.	21.3	20.9										
V92-0974	18.4	18.8	.	.	19.2	18.5	.	18.1	19.9	20.1	.	18.2	.	18.9	19.2	19.9	.	19.0	19.6	18.7	.	19.0	18.9										
K1360	19.9	20.9	.	.	20.9	18.6	.	19.2	20.2	20.1	.	19.7	.	19.2	20.0	20.4	.	19.8	20.3	19.1	.	19.9	19.8										
K1361	20.5	21.0	.	.	20.7	19.1	.	19.7	20.4	20.3	.	19.7	.	20.4	19.1	21.9	.	20.8	20.0	21.1	.	20.9	20.4										
K1364	20.2	21.0	.	.	20.9	19.7	.	19.0	20.8	21.3	.	20.3	.	19.2	18.7	21.8	.	21.5	20.6	19.5	.	20.9	20.3										
K1366	19.4	21.0	.	.	19.8	18.1	.	19.1	20.1	21.5	.	19.4	.	19.1	18.9	22.6	.	20.3	20.7	19.9	.	20.7	20.0										
OK89-5602	19.2	19.7	.	.	19.6	18.2	.	18.9	19.5	19.7	.	18.9	.	19.4	18.5	.	.	19.7	20.0	19.5	.	20.0	19.3										

TABLE 21 - Continued.

PROTEIN PERCENTAGE

STRAIN/ VARIETY	ATHENS	BELLE	BIXBY	CAL-	KNOX-	MCCUNE	ORANGE	PINE-	PITTS-	PLY-	PORTAGE-	PORTAGE-	PRINCE-	QUEENS-	ROLLING	STARK-	STONE-	SUF-	WAL-		WARSAW	MEAN	
	GA	MINA AL	OK	HOUN GA	VILLE TN		MARTIN TN	VA	TREE AR	BURG KS	MOUTH NC	VILLE MO(A)	VILLE MO(B)	TON KY	TOWN MD	FORK MS	VILLE MS	VILLE MS	FOLK VA	ULLIN IL	NUT KS		VA
HUTCHESON	40.8	41.2	.	.	40.9	41.4	.	37.3	41.3	38.9	.	41.0	.	41.2	41.6	39.7	.	40.6	40.6	41.5	.	40.8	40.5
MANOKIN	42.1	40.9	.	.	39.6	41.6	.	39.2	41.4	38.8	.	40.8	.	37.5	40.1	38.0	.	41.3	40.3	41.8	.	40.6	40.2
J94-7	40.7	37.7	.	.	39.9	39.9	.	37.8	41.1	38.4	.	39.8	.	40.9	40.0	40.5	.	41.7	40.3	39.4	.	40.2	39.8
MD93-5634	43.5	42.3	.	.	42.7	43.2	.	40.4	44.4	41.8	.	43.3	.	41.2	43.0	42.1	.	43.6	43.9	43.6	.	42.2	42.5
MD93-5668	42.9	41.8	.	.	42.8	40.6	.	40.7	42.5	41.9	.	44.0	.	41.6	41.9	42.5	.	43.9	43.3	44.1	.	42.8	42.4
R92-1294	42.3	41.1	.	.	40.3	41.3	.	36.0	41.1	40.5	.	40.6	.	40.2	42.2	41.3	.	39.8	39.9	40.6	.	41.2	40.6
R93-171	42.0	41.1	.	.	41.2	41.7	.	39.8	41.0	40.3	.	41.0	.	42.6	42.2	41.4	.	41.6	41.2	42.4	.	41.6	41.5
N93-54	43.0	42.5	.	.	43.0	42.5	.	40.0	41.5	40.3	.	42.8	.	40.8	42.9	41.4	.	41.9	41.7	43.9	.	42.8	42.1
N94-546	42.8	41.3	.	.	42.2	43.1	.	40.3	42.8	41.5	.	42.4	.	41.9	42.2	41.4	.	39.6	41.2	43.6	.	41.9	41.9
N94-208	39.9	40.3	.	.	40.8	41.2	.	40.0	40.5	38.8	.	40.6	.	40.7	41.3	38.8	.	41.5	40.0	41.1	.	40.9	40.5
TN93-74	44.2	43.8	.	.	43.7	43.4	.	42.5	.	43.3	.	43.0	.	44.0	45.1	41.9	.	42.9	41.9	43.5	.	43.1	43.4
TN93-99	42.0	40.8	.	.	41.1	41.4	.	39.9	41.5	38.5	.	40.3	.	40.9	41.4	42.0	.	41.0	40.0	42.0	.	41.4	41.0
S94-1956	42.8	40.3	.	.	41.2	43.2	.	39.4	41.3	38.2	.	41.3	.	40.6	41.5	40.3	.	41.5	41.5	43.6	.	41.0	41.1
S94-1867	41.9	41.5	.	.	39.6	41.5	.	37.2	.	38.9	.	41.9	.	43.2	40.3	41.7	.	42.6	40.7	41.0	.	40.6	40.9
S94-1873	42.7	40.1	.	.	40.4	40.9	.	36.8	41.6	39.3	.	42.3	.	41.6	40.9	40.6	.	43.0	39.6	42.2	.	41.1	40.9
NTCPR94-5483	43.5	40.4	.	.	42.1	41.5	.	40.8	42.2	40.5	.	42.1	.	40.3	41.8	42.0	.	42.1	39.7	43.6	.	41.8	41.7
NTCPR94-5237	41.9	41.9	.	.	41.2	42.1	.	40.9	42.5	39.9	.	41.6	.	41.0	42.3	42.1	.	41.5	41.5	42.6	.	42.0	41.6
V90-1012	41.7	40.9	.	.	41.2	40.8	.	40.5	41.4	39.3	.	41.0	.	41.7	42.4	40.8	.	40.8	39.9	41.6	.	41.3	41.1
V91-3036	43.3	41.7	.	.	42.8	42.4	.	39.8	41.9	41.1	.	41.4	.	42.1	42.4	44.4	.	42.1	40.9	41.9	.	42.7	42.2
V92-0254	42.2	40.7	.	.	41.5	41.5	.	39.1	40.6	40.2	.	40.4	.	41.2	42.1	40.6	.	40.5	40.4	42.6	.	41.2	41.1
V92-0974	43.4	43.0	.	.	43.0	43.7	.	41.1	41.6	41.2	.	42.7	.	42.4	42.5	41.0	.	42.4	41.6	44.2	.	43.4	42.6
K1360	42.4	41.5	.	.	41.4	43.5	.	39.7	43.3	41.0	.	41.5	.	41.3	41.4	41.7	.	43.1	40.1	43.9	.	42.3	41.9
K1361	42.7	41.6	.	.	42.1	43.3	.	39.7	43.2	41.1	.	41.9	.	40.6	42.8	39.8	.	41.6	40.9	41.4	.	41.8	41.6
K1364	42.3	41.8	.	.	43.0	43.2	.	38.8	43.1	40.8	.	41.3	.	42.1	43.2	41.7	.	43.2	41.6	44.4	.	41.2	42.1
K1366	40.9	38.8	.	.	39.8	43.0	.	37.3	41.6	37.0	.	39.7	.	40.0	40.5	37.1	.	40.7	38.6	41.2	.	38.6	39.6
OK89-5602	44.6	43.9	.	.	45.0	45.9	.	41.0	45.4	42.7	.	43.6	.	43.2	45.2	.	.	44.5	42.7	44.4	.	43.7	44.0

TABLE 21 - Continued.

GRAMS PER 100 SEED

STRAIN/ VARIETY	BELLE		CAL-		KNOX-		MCCUNE	ORANGE	PINE-	PITTS-	PLY-	PORTAGE-	PORTAGE-	PRINCE-	QUEENS-	ROLLING	STARK-	STONE-	SUF-	WAL-		MEAN	
	ATHENS	MINA	BIXBY	HOUN	VILLE	MARTIN			TREE	BURG	MOUTH	VILLE	VILLE	TON	TOWN	FORK	VILLE	VILLE	FOLK	ULLIN	NUT		WARSAW
	GA	AL	OK	GA	TN	TN	KS	VA	AR	KS	NC	MO(A)	MO(B)	KY	MD	MS	MS	MS	VA	IL	KS	VA	
HUTCHESON	12.6	15.1	16.3	14	13.5	16	12.6	16.1	15.2	12.2	16.1	11.5	13.5	17.0	17.2	.	13.4	.	15.0	13.6	13.2	13.8	14.3
MANOKIN	12.7	13.7	18.8	13	11.4	13	15.5	14.6	14.9	11.3	14.4	10.5	11.2	15.0	15.3	.	13.2	.	12.9	10.7	12.7	13.7	13.4
J94-7	11.8	12.3	14.2	14	12.5	12	14.6	14.1	14.5	11.6	15.2	11.3	12.0	13.8	15.5	.	13.8	.	12.8	10.9	12.5	12.6	13.0
MD93-5634	13.3	15.1	17.4	16	13.8	14.0	16.5	15.9	16.5	12.7	17.2	13.0	15.2	15.0	18.0	.	15.4	.	16.0	13.3	13.7	15.8	15.1
MD93-5668	14.0	16.9	18.2	17	16.5	15.0	15.3	17.6	16.8	12.3	18.7	14.3	15.3	17.0	19.4	.	17.1	.	15.4	15.1	15.7	16.7	16.2
R92-1294	11.8	14.1	16.1	15	14.0	14.0	14.1	15.4	15.5	12.5	16.2	11.2	13.0	13.8	16.7	.	14.3	.	13.8	12.9	14.2	13.6	14.1
R93-171	12.8	13.8	16.3	16	15.0	13.3	14.0	16.2	14.8	13.3	15.8	11.0	12.0	16.1	16.0	.	14.3	.	14.7	12.4	14.5	13.8	14.3
N93-54	13.1	14.3	15.6	16	14.0	11.0	17.4	16.1	16.6	11.8	16.5	11.2	12.2	15.1	16.1	.	14.8	.	15.1	12.2	13.9	14.3	14.2
N94-546	13.7	15.0	15.2	17	15.5	10.0	14.1	17.2	17.0	11.3	16.0	11.7	13.6	16.3	17.6	.	14.7	.	15.9	12.8	14.6	15.7	14.6
N94-208	13.8	15.0	16.9	17	13.0	17.0	14.9	16.4	18.9	12.8	16.9	12.9	15.3	16.0	16.9	.	15.6	.	14.2	13.4	13.2	15.4	15.1
TN93-74	12.4	13.7	14.3	14	12.0	12.0	15.7	14.1	.	11.0	14.0	11.1	11.8	13.2	14.6	.	13.1	.	12.7	11.2	13.4	13.2	13.0
TN93-99	12.6	14.0	17.4	15	15.5	14.0	14.1	17.0	16.5	13.1	17.2	12.7	12.9	14.0	17.6	.	13.5	.	15.6	13.6	14.5	14.1	14.6
S94-1956	12.8	14.5	15.8	15	13.1	14.0	15.1	15.4	15.2	11.2	14.6	11.4	12.5	14.0	16.2	.	13.5	.	13.9	10.7	13.9	14.5	13.8
S94-1867	14.1	14.6	18.1	18	16.2	14.0	14.4	18.6	.	14.8	17.3	13.3	13.6	13.9	19.1	.	13.8	.	17.3	15.9	12.9	17.4	15.6
S94-1873	12.8	14.0	16.2	16	16.0	12.0	15.1	17.8	15.3	12.7	16.3	12.0	13.3	15.0	17.3	.	13.9	.	15.5	12.9	13.0	15.6	14.5
NTCPR94-5483	12.3	13.7	15.5	15	13.6	12.0	12.0	16.4	15.5	11.5	14.3	10.9	11.9	15.0	18.0	.	12.8	.	14.5	12.3	13.6	14.4	13.6
NTCPR94-5237	14.7	16.4	18.2	20	18.1	14.0	15.8	20.3	19.3	14.0	19.0	13.3	14.4	19.5	20.6	.	15.2	.	18.4	16.9	15.9	17.3	16.9
V90-1012	13.5	14.9	16.4	16	14.6	16.0	14.1	17.3	14.5	12.5	17.6	12.6	14.1	16.2	18.8	.	14.6	.	15.3	12.8	14.9	14.9	15.1
V91-3036	12.1	13.0	15.5	14	13.1	14.0	14.9	16.1	14.7	12.5	15.0	10.7	11.6	16.5	15.2	.	13.7	.	14.4	13.2	13.9	13.0	13.8
V92-0254	11.8	13.8	14.9	14	13.8	14.0	14.9	14.8	13.5	10.9	14.6	11.5	11.5	13.7	15.9	.	12.4	.	13.9	11.4	13.3	12.2	13.3
V92-0974	12.4	13.1	14.7	13	14.3	14.0	14.2	15.4	15.7	11.3	15.7	11.0	11.9	14.0	15.1	.	12.5	.	15.0	11.9	12.5	13.6	13.4
K1360	13.6	14.6	16.6	16	13.1	15.0	16.0	16.0	17.3	12.3	16.0	12.2	13.1	15.0	16.7	.	14.5	.	14.1	12.0	13.8	15.2	14.5
K1361	13.1	15.4	16.0	17	12.6	15.0	16.2	16.2	16.6	12.0	16.0	12.2	13.8	14.2	18.2	.	14.4	.	13.0	12.5	13.7	14.5	14.6
K1364	12.1	12.9	15.4	15	13.2	13.0	13.9	15.2	18.7	11.5	15.8	11.4	12.4	15.8	16.2	.	16.6	.	14.6	12.4	13.5	13.4	13.9
K1366	11.4	13.5	14.1	14	11.4	12.0	17.8	14.2	16.2	10.6	14.1	10.3	11.2	13.9	14.5	.	13.4	.	12.2	10.7	10.1	12.3	12.8
OK89-5602	12.2	13.0	16.1	14	14.3	13.0	12.5	16.1	16.3	11.8	15.5	11.0	12.0	15.0	15.0	.	13.0	.	12.9	12.4	13.3	13.5	13.5

TABLE 22 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN HUTCHESON FOR VARIETY IN UNIFORM GROUP V, 1997.

STRAIN/ VARIETY	EAST				
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
HUTCHESON	.	10/10	11/04	10/15	10/20
MANOKIN	.	-4	-11	-6	-7
J94-7	.	6	-1	-2	1
MD93-5634	.	0	-10	-3	-4
MD93-5668	.	0	0	-2	-1
R92-1294	.	5	1	-1	2
R93-171	.	0	0	-1	0
N93-54	.	3	-1	0	1
N94-546	.	2	-1	-1	0
N94-208	.	-2	-11	-5	-6
TN93-74	.	0	-1	-3	-1
TN93-99	.	5	2	-1	2
S94-1956	.	6	2	-3	2
S94-1867	.	8	5	2	5
S94-1873	.	8	3	1	4
NTCPR94-5483	.	-2	-5	-4	-4
NTCPR94-5237	.	8	2	-1	3
V90-1012	.	3	1	-3	0
V91-3036	.	0	1	0	0
V92-0254	.	0	0	-2	-1
V92-0974	.	6	0	-2	1
K1360	.	0	-4	-3	-2
K1361	.	-2	-4	-5	-4
K1364	.	2	-2	-3	-1
K1366	.	0	-11	-7	-6
OK89-5602	.	2	2	-1	1

TABLE 22 - Continued.

STRAIN/ VARIETY	SOUTH									
	ATHENS GA	BELLE MINA AL	CALHOUN GA	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARKVILLE MS	ULLIN IL	MEAN
HUTCHESON	09/27	09/29	09/22	10/09	10/03	10/25	10/19	09/17	10/06	10/04
MANOKIN	-5	-7	-4	-16	-2	-2	-1	-4	-3	-5
J94-7	4	-5	2	-9	0	2	2	3	0	0
MD93-5634	-3	-5	-1	-17	0	-1	1	-4	-4	-4
MD93-5668	2	-5	0	-13	-1	-2	1	-2	-1	-2
R92-1294	5	0	5	-3	3	1	2	4	1	2
R93-171	5	-3	1	-1	3	4	2	0	1	1
N93-54	3	-2	5	-6	0	3	4	0	2	1
N94-546	3	0	4	-6	0	-1	1	1	1	0
N94-208	-5	-5	-1	-16	-1	1	0	-2	-4	-4
TN93-74	1	-6	0	-14	-2	1	0	-3	-3	-3
TN93-99	5	0	3	1	1	2	2	4	-1	2
S94-1956	0	-1	0	-9	1	0	1	4	-4	-1
S94-1867	9	1	10	-4	3	4	5	6	12	5
S94-1873	9	0	10	-4	-1	5	5	3	8	4
NTCPR94-5483	1	-5	0	-9	-1	-2	0	2	0	-2
NTCPR94-5237	9	1	11	2	3	0	5	7	8	5
V90-1012	4	-1	-1	-3	1	1	0	-1	-2	0
V91-3036	8	-3	5	-3	4	4	3	1	2	2
V92-0254	2	-1	1	0	3	0	1	2	-1	1
V92-0974	6	0	4	0	4	3	3	5	2	3
K1360	-3	-6	-1	-15	-1	2	0	-2	-5	-3
K1361	-2	-6	-1	-12	0	-3	-1	-2	-5	-3
K1364	5	-4	3	-6	0	0	1	6	0	1
K1366	-5	-5	-2	-17	-1	-1	-2	-2	-5	-4
OK89-5602	5	-1	6	1	-1	4	3	-1	3	2

TABLE 22 - Continued.

STRAIN/ VARIETY	DELTA					
	KEISER AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	ROLLING FORK MS	STONEVILLE MS	MEAN
HUTCHESON	09/29	10/03	10/06	.	09/19	09/29
MANOKIN	-1	-5	-3	.	-5	-3
J94-7	1	0	3	.	-1	1
MD93-5634	-1	-4	-3	.	-1	-2
MD93-5668	-1	-2	-1	.	0	-1
R92-1294	4	2	1	.	2	2
R93-171	2	0	1	.	-1	1
N93-54	-1	-2	1	.	0	0
N94-546	0	1	1	.	-1	1
N94-208	-1	-4	0	.	-2	-1
TN93-74	-2	-4	-3	.	-1	-2
TN93-99	2	2	2	.	0	2
S94-1956	-1	-2	2	.	-1	0
S94-1867	5	6	5	.	3	5
S94-1873	4	5	3	.	3	4
NTCPR94-5483	-1	-1	1	.	-2	0
NTCPR94-5237	5	6	6	.	2	5
V90-1012	0	-2	0	.	-1	-1
V91-3036	2	2	0	.	3	2
V92-0254	2	1	-1	.	-1	0
V92-0974	3	6	5	.	4	5
K1360	-1	-3	-1	.	-2	-2
K1361	-1	-2	-2	.	-2	-2
K1364	2	0	2	.	2	2
K1366	-2	-5	-3	.	-2	-3
OK89-5602	0	-1	0	.	1	0

TABLE 22 - Continued.

STRAIN/ VARIETY	WEST						MEAN
	BIXBY OK	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	STUTTGART AR	WALNUT KS	
HUTCHESON	11/05	10/01	.	.	.	.	10/18
MANOKIN	0	-13	.	.	.	.	-6
J94-7	0	-7	.	.	.	.	-3
MD93-5634	0	-3	.	.	.	.	-1
MD93-5668	0	-4	.	.	.	.	-1
R92-1294	0	-3	.	.	.	.	-1
R93-171	0	-1	.	.	.	.	0
N93-54	0	-2	.	.	.	.	0
N94-546	0	-5	.	.	.	.	-2
N94-208	0	-2	.	.	.	.	-1
TN93-74	0	-1	.	.	.	.	0
TN93-99	0	-1	.	.	.	.	0
S94-1956	0	-4	.	.	.	.	-1
S94-1867	0	-4	.	.	.	.	-2
S94-1873	0	-5	.	.	.	.	-2
NTCPR94-5483	0	-4	.	.	.	.	-2
NTCPR94-5237	0	-2	.	.	.	.	-1
V90-1012	0	-2	.	.	.	.	0
V91-3036	0	-1	.	.	.	.	0
V92-0254	0	-1	.	.	.	.	0
V92-0974	0	-4	.	.	.	.	-1
K1360	0	-2	.	.	.	.	0
K1361	0	-4	.	.	.	.	-1
K1364	0	-2	.	.	.	.	0
K1366	0	-5	.	.	.	.	-2
OK89-5602	0	-1	.	.	.	.	0

TABLE 23 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1997.

STRAIN/ VARIETY	EAST				MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	32	33	31	29	31
MANOKIN	33	30	31	31	31
J94-7	35	33	33	33	34
MD93-5634	36	37	36	29	35
MD93-5668	38	46	39	35	39
R92-1294	36	33	33	35	34
R93-171	34	32	33	33	33
N93-54	29	28	33	33	31
N94-546	34	32	32	30	32
N94-208	30	28	30	25	28
TN93-74	30	29	28	27	29
TN93-99	34	33	31	30	32
S94-1956	29	31	28	27	29
S94-1867	61	41	43	42	47
S94-1873	36	34	36	40	37
NTCPR94-5483	34	29	31	32	32
NTCPR94-5237	35	.	31	32	33
V90-1012	36	37	29	31	33
V91-3036	37	37	33	32	35
V92-0254	33	34	31	29	32
V92-0974	36	34	31	30	33
K1360	34	28	27	27	29
K1361	34	29	26	28	29
K1364	30	25	26	25	27
K1366	34	29	27	31	30
OK89-5602	32	29	30	28	30

TABLE 23 - Continued.

STRAIN/ VARIETY	SOUTH										MEAN
	ATHENS GA	BELLE MINA AL	CALHOUN GA	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARKVILLE MS	SUFFOLK VA	ULLIN IL	
HUTCHESON	28	23	30	32	28	38	31	20	25	27	29
MANOKIN	27	28	31	29	29	37	35	22	20	24	29
J94-7	28	27	34	34	29	44	35	21	24	29	31
MD93-5634	30	25	34	31	35	36	28	28	30	32	31
MD93-5668	36	30	44	34	44	44	34	31	33	37	37
R92-1294	31	29	36	35	32	43	37	24	27	32	33
R93-171	31	26	35	32	29	41	32	23	29	31	31
N93-54	30	27	34	32	31	45	36	24	26	28	32
N94-546	27	23	32	31	23	41	33	20	24	27	28
N94-208	23	22	27	28	23	36	32	22	20	21	26
TN93-74	24	22	29	29	24	37	29	19	20	24	26
TN93-99	28	23	33	30	30	41	31	24	27	29	30
S94-1956	24	22	27	29	24	34	30	21	21	24	26
S94-1867	37	39	45	42	39	52	39	29	29	41	40
S94-1873	35	33	40	37	38	47	37	23	31	35	36
NTCPR94-5483	29	27	35	32	29	38	34	24	26	24	30
NTCPR94-5237	32	27	34	32	33	40	34	24	27	31	32
V90-1012	30	27	31	33	33	39	32	23	23	29	31
V91-3036	28	30	31	34	35	38	33	21	29	31	31
V92-0254	28	24	31	28	33	38	30	20	28	25	28
V92-0974	30	24	34	32	32	42	34	26	23	30	32
K1360	26	20	27	27	26	38	31	18	22	24	26
K1361	25	22	31	30	29	37	32	19	23	24	28
K1364	23	21	24	25	19	35	30	18	19	23	24
K1366	24	26	31	31	30	40	29	21	20	23	28
OK89-5602	24	23	25	28	24	40	30	19	23	20	26

TABLE 23 - Continued.

STRAIN/ VARIETY	DELTA					MEAN
	KEISER AR	PINETREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
HUTCHESON	29	22	28	20	19	24
MANOKIN	27	23	27	26	19	25
J94-7	26	25	30	23	22	25
MD93-5634	40	32	36	33	36	36
MD93-5668	43	38	42	34	40	40
R92-1294	33	26	30	26	25	28
R93-171	29	23	29	24	23	26
N93-54	26	23	28	22	20	24
N94-546	24	23	24	21	20	22
N94-208	23	19	25	20	19	22
TN93-74	24	.	26	19	20	22
TN93-99	27	23	26	25	19	24
S94-1956	23	20	23	20	18	21
S94-1867	33	.	41	29	29	33
S94-1873	29	31	32	29	27	29
NTCPR94-5483	28	23	28	27	22	26
NTCPR94-5237	30	25	30	24	25	27
V90-1012	29	25	28	27	21	26
V91-3036	33	27	29	28	24	28
V92-0254	25	27	29	23	20	24
V92-0974	27	24	31	25	21	26
K1360	24	19	23	19	23	22
K1361	26	18	21	24	20	23
K1364	24	22	21	19	21	21
K1366	26	24	24	23	20	23
OK89-5602	24	19	22	22	19	22

TABLE 23 - Continued.

STRAIN/ VARIETY	WEST						MEAN
	BIXBY OK	BOSSIER CITY LA	MCCUNE KS	PITTSBURG KS	STUTTGART AR	WALNUT KS	
HUTCHESON	26	23	32	27	23	33	27
MANOKIN	30	25	33	32	20	37	29
J94-7	30	27	33	33	21	35	30
MD93-5634	30	33	31	30	35	37	33
MD93-5668	35	43	35	34	40	42	38
R92-1294	29	28	35	29	28	39	31
R93-171	29	28	35	32	23	34	30
N93-54	31	26	33	31	20	34	29
N94-546	28	27	33	26	20	34	28
N94-208	26	23	29	29	18	31	26
TN93-74	26	21	28	27	19	32	25
TN93-99	28	19	32	31	24	34	28
S94-1956	26	23	30	28	17	33	26
S94-1867	45	38	41	41	29	43	40
S94-1873	37	34	37	36	25	40	35
NTCPR94-5483	26	27	33	29	23	33	29
NTCPR94-5237	32	26	32	32	22	35	30
V90-1012	31	26	30	29	21	33	28
V91-3036	35	28	32	30	27	33	31
V92-0254	26	23	29	27	22	34	27
V92-0974	31	27	34	30	23	35	30
K1360	27	22	27	26	18	31	25
K1361	25	24	28	27	20	31	26
K1364	23	21	29	26	17	30	24
K1366	27	22	33	31	20	33	28
OK89-5602	25	20	29	30	22	31	26

TABLE 24 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1997

STRAIN/ VARIETY	EAST				MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	2	2	3	2	2
MANOKIN	3	3	4	3	3
J94-7	2	2	4	2	3
MD93-5634	1	2	3	1	2
MD93-5668	1	2	4	2	2
R92-1294	4	3	4	3	4
R93-171	3	4	4	3	3
N93-54	3	3	4	2	3
N94-546	2	2	4	3	3
N94-208	2	2	3	2	2
TN93-74	3	3	3	2	3
TN93-99	3	3	3	2	3
S94-1956	1	2	2	1	2
S94-1867	2	3	4	3	3
S94-1873	2	3	4	3	3
NTCPR94-5483	2	2	4	2	3
NTCPR94-5237	2	2	4	3	3
V90-1012	3	2	3	2	3
V91-3036	3	3	4	2	3
V92-0254	2	3	3	2	3
V92-0974	2	2	3	2	2
K1360	2	2	2	2	2
K1361	3	3	4	2	3
K1364	1	2	2	1	2
K1366	3	3	4	2	3
OK89-5602	2	2	3	2	2

TABLE 24 - Continued.

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	CALHOUN GA	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARKVILLE MS	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	2	1	1	2	1	2	1	1	1	1	1
MANOKIN	2	3	1	2	1	2	3	2	1	1	2
J94-7	2	1	1	2	1	3	1	1	1	1	1
MD93-5634	2	1	1	2	2	1	1	2	1	1	1
MD93-5668	2	1	1	2	2	1	1	1	2	2	1
R92-1294	2	2	1	3	2	4	2	2	2	1	2
R93-171	2	1	3	3	2	4	2	2	2	1	2
N93-54	2	1	2	2	2	4	2	2	1	1	2
N94-546	2	1	1	2	1	3	1	1	1	1	1
N94-208	2	1	1	2	1	3	1	1	1	1	1
TN93-74	2	1	1	2	1	3	1	1	1	1	2
TN93-99	2	1	1	2	1	3	1	2	1	1	2
S94-1956	2	1	1	2	1	2	1	2	1	1	1
S94-1867	3	2	2	3	3	4	2	2	2	2	3
S94-1873	2	2	2	3	3	4	1	2	2	1	2
NTCPR94-5483	2	1	2	3	2	3	2	2	1	1	2
NTCPR94-5237	2	2	1	3	2	3	1	2	1	1	2
V90-1012	2	2	1	2	1	3	1	2	1	1	2
V91-3036	2	2	1	3	2	3	3	2	1	1	2
V92-0254	2	1	1	2	1	2	1	2	1	1	1
V92-0974	2	1	1	2	1	3	1	2	1	1	2
K1360	2	1	1	2	1	2	1	1	1	1	1
K1361	2	1	1	2	1	2	2	1	2	1	2
K1364	2	1	1	2	1	2	1	1	1	1	1
K1366	2	1	1	3	2	4	2	2	2	1	2
OK89-5602	2	1	1	2	1	4	1	1	1	1	2

TABLE 24 - Continued.

STRAIN/ VARIETY	DELTA					MEAN
	KEISER AR	PINETREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	
HUTCHESON	2	1	1	1	2	1
MANOKIN	2	1	1	1	2	1
J94-7	1	1	1	1	2	1
MD93-5634	1	1	1	1	3	2
MD93-5668	1	1	1	1	3	2
R92-1294	2	1	1	2	2	2
R93-171	1	1	1	1	2	1
N93-54	2	1	1	1	2	1
N94-546	1	1	1	1	2	1
N94-208	1	1	1	1	2	1
TN93-74	1	.	1	1	2	1
TN93-99	1	1	1	1	2	1
S94-1956	1	1	1	1	2	1
S94-1867	1	.	1	1	2	1
S94-1873	1	1	1	1	2	1
NTCPR94-5483	1	1	1	1	2	1
NTCPR94-5237	2	1	1	1	2	1
V90-1012	1	1	1	1	2	1
V91-3036	1	1	1	1	2	1
V92-0254	1	1	1	1	2	1
V92-0974	1	1	1	1	2	1
K1360	1	1	1	1	2	1
K1361	1	1	1	1	2	1
K1364	1	1	1	1	2	1
K1366	1	1	1	1	2	1
OK89-5602	1	1	1	1	2	1

TABLE 24 - Continued.

STRAIN/ VARIETY	WEST						MEAN
	BOSSIER LA	CITY OK	BIXBY OK	MCCUNE KS	PITTSBURG KS	STUTTGART AR		WALNUT KS
HUTCHESON	1	.	1	1	1	1	1
MANOKIN	1	2	2	2	2	1	4
J94-7	1	1	1	1	1	1	2
MD93-5634	1	.	1	1	1	1	1
MD93-5668	1	1	1	1	1	1	1
R92-1294	1	1	2	2	2	1	2
R93-171	1	3	1	1	1	1	2
N93-54	1	2	1	1	1	1	3
N94-546	1	1	1	1	1	1	3
N94-208	1	.	1	1	1	1	3
TN93-74	1	1	1	1	1	1	2
TN93-99	1	1	1	1	1	1	2
S94-1956	1	.	1	1	1	1	1
S94-1867	1	3	2	2	2	1	3
S94-1873	1	3	2	2	1	1	3
NTCPR94-5483	1	.	1	1	1	1	2
NTCPR94-5237	1	1	1	1	1	1	2
V90-1012	1	1	1	1	1	1	2
V91-3036	1	3	1	1	1	1	2
V92-0254	1	.	1	1	1	1	1
V92-0974	1	.	1	1	1	1	1
K1360	1	.	1	1	1	1	1
K1361	1	3	1	1	1	1	2
K1364	1	.	1	1	1	1	1
K1366	1	2	2	2	1	1	2
OK89-5602	1	.	1	1	1	1	2

TABLE 25 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1997.

STRAIN/ VARIETY	EAST				MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	1	3	1	2	2
MANOKIN	1	3	2	2	2
J94-7	1	3	1	2	2
MD93-5634	1	2	1	2	1
MD93-5668	1	2	2	2	2
R92-1294	1	2	2	2	2
R93-171	1	3	2	2	2
N93-54	1	3	2	3	2
N94-546	1	3	1	2	2
N94-208	1	2	2	2	2
TN93-74	1	3	1	2	2
TN93-99	1	3	1	2	2
S94-1956	1	3	2	2	2
S94-1867	1	2	2	2	2
S94-1873	1	3	2	2	2
NTCPR94-5483	1	3	2	2	2
NTCPR94-5237	1	2	2	2	2
V90-1012	1	3	2	2	2
V91-3036	1	3	2	2	2
V92-0254	1	3	2	2	2
V92-0974	1	3	1	2	2
K1360	1	3	2	2	2
K1361	1	3	2	2	2
K1364	1	2	1	2	2
K1366	1	3	2	2	2
OK89-5602	1	2	2	2	2

TABLE 25 - Continued.

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	CALHOUN GA	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARKVILLE MS	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	2	1	1	2	2	1	1	2	1	1	1
MANOKIN	2	1	2	2	2	1	2	2	2	2	2
J94-7	2	1	2	1	2	1	3	3	2	1	2
MD93-5634	2	1	1	2	1	1	3	3	1	2	2
MD93-5668	2	1	1	1	1	1	2	3	2	1	1
R92-1294	2	1	2	2	3	1	2	3	1	1	2
R93-171	2	1	2	3	1	1	4	3	2	1	2
N93-54	2	1	2	3	2	3	3	2	2	1	2
N94-546	2	1	2	2	3	2	3	2	1	1	2
N94-208	2	1	2	2	2	1	3	2	3	1	2
TN93-74	2	1	1	1	2	1	3	3	2	2	2
TN93-99	2	1	1	2	1	1	1	2	1	1	1
S94-1956	2	1	2	1	2	2	2	3	3	2	2
S94-1867	2	1	2	2	3	2	3	3	2	1	2
S94-1873	2	1	2	2	3	1	3	2	2	2	2
NTCPR94-5483	2	1	2	1	3	1	3	2	2	1	2
NTCPR94-5237	2	1	2	2	3	1	2	2	2	1	2
V90-1012	2	1	1	2	1	1	3	2	2	2	2
V91-3036	2	1	1	2	2	2	2	2	1	1	2
V92-0254	2	1	1	2	2	1	1	2	2	1	1
V92-0974	2	1	1	2	2	1	1	2	1	1	1
K1360	2	1	1	1	2	1	2	3	2	2	2
K1361	2	1	2	1	2	1	1	2	2	1	1
K1364	2	1	2	1	3	1	4	2	1	1	2
K1366	2	1	2	2	3	1	3	3	1	2	2
OK89-5602	2	1	1	2	2	1	3	2	1	1	2

TABLE 25 - Continued.

STRAIN/ VARIETY	DELTA					MEAN
	PINETREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS		
HUTCHESON	3	2	2	2	2	2
MANOKIN	2	2	2	2	2	2
J94-7	2	2	2	2	2	2
MD93-5634	3	2	2	2	2	2
MD93-5668	3	2	2	2	2	2
R92-1294	2	2	2	2	2	2
R93-171	3	2	2	2	2	2
N93-54	4	2	2	2	2	2
N94-546	3	2	2	2	2	2
N94-208	4	2	2	2	2	2
TN93-74	.	2	2	2	2	2
TN93-99	3	2	2	2	2	2
S94-1956	3	2	2	2	2	2
S94-1867	.	2	2	2	2	2
S94-1873	2	2	2	3	2	2
NTCPR94-5483	2	2	2	2	2	2
NTCPR94-5237	2	2	2	2	2	2
V90-1012	3	2	2	2	2	2
V91-3036	2	2	2	2	2	2
V92-0254	3	2	2	2	2	2
V92-0974	2	2	2	2	2	2
K1360	3	2	2	2	2	2
K1361	3	2	2	3	2	2
K1364	2	2	2	2	2	2
K1366	3	2	2	2	2	2
OK89-5602	3	2	2	2	2	2

TABLE 25 - Continued.

STRAIN/ VARIETY	WEST			MEAN
	MCCUNE KS	PITTSBURG KS	WALNUT KS	
HUTCHESON	2	3	2	2
MANOKIN	2	3	2	2
J94-7	2	2	3	2
MD93-5634	2	2	2	2
MD93-5668	2	2	2	2
R92-1294	2	2	2	2
R93-171	2	3	2	2
N93-54	2	3	2	2
N94-546	2	2	2	2
N94-208	2	3	3	3
TN93-74	1	2	2	2
TN93-99	2	3	2	2
S94-1956	2	3	2	2
S94-1867	2	3	2	2
S94-1873	2	2	2	2
NTCPR94-5483	2	2	2	2
NTCPR94-5237	2	3	2	2
V90-1012	2	3	2	2
V91-3036	2	2	2	2
V92-0254	2	2	2	2
V92-0974	2	2	2	2
K1360	2	3	2	2
K1361	2	3	3	3
K1364	2	2	2	2
K1366	2	2	2	2
OK89-5602	2	2	2	2

PRELIMINARY GROUP V**1997**

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

**TABLE 26A - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VA,
1997.**

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	F5
2. MANOKIN	L70-L3048 X D74-7824	F5
3. KY94-2134	ASGROW A3935 X N86-7687	
4. KY94-1829	PIONEER 9461 X HOLLADAY	
5. KY94-2343	PIONEER 9461 X PIONEER 9501	
6. MD94-5341	CLIFFORD X CORSICA	F5
7. MD94-5559	YOUNG X EDISON	F5
8. MD93-5576	MANOKIN X LS84-2308	F5
9. R93-154	ASG A5403 X HUTCHESON	
10. R93-174	ASG A5403 X HUTCHESON	
11. R94-1208	BRIM X WALTERS	
12. R94-929	HUTCHESON X R87-170	
13. DT95-15550	HUTCHESON X DP3589	F5
14. DT95-17375	P9592 X DP415	F5
15. DT95-17556	P9592 X DP415	F5
16. DT95-15218	A5979 X DP3589	F5
17. DT95-17402	P9592 X DP415	F5
18. OK91-6005	ESSEX X OKSOY	
19. OK92-6508	MILES X FORREST	
20. OK92-6520	MILES X LEE 74	
21. TN94-213	S85-1009 X HUTCHESON	
22. TN94-238	HUTCHESON X N84-507	
23. TN95-268	CORDELL X HUTCHESON	
24. TN95-235	TN85-117 X LS82-3646	

**TABLE 26B - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VB,
1997.**

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	F5
2. MANOKIN	L70-L3048 X D74-7824	F5
3. N95-90	N85-661 X AU87-547	F6
4. N95-183	PROLINA X CORSICA	F6
5. N95-198	PROLINA X CORSICA	F6
6. N95-229	HOLLADAY(3) X (N87-2122-4 X N89-3060)	F2
7. N95-670	N85-661 X AU87-547	F6
8. N95-7431	(COOK OR DAVIS) X TOKYO	
9. S94-1955	N85-578 X HARTWIG	F5
10. S94-1433	S86-1474 X S91-1532	F4
11. S95-1908	S92-1495 X NKS59-60	F5
12. S95-1874	S92-1172 X A5403	F5
13. S95-2151	A5979 X S92-1598	F5
14. V93-1633	V85-1509 X HUTCHESON	F5
15. V93-3036	THOMAS X HUTCHESON	F5
16. V93-3056	FFR544 X HUTCHESON	F5
17. V93-3114	FFR544 X HUTCHESON	F5
18. V92-697	HUTCHESON(2) X AVERY	F5
19. K1392	ASGROW A5403 X K1196	F5
20. K1393	KS5292 X HUTCHESON	F5
21. K1394	K1196 X PIONEER 9591	F5
22. K1395	RHODES X N85-578	F5
23. K1396	KS5292 X PIONEER 9591	F5
24. VS94-08	PI 381668 X YORK	F6

TABLE 27A - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1997 - MEAN OF 10 LOCATIONS.

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LOGGING	HEIGHT	QUALITY	SEED SIZE	---PERCENT---	PROTEIN	OIL	STEM CANKER	SCN 3	SCN 14	M. i. TN	M. a. TN
HUTCHESON	50.0	10/08	2	27	2	13.9	40.8	21.0	R	4.9	4.6	3.2	3.8	
MANOKIN	47.8	4-	2	28	2	12.3	40.8	20.1-	R	1.1	4.4	1.3	1.2	
KY94-2134	50.9	4+	1	25	2	16.0	40.7	20.4	R	5.0	4.6	2.7	4.2	
KY94-1829	49.7	0	2	34	2	13.3	39.9	21.6	S	5.0	4.6	2.0	4.4	
KY94-2343	48.3	2-	2	33	2	16.0	41.9	20.6	R	5.0	4.6	4.0	4.0	
MD94-5341	47.7	3-	2	26	2	14.7	42.9+	19.3-	S	4.1	4.7	3.7	ND	
MD94-5559	46.4	3-	2	39	2	14.0	41.3	20.6	R	5.0	4.6	4.2	4.4	
MD93-5576	46.9	2-	2	29	2	13.2	39.8	20.1-	R	1.3	4.4	3.0	1.7	
R93-154	51.1	5+	2	30	2	13.5	42.6+	19.4-	R	1.0	3.2	3.5	3.8	
R93-174	51.4	6+	2	33	2	14.3	40.6	20.2-	R	1.3	2.7	2.4	4.3	
R94-1208	49.6	4+	2	30	2	13.1	42.3+	18.8-	S	1.0	4.5	3.7	3.8	
R94-929	50.7	0	2	28	2	11.2	40.5	19.7-	R	5.0	4.6	1.4	4.0	
DT95-15550	50.0	2+	2	33	2	15.8	39.8	20.3	R	4.7	4.5	3.7	4.0	
DT95-17375	47.7	6+	2	32	2	14.8	43.8+	19.3-	R	4.0	3.8	3.8	2.6	
DT95-17556	50.5	4+	2	32	2	14.3	41.0	20.3	R	4.8	4.2	2.3	4.0	
DT95-15218	47.3	1+	2	31	2	14.3	42.0	19.2-	R	1.0	4.4	2.6	5.0	
DT95-17402	45.6	3+	2	32	2	13.0	41.5	19.3-	R	4.9	4.0	2.0	4.2	
OK91-6005	44.2	2-	2	25	2	12.8	41.0	19.2-	R	4.0	2.6	4.7	4.0	
OK92-6508	42.2-	7+	2	34	2	12.4	42.0	18.7-	S	4.6	4.2	2.5	4.0	
OK92-6520	48.5	4+	2	30	2	13.8	41.7	19.5-	S	1.0	3.3	2.7	2.8	
TN94-213	50.4	0	1	28	2	12.4	42.6+	19.1-	S	4.3	4.6	3.3	4.0	
TN94-238	49.8	3+	2	31	2	15.6	41.1	20.8	R	4.3	4.3	3.3	4.3	
TN95-268	48.7	4-	1	27	2	13.9	42.9+	19.8-	R	1.5	4.6	3.3	4.5	
TN95-235	42.9-	4-	2	29	2	10.6	41.2	19.5-	S	1.2	4.6	3.5	4.0	
OVERALL MEAN	48.3						41.4	19.9						
L. S. D. (.05)	6.1						1.4	0.7						
C. V.	9%						2%	2%						

TABLE 27B - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1997 - MEAN OF 10 LOCATIONS.

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LOGGING	HEIGHT	QUALITY	SEED SIZE	---PERCENT---	---	STEM CANKER	SCN 3	SCN 14	M. i. TN	M. a. TN
HUTCHESON	51.8	10/08	2	28	2	14.0	41.0	21.1	R	4.9	5.0	3.7	4.0
MANOKIN	49.2	3-	2	29	2	12.7	40.5	20.2-	R	1.0	4.7	3.0	1.4
N95-90	48.0-	1+	2	31	2	13.7	44.0+	19.7-	S	4.6	4.7	2.8	1.0
N95-183	44.4-	3+	3	40	2	15.5	42.3+	19.9-	R	3.8	5.0	3.6	4.2
N95-198	47.8-	0	2	43	2	15.3	43.3+	19.7-	S	4.4	4.8	3.7	4.4
N95-229	48.1-	1-	2	25	2	14.7	40.5	21.3	R	3.5	4.3	4.5	4.2
N95-670	50.2	4+	2	28	2	13.9	44.2+	19.1-	S	2.3	3.2	2.3	4.0
N95-7431	36.4-	10+	3	36	2	20.4	41.1	19.8-	S	3.7	4.5	3.3	2.0
S94-1955	54.2	0	1	27	2	13.3	40.3	20.0-	S	1.1	1.0	4.6	4.2
S94-1433	51.5	2+	2	34	2	11.5	41.3	18.7-	S	1.0	1.0	5.0	4.0
S95-1908	55.8+	9+	2	36	2	13.3	41.5	19.4-	R	1.1	1.0	3.8	4.4
S95-1874	50.2	3+	2	34	2	12.9	40.4	19.2-	R	4.4	2.0	2.2	4.0
S95-2151	51.9	3+	2	37	2	14.6	42.1+	18.8-	S	2.0	1.0	4.3	4.2
V93-1633	49.7	2+	2	29	2	13.4	41.5	20.0-	S	3.6	3.9	3.5	3.8
V93-3036	47.6-	0	2	29	2	15.1	41.7	20.0-	R	4.7	3.4	3.0	3.8
V93-3056	47.5-	1-	2	30	2	13.4	41.1	20.6-	R	3.0	3.9	4.3	4.5
V93-3114	51.0	3+	2	33	2	14.0	40.0-	20.9	R	3.9	4.1	3.6	4.3
V92-697	52.5	6+	2	32	2	13.2	40.0-	20.7	R	1.0	2.2	3.8	4.6
K1392	49.9	0	2	29	2	12.5	41.1	20.4-	S	1.0	2.9	4.6	4.3
K1393	52.0	7+	2	29	2	14.1	41.7	20.9	S	3.4	4.6	2.0	3.7
K1394	48.8	0	1	28	2	12.6	40.9	20.6-	S	2.0	4.3	4.5	4.0
K1395	49.8	1-	2	29	2	13.4	37.8-	21.3	S	1.0	4.0	4.0	4.3
K1396	48.9	7+	2	29	2	14.3	42.2+	20.0-	R	3.0	4.6	4.2	4.3
VS94-08	40.5-	0	3	40	2	18.1	43.1+	19.5-	R	3.5	4.3	3.0	4.3
OVERALL MEAN	49.1						41.4	20.1					
L. S. D. (.05)	3.6						1.0	0.5					
C. V.	8%						2%	2%					

TABLE 28A - SEED YIELD IN BUSHELS PER ACRE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1997.

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	42.9	59.1	55.0	26.4	58.8	51.9	45.2	59.7	49.9	51.5	50.0
MANOKIN	42.6	47.2	51.6	34.6+	62.8	53.6	41.2	54.2-	41.8	48.2	47.8
KY94-2134	41.6	55.9	54.6	25.1	71.4	51.9	52.1+	56.1	50.7	49.4	50.9
KY94-1829	41.2	46.3-	55.9	31.8+	60.1	55.8	50.9	51.8-	51.5	51.8	49.7
KY94-2343	40.9	45.6-	51.5	21.4	62.8	51.3	52.7+	56.4	50.3	49.8	48.3
MD94-5341	37.9	51.6	56.7	25.0	61.5	48.8	47.0	51.2-	42.6	55.0	47.7
MD94-5559	38.3	58.6	50.2	27.0	58.7	51.8	48.5	45.6-	37.7	47.3	46.4
MD93-5576	37.6	43.4-	51.9	27.2	61.4	47.8	45.1	55.4	52.5	46.7	46.9
R93-154	56.0	61.8	48.7-	40.7+	69.4	52.6	36.4-	52.2-	44.6	48.3	51.1
R93-174	52.1	57.3	55.8	35.1+	66.4	52.9	40.9	57.3	45.8	50.2	51.4
R94-1208	42.4	53.7	51.6	31.6+	69.1	53.2	43.0	53.6-	47.4	50.7	49.6
R94-929	43.2	57.2	50.8	37.5+	65.7	53.5	43.9	58.5	46.6	50.4	50.7
DT95-15550	39.7	58.1	51.6	25.5	63.2	51.4	51.7+	55.7	50.1	52.8	50.0
DT95-17375	42.9	49.1	47.2-	30.6	66.2	54.5	42.5	53.5-	42.3	47.8	47.7
DT95-17556	47.7	56.2	51.0	38.6+	53.6	55.1	45.0	60.8	45.4	51.9	50.5
DT95-15218	36.4	48.4	53.2	28.6	65.0	51.7	44.7	54.4-	44.3	46.5	47.3
DT95-17402	41.2	41.8-	54.1	21.1-	54.2	51.7	44.4	54.9	45.2	47.7	45.6
OK91-6005	39.7	48.0	45.9-	22.5	60.6	46.5	43.0	51.6-	36.7	47.1	44.2
OK92-6508	42.5	37.9-	44.0-	20.8-	57.8	39.9	38.5-	47.8-	46.5	46.3	42.2-
OK92-6520	44.0	48.1	45.6-	39.9+	65.2	49.9	42.5	56.3	41.7	51.7	48.5
TN94-213	42.3	57.9	51.8	23.6	69.4	49.7	45.7	62.2	51.3	50.5	50.4
TN94-238	42.7	59.9	54.2	28.4	62.0	51.9	47.8	58.6	44.6	47.5	49.8
TN95-268	36.0	62.3	52.5	31.4	55.3	51.3	49.4	56.3	46.4	46.6	48.7
TN95-235	32.7	39.7-	39.2-	25.7	56.9	48.0	48.5	43.3-	47.1	48.0	42.9-
L. S. D. (0.05)	4.6	12.5	5.3	5.1	14.7	8.3	5.7	4.9	13.6	6.3	6.1
C. V. (%)	6.7	11.6	5.0	8.4	11.4	7.9	6.1	4.4	14.3	6.2	8.9

TABLE 28B - SEED YIELD IN BUSHELS PER ACRE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1997.

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	52.2	51.9	52.1	31.9	66.3	53.2	48.7	62.2	45.3	54.6	51.8
MANOKIN	47.3	40.6	52.7	37.3	62.7	50.6	46.5	51.0-	51.5	51.5	49.2
N95-90	48.9	47.2	47.7	28.5	59.5	51.9	44.1	48.6-	49.0	54.3	48.0-
N95-183	45.9	48.0	44.1-	25.2	53.0-	50.4	44.1	40.0-	39.8	53.1	44.4-
N95-198	48.7	46.9	50.7	28.7	58.3	50.3	48.5	51.4-	41.4	53.2	47.8-
N95-229	49.9	51.0	43.1-	30.0	58.1	50.3	46.7	48.8-	46.1	56.8	48.1-
N95-670	50.8	62.9	50.6	34.9	57.0	48.0	47.9	50.0-	45.4	54.1	50.2
N95-7431	36.4	30.2-	33.9-	19.5-	54.2-	40.1	33.7-	33.2-	36.6	46.6-	36.4-
S94-1955	60.1	58.5	53.5	36.2	72.8	54.7	46.2	51.7-	53.7	54.6	54.2
S94-1433	52.8	52.1	52.1	34.7	64.3	56.7	41.8-	56.5-	52.4	51.5	51.5
S95-1908	58.2	55.6	55.2	40.1	70.7	58.3	45.6	64.0	57.8	52.1	55.8+
S95-1874	56.8	52.5	47.3	44.2+	64.5	53.6	34.3-	48.9-	48.2	52.0	50.2
S95-2151	54.7	55.1	47.7	46.8+	65.0	53.4	42.2-	58.5	44.6	51.3	51.9
V93-1633	52.7	56.4	49.0	21.0-	59.3	50.9	46.0	55.6-	49.9	56.5	49.7
V93-3036	46.6	51.0	49.5	28.1	55.5-	49.3	41.0-	53.1-	50.2	51.6	47.6-
V93-3056	47.6	49.2	50.4	25.1	57.8	49.4	44.1	51.5-	48.2	51.9	47.5-
V93-3114	52.5	53.8	52.3	24.5	61.5	48.5	46.5	59.6	56.3	54.7	51.0
V92-697	59.9	54.8	43.9-	44.6+	65.3	52.9	46.6	53.4-	49.5	54.5	52.5
K1392	58.9	49.0	50.1	36.4	63.5	50.7	43.5	50.1-	43.4	53.9	49.9
K1393	55.9	45.9	49.7	31.7	64.6	50.7	49.2	59.4	54.9	58.2	52.0
K1394	48.1	42.7	48.0	31.5	63.0	47.6	50.6	44.6-	55.0	56.6	48.8
K1395	48.6	46.8	53.8	33.5	62.4	52.0	45.6	53.7-	49.7	52.1	49.8
K1396	53.8	49.4	48.1	27.2	62.6	46.9	42.2-	54.4-	48.5	56.2	48.9
VS94-08	35.1	39.4	39.3-	34.6	49.3-	45.9	29.7-	39.6-	44.6	47.6-	40.5-
L. S. D. (0.05)	6.4	14.5	6.0	10.1	9.8	6.0	5.7	5.2	11.8	5.1	3.6
C. V. (%)	7.6	14.2	5.9	15.1	7.8	5.8	6.3	4.8	11.8	4.6	8.3

**TABLE 29A - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA,
1997.**

STRAIN/ VARIETY	JACKSON TN	PITTSBURG KS	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	20.4	21.3	20.9	19.4	21.3	21.6	22.0	21.0
MANOKIN	20.1	21.1	19.7	17.6	21.1	20.3	21.1	20.1
KY94-2134	20.6	20.2	20.3	19.6	21.2	20.2	20.8	20.4
KY94-1829	21.2	21.6	21.7	20.6	22.0	21.8	22.0	21.6
KY94-2343	20.8	21.1	20.3	19.6	20.3	20.4	21.5	20.6
MD94-5341	19.6	19.8	18.7	17.5	19.6	19.2	20.7	19.3
MD94-5559	20.3	20.6	20.1	20.1	20.3	20.5	22.4	20.6
MD93-5576	20.2	21.1	19.3	18.6	20.3	19.5	21.6	20.1
R93-154	19.2	20.6	19.2	18.5	19.4	19.3	19.6	19.4
R93-174	20.3	20.9	19.6	18.9	20.6	20.2	20.6	20.2
R94-1208	18.7	19.7	17.9	18.1	17.9	18.7	20.3	18.8
R94-929	19.4	20.5	19.7	18.8	18.7	20.0	20.7	19.7
DT95-15550	19.9	20.8	20.2	18.8	20.2	21.0	21.3	20.3
DT95-17375	19.9	19.7	19.0	17.5	19.6	19.4	20.3	19.3
DT95-17556	21.1	20.5	20.2	18.3	20.4	20.5	21.3	20.3
DT95-15218	19.7	19.2	18.9	17.8	18.9	19.4	20.6	19.2
DT95-17402	19.5	18.8	19.0	18.6	19.0	19.6	20.8	19.3
OK91-6005	19.3	19.1	19.0	18.5	18.7	19.1	21.0	19.2
OK92-6508	18.8	19.4	18.2	17.4	17.9	19.1	20.4	18.7
OK92-6520	19.6	20.7	18.9	17.7	19.3	19.4	20.7	19.5
TN94-213	18.9	18.3	19.3	18.2	18.6	19.4	21.0	19.1
TN94-238	20.6	21.1	20.5	20.3	21.3	20.7	21.4	20.8
TN95-268	20.7	20.2	19.4	18.3	20.0	19.2	20.5	19.8
TN95-235	18.9	20.3	19.0	18.8	18.9	19.3	21.4	19.5

TABLE 29B - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1997.

STRAIN/ VARIETY	JACKSON TN	PITTSBURG KS	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	21.4	21.0	20.5	20.8	21.2	20.7	22.0	21.1
MANOKIN	20.6	20.9	20.2	18.6	20.5	20.1	20.8	20.2
N95-90	20.1	20.1	19.9	19.3	19.1	19.0	20.7	19.7
N95-183	20.5	19.3	20.1	18.7	20.6	19.9	20.5	19.9
N95-198	20.3	20.0	19.3	18.1	20.1	19.3	20.5	19.7
N95-229	21.7	21.6	21.1	20.3	21.5	21.3	21.8	21.3
N95-670	19.0	19.5	18.3	18.9	19.4	18.9	19.7	19.1
N95-7431	20.1	20.2	19.6	18.1	20.2	20.2	20.1	19.8
S94-1955	20.3	20.8	19.6	18.7	20.5	19.0	21.4	20.0
S94-1433	19.1	19.2	18.4	17.8	18.6	18.0	19.5	18.7
S95-1908	20.2	19.8	19.1	18.4	18.8	19.1	20.4	19.4
S95-1874	20.7	19.6	18.8	17.9	19.0	18.7	19.9	19.2
S95-2151	19.2	19.8	18.2	17.6	18.8	18.3	20.0	18.8
V93-1633	20.7	20.5	19.9	17.9	20.1	20.1	21.1	20.0
V93-3036	20.6	20.0	19.9	18.5	20.1	20.2	20.4	20.0
V93-3056	21.2	20.4	20.4	20.0	20.5	20.4	21.6	20.6
V93-3114	21.6	20.8	20.5	19.4	21.2	21.5	21.5	20.9
V92-697	19.8	21.7	19.8	21.1	20.8	20.4	21.2	20.7
K1392	20.9	20.9	20.4	18.5	20.9	19.9	21.1	20.4
K1393	21.1	21.8	19.8	20.1	20.7	21.0	22.1	20.9
K1394	20.5	20.5	20.6	19.1	20.7	20.7	21.9	20.6
K1395	22.1	21.0	21.1	19.5	22.3	21.3	21.9	21.3
K1396	21.0	20.0	19.7	18.9	20.0	20.0	20.2	20.0
VS94-08	20.2	19.6	19.0	19.3	18.8	18.7	20.8	19.5

TABLE 30A - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1997.

STRAIN/ VARIETY	JACKSON TN	PITTSBURG KS	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	42.3	38.7	39.9	42.0	40.6	41.8	40.2	40.8
MANOKIN	41.8	39.0	40.4	42.5	41.6	41.6	38.8	40.8
KY94-2134	40.6	40.5	40.3	41.4	41.1	41.8	39.3	40.7
KY94-1829	40.2	38.9	39.5	40.4	40.4	40.7	39.5	39.9
KY94-2343	41.5	41.2	41.6	42.6	42.5	42.6	41.4	41.9
MD94-5341	43.1	42.6	43.0	44.3	43.4	43.7	40.5	42.9
MD94-5559	42.8	39.8	41.3	41.9	42.4	43.2	37.6	41.3
MD93-5576	41.6	38.0	39.8	40.8	41.0	41.0	36.7	39.8
R93-154	43.7	39.4	41.9	43.9	42.9	43.7	42.9	42.6
R93-174	41.0	39.2	39.7	41.8	40.3	41.2	40.9	40.6
R94-1208	42.6	39.8	42.6	44.1	42.9	43.8	40.5	42.3
R94-929	41.6	37.7	39.2	42.1	42.9	40.6	39.4	40.5
DT95-15550	41.2	40.1	38.7	40.7	40.1	40.0	38.1	39.8
DT95-17375	42.9	42.8	43.2	45.6	44.7	44.6	42.5	43.8
DT95-17556	41.6	39.2	40.0	43.2	41.7	41.5	39.8	41.0
DT95-15218	42.0	40.6	42.3	44.2	43.2	42.2	39.8	42.0
DT95-17402	42.1	42.1	40.8	42.5	42.1	41.3	39.7	41.5
OK91-6005	42.2	39.8	41.0	41.5	41.6	42.3	38.6	41.0
OK92-6508	42.9	39.5	42.2	43.0	44.4	42.4	39.3	42.0
OK92-6520	42.5	39.3	41.6	43.2	43.3	43.0	39.1	41.7
TN94-213	43.4	42.6	41.9	43.4	43.8	42.7	40.3	42.6
TN94-238	42.0	39.7	40.6	41.8	41.2	41.8	40.4	41.1
TN95-268	43.0	41.0	42.7	43.7	43.3	43.9	42.5	42.9
TN95-235	42.0	40.9	40.7	41.8	42.5	42.0	38.4	41.2

TABLE 30B - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1997.

STRAIN/ VARIETY	JACKSON TN	PITTSBURG KS	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	41.5	40.6	40.5	41.6	40.3	41.6	40.9	41.0
MANOKIN	40.7	38.8	40.8	41.5	41.0	41.5	39.4	40.5
N95-90	43.5	43.4	43.5	43.6	45.9	44.9	43.0	44.0
N95-183	41.9	42.2	42.6	43.0	42.2	43.0	41.4	42.3
N95-198	43.7	42.5	43.8	43.8	43.3	44.3	42.0	43.3
N95-229	41.1	39.1	40.5	41.2	40.2	41.4	39.9	40.5
N95-670	45.6	43.7	44.6	43.6	45.3	44.2	42.7	44.2
N95-7431	41.2	38.7	42.0	41.7	41.8	41.3	41.0	41.1
S94-1955	40.7	37.4	41.2	40.7	40.6	42.7	38.7	40.3
S94-1433	41.8	38.9	42.1	42.3	41.8	43.0	39.5	41.3
S95-1908	42.1	39.2	41.6	41.6	44.0	42.3	40.0	41.5
S95-1874	40.4	38.9	40.8	41.0	40.7	41.8	39.4	40.4
S95-2151	42.7	40.4	42.7	42.8	41.6	43.6	41.0	42.1
V93-1633	41.0	39.0	41.3	43.9	41.7	42.8	41.1	41.5
V93-3036	41.6	41.0	41.2	42.5	41.7	42.5	41.2	41.7
V93-3056	41.6	39.0	41.2	42.0	41.4	42.5	40.2	41.1
V93-3114	40.6	39.3	40.0	41.2	39.3	39.5	40.4	40.0
V92-697	41.5	36.2	40.6	42.0	39.4	41.2	39.1	40.0
K1392	40.4	38.9	42.3	42.2	41.5	42.1	40.5	41.1
K1393	42.5	39.0	40.1	43.1	42.5	43.2	41.3	41.7
K1394	41.4	40.3	40.0	42.4	41.2	41.3	39.9	40.9
K1395	37.7	36.2	38.4	39.5	37.6	38.3	37.1	37.8
K1396	42.1	40.8	42.0	43.0	42.4	42.8	42.2	42.2
VS94-08	43.7	41.8	44.0	43.1	44.5	44.6	40.0	43.1

TABLE 31A - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1997.

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	PITTSBURG KS	PLYMOUTH MO	PORTAGEVILLE MO(A)	QUEENSTOWN MD	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	15.7	12.5	11.7	17.1	12.4	14.7	13.0	14.4	13.9
MANOKIN	12.8	12.6	11.2	13.9	10.7	13.4	10.8	13.2	12.3
KY94-2134	17.1	15.0	14.8	17.0	14.7	17.2	15.4	16.5	16.0
KY94-1829	14.6	12.7	11.8	15.0	11.5	15.0	12.7	13.1	13.3
KY94-2343	17.3	15.3	13.6	17.5	14.4	19.0	14.0	17.0	16.0
MD94-5341	15.9	13.4	12.6	18.1	13.1	15.7	13.3	15.3	14.7
MD94-5559	14.9	14.0	12.0	16.7	12.8	15.9	11.9	14.1	14.0
MD93-5576	13.5	13.8	11.5	15.1	10.8	15.3	11.8	14.0	13.2
R93-154	16.1	13.0	13.0	15.2	11.6	14.6	12.1	12.7	13.5
R93-174	15.0	14.0	13.5	16.5	12.2	15.3	13.4	14.9	14.3
R94-1208	14.6	11.6	12.4	15.1	11.6	14.5	12.3	12.5	13.1
R94-929	12.3	11.4	8.4	13.6	10.0	11.9	10.6	11.1	11.2
DT95-15550	16.6	14.9	14.3	18.0	13.7	17.5	14.8	16.7	15.8
DT95-17375	14.9	13.5	13.8	17.3	12.3	16.0	13.8	16.5	14.8
DT95-17556	15.7	13.3	11.7	17.2	12.5	14.8	14.1	15.0	14.3
DT95-15218	15.6	13.1	13.2	16.2	12.6	15.0	13.8	15.0	14.3
DT95-17402	13.8	12.3	11.9	15.4	11.1	14.2	12.0	13.7	13.0
OK91-6005	14.5	12.7	11.4	14.5	11.7	13.7	10.7	13.6	12.8
OK92-6508	13.3	11.5	11.4	14.4	11.0	13.2	12.3	12.5	12.4
OK92-6520	13.8	13.5	14.0	15.3	11.7	15.7	12.6	13.8	13.8
TN94-213	13.5	12.2	11.3	13.6	10.6	13.7	11.6	13.0	12.4
TN94-238	16.5	15.0	14.7	17.4	14.2	17.9	13.9	14.9	15.6
TN95-268	14.9	14.2	11.7	15.3	12.8	15.5	12.4	14.5	13.9
TN95-235	11.4	10.3	9.7	11.4	9.7	11.9	9.2	11.2	10.6

TABLE 31B - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1997.

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	PITTSBURG KS	PLYMOUTH MO	PORTAGEVILLE MO(A)	QUEENSTOWN MD	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	15.6	12.9	12.1	17.2	12.1	15.1	12.9	14.4	14.0
MANOKIN	13.5	11.9	12.3	14.5	11.1	14.1	10.8	13.8	12.7
N95-90	14.2	12.5	11.7	16.7	11.8	15.7	13.3	13.9	13.7
N95-183	16.7	14.8	13.3	17.7	14.5	16.5	14.1	16.7	15.5
N95-198	17.5	14.3	14.4	15.9	14.2	16.4	14.1	15.9	15.3
N95-229	15.7	15.4	12.2	16.8	13.8	15.1	13.0	15.4	14.7
N95-670	15.0	13.4	12.6	15.7	11.6	15.3	13.6	14.4	13.9
N95-7431	21.1	16.8	16.5	26.2	18.8	20.9	21.6	21.3	20.4
S94-1955	14.6	12.6	11.6	16.2	12.1	14.4	11.1	13.7	13.3
S94-1433	12.8	11.9	10.0	13.0	10.6	12.0	10.5	11.5	11.5
S95-1908	15.5	12.5	12.6	14.5	12.0	13.6	12.6	13.2	13.3
S95-1874	14.9	12.2	11.3	15.5	11.1	13.3	11.5	13.3	12.9
S95-2151	15.9	13.2	13.8	16.8	13.2	15.6	13.2	14.9	14.6
V93-1633	15.1	12.8	11.4	15.7	11.7	14.9	11.4	14.2	13.4
V93-3036	15.2	15.5	13.7	17.6	13.0	16.1	13.8	15.9	15.1
V93-3056	15.1	12.5	11.4	15.7	11.5	15.0	12.4	13.9	13.4
V93-3114	14.9	12.8	11.8	16.8	11.8	15.5	13.4	14.8	14.0
V92-697	14.4	12.3	11.7	17.1	11.8	13.4	12.6	12.5	13.2
K1392	14.0	11.8	11.9	14.3	10.5	14.4	10.4	12.7	12.5
K1393	16.4	13.1	12.0	16.9	12.1	16.0	13.7	12.4	14.1
K1394	14.0	11.0	10.6	15.1	10.9	13.9	12.4	13.1	12.6
K1395	15.6	12.9	11.6	15.2	12.1	14.5	12.2	12.8	13.4
K1396	16.1	13.6	12.8	16.6	12.5	14.8	14.1	13.6	14.3
VS94-08	17.6	16.7	16.1	20.4	19.0	18.8	17.7	18.6	18.1

TABLE 32A - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1997.

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	26	27	30	26	28	33	29	20	25	28	27
MANOKIN	32	23	27	33	24	35	33	20	25	31	28
KY94-2134	25	27	24	27	24	33	24	19	26	24	25
KY94-1829	28	36	42	30	34	41	30	35	38	29	34
KY94-2343	26	34	39	29	36	37	35	34	33	30	33
MD94-5341	23	27	25	28	25	32	30	19	25	23	26
MD94-5559	32	41	45	37	40	45	41	39	37	37	39
MD93-5576	26	26	27	33	27	33	34	23	28	30	29
R93-154	31	29	29	31	32	38	32	20	27	34	30
R93-174	32	33	35	28	36	37	37	25	32	34	33
R94-1208	24	33	29	32	30	33	37	21	30	29	30
R94-929	24	26	30	27	31	34	31	19	24	30	28
DT95-15550	32	30	34	32	35	41	38	24	32	36	33
DT95-17375	30	30	32	33	34	41	35	24	27	37	32
DT95-17556	37	31	30	34	31	35	35	24	28	37	32
DT95-15218	32	31	32	32	29	41	35	21	27	30	31
DT95-17402	34	29	32	34	32	37	34	23	28	37	32
OK91-6005	26	29	25	27	26	28	26	19	21	26	25
OK92-6508	35	29	34	34	34	43	37	29	32	38	34
OK92-6520	25	29	34	36	31	36	32	21	29	34	30
TN94-213	26	30	28	27	30	33	29	20	29	27	28
TN94-238	24	32	33	34	30	37	38	22	29	33	31
TN95-268	27	29	27	28	27	28	29	20	29	25	27
TN95-235	22	25	27	32	27	38	39	20	28	28	29

TABLE 32B - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1997.

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	25	28	30	30	34	29	30	17	30	29	28
MANOKIN	28	23	29	33	29	35	36	19	24	30	29
N95-90	28	34	31	29	31	34	32	21	38	33	31
N95-183	33	40	45	31	44	45	42	41	40	38	40
N95-198	39	43	46	37	44	50	43	43	46	40	43
N95-229	24	25	25	25	25	30	27	17	24	25	25
N95-670	28	30	28	28	27	30	29	18	32	28	28
N95-7431	31	33	33	39	40	41	39	23	41	41	36
S94-1955	36	32	24	26	27	28	25	16	27	26	27
S94-1433	37	32	34	35	34	38	38	22	36	40	34
S95-1908	39	36	36	33	38	43	37	24	37	37	36
S95-1874	38	34	33	34	36	40	37	23	34	37	34
S95-2151	39	36	32	38	41	44	41	25	40	40	37
V93-1633	26	31	28	27	36	30	33	17	31	32	29
V93-3036	26	32	30	31	32	30	35	19	30	31	29
V93-3056	29	32	32	32	32	32	33	18	33	33	30
V93-3114	33	31	33	32	36	42	38	22	31	37	33
V92-697	32	23	31	33	36	39	39	19	36	36	32
K1392	32	30	26	34	32	32	36	17	27	29	29
K1393	28	29	30	28	34	32	29	22	29	31	29
K1394	27	29	25	29	34	34	31	16	31	30	28
K1395	31	30	30	31	31	30	32	19	32	30	29
K1396	33	28	26	27	33	32	30	18	30	30	29
VS94-08	32	33	39	41	41	49	44	34	43	41	40

TABLE 33A - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1997.

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	0	3	1	1	3	1	3	2	1	2	2
MANOKIN	2	3	2	2	2	2	4	2	1	3	2
KY94-2134	0	2	1	1	2	1	3	2	1	1	1
KY94-1829	0	3	2	1	2	1	3	3	1	1	2
KY94-2343	0	3	1	1	2	1	4	3	1	1	2
MD94-5341	0	2	2	1	2	1	3	2	1	2	2
MD94-5559	1	3	3	1	2	3	4	3	1	2	2
MD93-5576	0	3	1	2	3	1	4	2	1	2	2
R93-154	1	3	1	2	3	2	4	2	2	3	2
R93-174	1	3	1	1	2	1	4	2	1	3	2
R94-1208	1	3	2	2	3	2	4	2	2	2	2
R94-929	0	3	2	1	2	1	4	2	1	2	2
DT95-15550	1	3	2	1	3	2	4	2	2	2	2
DT95-17375	1	2	1	1	3	1	4	2	1	3	2
DT95-17556	1	2	1	1	3	1	3	2	1	3	2
DT95-15218	1	2	2	1	2	2	4	2	1	2	2
DT95-17402	1	3	3	2	3	1	4	2	1	3	2
OK91-6005	0	3	1	2	2	1	3	2	1	2	2
OK92-6508	2	3	2	2	3	2	4	2	1	3	2
OK92-6520	0	3	2	1	3	1	4	2	1	2	2
TN94-213	0	2	1	1	2	1	3	2	1	1	1
TN94-238	0	2	1	1	2	1	4	2	1	2	2
TN95-268	0	3	1	1	2	1	3	2	1	1	1
TN95-235	0	3	1	1	2	1	4	2	1	1	2

TABLE 33B - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1997.

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	0	3	1	1	3	1	3	2	1	2	2
MANOKIN	2	3	2	2	3	1	4	2	3	3	2
N95-90	0	2	1	1	3	1	3	2	2	2	2
N95-183	1	4	2	1	3	3	4	5	2	3	3
N95-198	1	3	1	1	2	2	4	3	2	2	2
N95-229	1	3	1	1	2	1	3	2	1	1	2
N95-670	1	2	1	1	2	1	3	2	1	3	2
N95-7431	2	3	1	2	3	2	4	2	4	3	3
S94-1955	0	2	1	1	2	1	2	2	1	1	1
S94-1433	1	3	2	1	3	1	4	2	1	2	2
S95-1908	2	3	1	1	3	1	4	2	1	3	2
S95-1874	2	3	2	1	3	1	4	2	1	3	2
S95-2151	2	3	1	1	2	1	4	2	1	3	2
V93-1633	1	2	1	1	2	1	3	2	1	3	2
V93-3036	0	2	2	1	2	1	4	2	1	3	2
V93-3056	0	3	2	1	2	1	4	2	1	2	2
V93-3114	0	3	1	1	3	1	4	2	1	3	2
V92-697	1	4	2	1	3	2	4	2	3	3	2
K1392	0	3	1	1	2	1	3	2	1	2	2
K1393	2	3	1	1	3	1	4	2	1	3	2
K1394	0	2	1	1	2	1	2	2	1	2	1
K1395	1	3	2	1	3	1	4	2	1	2	2
K1396	0	3	1	1	2	1	3	2	1	2	2
VS94-08	3	4	3	2	3	4	5	4	4	3	3

TABLE 34A - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1997.

STRAIN/ VARIETY	JACKSON TN	PITTSBURG KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	2	2	3	2	1	2	1	2	2
MANOKIN	2	3	3	2	2	2	2	4	2
KY94-2134	3	3	3	2	1	2	2	2	2
KY94-1829	2	3	3	2	1	2	2	2	2
KY94-2343	3	3	3	2	2	2	1	3	2
MD94-5341	2	3	3	2	2	2	2	2	2
MD94-5559	2	3	2	2	2	2	2	3	2
MD93-5576	2	3	2	2	1	2	2	3	2
R93-154	3	2	2	2	2	2	1	2	2
R93-174	3	2	2	2	2	2	1	1	2
R94-1208	2	2	2	2	2	2	1	2	2
R94-929	3	2	2	2	2	2	1	2	2
DT95-15550	1	4	2	2	1	2	2	2	2
DT95-17375	1	2	2	2	2	2	1	2	2
DT95-17556	3	2	2	2	2	2	1	2	2
DT95-15218	3	2	2	2	1	2	1	2	2
DT95-17402	2	2	2	2	2	2	1	2	2
OK91-6005	2	3	2	2	1	2	2	2	2
OK92-6508	3	2	2	2	2	2	2	2	2
OK92-6520	2	3	2	2	2	2	2	3	2
TN94-213	2	2	2	2	1	2	1	2	2
TN94-238	2	3	2	2	1	2	1	2	2
TN95-268	1	2	3	2	1	2	2	2	2
TN95-235	3	2	3	2	2	2	2	2	2

TABLE 34B - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1997.

STRAIN/ VARIETY	JACKSON TN	PITTSBURG KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	2	2	3	2	1	2	1	2	2
MANOKIN	1	2	2	2	2	2	2	3	2
N95-90	2	2	2	2	1	2	1	2	2
N95-183	2	2	2	2	2	2	1	2	2
N95-198	2	3	2	2	2	2	1	2	2
N95-229	1	2	2	2	2	3	2	2	2
N95-670	2	3	2	2	1	2	1	2	2
N95-7431	3	3	2	2	2	2	2	2	2
S94-1955	2	3	2	2	3	2	2	2	2
S94-1433	2	3	2	2	2	2	2	3	2
S95-1908	3	2	2	2	2	2	2	2	2
S95-1874	3	2	2	2	1	2	1	2	2
S95-2151	2	2	2	2	2	2	1	2	2
V93-1633	1	3	2	1	1	2	1	2	2
V93-3036	2	2	2	2	1	2	2	2	2
V93-3056	1	2	3	2	1	2	1	2	2
V93-3114	2	2	2	2	1	2	1	2	2
V92-697	2	2	2	2	2	2	1	2	2
K1392	2	2	2	2	1	2	2	1	2
K1393	2	2	2	2	2	2	1	2	2
K1394	2	2	2	2	1	2	1	2	2
K1395	1	3	3	2	2	2	1	2	2
K1396	2	2	2	2	1	2	1	1	2
VS94-08	3	3	2	2	3	2	2	2	2

UNIFORM GROUP VI

1997

Uniform Group VI nurseries were planted at 24 locations. Data were obtained from 22 of these locations. The parentage for each strain is reported in Table 35. Table 36 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 37 - 42.

TABLE 35 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 1997.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BRIM	YOUNG X N77-1102	F7
2. DILLON	CENTENNIAL X YOUNG	F5
3. BOGGS	G81-152 X COKER 6738	F6
4. G91-291	COKER 82-622 X BRYAN	F5
5. G92-2381	COKER 82-622 X G83-12	F6
6. G92-1110	BRYAN X COKER 6727	F5
7. R90-149	D83-3349 X ASG A5474	
8. R92-1258	HUTCHESON X WALTERS	
9. R93-151	ASG A5403 X HUTCHESON	
10. AU92-3414	G83-969 X N86-491	F6
11. AU92-763	G83-198 X AU85-1088	F6
12. AU92-3222	G83-969 X N86-491	F6
13. N93-132	BRIM X (N87-2117-3 X BRIM)	F6
14. N94-552	HOLLADAY X BRIM	F6
15. N94-3405	N87-539 X HARTWIG	F6
16. TN93-142	HUTCHESON X (TN85-55 X TN83-26)	
17. S93-1344	A6785 X HARTWIG	F5
18. SC91-2007	NK'S S83-30 X HUTCHESON	F5
19. SC93-827	COKER 6847 X HAGOOD	F5
20. SC93-2679	COKER 82-622 X HOWARD	F5
21. V92-0163	HUTCHESON X FORREST	F5
22. OK89-5606	BEDFORD X MITCHELL	

TABLE 36 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 1997.

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1997	96-97	95-97	1997	96-97	95-97	1997	96-97	95-97
BRIM	47.2	47.0	45.0	42.9	44.2	43.8	19.0	19.6	19.8
DILLON	46.5	46.7	44.9	41.3	42.6	42.7	20.0	20.5	20.5
BOGGS	49.0	.	.	42.3	.	.	20.0	.	.
G91-291	46.4	46.6	.	40.1	41.2	.	20.5	20.9	.
G92-2381	46.2	.	.	42.4	.	.	18.3	.	.
G92-1110	48.7	.	.	38.9	.	.	20.2	.	.
R90-149	49.4	.	.	42.2	.	.	19.3	.	.
R92-1258	47.9	47.7	.	40.7	41.6	.	20.6	21.1	.
R93-151	48.7	.	.	42.0	.	.	20.1	.	.
AU92-3414	46.8	46.9	.	42.4	43.4	.	19.2	19.7	.
AU92-763	47.5	47.5	.	40.9	41.6	.	19.4	20.6	.
AU92-3222	44.7	.	.	40.2	.	.	19.6	.	.
N93-132	47.9	47.0	.	41.6	43.1	.	19.9	20.8	.
N94-552	48.2	.	.	42.0	.	.	18.8	.	.
N94-3405	47.3	.	.	42.8	.	.	19.3	.	.
TN93-142	47.9	47.5	.	41.5	42.2	.	19.9	20.2	.
S93-1344	45.1	.	.	41.0	.	.	19.3	.	.
SC91-2007	51.1	49.4	46.9	42.5	43.1	42.9	20.1	20.6	20.7
SC93-827	45.0	.	.	43.3	.	.	18.8	.	.
SC93-2679	47.2	.	.	41.1	.	.	19.2	.	.
V92-0163	45.6	.	.	42.7	.	.	20.3	.	.
OK89-5606	45.4	.	.	39.9	.	.	21.2	.	.

†Data from Beaumont, TX (1997); Whiteville, NC, Beaumont, TX, Baton Rouge, LA (1996) not included in mean.

TABLE 36 - Continued.

BOTANICAL TRAITS								
STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
BRIM	W	10/12	2	36	2	12.9	G	BR
DILLON	P	0	1	33	2	14.1	G	T
BOGGS	W	6+	2	30	2	13.1	T	T
G91-291	P	5+	2	36	2	14.3	G	T
G92-2381	W	6+	1	31	2	12.1	G	T
G92-1110	P	5+	2	35	2	13.8	T	T
R90-149	W	2+	2	33	2	13.1	G	T
R92-1258	SEG	0	1	33	2	14.6	G	T
R93-151	P	0	1	29	2	14.9	G	T
AU92-3414	P	2+	1	31	2	13.0	G	T
AU92-763	W	2+	1	29	2	11.2	SEG	T
AU92-3222	P	9+	2	36	2	12.7	T	T
N93-132	W	0	2	38	2	14.0	G	BR
N94-552	W	4+	2	34	2	12.8	G	BR
N94-3405	W	0	2	37	2	12.7	G	BR
TN93-142	W	2+	1	30	2	15.0	G	T
S93-1344	W	1-	1	28	2	11.9	G	T
SC91-2007	W	8+	2	37	2	14.5	G	T
SC93-827	W	7+	3	34	2	12.6	G	T
SC93-2679	W	7+	2	35	2	13.3	T	T
V92-0163	W	4-	2	30	2	14.4	G	T
OK89-5606	P	3+	1	30	2	14.6	G	T

Table 36 - Continued.

STRAIN/ VARIETY	STEM CANKER	PEST REACTIONS			
		SCN 3	SCN 14	M. i. GA	M. a. GA
BRIM	S	5.0	4.7	2.5	3.8
DILLON	S	4.9	4.6	2.0	4.5
BOGGS	R	1.0	4.7	1.5	3.0
G91-291	R	1.0	4.4	1.0	4.0
G92-2381	R	1.4	5.0	1.0	3.0
G92-1110	R	1.0	4.0	1.0	3.0
R90-149	S	1.0	1.2	5.0	4.0
R92-1258	R	4.9	3.3	5.0	4.5
R93-151	R	1.0	1.2	4.5	4.5
AU92-3414	S	4.7	4.4	4.8	3.0
AU92-763	S	1.1	4.2	1.0	3.8
AU92-3222	S	1.1	4.8	1.3	4.0
N93-132	S	5.0	4.5	4.3	3.8
N94-552	S	5.0	4.7	4.8	4.5
N94-3405	S	4.9	5.0	5.0	4.5
TN93-142	R	1.0	2.0	5.0	4.5
S93-1344	S	1.1	1.0	4.5	3.8
SC91-2007	R	1.0	3.5	1.8	3.8
SC93-827	S	1.0	4.4	1.5	4.0
SC93-2679	S	1.0	2.8	1.3	2.8
V92-0163	S	4.7	5.0	4.3	5.0
OK89-5606	S	4.5	4.6	4.8	3.8

TABLE 37 - SEED YIELD, IN BUSHELS PER ACRE FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1997.

STRAIN/ VARIETY	EAST		MEAN
	PLYMOUTH NC	WARSAW VA	
BRIM	57.4	48.4	52.9
DILLON	57.9	45.0	51.4
BOGGS	57.7	47.6	52.6
G91-291	53.6	42.6	48.1
G92-2381	57.9	42.7	50.3
G92-1110	59.0	43.1	51.1
R90-149	65.8	46.5	56.1
R92-1258	58.2	46.0	52.1
R93-151	62.0	49.6	55.8
AU92-3414	60.3	49.9	55.1
AU92-763	55.2	42.6	48.9
AU92-3222	51.9	31.0	41.5
N93-132	55.3	50.9	53.1
N94-552	51.8	49.1	50.5
N94-3405	50.5	46.9	48.7
TN93-142	65.4	45.8	55.6
S93-1344	60.1	49.9	55.0
SC91-2007	59.4	40.8	50.1
SC93-827	53.7	43.6	48.6
SC93-2679	56.2	39.4	47.8
V92-0163	56.7	48.0	52.4
OK89-5606	55.7	45.2	50.4
L. S. D. (0.05)	7.6	4.3	.
C. V. (%)	8.0	5.8	.

TABLE 37 - Continued.

SOUTH												
STRAIN/ VARIETY	ATHENS GA	BATON ROUGE LA	BELLE MINA AL	BLACK- VILLE SC	CALHOUN GA	CLEMSON SC	FAIR- HOPE AL	JAY FL	STARKVILLE MS	TALLASSEE AL	TIFTON GA	MEAN
BRIM	48.2	38.2	30.8	32.0	52.9	48.4	29.7	19.0	58.7	37.6	54.7	40.9
DILLON	50.2	44.7	31.2	34.0	55.8	54.2	26.8	21.3	57.0	37.8	48.6	42.0
BOGGS	55.9	41.1	36.6	31.8	58.8	58.4	32.3	25.7	58.6	37.2	57.9	44.9
G91-291	46.2	44.8	33.1	28.0	52.9	53.5	24.4	19.0	58.1	41.3	50.3	41.1
G92-2381	43.8	44.7	34.0	29.4	59.7	55.0	24.2	17.0	54.3	38.2	41.3	40.2
G92-1110	44.2	47.1	35.7	30.9	61.6	57.3	30.1	21.7	55.7	45.6	51.1	43.7
R90-149	50.5	40.2	33.7	28.1	55.8	53.8	34.0	15.7	52.9	49.1	59.9	43.1
R92-1258	48.5	42.5	36.8	29.4	47.7	53.8	33.2	20.7	60.7	39.1	52.1	42.2
R93-151	51.7	41.3	37.0	31.9	56.7	56.9	35.5	14.0	49.5	40.0	36.4	41.0
AU92-3414	50.9	42.7	35.0	33.8	56.4	53.6	31.7	19.0	59.6	40.8	41.6	42.3
AU92-763	51.6	43.7	33.6	34.0	61.6	62.5	25.6	11.0	54.0	44.1	52.6	43.1
AU92-3222	32.8	40.2	38.3	31.1	51.2	50.2	24.2	20.0	58.9	42.2	54.1	40.3
N93-132	36.0	40.0	32.4	30.8	55.0	52.7	34.0	13.0	64.6	30.4	59.0	40.7
N94-552	48.1	43.7	35.6	30.5	57.1	56.0	26.6	18.0	61.0	46.6	41.7	42.3
N94-3405	44.0	36.1	32.2	29.4	56.1	49.8	29.1	16.3	60.5	37.5	63.0	41.3
TN93-142	45.3	42.0	41.5	30.3	49.1	51.4	22.2	22.7	52.2	39.2	51.1	40.6
S93-1344	53.8	41.8	31.7	31.6	49.0	55.6	33.9	20.0	52.2	33.3	37.3	40.0
SC91-2007	50.4	40.8	35.7	33.6	56.0	57.5	23.5	27.0	63.4	44.2	57.4	44.5
SC93-827	45.4	34.8	37.5	23.9	49.9	53.6	32.5	16.7	63.2	29.6	48.2	39.6
SC93-2679	48.0	41.2	36.1	26.4	46.9	52.9	28.4	24.3	60.9	39.9	51.6	41.5
V92-0163	48.7	35.7	32.9	33.3	53.1	51.6	35.3	16.3	46.7	30.6	46.4	39.1
OK89-5606	45.1	40.5	34.6	32.1	57.5	55.5	23.6	20.3	55.2	39.3	42.4	40.5
L. S. D. (0.05)	8.8	3.5	4.6	6.8	6.8	6.3	8.4	.	6.0	8.6	14.3	.
C. V. (%)	11.3	5.0	7.6	13.4	7.2	7.1	7.6	.	6.3	13.3	16.9	.

TABLE 37 - Continued.

STRAIN/ VARIETY	DELTA				MEAN
	PINETREE AR	PORTAGEVILLE MO(B)	ROHWER AR	STONEVILLE MS	
BRIM	55.3	47.9	60.5	41.0	51.2
DILLON	60.7	42.4	55.3	45.8	51.0
BOGGS	44.1	50.0	65.7	46.4	51.5
G91-291	49.6	48.9	61.7	37.7	49.5
G92-2381	57.0	44.8	63.1	37.7	50.6
G92-1110	46.2	47.9	65.9	43.6	50.9
R90-149	56.5	50.9	59.8	53.8	55.2
R92-1258	53.2	50.0	66.8	51.9	55.5
R93-151	62.5	48.1	63.0	50.4	56.0
AU92-3414	50.3	41.9	59.1	48.2	49.9
AU92-763	65.6	41.7	57.0	40.5	51.2
AU92-3222	56.4	48.6	62.0	35.2	50.5
N93-132	64.0	48.5	66.2	41.4	55.0
N94-552	63.1	48.1	63.2	42.3	54.2
N94-3405	57.3	49.5	61.0	37.7	51.4
TN93-142	61.9	53.7	53.6	50.2	54.8
S93-1344	49.6	47.8	47.4	47.7	48.1
SC91-2007	54.0	53.9	70.4	39.6	54.5
SC93-827	58.0	44.8	59.2	35.1	49.3
SC93-2679	53.9	48.1	57.9	31.5	47.8
V92-0163	53.8	44.5	62.3	50.9	52.9
OK89-5606	55.2	36.4	58.2	47.8	49.4
L. S. D. (0.05)	9.6	5.4	9.9	3.9	.
C. V. (%)	10.4	7.0	7.8	5.5	.

TABLE 37 - Continued.

STRAIN/ VARIETY	WEST				MEAN
	BEAUMONT TX†	BIXBY OK	BOSSIER CITY LA	STUTT GART AR	
BRIM	24.3	47.0	72.5	63.4	61.0
DILLON	16.7	48.9	63.4	48.9	53.7
BOGGS	25.2	50.2	72.1	51.8	58.0
G91-291	27.8	48.9	83.4	50.1	60.8
G92-2381	27.3	49.4	66.6	63.8	59.9
G92-1110	21.6	52.5	89.7	45.0	62.4
R90-149	24.3	54.2	70.2	56.3	60.2
R92-1258	27.1	48.1	68.4	50.0	55.5
R93-151	24.5	58.3	74.2	55.6	62.7
AU92-3414	20.9	47.5	61.6	51.8	53.6
AU92-763	15.3	46.1	73.4	53.4	57.6
AU92-3222	23.7	49.6	69.9	47.3	55.6
N93-132	10.0	50.8	77.5	56.2	61.5
N94-552	24.8	46.1	85.6	49.3	60.3
N94-3405	26.0	48.4	81.5	59.0	63.0
TN93-142	20.2	55.0	71.2	54.3	60.2
S93-1344	17.2	57.0	52.2	50.1	53.1
SC91-2007	28.1	49.5	106.4	59.1	71.7
SC93-827	28.5	53.3	73.0	44.7	57.0
SC93-2679	27.3	45.6	95.8	59.8	67.1
V92-0163	21.8	47.2	65.7	52.5	55.1
OK89-5606	7.0	46.6	64.9	52.0	54.5
L. S. D. (0.05)	9.6	6.6	14.6	12.6	.
C. V. (%)	26.0	8.0	11.8	11.4	.

†Not included in Mean.

TABLE 38 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1997.

OIL PERCENTAGE

STRAIN/ VARIETY	BELLE										PORTAGE-							MEAN
	ATHENS GA	BEAUMONT TX	MINA AL	BIXBY OK	BLACKVILLE SC	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	PINETREE AR	PLYMOUTH NC	VILLE MO(B)	STARKVILLE MS	STONEVILLE MS	TALLASSEE AL	TIFTON GA	WARSAW VA	
BRIM	18.7	18.0	17.5	.	21.1	.	.	18.2	20.3	18.4	.	17.0	.	17.8	22.2	.	19.0	19.0
DILLON	20.2	19.0	19.6	.	21.7	.	.	19.3	21.0	19.6	.	17.4	.	19.6	21.7	.	20.1	20.0
BOGGS	19.5	19.5	19.7	.	21.5	.	.	19.7	20.8	19.8	.	18.4	.	18.9	23.2	.	18.9	20.0
G91-291	20.4	20.4	19.3	.	21.9	.	.	18.8	20.5	21.8	.	19.4	.	19.3	22.9	.	20.2	20.5
G92-2381	18.3	17.9	18.1	.	20.4	.	.	16.3	17.9	19.1	.	16.7	.	17.3	20.6	.	18.5	18.3
G92-1110	20.0	19.8	20.1	.	21.5	.	.	19.0	20.5	21.4	.	18.3	.	18.7	23.4	.	19.2	20.2
R90-149	19.1	18.1	19.3	.	20.8	.	.	18.7	17.6	19.5	.	18.1	.	18.4	21.4	.	20.0	19.3
R92-1258	21.0	20.1	20.5	.	21.4	.	.	20.2	20.9	19.7	.	19.4	.	20.5	22.0	.	20.7	20.6
R93-151	19.7	20.0	20.1	.	20.8	.	.	20.2	19.0	20.2	.	19.1	.	20.2	21.3	.	20.3	20.1
AU92-3414	19.1	18.3	19.1	.	19.5	.	.	18.2	18.8	19.8	.	17.5	.	18.7	21.1	.	19.7	19.2
AU92-763	19.5	18.6	18.0	.	21.5	.	.	18.5	18.5	19.8	.	17.5	.	18.2	22.9	.	19.7	19.4
AU92-3222	19.3	19.5	20.0	.	19.4	.	.	18.1	21.3	20.3	.	18.4	.	19.1	21.6	.	18.9	19.6
N93-132	19.5	18.0	17.7	.	22.0	.	.	19.8	17.6	21.4	.	18.4	.	19.9	22.9	.	20.0	19.9
N94-552	18.2	16.5	17.8	.	20.6	.	.	17.4	18.6	19.4	.	17.5	.	18.5	20.7	.	19.1	18.8
N94-3405	18.0	18.2	17.8	.	21.1	.	.	18.1	19.5	19.4	.	17.4	.	19.7	22.5	.	19.5	19.3
TN93-142	19.4	19.1	19.5	.	20.7	.	.	20.5	19.7	20.4	.	18.2	.	19.4	21.7	.	19.8	19.9
S93-1344	18.5	17.2	19.1	.	20.8	.	.	18.8	20.2	18.5	.	17.4	.	18.2	20.8	.	20.3	19.3
SC91-2007	20.1	19.5	20.6	.	22.0	.	.	18.3	19.9	20.8	.	18.5	.	18.2	22.8	.	20.1	20.1
SC93-827	18.6	18.4	18.9	.	20.2	.	.	17.5	19.6	17.9	.	17.1	.	16.9	21.6	.	19.2	18.8
SC93-2679	19.5	18.9	19.1	.	20.2	.	.	18.3	19.9	19.4	.	17.7	.	17.8	21.0	.	18.8	19.2
V92-0163	19.6	20.3	19.8	.	20.9	.	.	20.0	21.4	19.2	.	19.4	.	19.8	21.8	.	20.7	20.3
OK89-5606	21.1	19.8	20.3	.	22.5	.	.	21.5	20.2	21.0	.	19.1	.	20.8	24.6	.	21.2	21.2

TABLE 38 - Continued.

PROTEIN PERCENTAGE

STRAIN/ VARIETY	BELLE										PORTAGE-							MEAN
	ATHENS GA	BEAUMONT TX	MINA AL	BIXBY OK	BLACKVILLE SC	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	PINETREE AR	PLYMOUTH NC	VILLE MO(B)	STARKVILLE MS	STONEVILLE MS	TALLASSEE AL	TIFTON GA	WARSAW VA	
BRIM	44.2	46.3	43.6	.	38.2	.	.	46.2	42.8	44.7	.	44.9	.	43.5	37.5	.	43.2	42.9
DILLON	40.7	48.2	40.7	.	37.4	.	.	44.4	42.1	42.3	.	43.2	.	42.3	38.7	.	40.7	41.3
BOGGS	44.0	46.1	41.5	.	37.9	.	.	44.7	44.6	43.0	.	43.3	.	44.1	37.2	.	43.1	42.3
G91-291	41.0	44.1	40.7	.	35.6	.	.	44.3	42.8	37.1	.	41.5	.	42.1	35.9	.	40.2	40.1
G92-2381	42.4	45.8	41.6	.	37.1	.	.	47.0	45.2	41.7	.	44.2	.	43.8	38.7	.	42.6	42.4
G92-1110	39.3	44.7	39.2	.	34.2	.	.	43.6	40.7	36.0	.	41.7	.	40.7	33.9	.	39.6	38.9
R90-149	42.3	49.2	42.3	.	38.5	.	.	44.8	45.4	42.0	.	43.0	.	41.8	39.7	.	41.7	42.2
R92-1258	40.5	46.0	41.0	.	37.3	.	.	43.1	42.1	42.2	.	41.0	.	41.3	37.8	.	40.3	40.7
R93-151	42.2	44.4	42.2	.	39.7	.	.	43.2	45.1	42.0	.	42.1	.	41.7	40.2	.	42.0	42.0
AU92-3414	43.0	48.0	42.1	.	40.0	.	.	45.1	42.9	42.1	.	43.4	.	43.6	39.8	.	41.5	42.4
AU92-763	40.7	47.1	41.3	.	36.1	.	.	44.9	44.7	40.7	.	42.2	.	42.0	36.2	.	40.6	40.9
AU92-3222	39.9	44.9	39.9	.	36.3	.	.	44.8	41.7	40.1	.	41.4	.	40.7	37.4	.	39.3	40.2
N93-132	42.3	47.3	42.7	.	36.8	.	.	45.0	45.2	38.7	.	44.6	.	42.4	36.4	.	41.8	41.6
N94-552	43.4	47.8	42.0	.	37.5	.	.	45.3	44.5	41.3	.	43.5	.	42.2	38.2	.	42.5	42.0
N94-3405	44.4	46.9	43.8	.	38.6	.	.	46.4	44.5	43.7	.	44.9	.	43.2	36.0	.	42.6	42.8
TN93-142	42.0	45.2	42.0	.	37.5	.	.	42.6	43.3	42.5	.	42.6	.	41.8	38.8	.	42.2	41.5
S93-1344	40.7	46.8	41.3	.	37.2	.	.	43.9	44.2	42.2	.	42.2	.	40.2	39.2	.	38.8	41.0
SC91-2007	42.6	46.5	41.9	.	39.4	.	.	46.2	44.2	41.6	.	43.6	.	44.2	37.8	.	43.5	42.5
SC93-827	43.9	47.6	42.4	.	40.2	.	.	46.4	43.3	44.6	.	45.8	.	45.0	38.7	.	42.7	43.3
SC93-2679	40.8	45.1	39.4	.	38.3	.	.	44.3	45.8	41.1	.	42.1	.	42.0	36.3	.	41.1	41.1
V92-0163	44.2	48.6	43.3	.	40.7	.	.	44.8	41.3	44.3	.	41.3	.	43.6	41.4	.	42.4	42.7
OK89-5606	39.7	46.5	39.9	.	36.1	.	.	41.8	42.1	41.1	.	44.0	.	39.8	35.0	.	39.6	39.9

TABLE 38 - Continued.

GRAMS PER 100 SEED

STRAIN/ VARIETY	BELLE										PORTAGE-								MEAN
	ATHENS GA	BEAUMONT TX	MINA AL	BIXBY OK	BLACKVILLE SC	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	PINETREE AR	PLYMOUTH NC	VILLE MO(B)	STARKVILLE MS	STONEVILLE MS	TALLASSEE AL	TIFTON GA	WARSAW VA		
BRIM	12.1	11.8	11.4	13.1	.	14	11.6	.	12	11.0	14.0	11.1	15.5	.	11.7	18	11.9	12.9	
DILLON	14.3	11.9	13.6	13.3	.	16	14.7	.	10	15.3	16.1	11.0	14.9	.	12.6	18	14.0	14.1	
BOGGS	13.7	11.2	11.8	13.1	.	14	13.2	.	14	14.5	14.3	11.2	13.2	.	10.5	15	12.1	13.1	
G91-291	14.8	12.0	13.6	15.0	.	16	13.2	.	14	12.8	15.8	12.5	13.9	.	12.8	18	13.9	14.3	
G92-2381	11.4	10.8	11.4	12.0	.	12	11.5	.	12	11.9	13.4	10.5	13.4	.	11.2	15	11.7	12.1	
G92-1110	14.5	12.1	13.8	14.0	.	15	13.6	.	13	12.4	14.9	11.8	13.8	.	12.1	16	13.8	13.8	
R90-149	12.6	11.3	12.8	13.8	.	14	12.7	.	12	12.9	14.3	11.2	12.4	.	13.1	16	13.0	13.1	
R92-1258	14.3	12.3	14.7	16.0	.	16	13.6	.	13	15.2	15.4	12.3	15.6	.	13.7	17	13.3	14.6	
R93-151	13.8	11.7	14.8	16.9	.	16	15.1	.	13	14.8	16.1	12.1	14.4	.	13.1	19	14.1	14.9	
AU92-3414	12.4	12.6	11.8	13.5	.	14	12.4	.	13	14.7	13.5	10.1	14.9	.	11.3	16	11.7	13.0	
AU92-763	10.9	12.6	10.9	11.1	.	11	11.0	.	11	11.5	11.9	9.0	12.8	.	10.7	13	10.8	11.2	
AU92-3222	11.1	10.7	12.8	14.3	.	15	12.5	.	11	12.0	14.4	11.1	15.2	.	10.2	15	10.9	12.7	
N93-132	13.5	12.8	13.2	15.2	.	16	13.5	.	11	13.9	15.6	12.3	15.1	.	11.9	17	13.6	14.0	
N94-552	12.0	10.9	11.2	12.6	.	14	12.3	.	12	13.0	13.3	11.4	12.1	.	12.2	18	11.7	12.8	
N94-3405	12.1	11.6	12.5	12.4	.	14	12.0	.	13	11.9	13.7	11.1	13.0	.	11.3	16	11.9	12.7	
TN93-142	13.8	11.1	14.5	17.7	.	16	13.8	.	14	15.2	16.7	14.0	15.6	.	12.2	18	13.8	15.0	
S93-1344	11.0	11.9	10.7	12.6	.	13	11.4	.	12	12.0	11.5	10.0	15.7	.	10.6	14	10.7	11.9	
SC91-2007	14.7	12.1	14.5	16.0	.	15	13.7	.	14	14.0	16.0	14.0	13.5	.	12.3	18	13.1	14.5	
SC93-827	12.5	12.3	12.2	12.8	.	13	11.5	.	12	12.1	13.3	11.6	14.8	.	10.7	16	11.0	12.6	
SC93-2679	14.4	12.9	12.2	13.5	.	13	13.1	.	12	13.3	14.2	12.4	15.4	.	10.7	16	12.5	13.3	
V92-0163	14.4	11.1	14.8	15.6	.	16	14.5	.	13	14.6	14.9	11.9	13.8	.	12.6	18	13.0	14.4	
OK89-5606	14.1	10.9	13.7	14.9	.	17	16.0	.	11	14.3	16.4	12.3	14.7	.	13.3	18	14.1	14.6	

TABLE 39 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BRIM VARIETY IN UNIFORM GROUP VI, 1997.

STRAIN/ VARIETY	EAST		
	PLYMOUTH	WARSAW	MEAN
	NC	VA	
BRIM	10/24	10/22	10/23
DILLON	4	7	6
BOGGS	8	7	8
G91-291	4	7	5
G92-2381	8	7	8
G92-1110	0	8	4
R90-149	8	6	7
R92-1258	1	6	4
R93-151	0	5	2
AU92-3414	1	5	3
AU92-763	6	6	6
AU92-3222	3	9	6
N93-132	0	1	0
N94-552	1	3	2
N94-3405	-2	-2	-2
TN93-142	5	7	6
S93-1344	5	5	5
SC91-2007	2	8	5
SC93-827	4	7	6
SC93-2679	6	8	7
V92-0163	-2	-4	-3
OK89-5606	0	5	3

TABLE 39 - Continued.

STRAIN/ VARIETY	SOUTH											
	ATHENS GA	BATON ROUGE LA	BELLE MINA AL	BLACKVILLE SC	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	STARKVILLE MS	TALLASSEE AL	TIFTON GA	MEAN
BRIM	10/07	.	10/08	10/08	10/09	10/19	09/29	10/20	10/04	10/10	10/05	10/09
DILLON	3	.	-2	1	0	8	1	0	-8	0	-5	0
BOGGS	13	.	2	4	3	17	7	10	2	3	-2	6
G91-291	6	.	5	9	2	5	7	0	4	6	3	5
G92-2381	11	.	6	10	4	8	7	0	2	4	8	6
G92-1110	11	.	5	7	3	10	3	-5	3	5	2	4
R90-149	8	.	-1	-1	0	15	1	0	-5	3	1	2
R92-1258	5	.	-2	-1	0	9	2	-5	-6	0	-3	0
R93-151	2	.	-2	-2	-1	5	2	-5	-8	2	0	-1
AU92-3414	3	.	-4	4	0	8	2	3	-3	0	4	2
AU92-763	7	.	0	2	0	12	1	0	-4	5	-1	2
AU92-3222	19	.	6	13	13	24	9	10	9	6	2	11
N93-132	2	.	1	1	-2	2	-1	-5	2	-1	0	0
N94-552	4	.	4	4	3	6	4	0	2	3	3	3
N94-3405	0	.	0	0	-1	-1	-2	-5	-2	-1	-2	-1
TN93-142	4	.	-1	-1	2	9	2	3	-8	2	2	1
S93-1344	4	.	-9	1	-1	11	-2	-5	-8	3	-1	-1
SC91-2007	12	.	6	16	4	9	9	3	8	6	4	8
SC93-827	11	.	6	14	6	7	9	10	8	6	5	8
SC93-2679	13	.	6	11	4	10	8	-5	10	6	9	7
V92-0163	-1	.	-9	-1	0	3	-3	-5	-12	-7	-13	-5
OK89-5606	3	.	1	5	-1	5	2	-5	2	1	3	2

TABLE 39 - Continued.

STRAIN/ VARIETY	DELTA			
	PORTAGEVILLE	ROHWER	STONEVILLE	MEAN
	MO(B)	AR	MS	
BRIM	10/16	10/08	10/03	10/09
DILLON	-2	-4	-3	-1
BOGGS	6	2	0	5
G91-291	3	7	2	5
G92-2381	5	9	1	7
G92-1110	3	5	1	5
R90-149	1	-1	-5	0
R92-1258	-2	-4	-5	-1
R93-151	-2	-4	-5	-1
AU92-3414	0	0	-5	1
AU92-763	-1	-1	-8	-1
AU92-3222	7	6	1	7
N93-132	0	-1	0	0
N94-552	3	5	0	5
N94-3405	0	0	0	1
TN93-142	1	-1	-6	0
S93-1344	-2	-6	-8	-3
SC91-2007	6	9	5	8
SC93-827	5	9	3	7
SC93-2679	6	7	4	8
V92-0163	-2	-7	-7	-4
OK89-5606	-1	4	5	4

TABLE 39 - Continued.

STRAIN/ VARIETY	WEST				MEAN
	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	STUTT GART AR	
BRIM	10/10	11/08	10/13	.	10/26
DILLON	-10	0	-6	.	-3
BOGGS	-5	0	0	.	0
G91-291	17	0	7	.	3
G92-2381	11	0	7	.	4
G92-1110	6	0	5	.	2
R90-149	-11	0	-4	.	-2
R92-1258	-2	0	-3	.	-1
R93-151	-9	0	-1	.	-1
AU92-3414	-5	0	-2	.	-1
AU92-763	-11	0	2	.	1
AU92-3222	-3	0	9	.	5
N93-132	-3	0	-1	.	0
N94-552	10	0	6	.	3
N94-3405	-1	0	-1	.	0
TN93-142	-13	0	-2	.	-1
S93-1344	-16	0	-6	.	-3
SC91-2007	15	0	10	.	5
SC93-827	17	0	7	.	4
SC93-2679	16	0	11	.	6
V92-0163	-14	0	-4	.	-2
OK89-5606	-11	0	2	.	1

TABLE 40 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1997

STRAIN/ VARIETY	EAST		MEAN
	PLYMOUTH NC	WARSAW VA	
BRIM	39	40	40
DILLON	39	39	39
BOGGS	35	35	35
G91-291	42	42	42
G92-2381	38	35	37
G92-1110	42	42	42
R90-149	38	39	39
R92-1258	40	36	38
R93-151	37	36	36
AU92-3414	38	37	37
AU92-763	35	35	35
AU92-3222	41	42	42
N93-132	41	41	41
N94-552	38	41	39
N94-3405	39	39	39
TN93-142	37	36	37
S93-1344	35	35	35
SC91-2007	43	40	42
SC93-827	38	38	38
SC93-2679	39	40	40
V92-0163	33	35	34
OK89-5606	38	36	37

TABLE 40 - Continued.

STRAIN/ VARIETY	SOUTH										
	ATHENS GA	BELLE MINA AL	BLACKVILLE SC	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	STARKVILLE MS	TALLASSEE AL	TIFTON GA	MEAN
BRIM	37	31	44	38	39	28	33	34	27	28	34
DILLON	37	31	42	41	38	27	31	30	30	30	34
BOGGS	31	30	36	33	34	21	28	26	27	25	29
G91-291	40	35	45	40	40	30	30	29	31	28	35
G92-2381	36	32	40	36	36	25	24	26	25	25	30
G92-1110	43	32	45	42	41	28	31	28	31	28	35
R90-149	36	29	43	38	38	25	31	28	27	27	32
R92-1258	38	31	39	38	40	29	31	33	27	28	33
R93-151	32	24	36	29	38	22	31	25	24	20	28
AU92-3414	36	29	39	36	36	24	30	26	26	26	31
AU92-763	33	26	35	34	33	22	29	25	26	23	29
AU92-3222	39	36	43	41	41	30	30	30	30	36	35
N93-132	38	33	44	45	40	31	36	36	28	27	36
N94-552	36	30	44	39	38	28	34	34	30	24	34
N94-3405	36	34	45	42	41	28	31	34	28	31	35
TN93-142	32	28	35	30	36	19	32	27	25	26	29
S93-1344	32	24	37	29	36	22	33	24	22	23	28
SC91-2007	41	33	47	43	41	30	35	32	31	32	36
SC93-827	36	31	42	39	39	25	32	31	26	30	33
SC93-2679	39	35	44	40	40	26	34	29	28	26	34
V92-0163	33	28	33	34	38	23	26	27	25	26	29
OK89-5606	36	25	39	31	38	22	32	26	27	23	30

TABLE 40 - Continued.

STRAIN/ VARIETY	DELTA					MEAN
	PINETREE AR	PORTAGEVILLE MO(B)	ROHWER AR	STONEVILLE MS		
BRIM	35	45	30	38	37	
DILLON	29	35	22	28	28	
BOGGS	26	36	22	30	28	
G91-291	35	40	25	34	33	
G92-2381	29	34	22	32	29	
G92-1110	27	39	25	30	30	
R90-149	32	35	23	30	30	
R92-1258	28	35	21	36	30	
R93-151	30	30	20	26	26	
AU92-3414	28	29	20	28	26	
AU92-763	31	31	19	24	26	
AU92-3222	34	39	28	32	33	
N93-132	38	41	33	42	38	
N94-552	38	38	24	26	32	
N94-3405	34	40	29	44	37	
TN93-142	27	35	18	32	28	
S93-1344	29	28	17	26	25	
SC91-2007	33	40	28	34	34	
SC93-827	34	42	26	26	32	
SC93-2679	36	40	25	34	34	
V92-0163	28	32	20	34	29	
OK89-5606	27	33	22	30	28	

TABLE 40 - Continued.

STRAIN/ VARIETY	WEST				MEAN
	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	
BRIM	30	34	42	44	40
DILLON	28	29	35	33	32
BOGGS	22	29	33	33	32
G91-291	29	35	35	42	37
G92-2381	24	33	31	35	33
G92-1110	29	35	39	38	37
R90-149	28	36	31	32	33
R92-1258	27	32	31	33	32
R93-151	24	34	28	26	29
AU92-3414	29	32	34	31	32
AU92-763	24	28	29	29	29
AU92-3222	30	39	38	37	38
N93-132	32	38	45	41	41
N94-552	27	35	38	36	36
N94-3405	29	38	44	40	41
TN93-142	27	39	28	32	33
S93-1344	23	34	29	28	30
SC91-2007	28	42	37	38	39
SC93-827	30	39	38	39	39
SC93-2679	29	38	37	40	38
V92-0163	24	33	27	31	30
OK89-5606	25	29	31	30	30

TABLE 41 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1997

STRAIN/ VARIETY	EAST		MEAN
	PLYMOUTH NC	WARSAW VA	
BRIM	3	3	3
DILLON	3	2	3
BOGGS	4	3	3
G91-291	4	2	3
G92-2381	3	2	3
G92-1110	4	3	3
R90-149	4	2	3
R92-1258	3	2	3
R93-151	3	2	3
AU92-3414	3	2	3
AU92-763	3	2	3
AU92-3222	4	3	3
N93-132	4	3	3
N94-552	3	3	3
N94-3405	3	3	3
TN93-142	3	2	3
S93-1344	4	2	3
SC91-2007	3	2	3
SC93-827	4	3	4
SC93-2679	4	2	3
V92-0163	3	3	3
OK89-5606	3	2	3

TABLE 41 - Continued.

STRAIN/ VARIETY	SOUTH										
	ATHENS GA	BELLE MINA AL	BLACKVILLE SC	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	STARKVILLE MS	TALLASSEE AL	TIFTON GA	MEAN
BRIM	3	1	1	2	3	1	1	2	1	1	2
DILLON	2	1	1	1	2	1	1	2	1	1	1
BOGGS	3	2	2	1	3	1	1	2	2	1	2
G91-291	2	1	2	2	3	1	1	2	1	1	2
G92-2381	2	1	1	1	1	1	1	1	1	1	1
G92-1110	3	1	3	2	3	1	1	2	1	1	2
R90-149	2	1	2	1	3	1	1	2	1	1	2
R92-1258	2	1	2	1	2	1	1	2	1	1	1
R93-151	2	1	1	1	2	1	1	1	1	1	1
AU92-3414	2	2	1	1	2	1	1	2	1	1	1
AU92-763	2	1	1	2	2	1	2	2	1	1	1
AU92-3222	3	2	4	2	4	1	2	2	2	1	2
N93-132	2	1	2	2	4	1	2	2	1	1	2
N94-552	3	1	2	2	3	1	1	2	2	1	2
N94-3405	2	1	2	2	3	1	2	2	1	1	2
TN93-142	2	1	1	1	2	1	2	1	1	1	1
S93-1344	2	1	1	1	2	1	2	1	1	1	1
SC91-2007	3	2	2	1	3	1	2	2	1	1	2
SC93-827	4	3	4	3	4	2	2	3	2	1	3
SC93-2679	2	1	2	1	3	1	1	2	1	1	2
V92-0163	2	2	1	2	3	1	1	2	2	1	2
OK89-5606	2	1	1	1	2	1	1	2	1	1	1

TABLE 41 - Continued.

STRAIN/ VARIETY	DELTA				MEAN
	PINETREE AR	PORTAGEVILLE MO(B)	ROHWER AR	STONEVILLE MS	
BRIM	2	2	1	3	2
DILLON	1	1	1	2	1
BOGGS	1	3	1	2	2
G91-291	2	2	1	2	2
G92-2381	1	1	1	2	1
G92-1110	2	2	1	2	2
R90-149	1	1	1	2	1
R92-1258	1	1	1	2	1
R93-151	1	1	1	2	1
AU92-3414	1	1	1	2	1
AU92-763	1	1	1	2	1
AU92-3222	1	1	1	3	2
N93-132	2	1	1	3	2
N94-552	2	2	1	2	2
N94-3405	2	1	1	3	2
TN93-142	1	1	1	2	1
S93-1344	1	1	1	2	1
SC91-2007	1	2	1	2	2
SC93-827	3	3	1	2	2
SC93-2679	2	3	1	2	2
V92-0163	1	1	1	2	1
OK89-5606	2	1	1	2	1

TABLE 41 - Continued.

STRAIN/ VARIETY	WEST				MEAN
	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	
BRIM	1	1	1	2	1
DILLON	1	.	1	1	1
BOGGS	1	3	1	1	2
G91-291	1	2	1	1	1
G92-2381	1	.	1	1	1
G92-1110	2	2	1	1	1
R90-149	1	1	1	1	1
R92-1258	1	1	1	1	1
R93-151	1	.	1	1	1
AU92-3414	1	2	1	1	1
AU92-763	1	.	1	1	1
AU92-3222	1	3	2	1	2
N93-132	1	3	1	2	2
N94-552	1	3	1	2	2
N94-3405	1	3	1	2	2
TN93-142	1	1	1	1	1
S93-1344	1	1	1	1	1
SC91-2007	1	3	1	1	2
SC93-827	2	4	1	3	3
SC93-2679	1	1	1	2	1
V92-0163	1	4	1	2	2
OK89-5606	1	1	1	1	1

TABLE 42 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1997.

STRAIN/ VARIETY	EAST		MEAN
	PLYMOUTH NC	WARSAW VA	
BRIM	2	1	2
DILLON	2	2	2
BOGGS	2	2	2
G91-291	2	2	2
G92-2381	2	2	2
G92-1110	2	2	2
R90-149	2	2	2
R92-1258	2	2	2
R93-151	2	2	2
AU92-3414	2	1	2
AU92-763	2	2	2
AU92-3222	2	2	2
N93-132	2	1	2
N94-552	2	2	2
N94-3405	2	2	2
TN93-142	3	2	2
S93-1344	2	2	2
SC91-2007	2	2	2
SC93-827	2	2	2
SC93-2679	2	2	2
V92-0163	2	2	2
OK89-5606	3	2	3

TABLE 42 - Continued.

STRAIN/ VARIETY	SOUTH								
	ATHENS GA	BELLE MINA AL	CALHOUN GA	FAIRHOPE AL	JAY FL	STARKVILLE MS	TALLASSEE AL	TIFTON GA	MEAN
BRIM	2	1	1	1	4	1	1	3	2
DILLON	2	1	2	1	3	2	1	3	2
BOGGS	2	1	2	1	3	2	1	2	2
G91-291	2	1	1	1	3	2	1	2	2
G92-2381	2	1	2	1	3	2	1	2	2
G92-1110	2	1	2	1	4	2	1	2	2
R90-149	2	1	2	1	3	2	1	4	2
R92-1258	2	1	2	1	3	1	1	4	2
R93-151	2	1	2	1	3	2	1	4	2
AU92-3414	2	1	1	1	4	2	1	5	2
AU92-763	2	1	2	1	3	1	1	2	2
AU92-3222	2	1	3	1	4	2	1	2	2
N93-132	2	1	2	1	3	2	1	2	2
N94-552	2	1	2	1	4	2	1	2	2
N94-3405	2	1	2	1	4	1	1	2	2
TN93-142	2	1	2	1	4	2	2	3	2
S93-1344	2	1	2	1	4	2	1	3	2
SC91-2007	2	1	1	1	3	2	1	1	2
SC93-827	2	1	1	1	4	2	1	1	2
SC93-2679	2	1	2	1	4	2	1	2	2
V92-0163	2	1	2	1	4	1	1	4	2
OK89-5606	2	1	2	1	4	1	1	4	2

TABLE 42 - Continued.

STRAIN/ VARIETY	DELTA			MEAN
	PINETREE AR	PORTAGEVILLE MO(B)	STONEVILLE MS	
BRIM	2	1	2	2
DILLON	1	1	2	1
BOGGS	2	2	2	2
G91-291	2	2	2	2
G92-2381	1	2	2	2
G92-1110	2	2	2	2
R90-149	2	2	2	2
R92-1258	2	2	2	2
R93-151	3	2	2	2
AU92-3414	3	2	2	2
AU92-763	2	2	2	2
AU92-3222	3	2	2	2
N93-132	2	1	3	2
N94-552	3	1	2	2
N94-3405	3	2	2	2
TN93-142	3	2	3	3
S93-1344	2	2	2	2
SC91-2007	2	2	2	2
SC93-827	1	2	2	2
SC93-2679	3	2	2	2
V92-0163	3	1	2	2
OK89-5606	3	2	2	2

TABLE 42 - Continued.

STRAIN/ VARIETY	WEST
	BEAUMONT TX
BRIM	3
DILLON	2
BOGGS	2
G91-291	2
G92-2381	2
G92-1110	2
R90-149	2
R92-1258	2
R93-151	2
AU92-3414	1
AU92-763	2
AU92-3222	2
N93-132	3
N94-552	2
N94-3405	3
TN93-142	3
S93-1344	1
SC91-2007	2
SC93-827	3
SC93-2679	3
V92-0163	2
OK89-5606	2

PRELIMINARY GROUP VI**1997**

Preliminary Group VI nurseries were planted at 10 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 43. Table 44 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 45 - 51.

**TABLE 43 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI,
1997.**

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BRIM	YOUNG X N77-1102	F7
2. DILLON	CENTENNIAL X YOUNG	F5
3. BOGGS	G81-152 X COKER 6738	F6
4. G93-383	G87-5108 X LYON	F6
5. G94-1448	G86-1434 X DOLES	F5
6. G94-1223	G86-1434 X DOLES	F5
7. G94-1132	G86-1434 X DOLES	F5
8. G94-1559	G86-1434 X G85-373	F5
9. VS95-78	[L760132 X ESSEX(2)] X [L760132 X ESSEX (2)]	F6
10. VS95-96	[PI 159319 X ESSEX(2)] X [L760132 X ESSEX(2)]	
11. R94-1159	BRIM X WALTERS	
12. R94-1223	BRIM X WALTERS	
13. R94-1253	BRIM X WALTERS	
14. R94-633	(ASG A5403 X HUTCHESON) X (HUTCHESON X WALTERS)	
15. SC94-1896	HAGOOD X D87-5870	F5
16. SC94-1391	COKER 6847 X COOK	F5
17. SC94-1547	NK'S S83-30 X BRYAN	F5
18. SC94-1075	COKER 6847 X G83-198	F5
19. N95-42	CLIFFORD X N88-192	F6
20. N95-406	N85-492 X N88-431	F6
21. N95-621	N85-492 X N88-480	F6
22. N95-723	N85-661 X AU87-547	F6
23. N95-904	PROLINA X CORSICA	F6
24. N94-7460	NTC90-143 X PEARL	
25. N95-7385	YOUNG X FUKUYATAKA	
26. N95-7390	YOUNG X FUKUYATAKA	
27. N95-7391	YOUNG X FUKUYATAKA	
28. N94-7022	PROLINA X NTCPR90-299	
29. V93-3397	STAFFORD X THOMAS	F5
30. TSB92-1299	AU82-211 X THOMAS	F5
31. TSB92-3172	SHARKEY X AU82-589	F5
32. TSB93-1032	STONEWALL X THOMAS	F5
33. LA88-90814		
34. OK92-6524	MILES X LEE 74	
35. OK93-5907	SOHOMA X FORREST	

TABLE 44 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1997 - MEAN OF 10 LOCATIONS.

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----		STEM CANKER	SCN 3	SCN 14	M. i. TN	M. a. TN
BRIM	40.0	10/15	2	35	2	12.6	42.6	19.1	S	4.6	4.3	4.2	4.6
DILLON	40.7	1-	1	34	2	13.2	42.4	19.8	S	5.0	4.9	1.5	2.7
BOGGS	42.4	4+	2	31	2	12.1	42.5	20.4+	R	1.5	5.0	1.7	1.0
G93-383	38.4	2+	3	35	2	12.3	43.8	19.0	R	1.8	3.3	1.3	1.7
G94-1448	43.0	0	1	29	2	12.0	43.5	19.3	S	2.3	3.9	1.5	3.2
G94-1223	41.0	3-	1	31	2	11.5	42.3	19.5	S	3.9	5.0	1.5	2.8
G94-1132	40.1	2+	2	31	2	12.4	43.8	19.3	S	2.9	4.6	2.3	2.4
G94-1559	41.3	4+	2	34	2	11.9	41.6	19.9	S	2.7	5.0	1.3	1.4
VS95-78	35.6-	6+	2	32	2	10.9	43.4	19.0	S	4.8	4.7	3.5	4.3
VS95-96	31.3-	9+	2	35	2	11.1	45.0+	18.0-	S	5.0	5.0	4.0	4.3
R94-1159	40.4	0	1	30	2	12.6	42.5	19.2	S	4.6	5.0	3.4	4.5
R94-1223	40.1	1-	2	30	2	12.2	43.3	19.2	S	5.0	5.0	3.7	4.3
R94-1253	37.0	5+	2	31	2	13.1	42.9	19.3	S	4.9	5.0	1.0	3.7
R94-633	40.6	1-	1	30	2	12.8	41.9	20.6+	R	4.7	5.0	5.0	4.5
SC94-1896	39.4	6+	2	35	2	14.0	43.6	19.2	S	1.0	5.0	3.5	3.4
SC94-1391	40.6	6+	2	36	2	13.8	43.0	20.1	R	1.4	4.8	1.2	1.8
SC94-1547	41.4	6+	2	35	2	12.6	42.9	19.1	S	1.5	4.8	1.2	2.8
SC94-1075	41.6	2+	1	34	2	11.9	42.1	20.3+	S	1.3	5.0	1.0	2.3
N95-42	39.7	1-	2	32	2	14.0	42.1	20.5+	S	4.7	4.3	4.0	4.2
N95-406	37.5	3+	2	37	2	16.7	43.6	20.4+	S	4.6	5.0	3.3	3.6
N95-621	40.3	1-	1	29	2	15.4	41.3	20.9+	R	4.5	4.5	4.0	4.3
N95-723	41.6	2-	2	28	2	12.6	44.0	20.2	S	1.2	2.5	1.2	2.3
N95-904	36.3	0	2	33	3	14.7	43.9	19.7	S	4.2	4.7	3.3	4.5
N94-7460	32.3-	2-	2	25	2	8.6	43.9	18.0-	R	3.7	5.0	5.0	5.0
N95-7385	31.9-	4+	3	39	3	16.7	42.2	19.9	S	4.2	4.8	4.0	4.3
N95-7390	35.3-	2+	2	35	2	17.9	43.0	20.6+	R	4.7	2.2	3.4	3.8
N95-7391	33.6-	2+	2	36	2	20.2	43.5	19.8	R	4.4	5.0	3.8	3.8
N94-7022	31.2-	2-	3	30	2	12.3	45.4+	18.1	S	4.3	4.4	3.8	4.3
V93-3397	37.7	4-	2	30	2	11.9	44.2	18.6	R	4.3	4.4	4.5	4.5
TSB92-1299	35.7-	6+	2	35	2	14.5	42.4	20.1	R	2.3	3.8	4.4	4.0
TSB92-3172	38.2	6+	2	34	2	12.9	44.0	19.0	R	5.0	5.0	4.0	3.4
TSB93-1032	35.8-	10+	2	35	2	12.5	43.1	18.5	R	5.0	4.4	1.3	1.3
LA88-90814	34.7-	9+	3	33	2	15.3	44.4	18.2	S	5.0	5.0	2.5	3.0
OK92-6524	38.7	4+	2	32	2	13.5	44.8+	18.8	S	2.6	2.6	2.2	3.7
OK93-5907	37.7	1-	2	29	2	13.3	43.5	19.7	S	2.6	4.1	4.0	3.7
OVERALL MEAN	38.1						43.2	19.5					
L. S. D. (.05)	4.2						1.8	1.1					
C. V.	12%						4%	5%					

TABLE 45 - SEED YIELD IN BUSHEL PER ACRE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BIXBY OK	BLACKVILLE SC	JAY FL	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	STUTTGART AR	TALLASSEE AL	MEAN
BRIM	36.2	36.8	52.0	30.5	19.0	45.2	49.6	37.7	51.9	40.9	40.0
DILLON	30.1	33.4	52.2	35.0	22.5	36.8	54.8	47.1+	56.4	39.1	40.7
BOGGS	36.3	33.1	48.6	34.8	23.0	36.5	58.8+	45.6	62.5	44.6	42.4
G93-383	38.6	25.3	60.0	26.0	18.0	36.6	55.8	36.1	46.8	41.3	38.4
G94-1448	42.9	35.0	47.4	32.9	23.0	35.7	61.0+	51.7+	59.4	41.3	43.0
G94-1223	43.0	36.2	51.5	26.0	21.0	32.7	56.9	48.3+	52.6	41.7	41.0
G94-1132	38.3	30.0	49.9	28.9	23.0	30.1	64.5+	45.4	50.7	40.5	40.1
G94-1559	41.2	26.5	52.8	33.3	23.5	44.9	57.2+	42.8	51.0	40.0	41.3
VS95-78	28.8	27.6	46.0	30.2	20.0	40.5	48.9	24.0-	49.9	40.2	35.6-
VS95-96	26.1-	26.0	38.9	28.1	19.0	26.6	47.1	19.5-	47.7	34.6	31.3-
R94-1159	37.9	34.5	53.4	33.9	20.5	34.2	51.5	36.7	54.6	47.0	40.4
R94-1223	34.9	27.6	55.2	32.4	21.5	32.7	52.1	36.5	57.1	50.9	40.1
R94-1253	32.4	24.4-	50.2	28.7	19.5	38.6	50.2	38.4	42.8	44.4	37.0
R94-633	37.2	25.6	54.0	34.6	19.5	42.2	57.1+	40.5	56.5	38.3	40.6
SC94-1896	34.8	30.6	49.1	31.8	18.5	35.7	60.2+	31.9	58.7	42.2	39.4
SC94-1391	35.5	33.3	54.4	29.0	17.5	41.7	60.4+	38.2	56.7	39.5	40.6
SC94-1547	33.8	41.8	52.5	31.2	19.0	39.8	62.3+	41.8	53.1	38.7	41.4
SC94-1075	33.5	35.8	55.3	30.6	22.5	49.8	51.9	45.0	53.1	38.6	41.6
N95-42	39.7	31.7	51.3	31.8	21.5	36.8	50.2	39.4	55.3	39.8	39.7
N95-406	31.1	28.3	44.3	23.7-	23.0	38.7	52.3	35.7	59.3	38.7	37.5
N95-621	33.0	34.3	51.7	35.6	23.5	32.5	58.3+	49.9+	45.0	38.7	40.3
N95-723	45.3	26.7	46.6	31.0	23.0	42.1	54.7	55.4+	54.0	37.2	41.6
N95-904	25.5-	31.9	46.1	27.2	14.5	34.5	44.7	49.3+	50.4	38.8	36.3
N94-7460	32.0	24.0-	35.8	32.9	20.5	31.9	42.7	35.0	39.2	28.7	32.3-
N95-7385	27.1	22.0-	45.1	19.6-	13.0	42.1	45.5	27.3-	44.2	32.9	31.9-
N95-7390	35.6	19.1-	41.1	26.8	16.0	38.6	53.9	38.7	46.4	36.5	35.3-
N95-7391	34.6	29.1	42.4	17.0-	11.5	37.3	47.1	34.3	47.7	34.6	33.6-
N94-7022	24.9-	28.2	40.4	24.1-	17.0	35.7	42.7	29.2-	46.1	23.9-	31.2-
V93-3397	34.2	29.7	46.6	30.1	11.5	34.6	57.2+	47.0+	51.0	35.0	37.7
TSB92-1299	37.1	24.5-	43.7	27.7	19.0	44.8	48.1	29.5-	49.5	32.9	35.7-
TSB92-3172	33.2	38.4	44.9	27.6	20.5	38.1	43.3	31.6	59.9	44.5	38.2
TSB93-1032	27.9	35.9	42.7	32.6	17.0	42.2	40.5-	23.2-	58.5	37.5	35.8-
LA88-90814	29.0	31.9	48.8	25.1	19.5	39.7	46.8	24.9-	42.2	39.6	34.7-
OK92-6524	36.7	25.6	54.1	29.9	14.5	37.1	54.5	43.1	50.7	41.0	38.7
OK93-5907	33.5	24.8-	45.3	32.9	20.5	40.3	49.0	39.7	59.5	31.7	37.7
L. S. D. (0.05)	9.4	11.9	7.6	5.9		9.5	7.3	8.0	14.7	12.2	4.2
C. V. (%)	13.5	19.5	9.7	9.8		12.5	6.9	10.3	13.9	15.3	12.3

TABLE 46 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	PETERSBURG VA	STONEVILLE MS	TALLASSEE AL	MEAN
BRIM	18.7	17.6	19.2	19.4	17.8	22.1	19.1
DILLON	19.7	18.0	20.7	19.5	19.0	22.1	19.8
BOGGS	18.8	19.5	21.8	20.4	19.4	22.5	20.4
G93-383	18.5	18.5	19.3	18.0	17.9	21.8	19.0
G94-1448	19.4	18.4	20.0	17.8	18.0	22.4	19.3
G94-1223	18.8	17.2	19.9	19.4	19.2	22.2	19.5
G94-1132	18.2	18.1	21.0	18.2	18.6	21.5	19.3
G94-1559	19.7	17.9	20.8	18.9	19.1	23.0	19.9
VS95-78	17.6	18.1	21.2	17.3	18.3	21.5	19.0
VS95-96	17.0	17.6	20.1	17.3	15.6	20.4	18.0
R94-1159	18.0	17.9	21.8	17.3	18.0	22.0	19.2
R94-1223	17.6	18.2	19.9	18.9	18.6	21.8	19.2
R94-1253	17.7	17.9	19.8	20.7	17.2	22.2	19.3
R94-633	20.3	20.0	19.6	21.4	18.3	23.9	20.6
SC94-1896	18.6	18.9	20.3	18.2	18.0	21.2	19.2
SC94-1391	19.7	19.1	20.0	20.5	19.6	21.9	20.1
SC94-1547	18.4	18.5	20.6	19.8	15.9	21.3	19.1
SC94-1075	19.7	19.2	22.2	18.8	19.2	22.9	20.3
N95-42	19.4	19.3	20.9	20.1	20.0	23.0	20.5
N95-406	20.5	20.6	21.4	17.9	20.1	21.7	20.4
N95-621	20.5	19.8	21.6	20.1	20.9	22.7	20.9
N95-723	18.9	19.3	19.7	20.4	18.7	24.2	20.2
N95-904	19.8	19.3	20.5	18.2	19.9	20.7	19.7
N94-7460	17.5	15.7	18.4	17.1	17.0	22.0	18.0
N95-7385	20.2	20.0	20.4	18.4	19.7	20.4	19.9
N95-7390	19.6	18.7	20.6	20.2	20.4	24.0	20.6
N95-7391	18.5	17.6	21.8	19.3	19.3	22.0	19.8
N94-7022	16.6	16.2	19.6	18.3	16.8	21.0	18.1
V93-3397	19.0	17.8	18.0	17.0	19.0	20.7	18.6
TSB92-1299	19.5	20.2	19.5	19.7	19.5	22.4	20.1
TSB92-3172	18.6	18.6	19.7	17.7	17.0	22.5	19.0
TSB93-1032	17.6	17.5	21.8	17.4	15.0	21.6	18.5
LA88-90814	17.6	17.2	20.1	19.5	13.9	21.0	18.2
OK92-6524	18.8	19.0	19.5	17.2	18.5	19.9	18.8
OK93-5907	19.8	19.4	21.1	17.8	20.0	20.1	19.7

TABLE 47 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	PETERSBURG VA	STONEVILLE MS	TALLASSEE AL	MEAN
BRIM	43.8	46.2	43.9	40.6	43.5	37.3	42.6
DILLON	42.1	47.6	42.4	42.4	42.5	37.6	42.4
BOGGS	43.4	46.2	43.2	39.6	44.1	38.6	42.5
G93-383	44.1	46.5	44.5	44.3	44.7	38.9	43.8
G94-1448	43.7	46.5	44.6	43.3	44.7	37.9	43.5
G94-1223	43.9	46.3	43.2	40.7	42.0	37.5	42.3
G94-1132	44.3	47.7	43.0	43.7	44.2	39.7	43.8
G94-1559	41.7	45.7	42.2	41.3	42.7	35.7	41.6
VS95-78	45.2	46.1	43.6	45.2	42.8	37.3	43.4
VS95-96	45.9	46.9	43.4	46.7	46.4	40.4	45.0
R94-1159	44.5	45.9	42.4	42.7	42.0	37.3	42.5
R94-1223	45.2	45.8	43.2	42.4	44.7	38.6	43.3
R94-1253	43.4	45.9	45.2	42.7	44.3	36.1	42.9
R94-633	42.1	46.9	44.8	39.6	42.4	35.6	41.9
SC94-1896	43.5	48.0	42.6	45.4	42.9	39.2	43.6
SC94-1391	43.1	46.3	43.7	42.5	42.8	39.7	43.0
SC94-1547	43.0	46.1	42.5	41.4	47.5	37.0	42.9
SC94-1075	41.6	46.3	41.1	45.6	41.9	36.2	42.1
N95-42	43.4	46.3	44.0	41.8	41.7	35.1	42.1
N95-406	42.9	46.9	43.6	44.2	44.1	39.6	43.6
N95-621	42.2	42.3	42.1	40.9	40.7	39.8	41.3
N95-723	45.3	50.2	45.7	42.2	45.8	34.8	44.0
N95-904	43.6	46.6	43.7	43.5	42.6	43.5	43.9
N94-7460	44.2	46.6	45.1	43.8	43.4	40.3	43.9
N95-7385	41.5	45.6	43.1	42.5	42.5	38.2	42.2
N95-7390	44.9	47.2	43.6	41.1	45.1	36.2	43.0
N95-7391	44.3	46.0	42.4	43.1	43.7	41.6	43.5
N94-7022	49.0	50.4	44.5	41.1	46.9	40.5	45.4
V93-3397	42.6	46.0	47.2	45.2	43.0	41.3	44.2
TSB92-1299	43.1	43.9	44.5	42.1	43.4	37.4	42.4
TSB92-3172	43.6	46.2	47.3	42.5	46.4	38.0	44.0
TSB93-1032	43.2	45.5	42.2	42.9	47.1	37.6	43.1
LA88-90814	45.3	49.2	44.2	40.9	49.7	37.3	44.4
OK92-6524	43.9	48.7	45.5	45.3	44.1	41.1	44.8
OK93-5907	42.6	48.6	43.6	43.4	41.7	40.9	43.5

TABLE 48 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BIXBY OK	JAY FL	PETERSBURG VA	PLYMOUTH NC	TALLASSEE AL	MEAN
BRIM	11.5	11.7	13.8	15	12	13.0	11	12.6
DILLON	12.9	9.7	14.7	14	14	15.1	12	13.2
BOGGS	11.0	9.4	13.8	14	13	12.6	11	12.1
G93-383	11.2	11.9	14.5	12	13	13.2	10	12.3
G94-1448	12.1	10.4	13.1	12	12	13.1	11	12.0
G94-1223	11.0	9.9	12.8	12	11	12.6	11	11.5
G94-1132	12.4	10.4	15.1	9	13	15.2	12	12.4
G94-1559	11.4	10.8	13.2	11	14	13.3	10	11.9
VS95-78	9.8	10.5	10.7	14	12	11.7	8	10.9
VS95-96	10.6	10.4	12.2	11	12	12.2	9	11.1
R94-1159	11.5	12.7	14.0	13	13	12.1	12	12.6
R94-1223	10.8	10.4	16.1	12	12	12.2	12	12.2
R94-1253	12.0	11.7	16.2	12	13	14.0	13	13.1
R94-633	10.6	11.6	16.7	13	13	13.7	11	12.8
SC94-1896	12.4	14.6	15.5	12	16	15.6	12	14.0
SC94-1391	12.8	14.8	15.2	11	16	14.6	12	13.8
SC94-1547	11.9	10.6	13.1	15	13	13.8	11	12.6
SC94-1075	10.5	14.1	12.7	12	12	11.2	11	11.9
N95-42	13.7	10.4	16.3	15	14	15.5	13	14.0
N95-406	16.7	11.0	20.2	16	20	19.9	13	16.7
N95-621	14.6	11.6	17.6	15	15	17.3	17	15.4
N95-723	7.0	9.9	16.7	13	13	14.7	14	12.6
N95-904	7.1	14.8	19.2	14	16	17.9	14	14.7
N94-7460	3.7	10.7	7.8	9	7	6.9	15	8.6
N95-7385	14.6	11.7	17.6	20	20	17.9	15	16.7
N95-7390	16.4	11.8	19.5	22	21	19.8	15	17.9
N95-7391	19.6	10.3	21.4	26	23	24.3	17	20.2
N94-7022	9.3	12.4	11.0	12	11	10.3	20	12.3
V93-3397	6.1	11.2	13.6	14	13	15.3	10	11.9
TSB92-1299	15.1	11.0	16.5	15	16	17.2	11	14.5
TSB92-3172	12.1	10.8	13.5	14	13	14.0	13	12.9
TSB93-1032	10.5	13.3	12.8	14	13	12.8	11	12.5
LA88-90814	16.7	12.2	17.1	16	17	17.3	11	15.3
OK92-6524	11.2	12.3	15.0	15	13	13.7	14	13.5
OK93-5907	13.0	10.8	15.0	15	13	15.0	11	13.3

TABLE 49 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BIXBY OK	BLACKVILLE SC	JAY FL	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	STUTTART AR	TALLASSEE AL	MEAN
BRIM	38	27	36	45	26	35	42	38	42	27	35
DILLON	33	26	35	44	31	27	40	40	33	32	34
BOGGS	32	28	30	38	28	25	36	32	30	27	31
G93-383	36	30	36	43	33	33	39	36	35	29	35
G94-1448	31	20	30	33	31	24	30	34	28	28	29
G94-1223	33	25	27	37	30	29	35	40	26	29	31
G94-1132	33	24	27	39	29	27	35	36	31	25	31
G94-1559	39	25	32	43	29	34	42	34	33	30	34
VS95-78	31	26	32	39	30	28	38	34	32	29	32
VS95-96	35	30	34	44	31	32	39	40	35	30	35
R94-1159	33	21	27	38	30	28	38	32	28	27	30
R94-1223	31	20	30	39	30	29	36	30	30	28	30
R94-1253	30	22	28	37	29	31	37	36	33	30	31
R94-633	32	23	33	38	29	27	35	34	29	24	30
SC94-1896	36	24	38	42	31	33	40	43	34	31	35
SC94-1391	38	22	41	47	33	34	40	38	37	29	36
SC94-1547	39	29	36	42	32	32	42	36	37	28	35
SC94-1075	37	28	34	44	36	26	41	40	32	27	34
N95-42	34	22	36	43	33	28	41	30	29	29	32
N95-406	38	30	38	48	34	35	47	38	38	23	37
N95-621	28	22	29	33	28	24	34	34	24	35	29
N95-723	31	23	25	34	32	30	34	26	24	23	28
N95-904	31	30	37	39	34	31	38	34	34	27	33
N94-7460	29	16	28	28	24	23	31	22	22	28	25
N95-7385	40	35	35	50	36	38	45	46	42	23	39
N95-7390	33	27	36	42	34	35	38	40	29	39	35
N95-7391	35	27	39	44	32	34	44	38	36	34	36
N94-7022	32	24	26	33	28	28	32	32	33	30	30
V93-3397	31	24	34	38	30	28	34	38	25	23	30
TSB92-1299	37	26	38	46	32	38	41	38	34	24	35
TSB92-3172	36	28	32	44	31	32	39	36	36	31	34
TSB93-1032	36	31	29	43	33	29	40	36	41	32	35
LA88-90814	32	26	36	40	32	28	36	32	34	32	33
OK92-6524	29	23	35	37	32	30	37	32	30	33	32
OK93-5907	28	23	32	39	30	23	35	30	26	26	29

TABLE 50 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BIXBY OK	BLACKVILLE SC	JAY FL	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	STUTTGART AR	TALLASSEE AL	MEAN
BRIM	2	1	1	2	1	2	4	3	3	1	2
DILLON	2	1	0	2	1	1	2	2	2	1	1
BOGGS	2	2	4	2	1	2	3	2	1	2	2
G93-383	3	2	3	4	1	3	4	3	3	2	3
G94-1448	2	1	0	2	1	1	4	2	1	1	1
G94-1223	2	1	0	1	1	1	3	3	1	1	1
G94-1132	2	1	1	2	1	2	3	2	1	1	2
G94-1559	2	1	2	2	1	1	4	2	2	1	2
VS95-78	2	2	2	3	1	2	4	2	3	1	2
VS95-96	2	2	1	2	1	1	3	3	1	1	2
R94-1159	2	1	1	1	1	1	3	2	2	1	1
R94-1223	2	1	0	1	1	4	3	2	2	1	2
R94-1253	2	1	3	1	1	2	3	2	2	1	2
R94-633	2	1	1	1	1	2	3	2	1	1	1
SC94-1896	2	1	1	1	2	2	3	2	1	1	2
SC94-1391	2	1	2	2	2	2	3	2	2	1	2
SC94-1547	2	1	1	1	1	2	4	2	2	1	2
SC94-1075	2	1	0	2	1	1	3	3	1	1	1
N95-42	2	1	1	2	2	1	3	2	1	1	2
N95-406	2	1	3	3	3	2	4	3	3	1	2
N95-621	1	1	0	1	1	1	2	2	1	2	1
N95-723	2	1	2	2	2	2	2	2	1	1	2
N95-904	2	2	3	3	2	1	3	3	2	1	2
N94-7460	2	1	2	1	1	2	3	2	1	1	2
N95-7385	2	2	2	5	2	3	3	3	4	1	3
N95-7390	2	2	2	3	2	2	3	2	1	2	2
N95-7391	2	1	2	3	2	2	3	3	3	2	2
N94-7022	2	1	3	4	3	2	4	3	3	2	3
V93-3397	2	1	1	2	3	1	4	2	1	1	2
TSB92-1299	2	1	2	2	2	2	4	2	2	1	2
TSB92-3172	2	2	2	3	2	2	4	2	2	1	2
TSB93-1032	3	2	2	2	2	2	3	2	2	1	2
LA88-90814	3	2	3	3	3	3	4	3	3	1	3
OK92-6524	1	1	1	1	3	2	3	2	2	2	2
OK93-5907	2	1	1	2	2	2	3	2	1	1	2

TABLE 51 - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	PETERSBURG VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
BRIM	2	2	4	3	2	2	1	2
DILLON	2	3	3	2	2	2	1	2
BOGGS	2	2	3	3	2	2	1	2
G93-383	2	2	3	3	2	2	1	2
G94-1448	2	2	4	3	2	2	1	2
G94-1223	2	2	3	3	2	3	1	2
G94-1132	2	3	4	3	2	2	1	2
G94-1559	2	2	3	3	2	2	1	2
VS95-78	2	2	3	3	2	2	1	2
VS95-96	2	2	3	3	2	2	1	2
R94-1159	2	2	3	2	2	2	1	2
R94-1223	2	2	3	2	2	2	1	2
R94-1253	2	2	3	4	2	2	1	2
R94-633	2	2	3	3	2	2	1	2
SC94-1896	2	2	3	3	2	2	1	2
SC94-1391	2	3	3	3	2	2	1	2
SC94-1547	2	3	3	4	2	2	1	2
SC94-1075	2	2	4	3	2	2	1	2
N95-42	2	2	4	3	2	2	1	2
N95-406	2	2	3	2	2	2	1	2
N95-621	2	2	4	3	2	2	1	2
N95-723	2	2	4	3	2	2	1	2
N95-904	3	3	4	3	3	2	1	3
N94-7460	2	1	3	2	2	2	2	2
N95-7385	2	2	4	3	2	2	3	3
N95-7390	2	2	2	3	2	2	1	2
N95-7391	2	2	3	2	2	2	1	2
N94-7022	2	2	3	3	3	2	1	2
V93-3397	2	3	3	3	2	2	1	2
TSB92-1299	2	2	4	3	2	2	1	2
TSB92-3172	2	1	3	3	2	2	1	2
TSB93-1032	2	2	3	3	2	2	1	2
LA88-90814	2	2	3	3	2	3	1	2
OK92-6524	2	3	4	3	2	2	1	2
OK93-5907	2	1	3	3	2	2	1	2

UNIFORM GROUP VII**1997**

Uniform Group VII nurseries were planted at 16 locations. Data were obtained from 14 of these locations. The parentage for each strain is reported in Table 52. Table 53 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 54 - 59.

TABLE 52 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 1997.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	HUTCHESON X COKER 6738	F6
2. HASKELL	JOHNSTON X BRAXTON	F5
3. G91-221	COKER 82-622 X BRYAN	F5
4. G91-151	COKER 82-622 X BRYAN	F5
5. G92-2219	COKER 82-622 X BRIM	F6
6. G92-1557	DOLES X COKER 6727	F5
7. AU92-916	N85-574 X HASKELL	F6
8. AU93-1839	TN87-198 X SC84-1531	F6
9. N93-739	BRIM X (N87-2120-3 X BRIM)	F6
10. N94-532	COOK X CLIFFORD	F6
11. SC91-1791	COKER 6847 X STONEWALL	F5
12. SC92-2482	COKER 6847 X HAGOOD	F5
13. SC92-902	BRIM X C082-622	F5
14. SC93-2082	COKER 6738 X G83-198	F5
15. N90-7199	N77-114 X 416937	
16. N94-7441	NTC90-143 X PEARL	

TABLE 53 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 1997.

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1997	96-97	95-97	1997	96-97	95-97	1997	96-97	95-97
BENNING	41.1	42.5	.	41.5	42.5	.	20.3	20.6	.
HASKELL	39.6	43.1	42.8	40.8	41.9	41.6	20.2	20.7	20.6
G91-221	41.7	43.2	.	39.6	41.2	.	21.1	21.6	.
G91-151	42.5	.	.	41.1	.	.	20.5	.	.
G92-2219	39.1	.	.	41.5	.	.	19.8	.	.
G92-1557	37.9	.	.	42.6	.	.	19.0	.	.
AU92-916	40.6	42.5	.	41.9	42.5	.	20.5	21.0	.
AU93-1839	37.9	.	.	42.9	.	.	18.9	.	.
N93-739	39.2	38.8	.	42.3	43.5	.	20.2	21.1	.
N94-532	38.9	.	.	43.8	.	.	18.0	.	.
SC91-1791	39.4	42.4	43.1	43.3	44.3	44.0	20.8	21.3	21.2
SC92-2482	42.2	43.4	.	42.0	43.2	.	20.1	20.4	.
SC92-902	40.0	43.6	.	42.3	43.4	.	19.5	19.7	.
SC93-2082	40.9	.	.	41.7	.	.	20.3	.	.
N90-7199	38.5	40.2	40.4	40.5	41.6	41.5	19.9	20.4	20.3
N94-7441	38.9	.	.	43.7	.	.	17.1	.	.

†Data from Tifton, GA (1997); Florence, SC, Jay, FL, Tifton, GA, Whiteville, NC (1995) not included in mean.

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LOGGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
BENNING	P	10/19	2	33	2	14.7	T	T
HASKELL	P	1+	2	35	2	14.5	T	T
G91-221	P	1-	1	33	2	12.9	T	T
G91-151	W	1-	1	33	2	13.1	T	T
G92-2219	W	0	2	34	2	12.2	G	T
G92-1557	P	3-	2	32	2	12.4	T	T
AU92-916	P	3+	2	36	2	16.9	G	T
AU93-1839	W	2+	2	37	2	14.6	T	T
N93-739	W	4-	1	24	2	13.6	G	BR
N94-532	P	3-	2	34	2	14.0	T	T
SC91-1791	W	3-	2	36	2	14.0	T	T
SC92-2482	W	3+	1	34	2	14.6	G	T
SC92-902	W	2+	2	38	2	13.0	G	BR
SC93-2082	W	7+	2	35	2	13.5	T	T
N90-7199	P	1+	2	29	2	13.6	G	BR
N94-7441	W	2-	1	28	2	8.4	G	T

TABLE 53 - Continued.

STRAIN/ VARIETY	STEM CANKER	PEST REACTIONS			
		SCN 3	SCN 14	M. i. GA	M. a. GA
BENNING	R	1.0	4.6	1.0	2.5
HASKELL	R	4.7	4.7	1.0	1.8
G91-221	R	1.0	4.0	1.0	3.5
G91-151	R	1.1	4.1	1.0	4.3
G92-2219	R	1.1	3.4	1.0	3.8
G92-1557	R	1.3	4.0	1.0	4.0
AU92-916	R	4.7	3.7	3.3	4.8
AU93-1839	R	1.7	3.1	5.0	4.5
N93-739	S	4.7	4.7	1.3	4.8
N94-532	R	4.3	4.8	4.8	4.0
SC91-1791	R	1.1	4.5	3.8	4.8
SC92-2482	R	1.2	4.1	1.0	4.8
SC92-902	R	1.0	4.2	1.5	4.0
SC93-2082	R	1.7	4.5	1.0	3.8
N90-7199	S	4.9	4.2	5.0	4.5
N94-7441	R	4.7	4.0	4.0	2.8

TABLE 54 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1997.

EAST	
STRAIN/ VARIETY	JACKSON SPRINGS NC
BENNING	49.8
HASKELL	54.7
G91-221	50.9
G91-151	49.4
G92-2219	48.9
G92-1557	46.9
AU92-916	51.3
AU93-1839	43.3
N93-739	49.2
N94-532	52.6
SC91-1791	46.3
SC92-2482	46.5
SC92-902	47.5
SC93-2082	45.3
N90-7199	47.0
N94-7441	47.9
L. S. D. (0.05)	6.0
C. V. (%)	7.5

TABLE 54 - Continued.

STRAIN VARIETY	SOUTH										
	ATHENS GA	BATON ROUGE LA	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	TALLASSEE AL	TIFTON GA†	MEAN
BENNING	40.8	43.1	25.3	35.0	54.9	55.7	28.0	11.7	31.1	54.4	36.2
HASKELL	26.8	45.0	28.6	36.4	63.2	56.8	30.1	12.3	25.9	61.5	36.1
G91-221	39.6	46.5	25.8	34.0	65.2	48.9	27.2	12.0	39.8	47.7	37.7
G91-151	46.4	46.1	31.0	35.1	57.9	52.2	28.4	16.7	40.3	44.1	39.3
G92-2219	39.2	42.6	27.0	30.9	56.0	45.1	29.2	16.3	31.8	50.5	35.3
G92-1557	35.5	37.9	29.5	34.1	55.2	49.9	25.8	10.7	33.9	41.5	34.7
AU92-916	29.0	41.0	25.9	36.7	64.0	54.3	30.2	11.7	25.5	63.6	35.4
AU93-1839	45.5	32.3	28.3	31.4	52.3	52.5	26.0	12.7	30.0	44.2	34.6
N93-739	32.1	44.9	25.9	34.7	56.6	54.5	26.8	9.7	36.7	31.0	35.8
N94-532	26.1	38.5	29.0	36.5	51.8	48.3	24.4	12.3	29.7	44.0	33.0
SC91-1791	36.6	43.5	28.6	29.8	64.5	55.1	23.8	11.0	28.6	42.1	35.7
SC92-2482	43.6	44.9	28.9	42.5	56.5	49.5	24.1	17.7	35.4	49.4	38.1
SC92-902	34.8	42.7	29.5	34.6	58.3	46.8	27.8	16.7	29.9	61.6	35.7
SC93-2082	41.8	43.0	30.1	34.0	62.1	49.6	22.7	15.7	36.4	66.9	37.3
N90-7199	29.7	43.4	23.7	33.4	60.9	52.1	23.5	8.0	32.2	50.2	34.1
N94-7441	30.0	.	28.9	35.4	55.8	49.7	27.1	13.0	34.1	45.1	34.2
L. S. D. (0.05)	8.0	6.7	5.7	6.7	11.9	5.8	6.9	.	11.3	21.7	.
C. V. (%)	13.2	8.6	12.2	11.6	11.8	6.8	15.6	.	20.9	24.8	.

†Not included in Mean.

TABLE 54 - Continued.

DELTA	
STRAIN/ VARIETY	STONEVILLE
	MS
BENNING	42.5
HASKELL	36.7
G91-221	41.8
G91-151	43.0
G92-2219	37.1
G92-1557	33.6
AU92-916	42.6
AU93-1839	36.9
N93-739	41.7
N94-532	40.3
SC91-1791	38.7
SC92-2482	35.6
SC92-902	34.8
SC93-2082	29.7
N90-7199	32.6
N94-7441	38.4
L. S. D. (0.05)	4.2
C. V. (%)	6.6

WEST			
STRAIN/ VARIETY	BEAUMONT	BOSSIER CITY	
	TX	LA	MEAN
BENNING	33.6	83.1	58.4
HASKELL	31.3	66.7	49.0
G91-221	26.9	83.6	55.2
G91-151	28.9	77.7	53.3
G92-2219	25.0	78.9	51.9
G92-1557	28.0	71.8	49.9
AU92-916	26.1	89.8	57.9
AU93-1839	28.8	72.1	50.5
N93-739	24.6	71.9	48.2
N94-532	28.4	88.4	58.4
SC91-1791	27.0	79.2	53.1
SC92-2482	26.7	96.4	61.5
SC92-902	27.7	88.9	58.3
SC93-2082	27.3	93.6	60.5
N90-7199	27.7	86.4	57.0
N94-7441	34.4	72.2	53.3
L. S. D. (0.05)	8.3	.	.
C. V. (%)	17.6	.	.

TABLE 55 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1997.

STRAIN/ VARIETY	OIL PERCENTAGES													MEAN
	ATHENS GA	BEAUMONT TX	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JACKSON NC	SPRINGS NC	JAY FL	STONEVILLE MS	TALLASSEE AL	TIFTON GA	
BENNING	20.5	19.6	20.1	22.5	.	22.2	18.0	.	20.1	17.9	22.1	.	20.3	
HASKELL	19.6	20.4	19.8	21.3	.	21.7	18.0	.	20.8	18.6	22.0	.	20.2	
G91-221	20.4	20.6	22.2	22.2	.	21.5	18.7	.	20.9	20.4	23.2	.	21.1	
G91-151	20.4	19.9	21.4	22.2	.	20.5	18.0	.	20.9	18.6	22.2	.	20.5	
G92-2219	19.8	18.9	21.1	22.0	.	20.9	17.5	.	19.4	17.9	20.7	.	19.8	
G92-1557	18.4	17.8	20.8	20.9	.	20.6	16.2	.	19.8	15.6	20.7	.	19.0	
AU92-916	20.4	20.1	20.9	22.3	.	21.9	19.7	.	17.3	20.0	22.2	.	20.5	
AU93-1839	19.0	18.9	19.0	19.8	.	19.1	16.7	.	20.6	16.8	19.9	.	18.9	
N93-739	20.3	18.6	21.0	21.5	.	21.7	19.2	.	18.7	19.9	21.3	.	20.2	
N94-532	18.3	17.2	18.3	19.5	.	20.0	16.1	.	17.4	15.9	18.9	.	18.0	
SC91-1791	20.9	19.6	22.4	22.1	.	22.3	17.6	.	20.2	19.4	22.3	.	20.8	
SC92-2482	20.2	19.8	20.9	22.1	.	21.3	16.4	.	19.6	18.7	22.2	.	20.1	
SC92-902	19.2	18.7	20.7	20.7	.	20.3	16.7	.	19.6	18.2	21.2	.	19.5	
SC93-2082	21.1	19.4	22.2	21.6	.	20.9	17.2	.	20.0	18.4	21.5	.	20.3	
N90-7199	19.5	20.3	20.7	21.2	.	20.7	18.4	.	17.6	18.8	22.2	.	19.9	
N94-7441	17.7	16.4	18.3	18.3	.	19.2	14.8	.	14.4	15.4	19.0	.	17.1	

TABLE 55 - Continued.

PROTEIN PERCENTAGES														
STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JACKSON NC	SPRINGS NC	JAY FL	STONEVILLE MS	TALLASSEE AL	TIFTON GA	MEAN
BENNING	41.9	44.1	42.5	38.6	.	37.0	44.7	.	.	43.0	42.8	39.2	.	41.5
HASKELL	41.1	43.0	41.2	39.2	.	35.6	43.9	.	.	42.3	42.4	38.9	.	40.8
G91-221	39.3	43.8	37.7	38.6	.	35.0	43.6	.	.	41.8	39.9	37.1	.	39.6
G91-151	40.4	44.9	38.9	38.9	.	37.7	45.3	.	.	42.5	42.4	38.8	.	41.1
G92-2219	40.7	44.5	40.2	38.2	.	37.2	44.5	.	.	44.1	43.1	41.1	.	41.5
G92-1557	42.7	46.4	39.4	40.4	.	38.1	46.8	.	.	43.7	45.7	40.6	.	42.6
AU92-916	41.3	44.0	41.3	39.6	.	38.4	43.5	.	.	46.7	41.9	40.1	.	41.9
AU93-1839	42.1	45.7	41.9	41.9	.	40.0	45.6	.	.	42.2	44.3	42.1	.	42.9
N93-739	41.7	46.6	42.0	41.1	.	37.5	44.1	.	.	43.9	42.0	41.4	.	42.3
N94-532	43.4	47.3	44.0	41.8	.	39.7	46.0	.	.	45.1	44.6	42.7	.	43.8
SC91-1791	43.2	46.5	41.5	41.0	.	39.1	47.3	.	.	45.1	44.5	41.3	.	43.3
SC92-2482	41.4	45.1	40.8	39.5	.	36.7	47.6	.	.	44.4	43.2	39.3	.	42.0
SC92-902	42.4	45.8	40.9	40.4	.	37.5	46.5	.	.	43.7	43.6	39.7	.	42.3
SC93-2082	40.2	45.6	37.9	40.4	.	38.2	46.4	.	.	44.4	43.3	39.3	.	41.7
N90-7199	39.7	41.6	39.5	38.7	.	36.8	43.0	.	.	44.9	42.1	38.3	.	40.5
N94-7441	43.1	47.1	41.6	41.9	.	40.1	45.5	.	.	47.1	44.8	42.0	.	43.7

TABLE 55 - Continued.

STRAIN/ VARIETY	GRAMS PER 100 SEED													MEAN
	ATHENS GA	BEAUMONT TX	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JACKSON SPRINGS NC	JAY FL	STONEVILLE MS	TALLASSEE AL	TIFTON GA		
BENNING	16.3	10.2	14.6	14.8	17	15.1	.	16.2	14	.	13.9	20	14.7	
HASKELL	13.8	12.7	14.7	15.3	18	14.8	.	16.1	12	.	13.5	21	14.5	
G91-221	13.3	12.9	12.9	12.6	15	12.2	.	14.4	11	.	12.2	18	12.9	
G91-151	14.5	12.9	12.8	12.6	16	12.6	.	13.4	11	.	11.8	16	13.1	
G92-2219	10.9	13.2	12.6	11.4	13	11.1	.	12.5	14	.	11.3	17	12.2	
G92-1557	10.9	12.4	10.9	11.2	14	11.7	.	13.2	17	.	10.6	15	12.4	
AU92-916	16.8	12.6	19.0	17.2	22	17.1	.	18.4	14	.	14.9	25	16.9	
AU93-1839	14.5	13.8	13.6	14.2	17	14.2	.	15.4	16	.	12.9	19	14.6	
N93-739	13.9	11.7	14.2	13.0	16	13.4	.	17.5	9	.	13.8	18	13.6	
N94-532	13.1	13.6	13.6	12.8	14	13.7	.	17.9	14	.	13.1	19	14.0	
SC91-1791	14.4	12.5	13.9	13.7	17	13.9	.	16.0	13	.	11.9	19	14.0	
SC92-2482	15.0	10.7	15.0	14.1	18	13.5	.	15.4	16	.	13.4	21	14.6	
SC92-902	12.9	10.7	13.5	12.3	17	12.8	.	15.7	10	.	11.8	18	13.0	
SC93-2082	13.9	13.6	12.7	14.0	17	13.1	.	11.9	13	.	12.3	16	13.5	
N90-7199	13.0	12.3	12.6	13.2	17	14.8	.	15.8	10	.	13.9	19	13.6	
N94-7441	7.2	14.6	7.0	7.0	9	7.0	.	7.6	8	.	8.3	9	8.4	

TABLE 56 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BENNING FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1997.

SOUTH

STRAIN/ VARIETY	ATHENS GA	BATON ROUGE LA	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	TALLASSEE LA	TIFTON GA	MEAN
BENNING	10/22	.	10/18	10/23	10/12	10/30	10/06	10/23	10/17	10/16	10/19
HASKELL	-6	.	1	1	4	1	2	0	2	-2	1
G91-221	-4	.	-1	-2	3	-2	0	0	0	0	-1
G91-151	0	.	-1	-2	4	-3	-1	0	-2	-3	-1
G92-2219	-7	.	2	1	6	-1	1	0	0	6	0
G92-1557	-8	.	-2	-2	0	2	-2	-3	-2	-2	-2
AU92-916	0	.	8	5	6	5	3	-3	-2	-1	3
AU93-1839	1	.	2	5	1	3	2	-3	1	-1	2
N93-739	-8	.	-5	-5	0	-2	-7	-8	-1	8	-5
N94-532	-9	.	-1	-4	-4	-4	-2	-3	0	-1	-4
SC91-1791	-7	.	-1	-3	0	-4	-3	-8	-1	2	-3
SC92-2482	4	.	7	6	3	1	1	-1	3	11	3
SC92-902	-5	.	4	4	7	1	3	-3	3	7	2
SC93-2082	9	.	9	10	10	10	7	0	11	0	8
N90-7199	-7	.	2	1	9	0	1	-8	0	3	0
N94-7441	-5	.	-1	2	3	1	-1	-18	-1	-1	-3

TABLE 56 - Continued.

DELTA	
STRAIN/ VARIETY	STONEVILLE MS
BENNING	10/09
HASKELL	0
G91-221	-2
G91-151	-2
G92-2219	0
G92-1557	-2
AU92-916	5
AU93-1839	5
N93-739	-5
N94-532	-2
SC91-1791	-2
SC92-2482	0
SC92-902	5
SC93-2082	5
N90-7199	5
N94-7441	0

WEST			
STRAIN/ VARIETY	BEAUMONT TX	BOSSIER CITY LA	MEAN
BENNING	10/19	10/25	10/22
HASKELL	6	3	4
G91-221	6	-3	2
G91-151	1	-2	0
G92-2219	9	-2	4
G92-1557	-2	-5	-3
AU92-916	5	6	5
AU93-1839	0	4	2
N93-739	2	-1	1
N94-532	2	0	1
SC91-1791	5	-2	2
SC92-2482	10	5	8
SC92-902	7	5	6
SC93-2082	6	6	6
N90-7199	6	3	5
N94-7441	-1	-1	-1

TABLE 57 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1997.

STRAIN/ VARIETY	EAST	
	JACKSON	SPRINGS
BENNING		NC
HASKELL		34
G91-221		35
G91-151		37
G92-2219		34
		35
G92-1557		32
AU92-916		36
AU93-1839		37
N93-739		25
N94-532		34
SC91-1791		34
SC92-2482		34
SC92-902		37
SC93-2082		34
N90-7199		30
N94-7441		29

TABLE 57 - Continued.

STRAIN/ VARIETY	SOUTH									
	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	TALLASSEE AL	TIFTON GA	MEAN
BENNING	42	41	32	38	39	29	28	26	28	34
HASKELL	40	44	34	41	41	29	38	30	28	37
G91-221	36	42	33	37	39	27	26	27	25	33
G91-151	39	44	31	37	36	25	33	29	24	34
G92-2219	39	43	32	39	41	29	27	28	31	35
G92-1557	37	43	32	35	35	27	27	24	25	32
AU92-916	40	44	34	41	40	31	28	29	27	36
AU93-1839	40	47	33	40	39	31	33	28	31	36
N93-739	27	25	24	32	30	18	21	20	15	25
N94-532	38	41	33	38	39	29	33	29	25	35
SC91-1791	43	46	33	44	42	30	30	27	26	37
SC92-2482	41	43	31	39	41	30	30	26	34	35
SC92-902	44	46	39	42	43	32	31	27	30	38
SC93-2082	39	44	29	41	41	28	33	25	26	35
N90-7199	33	36	28	31	34	26	25	23	20	30
N94-7441	30	35	25	34	35	22	30	21	17	29

TABLE 57 - Continued.

DELTA	
STRAIN/ VARIETY	STONEVILLE MS
BENNING	32
HASKELL	32
G91-221	28
G91-151	28
G92-2219	30
G92-1557	28
AU92-916	34
AU93-1839	44
N93-739	20
N94-532	30
SC91-1791	34
SC92-2482	34
SC92-902	46
SC93-2082	40
N90-7199	28
N94-7441	24

WEST			
STRAIN/ VARIETY	BEAUMONT TX	BOSSIER CITY LA	MEAN
BENNING	28	32	30
HASKELL	25	33	29
G91-221	29	33	31
G91-151	27	32	29
G92-2219	29	37	33
G92-1557	30	31	31
AU92-916	32	39	36
AU93-1839	33	40	37
N93-739	19	23	21
N94-532	31	35	33
SC91-1791	32	35	34
SC92-2482	30	32	31
SC92-902	32	39	35
SC93-2082	28	34	31
N90-7199	26	27	27
N94-7441	23	27	25

TABLE 58 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1997.

STRAIN/ VARIETY	EAST	
	JACKSON	SPRINGS
BENNING	2	NC
HASKELL	3	
G91-221	2	
G91-151	2	
G92-2219	3	
G92-1557	3	
AU92-916	3	
AU93-1839	3	
N93-739	2	
N94-532	2	
SC91-1791	2	
SC92-2482	2	
SC92-902	2	
SC93-2082	2	
N90-7199	2	
N94-7441	1	

TABLE 58 - Continued.

STRAIN/ VARIETY	SOUTH									
	ATHENS GA	BLACKVILLE SC	BLACKVILLE SC(L)	CALHOUN GA	CLEMSON SC	FAIRHOPE AL	JAY FL	TALLASSEE AL	TIFTON GA	MEAN
BENNING	2	2	1	2	3	1	1	1	1	2
HASKELL	3	3	1	3	4	1	1	2	1	2
G91-221	2	2	1	1	2	1	1	1	1	1
G91-151	2	2	1	1	2	1	1	1	1	1
G92-2219	3	2	1	3	3	1	1	2	1	2
G92-1557	3	2	1	2	4	1	1	1	1	2
AU92-916	3	3	1	3	4	1	1	2	1	2
AU93-1839	2	2	1	2	2	1	1	1	1	2
N93-739	2	1	1	1	2	1	1	1	1	1
N94-532	2	2	1	2	3	1	1	1	1	2
SC91-1791	2	2	1	2	3	1	1	1	1	2
SC92-2482	2	1	1	1	2	1	1	1	1	1
SC92-902	4	2	1	2	3	1	1	1	1	2
SC93-2082	3	1	1	2	3	1	1	1	1	2
N90-7199	3	2	1	1	3	1	1	2	1	2
N94-7441	2	1	1	1	2	1	1	1	1	1

TABLE 58 - Continued.

DELTA	
STRAIN/ VARIETY	STONEVILLE MS
BENNING	2
HASKELL	2
G91-221	2
G91-151	2
G92-2219	2
G92-1557	2
AU92-916	2
AU93-1839	2
N93-739	2
N94-532	2
SC91-1791	2
SC92-2482	2
SC92-902	4
SC93-2082	2
N90-7199	2
N94-7441	2

WEST			
STRAIN/ VARIETY	BEAUMONT TX	BOSSIER CITY LA	MEAN
BENNING	1	1	1
HASKELL	1	4	2
G91-221	1	1	1
G91-151	1	1	1
G92-2219	1	1	1
G92-1557	1	1	1
AU92-916	2	1	1
AU93-1839	1	1	1
N93-739	1	1	1
N94-532	1	1	1
SC91-1791	1	1	1
SC92-2482	1	1	1
SC92-902	1	1	1
SC93-2082	1	1	1
N90-7199	1	1	1
N94-7441	1	1	1

TABLE 59 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1997.

STRAIN/ VARIETY	EAST	
	JACKSON	SPRINGS
		NC
BENNING		2
HASKELL		2
G91-221		2
G91-151		2
G92-2219		2
G92-1557		2
AU92-916		2
AU93-1839		2
N93-739		2
N94-532		2
SC91-1791		2
SC92-2482		2
SC92-902		2
SC93-2082		2
N90-7199		2
N94-7441		2

STRAIN/ VARIETY	SOUTH							MEAN
	ATHENS GA	CALHOUN GA	FAIRHOPE AL	JAY FL	TALLASSEE AL	TIFTON GA		
BENNING	2	2	1	3	1	2	2	
HASKELL	2	2	1	4	1	2	2	
G91-221	2	2	1	4	1	2	2	
G91-151	2	1	1	4	1	2	2	
G92-2219	2	1	1	3	1	1	2	
G92-1557	2	2	1	3	1	2	2	
AU92-916	2	2	1	3	1	2	2	
AU93-1839	2	2	1	4	1	2	2	
N93-739	2	2	1	5	1	4	2	
N94-532	2	2	1	4	1	2	2	
SC91-1791	2	2	1	5	1	3	2	
SC92-2482	2	1	1	4	1	3	2	
SC92-902	2	2	1	3	1	2	2	
SC93-2082	2	3	1	2	1	2	2	
N90-7199	2	2	1	3	1	2	2	
N94-7441	2	1	1	4	1	1	2	

TABLE 59 - Continued.

DELTA	
STRAIN/ VARIETY	STONEVILLE MS
BENNING	2
HASKELL	3
G91-221	3
G91-151	2
G92-2219	2
G92-1557	2
AU92-916	3
AU93-1839	2
N93-739	2
N94-532	2
SC91-1791	2
SC92-2482	2
SC92-902	2
SC93-2082	2
N90-7199	2
N94-7441	2

WEST	
STRAIN/ VARIETY	BEAUMONT TX
BENNING	1
HASKELL	1
G91-221	2
G91-151	1
G92-2219	2
G92-1557	2
AU92-916	1
AU93-1839	1
N93-739	2
N94-532	1
SC91-1791	1
SC92-2482	1
SC92-902	1
SC93-2082	2
N90-7199	1
N94-7441	1

PRELIMINARY GROUP VII**1997**

Preliminary Group VII nurseries were planted at 7 locations. Data were obtained from 6 of the locations. The parentage for each strain is reported in Table 60. Table 61 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 62 - 68.

**TABLE 60 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII,
1997.**

	STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1.	BENNING	HUTCHESON X COKER 6738	F6
2.	HASKELL	JOHNSTON X BRAXTON	F5
3.	G93-1658	G85-373 X COKER 6727	F5
4.	G93-1749	G85-373 X COKER 6727	F5
5.	G93-1481	G85-373 X BRYAN	F5
6.	G93-3034	G83-559 X BRYAN	F7
7.	G90-R1551E	COKER 82-622 X HOWARD	F6
8.	AU94-2822	STONEWALL X HASKELL	F6
9.	AU94-2672	STONEWALL X HASKELL	F6
10.	AU94-1207	CARVER X N88-431	F6
11.	AU94-1292	CARVER X N88-431	F6
12.	AU94-776	AU87-727 X COOK	F6
13.	N95-432	N85-492 X N88-431	F6
14.	N95-614	N85-492 X N88-480	F6
15.	N95-667	N85-492 X N88-480	F6
16.	N95-1021	N86-491 X YOUNG	F6
17.	N95-1027	N86-491 X YOUNG	F6
18.	SC94-533	HUTCHESON X HAGOOD	F5
19.	SC94-1573	NK'S S83-30 X BRYAN	F5
20.	SC94-534	HUTCHESON X HAGOOD	F5
21.	SC94-30	COKER 6847 X COOK	F6
22.	SC94-51	HAGOOD X COKER 6738	F6
23.	N95-7332	BRIM X TOKYO	
24.	N95-7343	SABLE X TOKYO	
25.	N95-7364	CENTENNIAL X TOKYO	
26.	N95-7424	(COOK OR DAVIS) X TOKYO	
27.	N95-7435	(COOK OR DAVIS) X TOKYO	
28.	LA88-26173		
29.	TSB92-1620	D82-10143 X ASGROW 7986	F5
30.	TSB92-3964	AU82-211 X BRAXTON	F5
31.	TSB93-2533	SHARKEY X ASGROW 7986	F5

**TABLE 61 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VII, 1997
- MEAN OF 5 LOCATIONS.**

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----		STEM CANKER	SCN 3	SCN 14	M. a. TN	M. i. TN
							PROTEIN	OIL					
BENNING	35.3	10/17	2	34	2	14.3	40.8	21.0	R	4.8	4.9	3.0	1.0
HASKELL	31.1	1-	2	37	3	13.1	39.9	20.6	R	1.0	4.3	1.2	1.3
G93-1658	32.1	1-	2	35	3	12.2	41.5	19.8-	R	1.1	5.0	1.0	1.3
G93-1749	33.7	1-	2	34	2	11.6	41.2	19.7-	R	1.0	4.7	1.8	1.0
G93-1481	31.3	4-	2	37	2	11.9	40.5	20.5	R	1.0	5.0	1.2	1.2
G93-3034	35.6	1-	1	35	2	11.8	40.7	19.8-	S	1.2	3.4	1.0	1.0
G90-R1551E	33.8	7+	2	36	2	12.8	42.3+	20.1	R	1.1	4.4	2.0	1.3
AU94-2822	32.4	4-	2	33	2	11.2	41.3	20.9	S	1.0	4.9	2.5	1.0
AU94-2672	32.9	4-	2	32	2	15.5	41.7	20.3	S	4.0	4.6	1.5	1.2
AU94-1207	31.5	5-	2	34	3	11.8	43.2+	20.4	S	1.0	3.6	2.5	1.2
AU94-1292	30.2	3-	2	35	2	13.4	42.0	20.5	S	2.1	4.2	3.3	1.3
AU94-776	29.5	3-	2	39	2	11.3	41.1	20.7	R	2.0	4.3	5.0	3.5
N95-432	32.5	7-	2	34	3	14.4	42.4+	21.6	S	5.0	4.8	4.3	1.6
N95-614	32.3	1+	2	35	3	10.5	39.2-	22.7+	R	5.0	4.2	3.3	1.7
N95-667	31.5	9-	1	29	3	12.5	38.3-	23.3+	S	4.2	4.2	3.5	1.0
N95-1021	28.0	1+	2	45	2	11.9	41.7	19.8-	S	4.3	5.0	4.7	3.8
N95-1027	23.4-	2+	3	43	2	14.8	42.9+	19.9-	S	4.6	4.2	2.7	1.3
SC94-533	29.3	2-	2	33	2	14.0	42.6+	20.0-	S	2.5	4.7	3.8	1.0
SC94-1573	34.6	2+	2	38	2	13.2	39.0-	20.9	R	1.0	4.8	3.0	1.5
SC94-534	30.6	1-	2	37	2	12.2	42.7+	19.5-	R	1.2	3.6	3.0	1.7
SC94-30	29.9	3+	2	34	2	11.7	41.0	20.4	R	1.0	4.1	3.8	2.0
SC94-51	33.4	3+	2	34	2	14.0	41.5	20.6	R	1.2	4.4	3.2	1.2
N95-7332	26.2	0	3	36	3	16.4	41.8	20.6	S	4.8	4.3	4.4	3.5
N95-7343	22.5-	2+	3	49	3	17.9	40.9	20.3	R	5.0	4.6	4.4	3.0
N95-7364	20.3-	1+	3	38	3	16.9	41.3	19.9-	S	5.0	4.0	4.0	3.5
N95-7424	19.8-	8-	3	35	3	16.1	43.5+	19.6-	S	4.8	3.7	4.0	4.2
N95-7435	25.1-	3+	3	36	2	18.7	42.2+	20.1	R	4.7	4.8	4.3	3.6
LA88-26173	30.1	5+	2	33	2	13.3	41.0	20.8	R	4.0	4.7	5.0	3.0
TSB92-1620	31.4	4-	2	36	3	14.2	40.4	21.4	R	2.3	4.2	5.0	1.8
TSB92-3964	30.4	2+	2	38	2	15.4	41.9	20.8	R	4.0	3.7	5.0	1.0
TSB93-2533	31.3	2+	2	35	2	14.3	41.7	20.6	R	5.0	3.6	2.3	1.2
OVERALL MEAN	30.1						41.4	20.6					
L. S. D. (.05)	9.2						1.4	1.0					
C. V.	13%						3%	4%					

TABLE 62 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT† TX	BLACKVILLE SC	JAY FL	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	39.1	25.1	29.7	22.0	43.3	42.2	35.3
HASKELL	32.8	32.6	30.1	18.5	38.3	35.9	31.1
G93-1658	37.6	20.6	26.4	18.5	38.8	39.1	32.1
G93-1749	37.6	16.4	30.3	20.5	36.4	43.8	33.7
G93-1481	35.4	20.1	29.5	18.5	40.7	32.3-	31.3
G93-3034	40.9	26.7	32.7	18.5	43.9	42.1	35.6
G90-R1551E	42.9	25.8	29.9	14.0	36.3-	45.9	33.8
AU94-2822	33.3	21.2	31.6	13.0	38.7	45.6	32.4
AU94-2672	41.6	26.0	30.4	12.5	41.7	38.4	32.9
AU94-1207	41.9	25.5	26.9	12.5	35.8-	40.4	31.5
AU94-1292	37.1	17.0	26.5	14.5	36.3-	36.7	30.2
AU94-776	38.4	18.8	25.0	11.5	34.6-	37.9	29.5
N95-432	43.3	13.0	26.8	9.5	44.6	38.3	32.5
N95-614	32.3	26.4	31.1	9.5	35.1-	53.7+	32.3
N95-667	42.9	19.3	30.2	6.5	39.6	38.2	31.5
N95-1021	35.7	28.0	28.6	14.5	23.6-	37.4	28.0
N95-1027	23.2-	22.7	27.9	10.0	17.7-	38.2	23.4-
SC94-533	38.7	26.3	25.7	14.0	28.5-	39.8	29.3
SC94-1573	40.3	25.3	28.9	18.0	36.6	49.1	34.6
SC94-534	41.4	24.5	27.7	13.5	34.2-	36.1	30.6
SC94-30	29.6	28.0	35.6	17.5	27.7-	39.0	29.9
SC94-51	39.8	27.6	30.2	15.0	40.2	41.9	33.4
N95-7332	27.1-	12.7-	29.3	8.0	29.6-	37.1	26.2
N95-7343	25.6-	10.1-	26.4	3.0	28.2-	29.1-	22.5-
N95-7364	24.1-	13.2	22.7-	4.0	18.2-	32.3-	20.3-
N95-7424	29.0	23.6	17.3-	4.0	26.6-	22.3-	19.8-
N95-7435	26.6-	17.3	28.6	9.0	29.6-	31.7-	25.1-
LA88-26173	33.4	25.1	26.6	13.0	35.8-	41.5	30.1
TSB92-1620	35.5	25.1	30.3	11.0	39.3	40.8	31.4
TSB92-3964	32.0	23.7	26.5	14.5	39.2	39.8	30.4
TSB93-2533	32.7	23.1	32.3	14.0	34.2-	43.1	31.3
L. S. D. (0.05)	10.4	12.2	6.3		6.9	8.6	9.2
C. V. (%)	14.5	26.8	10.9		9.8	10.8	13.4

†Excluded from mean.

**TABLE 63 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII,
1997.**

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BLACKVILLE SC	JAY FL	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	19.8	19.3	21.3	20.5	19.4	23.9	21.0
HASKELL	19.0	19.9	20.4	20.9	18.9	24.0	20.6
G93-1658	19.0	17.5	20.4	19.8	18.0	21.8	19.8
G93-1749	18.6	17.5	20.0	20.3	18.4	21.3	19.7
G93-1481	19.5	18.1	20.7	21.0	19.2	22.3	20.5
G93-3034	18.3	19.0	20.9	18.1	18.9	22.6	19.8
G90-R1551E	19.4	18.2	20.8	20.3	18.5	21.4	20.1
AU94-2822	18.9	21.1	21.1	21.9	19.5	23.0	20.9
AU94-2672	19.0	19.6	20.1	20.2	20.0	22.3	20.3
AU94-1207	19.0	19.8	20.6	19.1	19.3	23.9	20.4
AU94-1292	19.3	19.8	20.7	20.7	18.3	23.7	20.5
AU94-776	19.8	19.7	22.3	18.8	19.1	23.7	20.7
N95-432	20.8	22.1	21.1	21.3	20.4	24.4	21.6
N95-614	22.1	22.3	23.4	23.1	21.5	23.3	22.7
N95-667	22.5	22.4	23.1	23.1	22.1	25.6	23.3
N95-1021	19.0	18.9	20.9	20.8	17.1	21.2	19.8
N95-1027	18.3	18.7	19.9	21.0	18.5	21.9	19.9
SC94-533	19.6	20.9	20.6	18.6	18.9	22.4	20.0
SC94-1573	20.1	19.8	21.5	20.6	18.5	23.9	20.9
SC94-534	19.3	19.8	21.1	17.6	17.2	22.4	19.5
SC94-30	17.9	18.8	21.7	21.8	17.2	23.2	20.4
SC94-51	19.4	18.7	21.9	20.5	18.5	22.7	20.6
N95-7332	19.1	18.3	22.6	19.9	18.4	22.8	20.6
N95-7343	19.0	17.8	21.5	19.5	18.8	22.9	20.3
N95-7364	18.4	18.4	20.9	19.9	18.5	22.0	19.9
N95-7424	18.7	17.6	20.5	18.3	19.7	20.7	19.6
N95-7435	18.5	17.8	21.0	20.5	18.0	22.4	20.1
LA88-26173	20.2	20.6	21.0	21.9	18.7	22.2	20.8
TSB92-1620	19.4	20.0	21.8	22.0	20.1	23.5	21.4
TSB92-3964	19.2	20.1	21.2	21.1	19.1	23.3	20.8
TSB93-2533	20.0	19.8	21.3	19.1	19.4	23.3	20.6

TABLE 64 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BLACKVILLE SC	JAY FL	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	42.2	44.6	40.1	43.4	41.7	36.4	40.8
HASKELL	41.0	43.4	40.2	41.7	42.2	34.2	39.9
G93-1658	42.4	47.8	40.5	43.2	43.2	38.4	41.5
G93-1749	42.2	47.4	40.3	42.6	42.8	38.0	41.2
G93-1481	40.9	47.3	39.9	42.4	42.4	36.9	40.5
G93-3034	41.7	45.3	38.7	44.5	42.4	36.3	40.7
G90-R1551E	41.6	46.6	41.6	44.4	45.0	39.0	42.3
AU94-2822	43.7	44.7	41.4	41.5	42.2	37.9	41.3
AU94-2672	43.0	45.6	42.3	43.2	41.4	38.5	41.7
AU94-1207	44.2	44.5	43.7	46.4	44.5	37.1	43.2
AU94-1292	43.7	46.4	42.4	43.4	44.0	36.7	42.0
AU94-776	42.1	45.6	39.3	44.3	43.2	36.6	41.1
N95-432	42.6	46.5	44.0	43.6	43.7	37.9	42.4
N95-614	39.3	41.3	38.1	39.6	40.5	38.7	39.2
N95-667	38.8	44.3	40.5	40.3	38.0	33.9	38.3
N95-1021	42.8	45.1	40.2	43.1	44.7	37.8	41.7
N95-1027	44.9	45.7	42.7	43.5	43.8	39.5	42.9
SC94-533	42.9	43.7	42.2	45.4	43.7	38.8	42.6
SC94-1573	39.2	43.4	38.2	42.1	41.7	33.6	39.0
SC94-534	42.3	44.6	41.0	46.3	44.8	39.0	42.7
SC94-30	44.3	45.2	39.4	40.9	44.6	35.6	41.0
SC94-51	42.5	45.5	39.6	43.6	44.4	37.3	41.5
N95-7332	43.2	46.9	39.7	44.4	44.4	37.3	41.8
N95-7343	41.7	45.9	39.7	43.5	43.4	36.4	40.9
N95-7364	41.8	45.9	40.6	42.7	42.7	38.7	41.3
N95-7424	44.0	52.6	42.9	46.6	42.6	41.5	43.5
N95-7435	43.2	47.9	41.1	43.9	45.4	37.3	42.2
LA88-26173	41.2	41.7	40.8	41.1	43.9	38.1	41.0
TSB92-1620	41.9	43.8	39.8	42.1	42.0	36.3	40.4
TSB92-3964	43.7	44.7	40.7	43.8	43.7	37.5	41.9
TSB93-2533	41.5	45.4	41.7	45.0	43.0	37.2	41.7

TABLE 65 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BLACKVILLE SC	JAY FL	TALLASSEE AL	MEAN
BENNING	13.8	12.9	13.4	16	14	14.3
HASKELL	11.8	15.8	14.7	13	13	13.1
G93-1658	13.2	13.0	12.7	11	12	12.2
G93-1749	11.9	13.2	11.7	11	12	11.6
G93-1481	11.6	12.4	12.0	14	10	11.9
G93-3034	11.6	12.6	11.6	13	11	11.8
G90-R1551E	12.9	13.2	13.1	13	12	12.8
AU94-2822	6.8	15.6	15.0	10	13	11.2
AU94-2672	14.5	15.6	17.3	15	15	15.5
AU94-1207	6.8	14.5	14.2	12	14	11.8
AU94-1292	13.6	14.6	15.0	12	13	13.4
AU94-776	11.9	12.7	12.2	10	11	11.3
N95-432	14.0	9.8	17.6	11	15	14.4
N95-614	5.9	12.0	12.0	11	13	10.5
N95-667	13.2	9.9	14.9	10	12	12.5
N95-1021	12.3	14.5	14.4	9	12	11.9
N95-1027	12.7	17.6	16.5	14	16	14.8
SC94-533	13.5	14.6	12.6	17	13	14.0
SC94-1573	12.9	13.1	13.8	14	12	13.2
SC94-534	12.2	14.2	12.8	11	13	12.2
SC94-30	11.0	13.5	13.0	12	11	11.7
SC94-51	13.8	14.6	14.0	14	14	14.0
N95-7332	15.2	15.8	18.2	15	17	16.4
N95-7343	17.5	17.2	22.3	13	19	17.9
N95-7364	17.2	18.2	20.3	10	20	16.9
N95-7424	15.7	12.2	18.5	12	18	16.1
N95-7435	18.1	19.0	21.9	16	19	18.7
LA88-26173	13.2	14.8	14.1	12	14	13.3
TSB92-1620	13.9	14.7	15.9	14	13	14.2
TSB92-3964	15.4	15.2	15.2	15	16	15.4
TSB93-2533	13.8	14.4	16.6	15	12	14.3

TABLE 66 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1997.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BLACKVILLE SC	JAY FL	STONEVILLE MS	TALLASSEE AL	MEAN
BENNING	35	24	44	30	32	32	34
HASKELL	39	26	45	34	34	32	37
G93-1658	36	25	43	31	32	31	35
G93-1749	36	23	47	29	30	29	34
G93-1481	42	29	51	29	34	29	37
G93-3034	37	25	44	32	32	31	35
G90-R1551E	39	23	41	32	36	32	36
AU94-2822	34	20	41	25	34	30	33
AU94-2672	33	20	39	27	34	30	32
AU94-1207	35	20	42	28	36	29	34
AU94-1292	37	22	42	29	38	28	35
AU94-776	42	23	47	35	36	38	39
N95-432	35	25	37	32	32	32	34
N95-614	36	22	43	28	34	33	35
N95-667	28	20	37	30	26	25	29
N95-1021	49	33	51	37	48	40	45
N95-1027	46	34	47	34	50	39	43
SC94-533	37	23	44	31	28	27	33
SC94-1573	43	24	49	32	36	29	38
SC94-534	41	23	47	31	34	33	37
SC94-30	37	27	40	27	38	31	34
SC94-51	37	25	44	30	28	32	34
N95-7332	34	25	48	28	34	37	36
N95-7343	48	38	62	28	62	45	49
N95-7364	39	26	49	30	38	36	38
N95-7424	33	22	41	28	42	31	35
N95-7435	37	28	43	30	36	34	36
LA88-26173	32	22	37	28	40	31	33
TSB92-1620	38	24	43	28	38	33	36
TSB92-3964	35	26	48	32	40	34	38
TSB93-2533	37	24	41	31	36	30	35

TABLE 67 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1997.

STRAIN/ VARIETY	ATHENS	BEAUMONT	BLACKVILLE	JAY	STONEVILLE	TALLASSEE	MEAN
	GA	TX	SC	FL	MS	AL	
BENNING	2	1	2	1	2	2	2
HASKELL	3	2	3	1	2	2	2
G93-1658	3	1	3	1	2	1	2
G93-1749	2	1	3	1	2	2	2
G93-1481	2	1	3	1	3	2	2
G93-3034	2	1	1	1	2	1	1
G90-R1551E	2	2	4	1	2	2	2
AU94-2822	2	1	2	1	3	2	2
AU94-2672	2	1	2	1	3	3	2
AU94-1207	2	1	2	1	2	1	2
AU94-1292	2	1	2	1	3	1	2
AU94-776	3	1	2	1	3	1	2
N95-432	2	2	1	2	3	2	2
N95-614	3	1	3	1	4	2	2
N95-667	2	1	2	1	2	1	1
N95-1021	3	1	2	1	4	1	2
N95-1027	3	2	4	1	5	2	3
SC94-533	2	1	2	2	2	1	2
SC94-1573	2	1	2	1	2	1	2
SC94-534	2	2	2	1	2	1	2
SC94-30	3	2	2	1	4	1	2
SC94-51	3	1	3	1	2	2	2
N95-7332	3	2	4	2	5	2	3
N95-7343	2	2	4	2	5	2	3
N95-7364	3	2	4	2	4	2	3
N95-7424	2	2	4	2	4	3	3
N95-7435	3	2	4	2	4	2	3
LA88-26173	2	1	1	2	3	1	2
TSB92-1620	2	2	3	1	3	2	2
TSB92-3964	2	1	2	1	3	2	2
TSB93-2533	3	1	3	1	3	2	2

TABLE 68 - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1997.

STRAIN/ VARIETY	ATHENS	BEAUMONT	JAY	STONEVILLE	TALLASSEE	MEAN
	GA	TX	FL	MS	AL	
BENNING	2	2	3	2	1	2
HASKELL	2	2	4	3	1	3
G93-1658	2	2	4	3	1	3
G93-1749	2	2	3	2	1	2
G93-1481	2	2	3	2	1	2
G93-3034	2	2	4	2	1	2
G90-R1551E	2	2	3	2	1	2
AU94-2822	2	2	4	2	1	2
AU94-2672	2	2	4	2	1	2
AU94-1207	2	2	5	3	1	3
AU94-1292	2	2	4	2	1	2
AU94-776	2	2	4	2	1	2
N95-432	2	2	4	2	2	3
N95-614	2	2	4	3	1	3
N95-667	2	3	5	3	2	3
N95-1021	2	3	3	2	1	2
N95-1027	2	3	3	3	1	2
SC94-533	2	3	3	2	1	2
SC94-1573	2	2	3	2	1	2
SC94-534	2	2	3	2	1	2
SC94-30	2	3	3	3	1	2
SC94-51	2	1	3	2	1	2
N95-7332	2	3	4	3	1	3
N95-7343	2	3	5	3	1	3
N95-7364	2	2	4	3	1	3
N95-7424	3	2	5	3	1	3
N95-7435	3	2	3	2	1	2
LA88-26173	2	2	3	2	1	2
TSB92-1620	2	2	5	2	1	3
TSB92-3964	2	2	3	2	1	2
TSB93-2533	2	2	4	2	1	2

UNIFORM GROUP VIII**1997**

Uniform Group VIII nurseries were planted in 14 environments. Data were obtained from 12 environments. The parentage for each strain is reported in Table 69. Table 70 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 71 - 76.

TABLE 69 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 1997.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. COOK	BRAXTON X YOUNG	F6
2. MAXCY	D76-9665 X JOHNSTON	F6
3. G90-1551	COKER 82-622 X HOWARD	F6
4. G91-270	COKER 82-622 X BRYAN	F5
5. G92-2388	COKER 82-622 X G83-12	F6
6. G92-1306	DOLES X COKER 6727	F5
7. G92-2167	COKER 82-622 X BRIM	F6
8. AU91-13	N85-492 X C085-483	F6
9. AU92-2427	HAYGOOD X HOWARD	F6
10. AU93-868	AU86-2126 X F83-1648	F6
11. N94-537	COOK X CLIFFORD	F6
12. SC91-2447	NK'S S83-30 X HOWARD	F5
13. SC92-3091	HAGOOD X COKER 6738	F5
14. SC93-1963	COKER 6738 X G83-198	F5
15. SC93-2073	COKER 6738 X G83-198	F5

TABLE 70 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 1997.

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1997	96-97	95-97	1997	96-97	95-97	1997	96-97	95-97
COOK	36.6	40.7	38.9	42.6	43.1	42.7	19.5	20.1	20.2
MAXCY	37.6	39.8	38.3	41.4	42.1	42.0	20.0	20.5	20.5
G90-1551	36.8	.	37.6	43.2	.	43.0	19.4	.	19.9
G91-270	37.4	40.3	.	39.6	40.6	.	21.1	21.5	.
G92-2388	41.1	.	.	41.7	.	.	19.7	.	.
G92-1306	38.2	.	.	41.8	.	.	20.1	.	.
G92-2167	38.7	.	.	41.2	.	.	20.2	.	.
AU91-13	38.6	40.6	39.2	40.8	41.3	41.2	20.9	21.1	21.1
AU92-2427	36.8	.	.	36.2	.	.	17.6	.	.
AU93-868	36.8	.	.	41.7	.	.	20.2	.	.
N94-537	36.6	.	.	41.0	.	.	20.1	.	.
SC91-2447	37.0	38.7	37.7	41.8	42.8	42.7	19.7	20.2	20.1
SC92-3091	38.5	41.3	.	42.7	43.1	.	19.7	20.4	.
SC93-1963	38.0	.	.	41.9	.	.	20.0	.	.
SC93-2073	38.9	.	.	41.4	.	.	20.3	.	.

†Data from Tallassee, AL(L); Tifton, GA (1997); Tallassee, AL (L) (1995) not included in Mean.

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LOGGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
COOK	P	10/24	2	37	2	14.4	T	T
MAXCY	P	4+	2	37	2	13.5	T	T
G90-1551	W	8+	2	37	2	13.3	G	T
G91-270	W	1+	2	38	2	12.9	G	T
G92-2388	W	3+	2	37	2	13.7	G	T
G92-1306	W	2+	2	34	2	12.9	T	T
G92-2167	W	2+	2	38	2	12.2	G	T
AU91-13	P	7+	2	40	2	13.7	G	BR
AU92-2427	P	1+	2	34	2	13.1	G	T
AU93-868	W	0	2	35	2	13.3	T	T
N94-537	P	1-	2	38	2	14.1	T	T
SC91-2447	P	7+	2	37	2	14.4	T	T
SC92-3091	P	6+	2	35	2	15.0	T	T
SC93-1963	W	8+	2	35	2	14.6	T	T
SC93-2073	W	8+	2	37	2	14.1	T	T

TABLE 70 - Continued.

PEST REACTIONS				
STRAIN/ VARIETY	SCN 3	SCN 14	M. i. GA	M. a. GA
COOK	4.3	4.1	1.0	4.8
MAXCY	1.0	3.9	3.8	5.0
G90-1551	1.0	1.4	1.0	3.0
G91-270	1.4	4.6	1.0	2.8
G92-2388	1.0	4.3	1.0	2.8
G92-1306	1.0	4.6	1.0	3.8
G92-2167	1.0	4.9	1.0	5.0
AU91-13	1.6	1.8	1.0	5.0
AU92-2427	4.7	3.8	1.8	3.0
AU93-868	1.0	3.0	4.0	4.8
N94-537	5.0	4.1	3.3	3.8
SC91-2447	1.0	3.4	1.0	3.3
SC92-3091	1.0	3.4	1.8	4.5
SC93-1963	1.0	4.3	1.3	4.0
SC93-2073	1.0	4.3	1.0	4.3

TABLE 71 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1997.

EAST	
STRAIN/ VARIETY	JACKSON SPRINGS NC
COOK	47.6
MAXCY	45.3
G90-1551	49.6
G91-270	45.7
G92-2388	46.3
G92-1306	49.2
G92-2167	46.6
AU91-13	45.9
AU92-2427	52.0
AU93-868	47.4
N94-537	56.1
SC91-2447	47.4
SC92-3091	48.9
SC93-1963	46.5
SC93-2073	47.5
L. S. D. (0.05)	4.8
C. V. (%)	5.9

WEST	
STRAIN/ VARIETY	BEAUMONT TX
COOK	43.1
MAXCY	41.1
G90-1551	38.8
G91-270	42.0
G92-2388	46.6
G92-1306	43.6
G92-2167	50.2
AU91-13	47.6
AU92-2427	40.2
AU93-868	42.8
N94-537	43.7
SC91-2447	38.5
SC92-3091	47.1
SC93-1963	49.5
SC93-2073	46.2
L. S. D. (0.05)	9.1
C. V. (%)	12.3

TABLE 71 - Continued.

STRAIN/ VARIETY	SOUTH											
	ATHENS GA	ATHENS GA(L)	BATON ROUGE LA	BLACKVILLE SC(L)	CLEMSON SC	FAIRHOPE AL	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE† AL(L)	TIFTON† GA	MEAN
COOK	30.1	36.8	39.5	37.9	55.7	21.2	14.3	38.6	37.5	23.7	13.1	34.6
MAXCY	46.7	42.0	44.6	40.0	48.6	20.1	19.3	35.1	30.5	23.5	16.5	36.3
G90-1551	46.8	42.9	23.4	38.2	51.5	15.9	22.0	43.9	31.2	28.0	17.6	35.1
G91-270	48.4	40.7	36.2	37.2	51.3	17.6	20.0	36.2	36.7	22.6	12.4	36.0
G92-2388	45.9	43.0	42.6	40.2	55.1	17.9	20.7	45.7	47.7	23.9	12.7	39.9
G92-1306	46.4	44.3	40.7	35.1	51.8	20.1	17.7	40.0	31.6	20.8	13.5	36.4
G92-2167	40.4	41.7	41.0	39.1	51.3	18.2	17.7	36.5	43.6	24.4	18.8	36.6
AU91-13	51.2	39.5	32.7	40.7	53.6	18.7	15.7	46.6	32.7	18.0	14.2	36.8
AU92-2427	33.6	33.4	45.2	41.6	51.8	17.9	16.3	41.2	31.1	24.4	9.7	34.7
AU93-868	45.3	41.7	32.5	37.3	49.0	17.5	12.3	48.0	31.5	29.6	14.1	35.0
N94-537	28.9	31.9	36.4	40.8	55.7	18.5	15.3	39.7	35.0	27.8	17.0	33.6
SC91-2447	46.9	38.8	39.3	40.3	48.7	13.4	17.3	39.0	37.5	28.2	16.2	35.7
SC92-3091	42.9	42.4	40.6	40.1	56.1	12.4	18.3	37.5	36.8	28.6	15.7	36.3
SC93-1963	45.1	42.0	38.8	41.0	52.1	16.3	18.3	38.4	30.3	32.9	14.4	35.8
SC93-2073	48.4	41.0	37.4	36.3	58.5	19.5	19.3	43.9	30.0	23.9	12.8	37.1
L. S. D. (0.05)	7.0	4.1	5.9	6.5	7.1	5.1	.	8.4	8.1	11.3	.	.
C. V. (%)	9.7	6.1	8.2	9.9	8.0	17.1	.	.	13.8	26.7	.	.

†Not included in Mean.

TABLE 72 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1997

OIL PERCENTAGES

STRAIN/ VARIETY	ATHENS	ATHENS	BEAUMONT	BLACKVILLE	CLEMSON	FAIRHOPE	JACKSON SPRINGS	JAY	PLAINS	TALLASSEE	TALLASSEE	TIFTON	MEAN
	GA	GA(L)	TX	SC(L)	SC	AL	NC	FL	GA	AL	AL(L)	GA	
COOK	20.0	20.2	18.2	20.4	20.5	15.5	.	20.3	19.8	21.0	20.8	.	19.5
MAXCY	19.9	20.1	18.7	21.6	21.6	15.1	.	21.2	19.8	22.0	21.7	.	20.0
G90-1551	19.5	19.7	18.5	20.9	20.9	15.0	.	20.1	19.0	20.7	20.0	.	19.4
G91-270	19.4	19.3	20.8	23.3	22.9	16.5	.	22.9	21.1	23.4	22.2	.	21.1
G92-2388	21.1	19.1	18.8	20.9	21.0	15.3	.	20.2	19.9	21.1	20.2	.	19.7
G92-1306	20.0	20.7	17.7	22.2	21.8	15.5	.	21.7	19.1	22.0	21.4	.	20.1
G92-2167	20.5	19.9	19.4	21.5	21.0	14.9	.	22.3	20.2	21.8	21.5	.	20.2
AU91-13	19.2	21.3	20.6	22.2	21.6	18.2	.	22.6	19.6	22.9	22.0	.	20.9
AU92-2427	20.4	20.2	.	20.8	20.4	15.6	.	20.9	19.5	20.6	20.6	.	19.8
AU93-868	20.9	20.3	18.5	21.9	22.7	15.4	.	20.5	20.2	21.6	21.8	.	20.2
N94-537	19.4	21.0	18.2	21.7	21.4	16.7	.	20.7	19.3	22.1	21.4	.	20.1
SC91-2447	19.7	18.9	18.5	21.0	20.4	15.5	.	22.0	19.9	21.1	20.7	.	19.7
SC92-3091	19.3	19.8	18.6	21.3	21.0	14.3	.	21.9	19.5	21.6	20.6	.	19.7
SC93-1963	19.7	19.5	18.3	22.2	21.7	15.0	.	21.7	20.1	22.1	20.9	.	20.0
SC93-2073	19.6	19.7	19.0	22.2	21.4	17.0	.	21.3	19.6	22.9	21.8	.	20.3

PROTEIN PERCENTAGES

STRAIN/ VARIETY	ATHENS	ATHENS	BEAUMONT	BLACKVILLE	CLEMSON	FAIRHOPE	JACKSON SPRINGS	JAY	PLAINS	TALLASSEE	TALLASSEE	TIFTON	MEAN
	GA	GA(L)	TX	SC(L)	SC	AL	NC	FL	GA	AL	AL(L)	GA	
COOK	42.6	40.7	46.2	42.1	39.9	47.9	.	42.9	41.0	39.8	39.5	.	42.6
MAXCY	41.8	40.1	45.6	39.6	35.9	49.5	.	42.2	40.2	38.0	37.8	.	41.4
G90-1551	43.6	42.1	45.7	41.3	37.4	51.3	.	44.7	41.5	41.3	42.0	.	43.2
G91-270	44.4	41.5	42.5	36.4	31.9	47.1	.	38.9	37.7	35.9	37.2	.	39.6
G92-2388	42.5	41.7	44.9	40.4	33.6	49.5	.	43.1	40.1	39.4	40.6	.	41.7
G92-1306	41.3	40.7	46.2	39.4	36.5	49.4	.	41.7	40.7	39.9	40.0	.	41.8
G92-2167	41.8	40.4	43.2	37.0	33.9	49.1	.	40.3	48.3	37.2	38.0	.	41.2
AU91-13	43.9	38.5	44.0	38.6	37.4	46.1	.	40.7	40.2	38.0	38.1	.	40.8
AU92-2427	40.2	43.0	.	37.7	36.1	46.8	.	41.8	42.1	38.5	38.7	.	40.8
AU93-868	40.3	41.6	45.3	39.0	34.4	49.1	.	42.6	42.2	41.0	38.1	.	41.7
N94-537	41.1	38.9	45.7	38.2	37.1	46.1	.	41.0	42.5	38.5	39.5	.	41.0
SC91-2447	42.1	43.3	45.0	40.4	36.0	49.9	.	41.5	38.7	39.2	39.1	.	41.8
SC92-3091	40.4	43.5	46.2	40.8	37.9	53.0	.	42.4	40.0	39.9	41.6	.	42.7
SC93-1963	43.4	40.9	46.1	39.3	36.0	50.1	.	42.8	40.3	37.9	40.2	.	41.9
SC93-2073	42.0	41.8	46.4	39.1	35.8	48.4	.	41.2	41.5	36.6	38.0	.	41.4

TABLE 72 - Continued.

STRAIN/ VARIETY	GRAMS PER 100 SEED													MEAN
	ATHENS GA	ATHENS GA(L)	BEAUMONT TX	BLACKVILLE SC(L)	CLEMSON SC	FAIRHOPE AL	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA		
COOK	13.4	14.5	13.8	15.0	15.5	.	17.2	12	15.0	13.4	13.3	1.9	14.4	
MAXCY	14.9	15.1	11.7	14.5	13.3	.	14.4	11	14.1	12.6	12.6	1.6	13.5	
G90-1551	14.0	14.7	14.6	13.6	12.8	.	14.9	10	13.6	11.8	13.4	1.8	13.3	
G91-270	14.2	13.7	13.3	13.0	12.2	.	13.9	10	13.4	12.2	12.7	1.6	12.9	
G92-2388	15.6	14.9	13.4	14.2	12.1	.	15.6	11	14.3	12.5	11.9	1.8	13.7	
G92-1306	13.2	14.2	12.6	13.4	11.9	.	13.5	12	12.8	12.3	11.6	1.6	12.9	
G92-2167	13.1	13.3	13.0	11.6	11.5	.	12.0	11	11.8	12.3	12.3	1.7	12.2	
AU91-13	13.9	15.1	13.5	15.2	13.3	.	15.0	9	14.7	14.0	15.2	1.7	13.7	
AU92-2427	14.0	12.7	12.2	13.4	12.9	.	15.0	11	14.9	11.8	12.8	1.6	13.1	
AU93-868	14.0	13.6	12.6	14.1	12.8	.	14.9	11	13.8	12.5	11.1	1.6	13.3	
N94-537	13.2	13.9	13.9	16.1	14.8	.	16.7	10	13.9	14.3	13.8	1.8	14.1	
SC91-2447	15.8	15.8	13.5	15.6	14.0	.	15.8	11	15.2	13.1	13.6	1.7	14.4	
SC92-3091	18.6	16.2	12.5	16.2	14.9	.	15.7	12	15.2	13.7	13.7	1.9	15.0	
SC93-1963	16.6	16.4	14.1	15.7	14.2	.	14.4	11	15.6	13.6	13.9	1.6	14.6	
SC93-2073	14.9	15.0	13.9	16.4	14.1	.	14.0	11	15.3	12.6	13.4	1.6	14.1	

TABLE 73 - RELATIVE MATURITY DATA, DAYS EARLIER(-) OR LATER (+) THAN COOK FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1997.

EAST	
STRAIN/ VARIETY	JACKSON SPRINGS NC
COOK	11/05
MAXCY	0
G90-1551	0
G91-270	0
G92-2388	0
G92-1306	0
G92-2167	0
AU91-13	4
AU92-2427	0
AU93-868	0
N94-537	0
SC91-2447	0
SC92-3091	0
SC93-1963	0
SC93-2073	0

WEST	
STRAIN VARIETY	BEAUMONT TX
COOK	10/25
MAXCY	2
G90-1551	5
G91-270	0
G92-2388	2
G92-1306	-7
G92-2167	1
AU91-13	5
AU92-2427	-3
AU93-868	-3
N94-537	-2
SC91-2447	1
SC92-3091	3
SC93-1963	7
SC93-2073	9

TABLE 73 - Continued.

STRAIN/ VARIETY	SOUTH											
	ATHENS GA	ATHENS GA(L)	BATON ROUGE LA	BLACKVILLE SC(L)	CLEMSON SC	FAIRHOPE AL	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	10/19	10/26	.	10/28	11/03	10/08	10/23	.	10/19	10/22	.	10/23
MAXCY	10	8	.	2	1	2	5	.	2	-2	.	4
G90-1551	13	12	.	7	6	13	6	.	9	8	.	9
G91-270	7	4	.	-1	-5	3	0	.	1	0	.	1
G92-2388	10	7	.	0	-3	8	0	.	3	1	.	3
G92-1306	6	7	.	3	1	4	-3	.	6	3	.	3
G92-2167	9	6	.	-1	-2	1	0	.	3	2	.	2
AU91-13	12	14	.	9	4	4	0	.	4	5	.	6
AU92-2427	4	3	.	1	0	-1	-3	.	3	1	.	0
AU93-868	6	2	.	0	-1	1	-8	.	1	-1	.	0
N94-537	-4	0	.	3	-2	0	-3	.	2	-1	.	-1
SC91-2447	11	9	.	5	5	16	7	.	11	6	.	9
SC92-3091	15	9	.	4	4	12	4	.	3	5	.	7
SC93-1963	17	15	.	5	7	10	4	.	8	5	.	9
SC93-2073	14	10	.	9	7	13	0	.	6	8	.	8

TABLE 74 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1997.

STRAIN/ VARIETY	SOUTH										
	ATHENS GA	ATHENS GA(L)	BLACKVILLE SC(L)	CLEMSON SC	FAIRHOPE AL	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	42	38	37	41	30	35	41	33	25	32	37
MAXCY	40	39	35	43	31	33	43	30	24	36	37
G90-1551	45	40	35	43	30	31	44	26	26	29	37
G91-270	44	39	39	45	26	33	46	31	26	34	38
G92-2388	41	38	36	43	30	35	43	32	22	30	37
G92-1306	39	33	32	39	28	27	41	28	22	32	34
G92-2167	46	37	36	45	31	30	46	33	25	33	38
AU91-13	42	43	42	45	33	28	57	32	25	37	40
AU92-2427	43	36	35	43	27	22	40	28	23	33	34
AU93-868	42	37	36	42	28	27	44	26	25	31	35
N94-537	42	39	40	44	30	30	45	34	28	35	38
SC91-2447	43	40	40	44	31	26	44	30	24	34	37
SC92-3091	39	38	34	40	31	28	43	28	28	32	35
SC93-1963	41	38	35	41	30	28	42	29	30	35	35
SC93-2073	40	40	37	41	30	33	42	31	29	34	37

TABLE 75 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1997.

EAST	
STRAIN/ VARIETY	JACKSON SPRINGS NC
COOK	3
MAXCY	2
G90-1551	2
G91-270	3
G92-2388	2
G92-1306	3
G92-2167	1
AU91-13	3
AU92-2427	2
AU93-868	2
N94-537	3
SC91-2447	3
SC92-3091	2
SC93-1963	2
SC93-2073	3

WEST	
STRAIN/ VARIETY	BEAUMONT TX
COOK	1
MAXCY	1
G90-1551	1
G91-270	1
G92-2388	1
G92-1306	1
G92-2167	1
AU91-13	1
AU92-2427	1
AU93-868	1
N94-537	1
SC91-2447	1
SC92-3091	1
SC93-1963	1
SC93-2073	1

TABLE 75 - Continued.

STRAIN/ VARIETY	SOUTH										MEAN
	ATHENS GA	ATHENS GA(L)	BLACKVILLE SC(L)	CLEMSON SC	FAIRHOPE AL	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	
COOK	3	3	2	3	1	1	3	1	1	1	2
MAXCY	3	3	1	4	1	1	3	2	1	1	2
G90-1551	4	3	1	4	1	1	2	1	1	2	2
G91-270	3	3	1	2	1	1	2	2	1	1	2
G92-2388	2	3	1	2	1	1	2	1	1	1	2
G92-1306	4	3	2	2	2	1	3	2	1	2	2
G92-2167	3	2	1	2	1	1	3	1	1	1	2
AU91-13	3	3	2	3	1	1	4	1	1	2	2
AU92-2427	3	2	1	3	1	1	2	1	1	1	2
AU93-868	4	3	1	3	1	1	2	1	1	1	2
N94-537	3	3	2	4	1	1	4	2	1	1	3
SC91-2447	3	3	1	3	1	1	2	2	1	1	2
SC92-3091	3	2	1	3	1	1	2	2	1	2	2
SC93-1963	3	3	1	3	1	1	3	1	1	1	2
SC93-2073	3	3	2	4	1	1	4	1	1	1	2

TABLE 76 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1997.

EAST	
STRAIN/ VARIETY	JACKSON SPRINGS NC
COOK	2
MAXCY	2
G90-1551	2
G91-270	2
G92-2388	2
G92-1306	2
G92-2167	2
AU91-13	2
AU92-2427	2
AU93-868	2
N94-537	3
SC91-2447	2
SC92-3091	2
SC93-1963	2
SC93-2073	2

SOUTH									
STRAIN/ VARIETY	ATHENS GA	ATHENS GA(L)	FAIRHOPE AL	JAY FL	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	2	2	2	4	2	1	1	2	2
MAXCY	2	2	2	4	3	1	1	2	2
G90-1551	2	2	2	3	2	1	1	1	2
G91-270	2	2	2	4	2	1	1	2	2
G92-2388	2	2	1	4	2	1	1	2	2
G92-1306	2	2	1	3	2	1	1	1	2
G92-2167	2	2	1	4	2	1	1	2	2
AU91-13	2	2	1	4	2	1	1	2	2
AU92-2427	2	2	1	3	2	1	1	3	2
AU93-868	2	2	1	4	1	1	1	2	2
N94-537	2	2	1	4	2	1	1	2	2
SC91-2447	2	2	1	3	2	1	1	1	2
SC92-3091	2	2	3	3	2	1	1	1	2
SC93-1963	2	2	2	4	2	1	1	1	2
SC93-2073	2	2	2	4	2	1	1	1	2

TABLE 76 - Continued.

STRAIN/ VARIETY	WEST
	BEAUMONT TX
COOK	2
MAXCY	2
G90-1551	2
G91-270	1
G92-2388	1
G92-1306	1
G92-2167	2
AU91-13	1
AU92-2427	2
AU93-868	2
N94-537	2
SC91-2447	2
SC92-3091	1
SC93-1963	2
SC93-2073	2

PRELIMINARY GROUP VIII**1997**

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

TABLE 77 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 1997.

STRAIN/ VARIETY	PARENTAGE	GENERATION COMPOSITED
1. COOK	BRAXTON X YOUNG	F6
2. MAXCY	D76-9665 X JOHNSTON	F6
3. G93-2202	COOK X COKER 6727	F6
4. G93-2513	HAGOOD X COKER 6727	F6
5. G93-2285	COOK X COKER 6727	F6
6. G93-2225	COOK X COKER 6727	F6
7. G93-2191	COOK X COKER 6727	F6
8. G93-1914	S84-1876 X D84-7174	F6
9. AU94-863	AU87-727 X COOK	F6
10. AU94-1957	CARVER X G83-198	F6
11. AU94-2014	CARVER X G83-198	F6
12. AU94-1262	CARVER X N88-431	F6
13. AU94-2471	CARVER X G86-1267	F6
14. SC94-2742	HAGOOD X STONEWALL	F5
15. SC94-1206	COKER 6847 X MAXCY	F5
16. SC94-842	HUTCHESON X MAXCY	F5
17. SC94-1577	NK'S S83-30 X BRYAN	F5
18. SC94-1000	COKER 6847 X G83-198	F5
19. SC94-3210	HAGOOD X COOK	F5
20. NTCPR96-1213	YOUNG X TANBAGURO	
21. NTCPR96-1215	YOUNG X TANBAGURO	
22. NTCPR96-1226	YOUNG X TANBAGURO	
23. NTCPR96-1235	YOUNG X TANBAGURO	
24. TSB93-543	STONEWALL X COKER 6738	F5
25. TSB93-791	STONEWALL X R82-368	F5
26. TSB93-2110	F79-6439 X DOWLING	F5
27. TSB93-2220	F79-6439 X THOMAS	F5
28. TSB93-2428	R82-368 X PERRIN	F5

**TABLE 78 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VIII, 1997 -
MEAN OF 3 LOCATIONS.**

STRAIN/ VARIETY	SEED	MAT.	LODGING	HEIGHT	QUALITY	SEED	----PERCENT----		STEM	SCN	SCN	M. i.	M. a.
	YIELD	INDEX				SIZE	PROTEIN	OIL	CANKER	3	14	TN	TN
COOK	35.7	10/25	2	36	2	13.0	40.3	20.2		5.0	4.0	1.5	3.5
MAXCY	39.2	8+	2	36	2	13.1	38.9	21.4		2.7	4.4	2.2	2.2
G93-2202	35.8	1+	2	35	2	14.1	41.3	19.5		1.7	4.3	1.3	1.6
G93-2513	36.6	2+	2	32	2	12.2	39.1	21.5		1.0	3.9	1.2	2.5
G93-2285	36.7	0	2	37	2	14.3	40.6	20.9		1.0	4.0	1.5	1.0
G93-2225	40.4	1+	2	34	2	12.1	39.4	19.5		1.2	4.0	1.0	2.3
G93-2191	35.9	1+	2	33	2	12.9	39.8	19.8		1.0	3.9	1.0	1.0
G93-1914	41.0	3+	2	39	2	13.4	40.3	20.4		1.0	2.1	1.0	1.4
AU94-863	37.3	2+	2	35	2	14.3	39.2	22.1		1.0	1.7	1.3	3.0
AU94-1957	35.5	2+	2	35	2	11.3	38.6	22.0		2.1	2.4	2.5	3.5
AU94-2014	31.4	1+	2	29	2	12.2	41.0	21.2		1.0	2.5	1.8	2.7
AU94-1262	31.8	0	2	32	2	12.1	41.3	21.3		4.2	2.9	2.5	2.2
AU94-2471	38.6	1-	2	36	2	13.5	38.1	21.3		1.9	1.7	1.6	1.3
SC94-2742	32.6	2+	2	36	2	13.3	41.1	21.4		1.0	2.3	1.4	3.3
SC94-1206	36.5	3+	2	36	2	13.2	39.0	22.2		1.6	2.3	2.4	3.3
SC94-842	36.7	3+	2	38	2	14.0	40.3	21.0		2.0	2.4	2.0	3.7
SC94-1577	36.7	3+	2	38	2	13.3	39.6	20.5		1.0	2.3	1.2	2.7
SC94-1000	37.1	3+	3	37	2	13.8	40.5	21.9		1.0	2.3	1.7	2.7
SC94-3210	35.6	9+	2	39	2	15.3	41.7	20.1		4.9	2.3	1.3	3.2
NTCPR96-1213	33.4	2+	3	37	2	22.8	41.9	21.4		4.4	2.8	3.0	4.2
NTCPR96-1215	34.3	2+	3	38	2	25.8	41.9	20.7		4.6	2.4	3.7	4.6
NTCPR96-1226	27.9	2+	3	42	2	29.4	42.1	22.6+		4.7	2.5	3.2	3.8
NTCPR96-1235	29.4	1+	3	43	2	30.1	42.0	23.9+		4.7	2.4	3.2	3.4
TSB93-543	34.2	10+	2	40	2	14.5	38.8	21.7		5.0	2.3	2.0	4.0
TSB93-791	32.8	11+	3	34	2	14.6	36.1-	23.0+		1.0	2.0	2.5	4.0
TSB93-2110	30.4	11+	2	44	2	14.2	39.3	22.2		5.0	3.3	1.0	2.5
TSB93-2220	34.0	11+	2	37	2	13.7	38.7	21.4		ND	3.0	2.0	2.4
TSB93-2428	36.6	11+	2	36	2	16.6	40.7	21.0		5.0	3.3	1.3	1.3
OVERALL MEAN	35.1						40.1	21.3					
L. S. D. (.05)	8.2						3.5	2.1					
C. V.	12%						4%	5%					

TABLE 79 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1997.

STRAIN/ VARIETY	BEAUMONT†	JACKSON SPRINGS	JAY†	PLAINS	TALLASSEE	MEAN
	TX	NC	FL	GA	AL	
COOK	31.2	39.8	13.5	40.3	26.9	35.7
MAXCY	28.7	40.1	14.0	42.5	35.1	39.2
G93-2202	37.6	38.6	23.5	33.9	35.0	35.8
G93-2513	25.8	34.8	16.0	35.5	39.4+	36.6
G93-2285	41.2	38.8	21.5	37.0	34.4	36.7
G93-2225	32.0	38.7	20.5	43.0	39.6+	40.4
G93-2191	35.6	33.0	21.5	37.0	37.6+	35.9
G93-1914	34.8	44.5	15.0	39.7	38.8+	41.0
AU94-863	38.7	38.0	18.5	39.7	34.3	37.3
AU94-1957	36.3	37.5	9.0	36.5	32.7	35.5
AU94-2014	29.4	31.2	10.5	31.3	31.7	31.4
AU94-1262	36.1	28.2	10.0	30.0	37.1+	31.8
AU94-2471	21.1	47.0	10.0	33.8	34.9	38.6
SC94-2742	40.5	27.1-	9.0	38.5	32.3	32.6
SC94-1206	27.8	38.6	12.5	36.8	34.2	36.5
SC94-842	38.0	47.0	13.5	29.5	33.6	36.7
SC94-1577	31.1	34.2	14.0	38.5	37.5+	36.7
SC94-1000	32.6	40.8	17.0	35.6	34.9	37.1
SC94-3210	28.4	39.0	14.0	37.9	29.9	35.6
NTCPR96-1213	20.4	42.4	5.5	30.2	27.7	33.4
NTCPR96-1215	17.0	40.1	7.0	39.4	23.5	34.3
NTCPR96-1226	18.2	33.7	6.0	28.6	21.5	27.9
NTCPR96-1235	19.7	39.1	4.0	23.9	25.2	29.4
TSB93-543	25.6	35.9	8.0	35.9	30.7	34.2
TSB93-791	27.9	34.7	4.0	33.2	30.6	32.8
TSB93-2110	33.5	31.7	10.0	28.9	30.6	30.4
TSB93-2220	29.2	28.4	11.0	34.3	39.3+	34.0
TSB93-2428	27.8	37.2	9.5	36.9	35.7	36.6
L. S. D. (0.05)	14.7	12.5		7.5	8.9	8.2
C. V. (%)	23.7	16.4			12.4	11.5

†Not included in Mean.

TABLE 80 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1997.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	17.8	18.7	18.4	21.9	20.2
MAXCY	19.2	21.0	19.9	22.8	21.4
G93-2202	18.6	19.0	17.5	21.5	19.5
G93-2513	18.7	19.9	20.4	22.6	21.5
G93-2285	18.3	18.0	20.9	20.8	20.9
G93-2225	17.8	19.3	17.7	21.3	19.5
G93-2191	18.1	19.1	18.5	21.1	19.8
G93-1914	19.1	19.3	19.0	21.7	20.4
AU94-863	20.2	20.2	20.9	23.3	22.1
AU94-1957	21.0	21.1	19.7	24.2	22.0
AU94-2014	19.6	19.6	18.7	23.7	21.2
AU94-1262	18.6	18.7	18.5	24.1	21.3
AU94-2471	19.6	20.7	19.1	23.5	21.3
SC94-2742	18.7	18.6	19.6	23.1	21.4
SC94-1206	19.9	19.2	20.7	23.6	22.2
SC94-842	20.6	19.3	19.1	22.9	21.0
SC94-1577	17.7	20.0	19.5	21.4	20.5
SC94-1000	20.2	21.5	20.7	23.0	21.9
SC94-3210	18.9	18.1	18.9	21.3	20.1
NTCPR96-1213	21.8	21.6	18.9	23.8	21.4
NTCPR96-1215	20.0	20.7	19.1	22.2	20.7
NTCPR96-1226	20.1	21.3	21.3	23.9	22.6
NTCPR96-1235	23.9	23.9	23.9	23.9	23.9
TSB93-543	18.4	20.8	21.4	22.0	21.7
TSB93-791	20.1	21.5	21.2	24.8	23.0
TSB93-2110	19.7	22.0	21.8	22.5	22.2
TSB93-2220	19.8	20.7	20.9	21.8	21.4
TSB93-2428	18.3	19.7	19.8	22.1	21.0

TABLE 81 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1997.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	46.0	44.6	43.7	36.9	40.3
MAXCY	45.3	43.3	41.9	35.8	38.9
G93-2202	46.6	44.9	44.4	38.2	41.3
G93-2513	45.9	43.9	41.0	37.2	39.1
G93-2285	46.0	46.3	41.9	39.3	40.6
G93-2225	45.9	43.8	44.0	34.7	39.4
G93-2191	46.1	44.7	42.5	37.1	39.8
G93-1914	44.3	44.2	42.4	38.2	40.3
AU94-863	44.3	44.6	41.7	36.6	39.2
AU94-1957	43.0	43.1	42.8	34.3	38.6
AU94-2014	46.1	45.5	45.2	36.8	41.0
AU94-1262	48.3	47.2	46.4	36.2	41.3
AU94-2471	48.5	43.1	41.5	34.7	38.1
SC94-2742	46.0	47.9	43.3	38.9	41.1
SC94-1206	45.9	46.0	42.2	35.8	39.0
SC94-842	44.0	44.8	43.1	37.4	40.3
SC94-1577	46.6	45.0	42.4	36.8	39.6
SC94-1000	45.1	44.1	42.5	38.5	40.5
SC94-3210	45.4	46.8	43.6	39.7	41.7
NTCPR96-1213	44.2	44.2	45.4	38.3	41.9
NTCPR96-1215	44.0	44.5	43.6	40.1	41.9
NTCPR96-1226	44.4	43.7	42.1	42.0	42.1
NTCPR96-1235	42.0	42.0	42.0	42.0	42.0
TSB93-543	45.5	44.0	40.1	37.5	38.8
TSB93-791	42.9	43.1	39.6	32.6	36.1
TSB93-2110	44.4	42.2	40.6	37.9	39.3
TSB93-2220	45.6	44.2	41.4	35.9	38.7
TSB93-2428	45.6	46.1	43.6	37.7	40.7

TABLE 82 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1997.

STRAIN/ VARIETY	BEAUMONT TX	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	14.4	14.8	12	13.0	11.3	13.0
MAXCY	13.7	13.6	12	14.0	11.6	13.1
G93-2202	14.9	16.5	11	12.9	12.9	14.1
G93-2513	13.0	12.2	12	12.2	12.3	12.2
G93-2285	14.4	16.1	11	14.4	12.4	14.3
G93-2225	11.9	13.1	11	12.6	10.7	12.1
G93-2191	13.0	13.8	11	13.0	12.0	12.9
G93-1914	14.1	14.6	11	13.2	12.4	13.4
AU94-863	17.0	14.9	12	15.2	12.7	14.3
AU94-1957	13.6	11.5	10	11.4	11.0	11.3
AU94-2014	11.6	14.3	10	11.2	11.2	12.2
AU94-1262	13.1	12.6	12	11.8	11.9	12.1
AU94-2471	11.5	15.7	12	12.3	12.6	13.5
SC94-2742	15.5	12.5	12	14.3	13.0	13.3
SC94-1206	14.2	13.3	11	14.9	11.4	13.2
SC94-842	15.8	16.4	12	12.6	13.1	14.0
SC94-1577	15.0	13.2	12	14.4	12.4	13.3
SC94-1000	14.7	13.7	12	14.8	12.9	13.8
SC94-3210	16.9	16.6	12	15.2	14.2	15.3
NTCPR96-1213	22.5	25.5	17	21.9	20.9	22.8
NTCPR96-1215	25.2	26.0	18	26.8	24.5	25.8
NTCPR96-1226	28.3	31.2	14	28.8	28.1	29.4
NTCPR96-1235	29.6	35.2	17	25.2	30.0	30.1
TSB93-543	14.5	14.4	12	15.2	13.9	14.5
TSB93-791	17.8	14.8	11	15.0	14.1	14.6
TSB93-2110	15.2	13.8	12	15.5	13.3	14.2
TSB93-2220	15.5	13.7	12	15.2	12.2	13.7
TSB93-2428	17.5	17.3	12	17.1	15.3	16.6

TABLE 83 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1997.

STRAIN/ VARIETY	BEAUMONT TX	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	28	34	33	43	30	36
MAXCY	29	34	31	46	29	36
G93-2202	24	32	33	43	31	35
G93-2513	25	27	28	41	28	32
G93-2285	27	35	27	45	33	37
G93-2225	23	31	27	39	32	34
G93-2191	29	29	30	40	30	33
G93-1914	30	35	34	45	36	39
AU94-863	29	33	29	41	31	35
AU94-1957	27	33	32	43	30	35
AU94-2014	28	24	31	37	25	29
AU94-1262	27	27	28	41	29	32
AU94-2471	25	31	32	44	32	36
SC94-2742	34	33	30	46	30	36
SC94-1206	31	34	36	45	31	36
SC94-842	33	34	33	48	31	38
SC94-1577	27	34	34	47	32	38
SC94-1000	28	36	36	42	33	37
SC94-3210	30	37	38	48	32	39
NTCPR96-1213	25	35	31	44	31	37
NTCPR96-1215	29	36	30	48	30	38
NTCPR96-1226	33	38	32	52	36	42
NTCPR96-1235	38	42	36	50	37	43
TSB93-543	29	35	36	50	35	40
TSB93-791	32	30	34	40	33	34
TSB93-2110	37	37	36	55	39	44
TSB93-2220	27	33	34	45	33	37
TSB93-2428	27	31	29	44	33	36

TABLE 84 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1997.

STRAIN/ VARIETY	BEAUMONT TX	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	1	2	1	3	1	2
MAXCY	1	2	1	3	2	2
G93-2202	1	2	1	2	1	2
G93-2513	1	2	1	3	1	2
G93-2285	1	3	1	2	1	2
G93-2225	1	2	1	3	1	2
G93-2191	1	2	1	2	1	2
G93-1914	2	2	1	2	1	2
AU94-863	2	2	1	4	1	2
AU94-1957	1	2	1	3	1	2
AU94-2014	1	2	1	3	1	2
AU94-1262	1	1	1	3	1	2
AU94-2471	1	2	1	3	1	2
SC94-2742	1	2	1	3	1	2
SC94-1206	1	2	1	3	1	2
SC94-842	2	2	1	3	1	2
SC94-1577	1	1	1	3	1	2
SC94-1000	2	2	1	4	2	3
SC94-3210	1	2	1	2	1	2
NTCPR96-1213	1	3	2	5	3	3
NTCPR96-1215	1	3	2	5	2	3
NTCPR96-1226	1	3	2	4	2	3
NTCPR96-1235	1	2	2	4	2	3
TSB93-543	2	2	2	2	1	2
TSB93-791	2	2	1	4	2	3
TSB93-2110	2	2	1	4	1	2
TSB93-2220	2	2	1	2	1	2
TSB93-2428	2	2	1	3	1	2

TABLE 85 - SEED QUALITY FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1997.

STRAIN/ VARIETY	BEAUMONT TX	JACKSON SPRINGS NC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	2	2	4	2	1	2
MAXCY	3	2	5	2	1	2
G93-2202	2	2	3	2	1	2
G93-2513	2	2	4	2	1	2
G93-2285	2	2	4	2	1	2
G93-2225	2	2	4	2	1	2
G93-2191	3	2	3	2	1	2
G93-1914	2	2	4	2	1	2
AU94-863	1	2	3	2	1	2
AU94-1957	1	2	4	2	1	2
AU94-2014	2	2	4	2	1	2
AU94-1262	3	2	4	2	1	2
AU94-2471	3	2	4	2	1	2
SC94-2742	1	2	3	2	1	2
SC94-1206	2	2	4	2	1	2
SC94-842	2	2	4	2	1	2
SC94-1577	2	2	4	2	1	2
SC94-1000	1	2	3	2	1	2
SC94-3210	1	2	3	2	1	2
NTCPR96-1213	2	2	5	4	1	2
NTCPR96-1215	2	2	5	3	1	2
NTCPR96-1226	1	2	4	3	1	2
NTCPR96-1235	1	2	4	3	1	2
TSB93-543	1	2	3	2	1	2
TSB93-791	2	2	6	2	1	2
TSB93-2110	1	2	2	2	1	2
TSB93-2220	1	2	4	2	1	2
TSB93-2428	2	2	3	2	1	2