

UNIFORM SOYBEAN TESTS
SOUTHERN STATES
1996

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

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SOUTHERN STATES

1996

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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: Manokin, Delsoy 4710, Hutcheson, Brim, TN690, 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
D	-	Delta Branch Experiment Station and USDA-ARS
F	-	Florida Agricultural Experiment Station and USDA-ARS
G	-	Georgia Agricultural Experiment Station
K	-	Kansas Agricultural Experiment Station
KY	-	Kentucky Agricultural Experiment Station
LS	-	Southern Illinois University, Carbondale
MD	-	Maryland Agricultural Experiment Station and USDA-ARS
N	-	North Carolina Agricultural Experiment Station and USDA-ARS
NTCPR	-	North Carolina Agricultural Experiment Station and USDA-ARS
OK	-	Oklahoma Agricultural Experiment Station
R	-	Arkansas Agricultural Experiment Station
RJ	-	Arkansas State University, Jonesboro
S	-	Missouri Agricultural Experiment Station
SC	-	South Carolina Agricultural Experiment Station, Clemson
TN	-	Tennessee Agricultural Experiment Station
TSB	-	Texas Agricultural Experiment Station, Beaumont, Texas
V	-	Virginia Agricultural Experiment Station
VS	-	Virginia Agricultural Experiment Station

LOCATION OF SOYBEAN NURSERIES ALONG WITH SOIL TYPE

LOCATION	IV	V	VI	VII	VIII	SOIL
<i>EAST COAST</i>						
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			
<i>SOUTHEAST</i>						
Blackville, SC(A)			UP	UP	UP	Faceville sandy loam
Blackville, SC(B)				U	U	Norfolk sandy loam
Tifton, GA			U	U	U	Tifton sandy loam
Tallassee, AL			UP	UP	UP	Cahaba fine s. l.
Quincy, FL			U	U	UP	Orangeburg loamy fine sand
Jay, FL			UP	UP	UP	Red Bay sandy loam
Fairhope, AL			U	U	U	Malbis fine sandy loam
Baton Rouge, LA		U	U	U	U	Olivier silt loam
<i>UPPER AND CENTRAL SOUTH</i>						
Orange, VA	U	U				Starr silty clay loam
Clemson, SC			U	U	U	Cecil sandy loam
Calhoun, GA		U	U	U		Rome gravelly clay loam
Athens, GA		U	UP	UP	U	Cecil coarse sand loam
Plains, GA					UP	Greenville sandy clay loam
Belle Mina, AL		U	U			Decatur silt loam
Knoxville, TN	U	U				Sequatchie silt loam
Ullin, IL	UP	UP				Stoy silt loam
Princeton, KY	UP	U				Crider silt loam
Martin, TN	U	U				Falaja silt loam
Jackson, TN		P				Lexington silt loam
Starkville, MS	U	U	U	U		Leeper silty clay
Suffolk, VA		U	U			Lynchburg fine sandy loam
<i>DELTA</i>						
Portageville, MO(A)	UP	UP	UP			Tiptonville s. l.
Portageville, MO(B)	U	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
Stoneville, MS(B)	UP	UP	UP	UP		Sharkey clay
Rohwer, AR			U			Perry clay
<i>WEST</i>						
Walnut, KS	U	U				Kenoma silt loam
McCune, KS	U					Parsons silt loam
Pittsburg, KS	UP	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
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

The uniform nurseries were planted in four-row plots with three replications at all locations with the exception of one location which had three-row plots with three replications. The preliminary nurseries were planted similarly with two replications. 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 UIVS-UVIII and PIVS-PVIII were conducted in a greenhouse at the USDA-ARS Nematology Investigations at Jackson, Tennessee.

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

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

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

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

The isolates of *M. incognita* 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 were based on screenings made at Jackson, Tennessee. For the screening, seed of each strain was planted in sterile soil at a rate of one per pot for a total of seven pots per strain. At the time of planting, 1000 eggs of the race being evaluated were added to each pot. Approximately four weeks after planting, plants were rated based on the number of female cysts on the roots. The ratings were as follows:

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

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

Stem Canker

Mississippi. Strains from UIVS-UVIII and PIVS-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 low yields or extremely high C.V.'s were not included in the combined analysis or in calculating the means across locations. The yield was then analyzed across all locations within a maturity group by analysis of variance. The means of the various traits were calculated at the same time and are reported in this publication.

UNIFORM GROUP IV-S**1996**

Uniform Group IV-S nurseries were planted at 19 locations. Data were obtained from 15 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, 1996.

STRAIN/ VARIETY		PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048	X D74-7824	F5
2. DELSOY 4710	L77-443	X L77-906	F5
3. LS92-1178	PHARAOH	X AVERY	F6
4. LS92-4357	RIPLEY	X ASGROW 5474	F6
5. LS92-4173	FLYER	X PYRAMID	F6
6. MD92-5769	N85-578	X RIPLEY	F5
7. V91-2492	CHESAPEAKE	X HUTCHESON	F5
8. V91-2547	CHESAPEAKE	X HUTCHESON	F5
9. V90-798	HUTCHESON	X P9441	F4
10. KY91-1352	SOUTHERN STATES SS391	X KY84-1616	F5
11. KY91-1214	PIONEER 9391	X KY84-1616	F5
12. K1305	K1154	X N84-507	F5
13. K1307	K1133	X R85-3309	F5
14. K1330	DEKALB CX366	X K79-4	F5
15. K1331	A86-303014	X STAFFORD	F5
16. S92-2716	WILLIAMS (2)	X (FORREST X PI 437,654)	F6
17. TN91-55	TN4-86	X TN83-67	F8

TABLE 2 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S, 1996.

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1996	95-96	94-96	1996	95-96	94-96	1996	95-96	94-96
1. MANOKIN	50.8	43.8	45.4	42.5	42.1	41.6	20.9	20.7	20.7
2. DELSOY 4710	44.4	38.9	40.8	42.3	42.2	41.7	20.8	20.4	20.3
3. LS92-1178	44.1	.	.	41.7	.	.	21.2	.	.
4. LS92-4357	45.0	.	.	43.6	.	.	19.8	.	.
5. LS92-4173	44.6	.	.	42.3	.	.	21.1	.	.
6. MD92-5769	48.6	.	.	40.4	.	.	21.0	.	.
7. V91-2492	47.8	.	.	43.1	.	.	20.3	.	.
8. V91-2547	47.3	.	.	44.1	.	.	20.5	.	.
9. V90-798	48.2	43.0	.	44.1	43.3	.	20.4	20.4	.
10. KY91-1352	50.5	45.3	.	42.8	42.5	.	21.0	20.7	.
11. KY91-1214	50.0	.	.	42.2	.	.	21.5	.	.
12. K1305	45.6	41.5	.	42.0	41.7	.	20.8	20.8	.
13. K1307	46.6	42.7	.	41.4	40.9	.	20.9	20.5	.
14. K1330	47.9	.	.	44.0	.	.	20.3	.	.
15. K1331	45.1	.	.	42.5	.	.	21.4	.	.
16. S92-2716	43.7	.	.	44.2	.	.	21.1	.	.
17. TN91-55	44.7	41.3	.	42.9	42.7	.	21.5	21.0	.

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

BOTANICAL TRAITS

STRAIN/ VARIETY	FL	MAT.	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
	COLOR	DATE						
1. MANOKIN	W	0	2.3	28.8	1.7	12.6	T	T
2. DELSOY 4710	P	-7	2.6	39.3	2.7	15.9	T	T
3. LS92-1178	W	-5	1.7	27.4	1.8	14.2	T	Br
4. LS92-4357	W	-2	1.5	28.8	1.6	13.9	T	Br
5. LS92-4173	P	-8	1.9	32.5	2.2	14.4	G	T
6. MD92-5769	P	0	1.3	22.1	1.7	13.2	G	T
7. V91-2492	W	-3	2.5	37.0	2.1	14.3	G	T
8. V91-2547	W	-4	1.8	33.4	2.3	14.9	G	T
9. V90-798	W	-3	2.0	35.7	2.1	14.3	G	T
10. KY91-1352	W	3	1.6	34.4	1.9	15.0	T	T
11. KY91-1214	P	-1	1.6	35.0	2.0	14.7	T	T
12. K1305	P	0	1.7	25.2	1.4	12.2	G	T
13. K1307	P	2	1.6	26.8	1.8	12.0	T	T
14. K1330	P	-4	1.9	31.2	2.1	15.6	T	T
15. K1331	P	0	1.6	33.0	2.1	15.5	G	T
16. S92-2716	W	-7	3.0	37.7	2.5	16.6	T	T
17. TN91-55	P	-5	2.1	36.4	2.0	13.7	T	T

Table 2 - (Continued).

PEST REACTIONS										
STRAIN/ VARIETY	SDS	STEM CANKER	M.a. GA	M.a. TN	M.i. GA	M.i. TN	SCN 3	SCN 5	SCN 14	
1. MANOKIN	4.6	R	4.3	2.2	2.0	2.2	1.0	3.6	4.9	
2. DELSOY 4710	31.5	R	2.5	2.5	5.0	4.5	1.0	4.9	3.0	
3. LS92-1178	5.7	R	3.0	2.7	2.0	3.3	1.0	5.0	4.9	
4. LS92-4357	3.5	R	2.8	3.0	5.0	4.7	1.0	4.8	4.8	
5. LS92-4173	-0.5	R	5.0	2.3	5.0	4.0	1.0	4.5	4.0	
6. MD92-5769	4.2	S	3.8	2.2	4.0	4.0	4.9	5.0	5.0	
7. V91-2492	9.8	R	4.8	2.5	4.8	4.0	4.5	4.6	5.0	
8. V91-2547	27.6	R	2.0	2.3	4.8	4.0	4.6	4.8	5.0	
9. V90-798	28.8	R/S	2.8	2.3	5.0	4.0	4.3	4.9	4.8	
10. KY91-1352	22.1	R	4.5	2.5	4.3	4.0	4.7	5.0	5.0	
11. KY91-1214	29.4	R	4.0	2.3	3.8	4.0	4.7	4.6	5.0	
12. K1305	11.9	S	4.5	2.3	5.0	4.0	5.0	5.0	5.0	
13. K1307	-2.0	R	4.3	2.0	4.3	4.0	1.7	4.3	4.8	
14. K1330	20.6	R	4.3	2.7	4.3	4.4	4.7	4.3	5.0	
15. K1331	51.7	R	2.0	2.2	5.0	5.0	4.9	4.5	5.0	
16. S92-2716	18.7	R	3.8	2.7	5.0	5.0	1.1	1.5	2.5	
17. TN91-55	-4.4	R	2.8	2.2	5.0	5.0	1.4	4.0	4.0	

See Methods section for description of rating scales.

TABLE 3 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1996.

STRAIN/ VARIETY	EAST		MEAN
	QUEENSTOWN	WARSAW	
	MD	VA	
MANOKIN	48.2	54.6	51.4
DELSOY 4710	45.9	51.9	48.9
LS92-1178	47.2	51.1	49.1
LS92-4357	42.1	55.2	48.6
LS92-4173	46.8	57.3	52.0
MD92-5769	47.0	55.6	51.3
V91-2492	54.0	55.9	55.0
V91-2547	52.8	53.2	53.0
V90-798	46.7	53.7	50.2
KY91-1352	55.6	61.3	58.4
KY91-1214	55.1	57.7	56.4
K1305	51.7	54.2	52.9
K1307	50.4	54.1	52.2
K1330	54.7	56.5	55.6
K1331	49.5	53.5	51.5
S92-2716	43.4	47.9	45.7
TN91-55	40.1	52.2	46.1
L. S. D. (0.05)	5.4	4.2	.
C. V. (%)	6.6	4.7	.

STRAIN/ VARIETY	SOUTH							MEAN
	CORA	KNOXVILLE	MARTIN	ORANGE	PRINCETON	STARKVILLE		
	IL	TN	TN†	VA	KY	MS		
MANOKIN	57.4	50.2	39.6	42.1	52.3	39.4	48.3	
DELSOY 4710	56.9	41.3	45.4	39.1	43.8	25.9	41.4	
LS92-1178	54.4	48.1	43.6	38.7	47.8	26.9	43.2	
LS92-4357	57.5	48.7	45.7	37.6	43.1	27.9	43.0	
LS92-4173	57.2	43.7	41.0	33.1	40.8	21.1	39.2	
MD92-5769	57.2	50.4	36.2	44.3	48.1	23.7	44.7	
V91-2492	60.6	43.8	28.7	48.9	48.3	35.4	47.4	
V91-2547	53.1	50.0	44.1	45.0	56.3	38.2	48.5	
V90-798	54.2	48.7	44.4	45.1	48.5	38.6	47.0	
KY91-1352	57.7	45.1	51.7	46.5	56.0	38.1	48.7	
KY91-1214	58.5	47.9	39.9	42.7	53.4	29.1	46.3	
K1305	53.7	37.0	49.0	43.3	43.0	27.3	40.8	
K1307	59.7	41.6	56.1	34.0	50.8	28.6	42.9	
K1330	61.8	45.3	37.9	48.3	48.4	19.2	44.6	
K1331	53.0	36.3	48.3	40.8	44.8	30.8	41.1	
S92-2716	51.2	47.4	47.4	38.2	40.2	30.1	41.4	
TN91-55	58.0	44.7	51.7	37.3	42.7	16.5	39.8	
L. S. D. (0.05)	5.6	7.7	21.1	7.4	10.8	8.5	.	
C. V. (%)	5.9	10.2	26.9	10.3	13.7	17.6	.	

†Not included in mean.

Table 3 - (Continued).

DELTA						
STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS	MEAN
MANOKIN	57.4	54.4	62.1	61.7	55.1	58.2
DELSOY 4710	48.6	46.2	60.7	44.6	54.5	50.9
LS92-1178	50.8	52.6	48.2	34.0	55.1	48.2
LS92-4357	57.2	52.8	56.9	41.6	49.2	51.6
LS92-4173	59.5	50.6	59.7	40.4	46.7	51.4
MD92-5769	64.7	57.8	61.8	46.5	55.9	57.3
V91-2492	52.1	41.4	64.3	45.5	55.5	51.8
V91-2547	52.3	40.5	65.1	52.0	42.8	50.5
V90-798	53.1	52.7	63.0	51.2	55.2	55.0
KY91-1352	61.5	51.2	65.7	51.8	59.9	58.0
KY91-1214	61.5	50.7	70.2	49.6	62.6	58.9
K1305	51.4	53.3	63.3	42.5	58.2	53.7
K1307	58.7	57.8	57.3	37.2	48.5	51.9
K1330	58.5	47.2	62.1	51.1	54.8	54.7
K1331	56.8	48.0	63.4	45.6	46.0	52.0
S92-2716	49.9	42.3	53.4	48.7	55.1	49.9
TN91-55	49.7	51.0	61.4	47.1	49.5	51.8
L.S.D. (0.05)	6.8	7.0	5.2	5.7	6.0	.
C.V. (%)	7.4	8.4	5.1	7.4	6.7	.

WEST			
STRAIN/ VARIETY	BIXBY OK	PITTSBURG KS	MEAN
MANOKIN	31.7	44.5	38.1
DELSOY 4710	26.6	35.7	31.2
LS92-1178	25.1	36.7	30.9
LS92-4357	24.3	35.5	29.9
LS92-4173	29.4	38.8	34.1
MD92-5769	34.9	32.1	33.5
V91-2492	28.8	34.0	31.4
V91-2547	31.4	29.4	30.4
V90-798	30.1	33.5	31.8
KY91-1352	31.3	25.4	28.4
KY91-1214	33.0	28.2	30.6
K1305	28.3	31.2	29.8
K1307	30.8	42.7	36.8
K1330	27.9	35.5	31.7
K1331	30.1	32.8	31.4
S92-2716	28.2	35.9	32.0
TN91-55	34.4	41.1	37.8
L.S.D. (0.05)	5.4	9.3	.
C.V. (%)	10.9	16.1	.

TABLE 4 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1996.

OIL PERCENTAGE

STRAIN/ VARIETY	BIXBY OK	CORA IL	KNOXVILLE TN	MARTIN TN	ORANGE VA	PITTSBURG KS	PORTAGE-		PRINCETON KY	QUEENSTOWN MD	STARKVILLE MS	STONEVILLE MS	WARSAW VA	MEAN
							VILLE MO (A)	VILLE MO (B)						
MANOKIN	.	18.6	21.4	21.4	19.4	.	21.7	.	23.0	19.5	21.7	22.9	20.3	20.9
DELLOY 4710	.	20.2	22.0	21.2	20.1	.	21.6	.	21.1	19.5	20.8	21.7	20.3	20.8
LS92-1178	.	18.2	22.1	20.9	19.7	.	22.4	.	21.9	19.9	22.8	23.2	20.6	21.2
LS92-4357	.	19.6	20.1	22.1	18.5	.	20.5	.	20.0	18.9	20.2	21.2	19.0	19.8
LS92-4173	.	20.8	21.8	20.8	20.2	.	22.2	.	21.6	19.4	22.1	22.2	19.9	21.1
MD92-5769	.	19.9	21.0	20.3	19.5	.	21.8	.	21.7	20.4	22.1	22.8	20.1	21.0
V91-2492	.	18.9	20.7	21.3	19.8	.	21.4	.	21.7	19.5	20.5	20.8	19.8	20.3
V91-2547	.	19.3	21.6	21.0	19.4	.	21.3	.	22.0	19.0	21.0	21.4	19.8	20.5
V90-798	.	18.6	21.1	20.3	18.9	.	21.7	.	21.9	18.9	21.2	22.1	19.5	20.4
KY91-1352	.	19.5	20.6	19.9	20.2	.	21.7	.	22.4	19.8	22.7	22.3	20.0	21.0
KY91-1214	.	20.5	22.7	21.3	20.6	.	22.2	.	22.0	20.2	22.6	22.3	20.2	21.5
K1305	.	18.8	22.1	20.9	20.1	.	22.3	.	22.0	19.6	20.5	21.9	19.9	20.8
K1307	.	18.6	21.4	21.0	20.2	.	21.9	.	22.2	19.9	22.0	22.2	20.0	20.9
K1330	.	19.4	21.3	20.8	19.0	.	21.6	.	22.2	19.0	18.8	21.2	19.8	20.3
K1331	.	20.0	22.7	21.2	19.5	.	22.2	.	23.0	19.6	22.5	23.1	20.2	21.4
S92-2716	.	21.1	21.7	20.5	19.8	.	22.0	.	22.3	20.1	20.9	21.9	20.1	21.1
TN91-55	.	19.7	22.4	21.5	20.2	.	22.7	.	23.3	19.7	21.7	22.9	20.8	21.5

PROTEIN

STRAIN/ VARIETY	BIXBY OK	CORA IL	KNOXVILLE TN	MARTIN TN	ORANGE VA	PITTSBURG KS	PORTAGE-		PRINCETON KY	QUEENSTOWN MD	STARKVILLE MS	STONEVILLE MS	WARSAW VA	MEAN
							VILLE MO (A)	VILLE MO (B)						
MANOKIN	.	42.2	43.0	43.4	39.8	.	43.0	.	39.7	42.4	46.8	44.1	41.1	42.5
DELLOY 4710	.	40.9	42.2	42.6	39.7	.	42.6	.	40.7	41.5	46.3	45.4	41.8	42.3
LS92-1178	.	42.8	41.7	43.5	39.3	.	42.3	.	40.5	41.3	42.7	42.9	41.5	41.7
LS92-4357	.	42.1	44.4	41.9	41.1	.	43.8	.	42.9	42.2	47.3	44.2	44.5	43.6
LS92-4173	.	39.5	43.4	43.5	39.5	.	42.5	.	42.8	42.0	44.5	44.1	42.8	42.3
MD92-5769	.	40.1	40.4	42.7	38.7	.	39.8	.	39.9	39.4	43.9	39.8	41.2	40.4
V91-2492	.	43.1	44.9	42.5	41.6	.	43.5	.	41.0	42.9	46.1	43.1	41.5	43.1
V91-2547	.	43.4	44.2	43.8	42.4	.	43.5	.	41.3	43.5	48.4	46.4	44.2	44.1
V90-798	.	43.5	44.5	44.3	42.4	.	43.9	.	41.0	44.0	49.1	45.4	42.8	44.1
KY91-1352	.	42.0	41.6	44.4	41.4	.	43.5	.	40.7	41.4	47.3	45.1	42.2	42.8
KY91-1214	.	40.3	41.8	45.9	40.4	.	42.4	.	41.9	41.7	45.8	43.3	42.0	42.2
K1305	.	42.6	42.4	44.5	40.5	.	41.7	.	40.5	41.5	45.0	42.4	41.0	42.0
K1307	.	41.7	41.9	42.4	38.1	.	42.6	.	39.1	40.3	44.4	42.2	41.9	41.4
K1330	.	41.6	45.5	43.9	41.8	.	43.3	.	42.6	43.9	48.0	45.5	43.5	44.0
K1331	.	42.1	42.5	43.7	41.7	.	41.7	.	40.9	42.5	47.7	41.3	42.5	42.5
S92-2716	.	42.0	43.5	44.7	41.9	.	45.1	.	43.8	43.9	47.5	47.1	42.8	44.2
TN91-55	.	42.3	42.2	44.6	41.3	.	43.7	.	41.2	43.3	44.7	44.3	43.2	42.9

TABLE 4 - (Continued).

GRAMS PER 100 SEED

STRAIN/ VARIETY	PORTAGE-		PORTAGE-		ORANGE VA	PITTSBURG KS	VILLE MO (A)	VILLE MO (B)	PRINCETON KY	QUEENSTOWN MD	STARKVILLE MS	STONEVILLE MS	WARSAW VA	MEAN
	BIXBY OK	CORA IL	KNOXVILLE TN	MARTIN TN										
MANOKIN	15.1	12.9	12.6	16.4	12.5	10.1	11.3	12.0	15.0	12.8	11.5	.	13.1	12.6
DELROY 4710	17.0	16.4	15.9	15.0	15.3	15.4	15.8	17.4	16.4	15.4	13.1	.	16.3	15.9
LS92-1178	17.2	14.4	12.9	15.1	14.5	13.2	11.8	14.8	15.2	14.7	13.0	.	14.5	14.2
LS92-4357	15.3	13.9	13.7	17.6	13.8	13.7	12.7	13.9	15.1	14.2	11.9	.	14.3	13.9
LS92-4173	16.0	15.1	13.5	19.1	14.8	14.2	14.0	15.2	14.4	14.5	11.0	.	15.4	14.4
MD92-5769	15.5	13.6	13.2	16.4	13.6	10.1	12.4	14.1	15.2	13.3	11.7	.	13.1	13.2
V91-2492	15.4	15.1	13.9	14.6	16.1	13.2	13.8	14.5	13.2	14.4	14.3	.	13.4	14.3
V91-2547	15.8	15.1	15.4	20.5	16.0	13.3	14.5	15.7	14.7	14.6	13.5	.	15.0	14.9
V90-798	16.2	14.3	14.4	15.5	14.7	12.8	13.3	15.3	13.6	14.7	13.7	.	14.0	14.3
KY91-1352	16.1	13.7	14.1	16.4	15.2	14.2	14.1	16.0	16.4	15.1	14.7	.	15.0	15.0
KY91-1214	17.0	12.9	14.3	22.3	15.6	13.9	15.2	16.7	14.8	14.5	12.9	.	14.5	14.7
K1305	14.0	12.5	12.0	19.0	12.1	12.1	11.1	12.1	12.9	11.9	11.0	.	12.2	12.2
K1307	14.8	11.6	11.2	13.9	11.7	12.0	10.9	11.9	13.1	12.1	10.4	.	12.0	12.0
K1330	16.6	16.3	15.5	17.2	16.9	13.5	16.2	16.0	15.5	16.0	12.1	.	17.5	15.6
K1331	15.8	14.6	13.6	15.2	15.7	14.0	15.2	17.8	18.7	14.7	15.5	.	15.1	15.5
S92-2716	16.5	17.6	16.8	17.7	15.9	14.9	16.2	16.8	17.6	17.6	13.3	.	18.9	16.6
TN91-55	15.5	13.3	13.2	17.3	14.8	13.9	12.2	14.7	13.9	12.7	12.0	.	14.0	13.7

TABLE 5 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN MANOKIN FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1996.

EAST

STRAIN/ VARIETY	QUEENSTOWN	WARSAW	MEAN
	MD	VA	
MANOKIN	10/13	10/10	10/12
DELSOY 4710	-6	-6	-7
LS92-1178	-2	-4	-4
LS92-4357	0	-3	-2
LS92-4173	-8	-7	-8
MD92-5769	1	-2	-1
V91-2492	0	-5	-3
V91-2547	-2	-5	-4
V90-798	1	-3	-2
KY91-1352	4	1	2
KY91-1214	-2	-4	-3
K1305	1	0	0
K1307	4	-2	0
K1330	-2	-2	-3
K1331	0	1	0
S92-2716	-4	-5	-5
TN91-55	-2	-4	-4

SOUTH

STRAIN/ VARIETY	CORA	KNOXVILLE	MARTIN	ORANGE	PRINCETON	STARKVILLE	MEAN
	IL	TN	TN	VA	KY	MS	
MANOKIN	10/13	09/25	10/11	10/15	10/13	09/04	10/02
DELSOY 4710	-10	-2	0	-6	-15	-8	-8
LS92-1178	-1	-3	1	-3	-10	-10	-5
LS92-4357	-3	0	0	-1	-2	-6	-3
LS92-4173	-10	-2	0	-3	-14	-15	-9
MD92-5769	-3	1	0	1	0	-4	-1
V91-2492	-2	0	0	1	-10	-4	-3
V91-2547	-6	0	1	1	-10	-4	-4
V90-798	-6	-1	0	2	-12	-4	-4
KY91-1352	-2	7	0	-1	-3	1	0
KY91-1214	-8	2	0	-4	-9	3	-3
K1305	0	0	1	2	-2	-4	-1
K1307	-4	7	0	1	-2	1	1
K1330	-7	1	0	0	-11	-9	-5
K1331	-6	0	1	2	-10	4	-2
S92-2716	-7	-3	0	-4	-16	-12	-8
TN91-55	-4	-3	0	1	-12	-11	-6

TABLE 5 - (Continued).

STRAIN/ VARIETY	DELTA						MEAN
	KEISER AR	MARIANNA AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS		
MANOKIN	09/29	09/25	09/28	10/04	09/14	09/26	
DELSOY 4710	-6	-8	-4	-6	-3	-5	
LS92-1178	-7	-6	-6	-6	-8	-7	
LS92-4357	-3	-3	-3	0	-3	-2	
LS92-4173	-7	-8	-6	-7	-8	-7	
MD92-5769	1	-1	0	1	8	2	
V91-2492	-3	-7	-2	-2	-4	-4	
V91-2547	-3	-6	-3	-4	-3	-4	
V90-798	-4	-3	-2	0	-5	-3	
KY91-1352	5	7	10	5	10	7	
KY91-1214	4	2	3	2	9	4	
K1305	0	0	1	-1	6	1	
K1307	1	3	-1	1	6	2	
K1330	0	-3	-2	0	-6	-2	
K1331	-1	1	1	0	9	2	
S92-2716	-4	-8	-6	-5	-4	-5	
TN91-55	-1	-6	-3	-5	-5	-4	

TABLE 6 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1996.

EAST

STRAIN/ VARIETY	QUEENSTOWN		WARSAW	MEAN
	MD		VA	
MANOKIN	33		33	33
DELSOY 4710	44		41	43
LS92-1178	33		32	33
LS92-4357	33		33	33
LS92-4173	37		35	36
MD92-5769	25		25	25
V91-2492	38		35	37
V91-2547	35		33	34
V90-798	38		38	38
KY91-1352	40		37	39
KY91-1214	37		37	37
K1305	30		29	30
K1307	29		29	29
K1330	34		32	33
K1331	37		37	37
S92-2716	41		38	39
TN91-55	40		41	41

SOUTH

STRAIN/ VARIETY	CORA	KNOXVILLE	MARTIN	ORANGE	PRINCETON	STARKVILLE	MEAN
	IL	TN	TN	VA	KY	MS	
MANOKIN	36	33	26	30	27	16	29
DELSOY 4710	46	39	29	45	39	23	39
LS92-1178	30	32	32	31	29	18	28
LS92-4357	39	37	25	31	24	17	29
LS92-4173	40	34	31	34	29	19	31
MD92-5769	26	27	30	24	21	15	22
V91-2492	46	40	26	37	33	28	37
V91-2547	39	37	27	35	30	26	33
V90-798	42	38	29	34	33	24	34
KY91-1352	37	33	31	33	34	26	33
KY91-1214	38	35	28	36	34	25	34
K1305	29	30	29	28	25	16	26
K1307	35	32	34	30	26	15	28
K1330	34	31	31	30	30	21	29
K1331	34	33	30	31	28	27	31
S92-2716	43	41	29	36	34	26	36
TN91-55	44	35	35	37	35	19	34

TABLE 6 - (Continued).

DELTA						
STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS	MEAN
MANOKIN	31	34	35	20	20	28
DELSOY 4710	45	48	48	34	31	41
LS92-1178	28	29	29	19	19	25
LS92-4357	29	31	34	19	23	27
LS92-4173	40	40	42	26	29	35
MD92-5769	24	23	24	17	19	21
V91-2492	42	40	49	33	34	40
V91-2547	38	39	44	28	31	36
V90-798	38	41	52	29	33	39
KY91-1352	44	41	44	30	26	37
KY91-1214	43	43	43	29	31	38
K1305	28	25	28	16	16	23
K1307	29	27	29	16	21	24
K1330	40	32	38	28	28	33
K1331	41	37	41	29	31	36
S92-2716	43	44	46	37	35	41
TN91-55	41	42	47	30	29	38

WEST			
STRAIN/ VARIETY	BIXBY OK	PITTSBURG KS	MEAN
MANOKIN	22	33	27
DELSOY 4710	28	37	33
LS92-1178	23	30	27
LS92-4357	24	31	28
LS92-4173	19	33	26
MD92-5769	16	24	20
V91-2492	27	35	31
V91-2547	22	30	26
V90-798	28	32	30
KY91-1352	27	30	28
KY91-1214	28	32	30
K1305	23	31	27
K1307	26	31	29
K1330	27	30	29
K1331	25	30	28
S92-2716	28	36	32
TN91-55	32	38	35

TABLE 7 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1996.

EAST

STRAIN/ VARIETY	QUEENSTOWN	WARSAW	MEAN
	MD	VA	
MANOKIN	4	3	4
DELSOY 4710	4	4	4
LS92-1178	3	2	3
LS92-4357	3	3	3
LS92-4173	3	3	3
MD92-5769	2	3	3
V91-2492	4	4	4
V91-2547	3	4	4
V90-798	4	3	4
KY91-1352	3	2	3
KY91-1214	3	2	3
K1305	3	3	3
K1307	2	2	2
K1330	3	4	3
K1331	3	3	3
S92-2716	4	5	5
TN91-55	3	3	3

SOUTH

STRAIN/ VARIETY	CORA	KNOXVILLE	MARTIN	ORANGE	PRINCETON	STARKVILLE	MEAN
	IL	TN	TN	VA	KY	MS	
MANOKIN	3	3	1	4	1	1	2
DELSOY 4710	4	5	2	4	2	1	3
LS92-1178	3	3	2	2	1	1	2
LS92-4357	2	3	1	2	1	1	2
LS92-4173	3	3	2	2	1	1	2
MD92-5769	1	2	1	1	1	1	1
V91-2492	5	4	2	3	1	2	3
V91-2547	3	2	2	2	1	1	2
V90-798	4	3	2	2	1	1	2
KY91-1352	3	3	1	1	1	1	2
KY91-1214	2	3	2	1	1	1	2
K1305	3	3	2	3	1	1	2
K1307	4	2	2	2	1	1	2
K1330	4	4	3	2	1	1	2
K1331	2	2	1	2	1	1	2
S92-2716	5	4	1	3	2	2	3
TN91-55	4	3	3	2	1	1	2

TABLE 7 - (Continued).

DELTA						
STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS	MEAN
MANOKIN	2	2	2	1	2	2
DELSOY 4710	3	3	2	1	2	2
LS92-1178	1	2	1	1	2	1
LS92-4357	1	1	1	1	2	1
LS92-4173	2	3	1	1	2	2
MD92-5769	1	1	1	1	2	1
V91-2492	3	3	2	2	2	2
V91-2547	1	2	2	1	2	2
V90-798	2	2	1	1	2	2
KY91-1352	2	1	1	1	2	1
KY91-1214	2	2	2	1	2	2
K1305	1	1	1	1	2	1
K1307	1	1	1	1	2	1
K1330	1	1	2	1	2	2
K1331	1	2	2	1	2	2
S92-2716	4	4	2	2	3	3
TN91-55	2	2	2	2	2	2

WEST			
STRAIN/ VARIETY	BIXBY OK	PITTSBURG KS	MEAN
MANOKIN	1	3	2
DELSOY 4710	.	1	1
LS92-1178	1	1	1
LS92-4357	.	1	1
LS92-4173	.	1	1
MD92-5769	.	1	1
V91-2492	.	1	1
V91-2547	.	1	1
V90-798	1	1	1
KY91-1352	.	1	1
KY91-1214	.	1	1
K1305	.	1	1
K1307	1	2	2
K1330	.	1	1
K1331	.	1	1
S92-2716	1	2	1
TN91-55	1	1	1

TABLE 8 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1996.

EAST

STRAIN/ VARIETY	QUEENSTOWN		WARSAW		MEAN
	MD		VA		
MANOKIN	1		2		1
DELSOY 4710	2		2		2
LS92-1178	1		2		2
LS92-4357	1		2		1
LS92-4173	1		2		2
MD92-5769	2		2		2
V91-2492	2		2		2
V91-2547	2		2		2
V90-798	2		2		2
KY91-1352	1		2		2
KY91-1214	2		2		2
K1305	1		2		1
K1307	1		1		1
K1330	2		2		2
K1331	1		3		2
S92-2716	2		3		2
TN91-55	2		1		2

SOUTH

STRAIN/ VARIETY	CORA	MARTIN	ORANGE	PRINCETON	STARKVILLE	MEAN
	IL	TN	VA	KY	MS	
MANOKIN	1	2	1	2	3	2
DELSOY 4710	2	1	2	4	3	3
LS92-1178	1	2	1	2	2	2
LS92-4357	1	2	1	2	2	2
LS92-4173	1	3	1	3	3	2
MD92-5769	1	3	1	1	2	1
V91-2492	1	2	2	2	2	2
V91-2547	1	3	1	2	4	2
V90-798	1	2	1	2	4	2
KY91-1352	1	2	1	3	3	2
KY91-1214	1	3	1	3	3	2
K1305	1	2	1	1	1	1
K1307	1	3	1	2	2	2
K1330	1	2	2	3	2	2
K1331	1	2	1	2	3	2
S92-2716	2	2	2	3	2	2
TN91-55	1	3	1	3	2	2

TABLE 8 - (Continued).

DELTA				
STRAIN/ VARIETY	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS	MEAN
MANOKIN	1	1	3	2
DELSOY 4710	2	3	4	3
LS92-1178	2	2	2	2
LS92-4357	1	1	3	2
LS92-4173	2	3	4	3
MD92-5769	1	2	3	2
V91-2492	2	2	4	3
V91-2547	2	2	4	3
V90-798	2	2	3	2
KY91-1352	2	2	2	2
KY91-1214	2	1	3	2
K1305	1	1	3	2
K1307	2	2	3	2
K1330	2	1	4	2
K1331	2	2	4	3
S92-2716	2	2	4	3
TN91-55	2	2	3	2

WEST	
STRAIN/ VARIETY	PITTSBURG KS
MANOKIN	2
DELSOY 4710	3
LS92-1178	3
LS92-4357	2
LS92-4173	2
MD92-5769	2
V91-2492	2
V91-2547	3
V90-798	2
KY91-1352	2
KY91-1214	2
K1305	2
K1307	2
K1330	2
K1331	2
S92-2716	3
TN91-55	3

PRELIMINARY GROUP IV-S**1996**

Preliminary Group IV-S nurseries were planted at 9 locations. Data were obtained from 8 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, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. MANOKIN	L70-L3048	X	D74-7824	F5
2. DELSOY 4710	L77-443	X	L77-906	F5
3. MD93-5298	MD 87-5669	X	EDISON	F5
4. MD93-5451	HARTWIG	X	MD 86-5788	F5
5. MD93-5581	LS 84-920	X	MANOKIN	F5
6. V92-840	A4595	X	AVERY	F6
7. V92-995	HUTCHESON	X	FFR561	F6
8. V92-1333	CHESAPEAKE	X	HUTCHESON	F6
9. KY93-1931	A3935	X	HUTCHESON	
10. KY93-0827	HUTCHESON	X	S42-40	
11. J94-5	N85-578	X	HARTWIG	
12. K1360	TOANO	X	CORSICA	F5
13. K1361	P6917-29	X	TOANO	F5
14. S94-JH-17	JACK	X	HARTWIG	F6
15. S94-JH-1	JACK	X	HARTWIG	F6
16. S94-JH-7	JACK	X	HARTWIG	F6
17. S94-JH-4	JACK	X	HARTWIG	F6
18. S94-2086	DELSOY 4710	X	HARTWIG	F6
19. OK91-6005	ESSEX	X	OKSOY	
20. OK91-5702	ESSEX	X	SOHOMA	
21. TN92-73	TN4-86	X	TN84-58	
22. TN93-87	TN85-55	X	TN82-268	
23. TN93-88	TN85-55	X	TN82-268	
24. VS94-08	PI381668	X	YORK	F6

TABLE 10 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP IV-S, 1996.

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	---PERCENT---		STEM CANKER	M.a. TN	M.i. TN	SCN 3	SCN 5	SCN 14
							PROTEIN	OIL						
MANOKIN	52.2	10/04	2.4	29.6	1.7	13.3	42.2	21.0	R	2.7	3.8	1.0	2.6	5.0
DELISOY 4710	47.6	-7.3	2.4	38.1	2.9	15.9	42.3	20.8	R	2.2	5.0	1.0	4.6	2.0
MD93-5298	50.0	-3.7	2.2	37.8	1.7	12.9	41.4	21.8	R	3.0	5.0	4.6	4.1	4.9
MD93-5451	44.5	-2.9	1.6	25.2	1.8	12.4	44.8	19.4	S	4.0	2.5	1.0	1.4	4.8
MD93-5581	46.9	-8.8	1.8	24.9	2.2	14.1	43.3	20.5	R	4.0	2.7	1.0	3.4	4.6
V92-840	47.3	-3.9	2.9	42.7	2.3	15.9	42.0	20.9	R	3.7	3.3	1.0	4.4	2.3
V92-995	49.4	-2.5	1.8	25.7	1.9	14.4	43.0	19.9	R	4.0	4.0	4.7	4.3	4.6
V92-1333	48.0	-6.3	1.8	37.3	2.0	13.7	42.5	20.0	R	4.0	4.2	4.8	4.4	4.7
KY93-1931	50.1	-7.3	2.0	36.9	2.7	16.0	43.7	21.3	R	4.0	3.2	5.0	4.8	5.0
KY93-0827	51.4	-5.0	1.4	23.8	1.8	14.2	42.5	20.6	R	4.0	3.7	5.0	5.0	4.9
J94-5	49.3	2.0	2.4	27.6	1.8	14.7	41.2	20.6	S	4.1	4.0	1.0	1.2	1.0
K1360	51.8	2.7	1.6	26.6	1.8	14.3	41.6	20.2	R	3.7	4.0	5.0	5.0	4.9
K1361	53.0	1.0	1.9	26.8	1.8	14.5	42.6	20.8	R	4.0	3.0	5.0	5.0	4.9
S94-JH-17	43.9	-0.6	2.6	30.3	2.2	11.5	44.6	18.6	R	4.0	3.8	1.0	1.0	1.0
S94-JH-1	43.5	1.4	1.9	27.3	1.7	11.8	42.4	20.7	S	2.2	2.8	1.0	1.0	4.6
S94-JH-7	45.0	-1.8	1.6	27.3	1.8	11.2	43.0	19.1	R	4.0	3.7	1.0	1.0	1.0
S94-JH-4	46.2	-0.6	1.9	28.5	1.8	11.7	43.5	19.0	R	3.7	3.6	2.1	1.0	3.5
S94-2086	48.0	-2.7	3.1	41.4	2.3	14.8	43.0	20.5	R	2.5	4.0	1.0	4.8	1.0
OK91-6005	48.3	3.7	1.8	27.1	1.7	13.5	41.5	20.6	R	4.0	4.0	4.9	4.7	5.0
OK91-5702	43.0	3.8	1.6	26.3	1.8	12.4	43.3	20.5	R	4.0	4.0	4.7	4.8	5.0
TN92-73	43.8	-3.9	2.4	40.0	2.3	13.0	44.1	19.7	R	2.2	4.8	1.0	1.5	4.5
TN93-87	49.3	1.8	2.4	31.1	1.7	12.4	40.6	21.0	R	4.0	3.7	5.0	5.0	4.6
TN93-88	50.2	-0.3	2.3	30.6	1.6	14.4	42.3	21.3	R	4.0	4.4	5.0	5.0	4.8
VS94-08	43.6	3.7	3.3	42.6	2.0	18.7	43.9	20.4	R	3.8	4.3	5.0	4.4	4.9
OVERALL MEAN	47.8						42.7	20.4						
L.S.D (.05)	4.6						1.2	0.6						
C.V.	10%						2%	3%						

TABLE 11 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1996.

STRAIN/ VARIETY	BIXBY OK	CORA IL	KEISER AR	PORTAGEVILLE MO (A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
MANOKIN	32.5	58.9	58.2	60.1	47.8	49.0	54.8	55.9	52.2
DELSOY 4710	32.0	50.4-	54.5	57.9	44.2	45.0	49.5	47.1-	47.6
MD93-5298	27.6	47.8-	61.7	53.5	46.7	53.6	54.0	55.1	50.0
MD93-5451	24.0	50.8-	55.3	42.4	41.6	41.6-	50.2	49.7-	44.5
MD93-5581	29.6	55.1	60.5	50.4	39.3	45.5	46.7-	48.4-	46.9
V92-840	32.6	50.1-	55.5	57.9	42.9	42.3-	44.3-	52.8	47.3
V92-995	32.3	56.7	62.7	41.8	40.6	52.5	49.8	58.5	49.4
V92-1333	28.3	55.0	56.9	47.7	40.1	52.6	49.5	53.6	48.0
KY93-1931	29.9	57.0	64.9	39.4	46.0	54.0+	48.3-	61.2	50.1
KY93-0827	39.6	58.3	59.5	51.4	49.1	51.0	42.4-	59.9	51.4
J94-5	36.5	53.9	57.8	62.1	42.9	44.4	42.1-	55.1	49.3
K1360	36.1	52.2-	62.4	51.5	51.1	53.2	48.7-	59.2	51.8
K1361	45.8	60.5	61.6	46.6	43.2	49.9	59.3	57.1	53.0
S94-JH-17	25.9	50.5-	56.3	42.1	45.7	43.1-	38.7-	49.2-	43.9
S94-JH-1	29.1	50.8-	52.2	45.4	44.9	40.5-	36.1-	48.7-	43.5
S94-JH-7	26.9	50.6-	54.2	59.5	41.7	43.3-	35.3-	48.6-	45.0
S94-JH-4	33.4	52.6-	53.6	57.9	35.4-	42.3-	44.7-	50.0-	46.2
S94-2086	34.1	57.4	54.0	56.1	40.9	45.1	48.2-	48.3-	48.0
OK91-6005	37.8	46.8-	55.9	49.1	47.8	45.8	44.7-	58.2	48.3
OK91-5702	27.9	47.7-	31.4-	50.5	43.4	44.0-	48.5-	51.0	43.0
TN92-73	29.8	50.7-	52.2	54.8	37.1	44.4	40.7-	40.6-	43.8
TN93-87	33.4	50.0-	60.2	45.8	45.2	45.6	58.5	55.4	49.3
TN93-88	32.9	50.6-	60.5	49.9	52.1	49.5	49.1-	57.1	50.2
VS94-08	28.3	49.6-	50.6	50.1	36.0-	43.7-	38.5-	51.8	43.6
L.S.D. (0.05)	5.5	6.0	16.6	11.1	11.0	4.7	5.3	5.7	4.6
C.V. (%)	8.3	5.5	14.2	10.5	12.2	4.9	5.4	5.2	9.7

TABLE 12 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1996.

STRAIN/ VARIETY	CORA IL	PORTAGEVILLE MO (A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
MANOKIN	19.5	22.3	22.5	19.7	21.2	20.7	21.0
DELSOY 4710	20.5	21.7	21.9	19.6	21.2	19.9	20.8
MD93-5298	20.4	23.2	23.0	20.0	22.9	21.0	21.8
MD93-5451	18.0	20.5	21.1	18.0	20.6	18.0	19.4
MD93-5581	19.2	21.8	21.6	19.4	22.1	19.0	20.5
V92-840	20.6	21.7	21.0	19.2	22.2	20.4	20.9
V92-995	17.9	20.9	21.5	18.7	21.1	19.3	19.9
V92-1333	18.3	20.4	21.5	19.0	21.3	19.4	20.0
KY93-1931	20.9	22.6	22.6	19.3	22.0	20.1	21.3
KY93-0827	19.0	22.1	21.5	19.6	21.3	19.9	20.6
J94-5	18.8	21.3	21.0	20.0	22.2	20.0	20.6
K1360	18.6	19.9	22.3	19.1	21.0	20.4	20.2
K1361	18.6	21.9	22.3	19.8	22.3	20.0	20.8
S94-JH-17	17.2	19.2	19.3	17.4	19.7	18.7	18.6
S94-JH-1	19.2	21.5	22.4	19.2	21.0	20.8	20.7
S94-JH-7	16.6	20.0	20.7	17.4	20.8	19.0	19.1
S94-JH-4	16.9	19.8	20.6	18.2	20.2	18.3	19.0
S94-2086	19.5	21.7	21.3	19.1	21.4	20.0	20.5
OK91-6005	18.8	21.4	21.6	20.0	21.3	20.4	20.6
OK91-5702	18.1	21.3	21.6	19.7	21.5	20.6	20.5
TN92-73	18.2	20.5	20.2	18.4	21.2	19.4	19.7
TN93-87	17.9	22.8	22.4	20.4	21.8	20.5	21.0
TN93-88	19.3	22.7	22.3	20.3	22.3	20.8	21.3
VS94-08	19.1	20.7	21.3	20.2	21.0	20.2	20.4

TABLE 13 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1996.

STRAIN/ VARIETY	CORA IL	PORTAGEVILLE MO (A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
MANOKIN	41.2	44.1	40.2	42.2	43.8	41.7	42.2
DELLOY 4710	40.0	43.1	41.5	41.8	44.8	42.6	42.3
MD93-5298	40.1	42.3	39.3	42.0	43.0	41.7	41.4
MD93-5451	43.5	47.0	42.9	44.8	44.7	45.9	44.8
MD93-5581	41.8	44.6	41.4	43.2	44.6	43.9	43.3
V92-840	41.1	41.3	40.2	42.1	44.4	43.1	42.0
V92-995	44.3	41.8	41.5	43.0	43.6	43.9	43.0
V92-1333	43.3	42.0	41.3	42.7	43.0	42.5	42.5
KY93-1931	41.7	44.8	41.1	43.6	45.8	44.9	43.7
KY93-0827	43.5	43.8	40.0	41.7	42.3	43.4	42.5
J94-5	40.5	43.0	39.8	40.7	41.5	41.5	41.2
K1360	42.8	40.3	40.6	42.8	44.4	38.4	41.6
K1361	43.5	43.1	39.8	42.3	42.9	44.1	42.6
S94-JH-17	43.3	46.5	43.7	43.8	46.3	43.7	44.6
S94-JH-1	40.0	44.3	39.8	43.5	44.0	42.7	42.4
S94-JH-7	43.5	44.2	41.5	42.9	43.8	41.8	43.0
S94-JH-4	43.6	44.2	41.5	42.6	44.8	44.1	43.5
S94-2086	41.9	43.9	42.6	41.9	45.4	42.0	43.0
OK91-6005	40.8	42.9	39.8	41.6	42.6	41.5	41.5
OK91-5702	43.9	44.3	41.7	42.6	44.1	43.3	43.3
TN92-73	43.2	44.3	43.3	43.5	46.3	43.8	44.1
TN93-87	41.7	41.7	38.2	39.8	42.2	40.2	40.6
TN93-88	43.3	44.2	37.8	42.8	44.0	41.5	42.3
VS94-08	42.8	44.9	42.8	43.1	45.4	44.6	43.9

TABLE 14 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1996.

STRAIN/ VARIETY	BIXBY OK	CORA IL	PORTAGEVILLE MO (A)	PRINCETON KY	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	15.2	13.2	12.5	13.5	12.0	13.3	13.3
DELSOY 4710	16.1	15.6	16.0	15.2	15.0	17.3	15.9
MD93-5298	15.0	11.4	11.7	12.0	13.4	13.7	12.9
MD93-5451	12.6	11.7	11.8	14.6	11.8	12.1	12.4
MD93-5581	15.2	14.1	13.9	14.1	13.4	13.6	14.1
V92-840	16.3	15.7	15.0	16.0	14.4	18.1	15.9
V92-995	16.9	14.4	12.3	12.5	14.2	16.1	14.4
V92-1333	14.3	13.3	14.3	12.8	13.0	14.4	13.7
KY93-1931	15.5	16.3	14.9	15.8	15.2	18.2	16.0
KY93-0827	14.9	14.2	12.6	15.6	13.3	14.7	14.2
J94-5	16.2	13.9	13.6	15.5	13.6	15.2	14.7
K1360	16.5	12.8	14.3	13.7	13.2	15.1	14.3
K1361	17.0	14.4	13.3	12.8	13.9	15.4	14.5
S94-JH-17	11.8	11.0	11.0	11.6	11.2	12.7	11.5
S94-JH-1	13.3	10.9	10.7	12.1	11.7	12.2	11.8
S94-JH-7	12.9	11.6	10.7	10.5	9.9	11.7	11.2
S94-JH-4	12.9	11.7	10.7	11.8	11.0	12.3	11.7
S94-2086	15.6	14.7	13.9	14.7	13.4	16.3	14.8
OK91-6005	14.9	12.4	12.8	14.0	12.9	14.3	13.5
OK91-5702	13.6	11.7	12.0	13.1	11.4	12.8	12.4
TN92-73	14.0	12.5	12.9	12.1	12.2	14.1	13.0
TN93-87	14.0	11.1	11.3	13.3	11.8	12.8	12.4
TN93-88	17.1	13.3	13.3	12.9	14.0	15.7	14.4
VS94-08	18.3	18.2	17.2	17.3	20.4	21.0	18.7

TABLE 15 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1996.

STRAIN/ VARIETY	BIXBY OK	CORA IL	KEISER AR	PORTAGEVILLE MO (A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
MANOKIN	30	36	32	27	30	30	18	34	30
DELSOY 4710	26	40	43	44	39	38	33	42	38
MD93-5298	25	42	44	34	32	43	43	40	38
MD93-5451	22	29	27	16	30	34	14	31	25
MD93-5581	21	32	27	22	26	29	14	30	25
V92-840	34	51	47	45	42	41	37	45	43
V92-995	21	30	27	24	30	30	13	31	26
V92-1333	30	44	46	36	35	36	35	37	37
KY93-1931	30	44	38	36	38	42	29	39	37
KY93-0827	22	28	24	22	25	29	13	28	24
J94-5	28	34	27	26	27	30	15	34	28
K1360	27	31	30	24	30	29	13	30	27
K1361	26	33	30	24	27	32	14	30	27
S94-JH-17	29	36	32	34	32	30	16	35	30
S94-JH-1	23	31	28	26	32	34	15	30	27
S94-JH-7	26	26	28	28	31	31	16	34	27
S94-JH-4	24	35	28	25	33	31	14	39	29
S94-2086	31	49	48	46	41	43	29	45	41
OK91-6005	23	28	30	27	29	31	16	34	27
OK91-5702	24	32	27	26	26	30	16	31	26
TN92-73	31	48	42	42	42	40	31	46	40
TN93-87	30	36	32	30	35	33	19	35	31
TN93-88	30	34	32	34	32	33	18	33	31
VS94-08	34	49	46	43	38	47	43	42	43

TABLE 16 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1996.

STRAIN/ VARIETY	BIXBY OK	CORA IL	KEISER AR	PORTAGEVILLE MO (A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
MANOKIN	1	4	2	1	2	4	2	4	2
DELSOY 4710	0	4	2	2	1	4	2	5	2
MD93-5298	0	3	1	2	1	4	3	4	2
MD93-5451	1	1	1	1	1	4	2	3	2
MD93-5581	1	2	1	1	1	4	2	3	2
V92-840	2	5	2	3	2	4	2	5	3
V92-995	0	3	1	1	1	4	2	3	2
V92-1333	0	3	2	1	1	4	2	3	2
KY93-1931	0	3	2	1	2	4	3	3	2
KY93-0827	0	1	1	1	1	3	2	3	1
J94-5	2	4	2	1	2	3	2	4	2
K1360	0	2	1	1	1	2	2	4	2
K1361	0	4	1	1	1	3	3	4	2
S94-JH-17	1	5	2	2	2	4	2	5	3
S94-JH-1	1	2	1	1	2	3	2	4	2
S94-JH-7	0	1	1	1	1	4	2	4	2
S94-JH-4	0	2	1	1	2	4	2	4	2
S94-2086	1	5	3	2	2	4	3	5	3
OK91-6005	1	2	1	1	1	3	2	3	2
OK91-5702	0	2	1	1	1	2	2	4	2
TN92-73	1	4	2	2	1	3	2	5	2
TN93-87	1	4	1	2	2	4	2	4	2
TN93-88	1	5	1	1	1	4	2	4	2
VS94-08	3	4	3	3	2	4	3	4	3

TABLE 17 - SEED QUALITY FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1996.

STRAIN/ VARIETY	CORA IL	PORTAGEVILLE MO (A)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	WARSAW VA	MEAN
MANOKIN	1	1	3	1	2	2	2
DELLOY 4710	3	3	3	2	4	4	3
MD93-5298	1	1	2	1	3	2	2
MD93-5451	1	2	3	1	2	2	2
MD93-5581	1	2	3	2	3	2	2
V92-840	1	2	3	1	4	3	2
V92-995	1	2	4	1	2	2	2
V92-1333	1	2	4	1	2	2	2
KY93-1931	2	3	4	1	4	2	3
KY93-0827	1	2	2	1	3	2	2
J94-5	2	2	2	1	2	2	2
K1360	1	2	2	1	3	2	2
K1361	1	2	2	1	3	2	2
S94-JH-17	1	2	3	1	3	3	2
S94-JH-1	1	2	2	1	2	2	2
S94-JH-7	1	2	2	1	3	2	2
S94-JH-4	1	2	2	1	3	2	2
S94-2086	1	2	4	1	3	3	2
OK91-6005	1	2	2	1	2	2	2
OK91-5702	1	2	2	1	3	2	2
TN92-73	1	2	3	1	3	4	2
TN93-87	1	2	1	1	3	2	2
TN93-88	1	1	2	1	3	2	2
VS94-08	1	2	3	1	3	2	2

UNIFORM GROUP V**1996**

Uniform Group V nurseries were planted at 27 locations. Data were obtained from 22 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, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. HUTCHESON	V68-1034	X	ESSEX	F5
2. MANOKIN	L70-L3048	X	D74-7824	F5
3. LS92-0964	S82-1443	X	ASGROW 5474	F6
4. LS92-1088	S82-1443	X	ASGROW 5474	F6
5. V91-223	STAFFORD	X	HUTCHESON	F5
6. V91-2935	HUTCHESON (2)	X	V84-1805	F4
7. V91-3036	HUTCHESON	X	V84-1790	F4
8. V90-1012	HUTCHESON	X	(FFR561 X TOANO)	F5
9. KY91-11114	ASGROW A3935	X	KY84-1616	F5
10. R90-515	LLOYD	X	NAROW	
11. R92-1294	HUTCHESON	X	WALTERS	F5
12. NTCPR94-5483	N77-179	X	FORREST	
13. NTCPR94-5491	N77-179	X	FORREST	
14. NTCPR94-5293	FORREST	X	BAY	
15. OK89-5602	ESSEX	X	SOHOMA	
16. K1276	COKER 425	X	ASGROW A3427	F5
17. K1277	HUTCHESON	X	ASGROW A3966	F5
18. K1335	HAMILTON	X	HP5363-5-8	F5
19. S93-1475	S85-1706	X	HARTWIG	F5
20. N93-66	N85-67	X	HOLLADAY	F6
21. N93-54	N85-67	X	HOLLADAY	F6
22. TN91SS-33	ROCKY	X	VANCE	
23. TN92-198	HUTCHESON	X	TN82-162	
24. TN92-228	V74-315	X	TN82-94	
25. TN92-249	D72-8927	X	TN5-85	

TABLE 19 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 1996.

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1996	95-96	94-96	1996	95-96	94-96	1996	95-96	94-96
1. HUTCHESON	50.6	45.6	47.6	42.1	41.7	41.6	21.4	21.2	21.3
2. MANOKIN	48.5	42.3	44.2	42.5	41.8	41.6	21.4	21.1	20.9
3. LS92-0964	44.7	.	.	41.6	.	.	21.5	.	.
4. LS92-1088	46.9	.	.	42.0	.	.	21.2	.	.
5. V91-223	47.8	.	.	42.1	.	.	20.9	.	.
6. V91-2935	49.6	.	.	42.4	.	.	21.3	.	.
7. V91-3036	49.5	.	.	42.8	.	.	20.4	.	.
8. V90-1012	50.2	45.8	.	41.9	41.8	.	21.4	21.2	.
9. KY91-11114	51.5	45.9	.	42.9	42.7	.	21.2	21.0	.
10. R90-515	47.2	43.5	.	42.0	41.7	.	20.9	20.7	.
11. R92-1294	50.9	.	.	42.2	.	.	21.1	.	.
12. NTCPR94-5483	50.2	.	.	42.2	.	.	21.1	.	.
13. NTCPR94-5491	45.4	.	.	43.4	.	.	20.5	.	.
14. NTCPR94-5293	45.7	.	.	42.6	.	.	21.1	.	.
15. OK89-5602	44.1	40.8	.	44.3	44.0	.	20.1	20.3	.
16. K1276	48.9	44.5	47.3	40.6	40.7	40.6	22.0	21.7	21.7
17. K1277	47.3	43.7	46.4	41.1	41.0	41.1	21.8	21.5	21.4
18. K1335	45.5	.	.	43.5	.	.	20.3	.	.
19. S93-1475	46.4	.	.	42.1	.	.	19.7	.	.
20. N93-66	47.8	.	.	42.2	.	.	21.7	.	.
21. N93-54	48.0	.	.	42.8	.	.	20.6	.	.
22. TN91SS-33	49.5	.	.	41.8	.	.	21.2	.	.
23. TN92-198	45.6	.	.	42.5	.	.	21.2	.	.
24. TN92-228	47.1	.	.	42.3	.	.	21.0	.	.
25. TN92-249	48.3	.	.	41.5	.	.	21.1	.	.

†Data from Martin, TN, Suffolk, VA (1996); Georgetown, DE (1995); Plymouth, NC (1994) not included in mean.

TABLE 19 - (Continued).

BOTANICAL TRAITS									
STRAIN/ VARIETY	FL. COLOR	MAT. DATE	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR	
1. HUTCHESON	W	0.0	1.8	28.2	1.7	15.1	G	T	
2. MANOKIN	W	-6.8	2.3	28.5	1.6	12.9	T	T	
3. LS92-0964	W	-6.9	1.7	26.1	2.0	15.4	T	T	
4. LS92-1088	P	-3.2	1.9	31.7	2.1	14.0	T	Br	
5. V91-223	W	3.3	1.7	29.6	1.7	13.7	G	T	
6. V91-2935	W	-1.4	1.8	27.7	1.7	15.0	G	T	
7. V91-3036	P	1.8	2.1	31.2	1.7	14.1	G	T	
8. V90-1012	P	-0.8	1.7	29.4	2.0	15.9	G	T	
9. KY91-11114	W	-2.6	1.6	36.3	1.8	14.9	T	Br	
10. R90-515	P	3.8	2.3	34.0	2.1	13.9	T	T	
11. R92-1294	W	1.3	2.7	33.2	1.7	14.6	T	T	
12. NTCPR94-5483	W	-2.5	2.0	28.6	1.9	14.2	T	T	
13. NTCPR94-5491	W	-2.7	2.1	27.3	1.8	13.2	T	T	
14. NTCPR94-5293	W	0.4	2.2	31.9	1.9	14.8	T	T	
15. OK89-5602	P	1.0	1.7	26.0	1.6	13.9	G	T	
16. K1276	P	-1.3	1.3	25.6	1.7	13.6	T	T	
17. K1277	W	0.7	2.0	39.6	2.0	15.7	G	T	
18. K1335	P	-2.8	1.4	24.7	2.1	16.2	G	T	
19. S93-1475	W	0.8	2.6	31.6	1.9	12.4	S	T	
20. N93-66	P	-2.9	1.8	28.3	2.1	15.1	G	Br	
21. N93-54	P	-1.0	2.2	29.2	2.1	14.1	G	Br	
22. TN91SS-33	W	2.4	1.9	28.7	1.7	14.4	G	T	
23. TN92-198	W	-3.2	1.7	24.5	1.7	14.4	G	T	
24. TN92-228	P	3.6	1.8	27.5	1.8	14.1	G	T	
25. TN92-249	W	2.3	2.0	28.3	1.7	14.7	G	T	

TABLE 19 - (Continued).

PEST REACTIONS										
STRAIN/ VARIETY	SDS	STEM CANKER	M. a. GA	M. a. TN	M. i. GA	M. i. TN	SCN 3	SCN 5	SCN 14	
1. HUTCHESON	74.2	R	4.8	4.0	5.0	3.5	5.0	4.7	4.8	
2. MANOKIN	2.0	R	4.8	2.2	1.3	3.0	1.0	1.2	4.7	
3. LS92-0964	1.7	R	2.8	3.0	4.0	4.0	1.0	3.4	4.0	
4. LS92-1088	2.6	R	3.5	3.2	4.0	4.0	1.0	3.8	4.7	
5. V91-223	75.8	R	4.5	3.8	5.0	5.0	5.0	5.0	5.0	
6. V91-2935	63.3	R	4.5	4.0	4.5	4.0	5.0	4.7	5.0	
7. V91-3036	1.7	R	4.0	3.5	4.3	4.6	1.1	4.0	2.2	
8. V90-1012	56.4	R	4.0	3.8	2.8	4.2	5.0	4.3	4.7	
9. KY91-11114	45.7	R	5.0	4.0	4.5	4.0	4.4	4.4	5.0	
10. R90-515	11.7	R	4.3	4.0	3.8	4.2	5.0	4.3	3.7	
11. R92-1294	60.6	R	4.8	3.7	1.3	4.2	1.0	4.6	5.0	
12. NTCPR94-5483	25.2	S	2.5	3.2	4.5	5.0	5.0	3.8	4.4	
13. NTCPR94-5491	42.8	S	3.3	3.2	2.3	2.0	4.8	3.7	5.0	
14. NTCPR94-5293	28.3	S	4.5	3.4	1.3	4.0	5.0	4.6	5.0	
15. OK89-5602	50.3	R	2.8	2.5	4.3	4.6	5.0	3.8	4.7	
16. K1276	82.5	S	2.8	3.5	5.0	4.8	4.8	4.5	4.8	
17. K1277	85.0	S	4.0	3.7	4.0	4.0	4.7	4.3	4.8	
18. K1335	37.5	R	3.5	4.0	3.0	4.3	4.7	4.9	5.0	
19. S93-1475	18.3	S	3.5	3.8	1.5	4.0	2.6	1.3	1.6	
20. N93-66	11.7	S	3.8	4.0	4.3	5.0	1.1	5.0	2.0	
21. N93-54	0.0	S	3.8	4.0	3.5	4.3	1.1	4.5	1.8	
22. TN91SS-33	71.4	R	4.8	4.0	4.3	5.0	5.0	4.8	4.5	
23. TN92-198	46.0	R	3.3	3.6	3.0	4.0	5.0	5.0	4.7	
24. TN92-228	69.9	R	3.5	3.7	4.8	4.8	5.0	4.8	5.0	
25. TN92-249	54.4	R	4.5	4.2	5.0	4.4	4.8	5.0	3.8	

TABLE 20 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM V, 1996.

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	36.6	49.7	56.2	47.5
MANOKIN	40.9	43.7	57.3	47.3
LS92-0964	32.3	49.2	51.5	44.3
LS92-1088	34.5	45.8	55.9	45.4
V91-223	41.6	41.1	55.2	46.0
V91-2935	32.7	47.2	54.4	44.8
V91-3036	39.1	38.1	52.8	43.4
V90-1012	42.1	45.2	58.5	48.6
KY91-11114	40.2	55.9	64.0	53.4
R90-515	31.2	45.0	48.1	41.4
R92-1294	41.3	46.8	54.4	47.5
NTCPR94-5483	36.8	45.5	57.6	46.7
NTCPR94-5491	27.0	44.7	59.0	43.6
NTCPR94-5293	41.8	44.9	58.7	48.4
OK89-5602	35.7	44.0	53.6	44.4
K1276	39.9	50.4	61.7	50.7
K1277	36.6	46.9	54.5	46.0
K1335	43.3	41.1	51.0	45.2
S93-1475	30.5	43.3	56.8	43.5
N93-66	43.6	43.0	57.1	47.9
N93-54	38.7	40.7	53.1	44.2
TN91SS-33	39.1	47.9	53.8	46.9
TN92-198	30.2	46.3	55.6	44.0
TN92-228	41.5	40.5	55.4	45.8
TN92-249	34.1	47.8	54.3	45.4
L. S. D. (0.05)	11.2	6.2	4.8	.
C. V. (%)	17.6	7.9	5.2	.

TABLE 20 - (Continued).

STRAIN/ VARIETY	SOUTH											MEAN
	ATHENS GA	BATON ROUGE LA	BELLE MINA AL	CALHOUN GA	CORA IL	KNOX- VILLE TN	MARTIN TN†	ORANGE VA	PRINCE- TON KY	STARK- VILLE MS	SUFFOLK VA†	
HUTCHESON	47.0	61.7	42.8	51.9	52.6	56.0	39.3	44.6	50.9	38.2	26.8	49.5
MANOKIN	53.8	50.8	42.2	54.5	56.4	58.1	44.9	42.5	44.9	38.1	22.8	49.0
LS92-0964	43.5	36.7	40.9	54.1	60.1	50.3	39.7	40.6	51.3	25.3	18.4	44.8
LS92-1088	46.8	48.5	37.2	50.4	56.8	54.0	42.5	38.5	43.4	41.0	21.9	46.3
V91-223	46.3	51.9	44.9	57.4	47.5	54.2	40.3	45.5	53.8	36.7	25.9	48.7
V91-2935	47.3	62.4	40.8	49.2	51.6	58.1	45.3	42.3	52.9	41.2	29.4	49.5
V91-3036	47.2	50.5	43.1	55.0	48.5	54.3	47.9	40.7	48.8	38.6	35.3	47.4
V90-1012	51.8	51.9	40.5	53.9	55.2	54.4	40.2	43.9	49.2	38.3	28.6	48.8
KY91-11114	48.5	37.2	39.0	53.9	55.6	54.0	44.9	55.2	51.6	34.0	33.1	47.7
R90-515	52.6	51.9	46.7	53.2	59.0	43.7	48.5	29.2	43.7	37.0	37.5	46.3
R92-1294	50.1	53.4	40.9	51.3	47.3	56.5	43.2	40.4	48.7	48.8	32.4	48.6
NTCPR94-5483	56.4	55.0	42.8	50.4	54.7	59.9	36.8	41.3	43.9	36.9	34.4	49.0
NTCPR94-5491	41.9	56.3	39.2	40.9	46.7	60.1	40.7	41.2	42.9	28.0	28.0	44.1
NTCPR94-5293	45.7	47.0	36.9	43.1	47.9	45.2	36.3	41.6	46.9	34.3	26.7	43.2
OK89-5602	46.9	49.5	35.3	50.4	46.8	47.2	46.7	42.6	42.6	27.6	33.2	43.2
K1276	44.1	53.2	36.0	58.9	56.9	52.7	44.7	44.1	49.4	30.2	28.7	47.3
K1277	50.2	48.2	36.4	58.9	48.1	48.6	37.6	41.5	51.1	41.6	23.0	47.2
K1335	48.8	49.9	32.8	53.4	53.7	44.2	45.6	47.4	45.8	28.2	21.5	44.9
S93-1475	45.8	49.4	43.6	47.7	53.1	57.7	42.7	31.8	48.4	30.6	25.8	45.3
N93-66	49.5	45.6	40.8	50.1	54.2	55.9	39.3	39.3	45.8	37.0	19.7	46.5
N93-54	52.6	38.2	45.7	49.6	50.7	52.2	42.3	36.2	43.6	42.0	28.5	45.6
TN91SS-33	50.8	61.6	44.0	46.8	52.7	54.2	42.3	44.2	45.1	40.8	31.9	48.9
TN92-198	49.7	34.5	35.5	43.6	50.7	57.1	46.3	38.0	44.6	29.4	21.9	42.6
TN92-228	48.6	55.8	44.0	41.7	53.3	56.6	38.6	42.1	40.1	31.5	30.9	46.0
TN92-249	49.1	34.6	52.8	49.7	51.7	55.2	47.4	41.8	44.7	40.4	31.3	46.7
L. S. D. (0.05)	6.5	18.0	9.4	8.8	7.9	5.3	17.5	5.9	.	4.6	14.0	.
C. V. (%)	8.1	22.2	14.0	10.5	9.1	6.0	22.2	8.6	.	7.5	29.1	.

† Not included in mean.

TABLE 20 - (Continued).

STRAIN/ VARIETY	DELTA					MEAN
	KEISER AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS		
HUTCHESON	60.6	62.8	48.8	55.7	57.0	
MANOKIN	57.9	61.5	57.9	49.7	56.7	
LS92-0964	55.2	56.9	42.3	43.8	49.5	
LS92-1088	61.8	65.5	50.8	51.9	57.5	
V91-223	63.4	63.1	54.2	46.1	56.7	
V91-2935	61.1	62.0	51.5	57.9	58.1	
V91-3036	59.5	69.0	57.8	57.2	60.9	
V90-1012	64.0	60.7	46.3	64.1	58.8	
KY91-11114	65.9	66.2	57.6	61.6	62.8	
R90-515	57.7	58.5	50.5	58.8	56.4	
R92-1294	64.6	60.7	50.7	66.0	60.5	
NTCPR94-5483	61.9	61.9	57.4	65.5	61.7	
NTCPR94-5491	59.8	54.3	54.9	57.3	56.6	
NTCPR94-5293	61.2	54.2	55.0	58.9	57.3	
OK89-5602	56.7	56.4	44.1	50.3	51.9	
K1276	63.3	58.6	57.1	56.3	58.8	
K1277	59.7	61.3	57.6	48.8	56.8	
K1335	58.5	55.4	46.6	41.6	50.5	
S93-1475	58.7	65.4	56.2	46.4	56.7	
N93-66	60.3	56.1	44.0	50.5	52.7	
N93-54	59.0	60.5	54.6	58.9	58.3	
TN91SS-33	59.9	64.2	49.4	58.6	58.0	
TN92-198	59.2	60.2	42.3	50.9	53.2	
TN92-228	57.0	64.1	47.6	51.9	55.1	
TN92-249	59.8	64.2	48.6	52.3	56.2	
L. S. D. (0.05)	4.4	4.5	6.2	8.9	.	
C. V. (%)	4.5	4.5	7.3	9.9	.	

TABLE 20 - (Continued).

STRAIN/ VARIETY	WEST				MEAN
	BIXBY OK	BOSSIER CITY LA	PITTSBURG KS	STUTTGART AR	
HUTCHESON	36.5	73.7	32.9	52.4	48.9
MANOKIN	35.8	42.0	33.5	48.7	40.0
LS92-0964	32.0	52.7	36.0	38.7	39.8
LS92-1088	29.0	47.9	33.5	44.7	38.8
V91-223	33.4	32.2	37.1	49.3	38.0
V91-2935	36.9	57.6	34.3	51.1	45.0
V91-3036	43.6	48.1	40.5	57.7	47.5
V90-1012	35.9	65.1	32.5	49.7	45.8
KY91-11114	37.2	63.0	31.2	57.9	47.3
R90-515	39.8	50.4	36.3	50.2	44.2
R92-1294	36.9	70.7	35.2	54.4	49.3
NTCPR94-5483	34.0	49.6	38.2	54.2	44.0
NTCPR94-5491	36.9	45.9	27.9	43.3	38.5
NTCPR94-5293	35.1	37.6	29.4	47.7	37.5
OK89-5602	35.8	43.6	36.6	36.5	38.1
K1276	39.7	50.2	35.4	39.7	41.3
K1277	37.1	31.7	35.4	52.8	39.3
K1335	39.5	49.6	35.3	43.2	41.9
S93-1475	42.5	35.6	32.0	52.7	40.7
N93-66	39.8	61.3	35.4	46.7	45.8
N93-54	42.3	59.8	31.6	49.3	45.8
TN91SS-33	38.6	56.0	39.8	43.1	44.4
TN92-198	39.9	57.5	39.6	46.2	45.8
TN92-228	36.6	47.4	37.5	49.5	42.7
TN92-249	41.0	58.1	32.0	53.6	46.2
L.S.D. (0.05)	7.5	19.1	8.6	11.1	.
C.V. (%)	12.2	21.5	15.0	14.0	.

TABLE 21 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1996.

STRAIN/ VARIETY	OIL PERCENTAGE																		MEAN
	ATHENS GA	BIXBY OK	CALHOUN GA	CORA IL	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PITTS- BURG KS	PLY- MOUTH VA	PORTAGE- VILLE MO (A)	PORTAGE- VILLE MO (B)	PRINCE- TON KY	QUEENS- TOWN MD	STARK- VILLE MS	STONE- VILLE MS	SUFFOLK VA	WARSAW VA		
HUTCHESON	23.1	.	.	20.2	21.7	21.0	20.4	.	21.9	21.9	.	22.5	20.0	21.7	21.7	21.7	20.5	21.4	
MANOKIN	23.3	.	.	18.7	21.9	21.3	19.8	.	21.3	22.1	.	21.9	19.9	22.3	22.9	22.4	21.0	21.4	
LS92-0964	24.1	.	.	19.2	22.3	20.7	19.6	.	21.2	21.3	.	21.8	20.5	23.1	23.7	21.9	19.9	21.5	
LS92-1088	23.5	.	.	20.0	21.9	19.6	19.9	.	21.2	21.2	.	22.0	20.0	20.6	21.8	22.3	20.6	21.2	
V91-223	22.5	.	.	19.1	20.7	21.8	19.1	.	21.3	21.6	.	21.3	19.9	21.2	21.9	21.9	20.9	20.9	
V91-2935	23.4	.	.	19.6	21.6	20.5	20.3	.	20.7	22.1	.	21.1	20.7	21.3	23.2	21.3	20.5	21.3	
V91-3036	22.2	.	.	19.1	20.8	21.3	18.6	.	21.7	20.3	.	21.1	19.2	19.9	21.3	21.1	20.5	20.4	
V90-1012	21.9	.	.	20.6	21.8	19.7	20.1	.	20.6	22.5	.	21.7	20.7	22.0	22.4	21.8	21.4	21.4	
KY91-11114	22.3	.	.	20.8	21.1	20.3	19.9	.	20.9	21.7	.	21.9	20.5	22.1	21.4	21.0	20.1	21.2	
R90-515	22.6	.	.	19.8	21.4	20.8	18.0	.	21.9	21.1	.	20.9	19.5	22.1	22.2	21.6	20.8	20.9	
R92-1294	23.2	.	.	20.2	22.3	20.8	19.8	.	22.1	20.9	.	20.7	20.8	20.3	21.5	22.0	20.6	21.1	
NTCPR94-5483	23.5	.	.	19.6	21.6	20.4	19.0	.	21.8	21.1	.	20.9	19.3	21.2	23.0	21.2	20.9	21.1	
NTCPR94-5491	21.7	.	.	17.8	21.1	20.6	18.4	.	21.6	19.8	.	22.0	20.1	20.8	22.1	20.5	20.5	20.5	
NTCPR94-5293	22.5	.	.	19.1	21.0	20.6	19.1	.	21.9	21.4	.	21.4	20.3	21.5	23.5	21.5	20.4	21.1	
OK89-5602	21.6	.	.	18.3	19.8	20.8	18.7	.	20.2	20.8	.	20.8	19.5	20.3	21.5	19.8	20.1	20.1	
K1276	23.5	.	.	20.9	21.4	20.8	20.4	.	22.5	22.8	.	21.7	21.7	22.6	23.2	22.7	21.8	22.0	
K1277	22.0	.	.	21.0	22.4	22.2	20.1	.	21.9	21.7	.	23.2	21.2	21.4	23.3	22.3	21.2	21.8	
K1335	22.0	.	.	18.7	20.1	21.4	19.5	.	19.5	20.5	.	20.8	19.0	21.6	22.0	20.5	19.2	20.3	
S93-1475	21.6	.	.	18.5	19.4	21.3	18.9	.	19.5	19.5	.	19.7	19.7	19.9	20.3	20.1	20.0	19.7	
N93-66	23.1	.	.	19.9	22.3	21.5	19.9	.	22.1	22.5	.	22.2	20.6	22.2	23.1	21.7	21.1	21.7	
N93-54	23.0	.	.	19.3	20.9	19.8	18.8	.	21.0	20.3	.	20.7	19.8	21.4	21.7	21.1	20.0	20.6	
TN91SS-33	22.4	.	.	19.5	21.4	20.5	19.7	.	22.1	21.9	.	22.1	20.0	21.0	22.5	21.8	20.5	21.2	
TN92-198	21.9	.	.	20.1	21.5	21.9	19.6	.	20.8	22.1	.	22.2	19.7	21.7	22.8	22.0	20.6	21.2	
TN92-228	22.5	.	.	20.1	21.0	18.8	19.0	.	21.0	21.1	.	21.2	20.3	21.9	22.3	22.6	20.6	21.0	
TN92-249	22.1	.	.	20.1	21.0	23.4	19.7	.	21.7	21.5	.	21.6	20.2	21.2	22.3	22.2	20.2	21.1	

TABLE 21 - (Continued).

PROTEIN PERCENTAGE

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	CALHOUN GA	CORA IL	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PITTS- BURG KS	PLY- MOUTH VA	PORTAGE- VILLE MO (A)	PORTAGE- VILLE MO (B)	PRINCE- TON KY	QUEENS- TOWN MD	STARK- VILLE MS	STONE- VILLE MS	SUFFOLK VA	WARSAW VA	MEAN
HUTCHESON	41.6	.	.	41.7	41.2	44.3	40.6	.	42.1	42.5	.	41.2	40.8	47.0	42.6	41.2	41.9	42.1
MANOKIN	43.7	.	.	43.5	42.1	42.8	40.1	.	42.9	43.6	.	39.1	41.2	46.6	43.3	43.1	41.5	42.5
LS92-0964	42.4	.	.	41.5	40.9	43.9	39.3	.	44.0	41.9	.	39.5	40.3	43.9	41.7	43.0	42.4	41.6
LS92-1088	42.4	.	.	39.9	41.7	46.0	40.6	.	43.0	42.8	.	39.8	41.0	46.1	43.6	42.3	41.1	42.0
V91-223	43.0	.	.	43.4	41.5	44.2	41.6	.	42.4	42.4	.	40.1	40.9	44.4	42.0	41.0	41.5	42.1
V91-2935	41.8	.	.	43.0	42.7	44.1	40.5	.	43.5	42.8	.	41.0	41.2	47.2	41.4	41.1	41.3	42.4
V91-3036	42.7	.	.	41.7	43.0	43.5	41.4	.	43.0	44.4	.	41.5	42.1	46.6	43.3	42.2	41.4	42.8
V90-1012	41.1	.	.	40.5	41.7	43.3	40.9	.	43.0	42.7	.	41.2	40.5	46.0	42.0	41.0	41.4	41.9
KY91-11114	42.3	.	.	42.1	42.7	44.4	42.1	.	42.1	42.7	.	40.2	41.3	49.6	44.6	41.4	41.7	42.9
R90-515	41.9	.	.	39.9	41.6	42.0	40.7	.	42.4	43.4	.	40.0	41.6	45.6	43.5	42.7	41.4	42.0
R92-1294	41.9	.	.	41.2	41.6	44.1	41.2	.	42.1	43.3	.	40.0	41.1	46.8	43.1	41.3	41.6	42.2
NTCPR94-5483	42.3	.	.	40.6	41.2	45.1	41.7	.	41.6	43.8	.	41.5	43.4	44.3	41.9	43.5	41.7	42.2
NTCPR94-5491	43.1	.	.	43.6	43.3	43.5	41.3	.	43.2	45.6	.	39.8	41.1	49.5	44.7	43.8	42.3	43.4
NTCPR94-5293	44.9	.	.	42.6	41.9	44.1	40.7	.	43.0	43.8	.	40.6	41.2	46.2	43.0	44.2	40.9	42.6
OK89-5602	44.8	.	.	44.4	45.5	43.2	43.4	.	45.3	45.1	.	41.1	43.6	48.6	42.9	45.1	42.4	44.3
K1276	42.1	.	.	41.1	40.1	43.7	38.7	.	40.4	41.9	.	39.2	39.4	43.5	40.1	40.8	40.5	40.6
K1277	40.4	.	.	40.2	41.3	43.0	40.5	.	42.4	41.4	.	38.3	41.1	43.3	40.5	40.8	42.3	41.1
K1335	43.8	.	.	41.8	43.3	43.3	40.5	.	44.1	44.9	.	41.6	43.3	48.2	43.5	43.7	43.5	43.5
S93-1475	42.5	.	.	41.4	43.0	43.5	40.1	.	42.7	43.6	.	40.9	40.1	44.6	43.1	43.4	41.0	42.1
N93-66	44.3	.	.	41.0	42.4	42.3	40.4	.	43.3	41.8	.	40.6	40.8	45.4	42.4	43.7	41.6	42.2
N93-54	43.3	.	.	41.8	43.1	44.5	41.2	.	43.4	43.6	.	41.3	42.1	46.5	43.0	43.8	41.3	42.8
TN91SS-33	41.2	.	.	42.4	42.4	42.1	41.0	.	42.0	41.3	.	40.8	40.2	45.2	41.6	41.2	41.9	41.8
TN92-198	42.4	.	.	42.4	43.1	43.0	40.7	.	42.9	43.0	.	40.0	41.7	45.8	42.0	42.6	43.0	42.5
TN92-228	43.4	.	.	40.5	42.7	44.1	40.8	.	43.2	43.2	.	41.3	41.9	44.0	42.2	40.8	42.3	42.3
TN92-249	40.9	.	.	40.9	41.4	40.1	41.2	.	41.7	41.7	.	40.7	42.3	44.6	40.8	40.7	40.5	41.5

TABLE 21 - (Continued).

STRAIN/ VARIETY	GRAMS PER 100 SEED																		MEAN
	ATHENS GA	BIXBY OK	CALHOUN GA	CORA IL	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PITTS- BURG KS	PLY- MOUTH VA	PORTAGE- VILLE MO (A)	PORTAGE- VILLE MO (B)	PRINCE- TON KY	QUEENS- TOWN MD	STARK- VILLE MS	STONE- VILLE MS	SUFFOLK VA	WARSAW VA		
HUTCHESON	16.6	16.8	16	14.8	14.5	14.3	14.7	13.1	14.7	13.9	14.8	16.3	16.0	13.8	.	14.4	15.5	15.1	
MANOKIN	16.1	14.2	14	12.7	12.3	14.4	12.2	12.2	11.0	11.5	12.7	14.7	12.7	11.3	.	10.8	13.1	12.9	
LS92-0964	16.5	15.0	17	17.1	15.0	15.2	15.8	12.9	13.8	14.1	15.6	17.2	16.7	13.2	.	13.3	16.3	15.4	
LS92-1088	16.1	14.4	16	14.0	14.1	14.8	14.0	12.1	11.4	12.5	14.8	14.7	13.7	13.1	.	13.1	14.9	14.0	
V91-223	14.6	15.3	14	13.3	13.7	15.6	12.8	13.1	11.2	13.6	15.3	14.9	12.9	13.1	.	13.8	13.5	13.7	
V91-2935	15.6	16.2	15	14.9	14.5	14.7	14.3	13.1	15.8	14.0	15.5	16.8	15.2	13.4	.	14.5	15.2	15.0	
V91-3036	14.0	15.6	15	14.4	14.2	17.2	13.4	14.1	12.6	13.1	13.8	15.9	13.6	12.7	.	13.1	15.5	14.1	
V90-1012	18.2	17.7	17	15.1	15.2	17.7	14.8	13.6	14.9	13.9	16.0	20.0	16.1	14.6	.	15.1	15.5	15.9	
KY91-11114	16.8	15.7	16	14.6	14.9	15.2	15.0	13.4	13.3	15.2	16.1	16.1	14.9	11.4	.	14.7	15.4	14.9	
R90-515	15.2	15.1	16	14.6	14.2	14.6	12.8	13.5	12.6	12.0	13.2	13.9	13.7	12.3	.	13.6	15.3	13.9	
R92-1294	15.7	15.4	15	15.0	14.3	15.7	14.6	12.2	14.0	13.2	13.8	17.2	14.6	13.9	.	14.7	14.8	14.6	
NTCPR94-5483	16.5	15.0	15	14.3	14.5	15.3	13.9	13.5	12.5	13.0	14.4	15.5	13.4	12.0	.	13.8	14.9	14.2	
NTCPR94-5491	14.8	14.1	13	12.8	14.2	14.3	13.0	12.0	12.1	11.8	13.6	14.3	13.3	10.8	.	11.7	14.5	13.2	
NTCPR94-5293	18.1	16.7	16	14.7	14.4	15.8	13.7	13.3	13.0	13.1	16.4	15.1	14.6	12.7	.	14.0	15.6	14.8	
OK89-5602	16.3	15.8	15	12.3	14.3	16.6	13.8	13.5	12.7	12.2	14.7	15.1	13.9	10.8	.	12.7	14.7	13.9	
K1276	16.0	14.8	16	13.5	13.0	18.0	12.9	12.1	11.8	12.5	13.3	16.3	13.9	10.9	.	12.3	13.8	13.6	
K1277	16.1	16.8	16	16.4	16.0	15.8	16.9	13.9	13.1	14.4	16.6	16.7	15.7	14.8	.	14.4	16.7	15.7	
K1335	18.7	18.9	18	15.8	15.5	14.0	16.4	13.0	15.3	14.2	17.8	17.0	15.2	14.1	.	14.9	16.5	16.2	
S93-1475	13.2	14.3	14	12.9	12.8	14.8	11.7	11.1	10.5	12.1	11.5	12.8	13.2	9.6	.	11.0	13.3	12.4	
N93-66	19.0	15.9	17	14.9	16.0	16.5	14.7	13.5	12.8	13.3	15.0	16.3	15.3	12.2	.	14.7	15.9	15.1	
N93-54	16.0	16.2	15	13.6	14.0	15.3	13.9	12.4	12.5	12.9	14.9	15.5	14.4	12.0	.	13.6	14.6	14.1	
TN91SS-33	15.2	15.2	14	14.1	14.2	15.8	13.9	13.9	12.8	13.7	17.0	15.6	14.8	13.1	.	14.0	14.5	14.4	
TN92-198	16.5	14.9	15	14.8	14.7	14.6	14.3	12.6	14.3	13.4	15.4	14.7	14.3	12.7	.	13.0	14.6	14.4	
TN92-228	14.6	15.9	14	14.2	15.8	11.9	13.6	12.7	12.7	13.5	13.7	15.6	14.1	12.6	.	13.3	15.0	14.1	
TN92-249	15.6	15.8	15	15.0	14.6	17.1	14.8	13.4	13.3	13.9	14.6	16.3	14.8	13.3	.	14.2	15.3	14.7	

TABLE 22 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN HUTCHESON FOR VARIETY IN UNIFORM GROUP V, 1996.

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	10/11	10/24	10/18	10/17
MANOKIN	-11	-10	-9	-9
LS92-0964	-14	-10	-6	-9
LS92-1088	-11	-5	-3	-6
V91-223	0	0	1	1
V91-2935	0	-4	-2	-2
V91-3036	0	0	1	1
V90-1012	0	-6	-3	-2
KY91-11114	-4	-7	-5	-5
R90-515	-4	3	1	1
R92-1294	0	0	-1	1
NTCPR94-5483	-4	-5	-3	-3
NTCPR94-5491	0	0	-2	0
NTCPR94-5293	-4	-1	0	-1
OK89-5602	-4	0	0	-1
K1276	-4	-4	-4	-3
K1277	0	-3	-2	-1
K1335	-4	-8	-5	-5
S93-1475	0	3	0	2
N93-66	-4	-5	-6	-4
N93-54	0	-2	-2	0
TN91SS-33	0	0	-1	0
TN92-198	-4	-8	-5	-5
TN92-228	0	-1	1	1
TN92-249	0	0	-1	0

TABLE 22 - (Continued).

STRAIN/ VARIETY	SOUTH											
	ATHENS GA	BATON ROUGE LA	BELLE MINA AL	CALHOUN GA	CORA IL	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARK- VILLE MS	SUFFOLK VA	MEAN
HUTCHESON	10/03	10/03	10/03	10/04	10/19	10/07	10/12	10/22	10/15	09/12	10/14	10/06
MANOKIN	-7	0	-2	-4	-7	-11	0	-6	2	-9	-13	-4
LS92-0964	-11	-2	-4	-4	-8	-8	-1	-2	-4	-7	-13	-5
LS92-1088	-8	-2	-2	-4	-2	-2	6	-2	1	-3	-5	-2
V91-223	4	5	3	2	0	2	-1	5	4	8	0	4
V91-2935	0	3	-1	-4	-5	-1	1	-1	1	-2	0	-1
V91-3036	0	2	4	-1	2	1	1	5	4	2	0	3
V90-1012	4	0	0	-1	-1	0	0	-2	0	-2	-2	0
KY91-11114	-5	3	-1	-4	-12	-5	1	-6	-2	-2	-8	-3
R90-515	5	7	4	2	.	4	6	5	6	10	0	4
R92-1294	-2	5	3	-3	2	-1	1	-1	5	2	1	2
NTCPR94-5483	-6	0	-2	-3	0	-2	0	-1	1	-1	0	-1
NTCPR94-5491	-3	-1	-1	-4	-3	-2	0	0	2	-9	-5	-2
NTCPR94-5293	0	5	0	-1	1	-2	6	-1	2	-1	0	1
OK89-5602	4	5	3	0	2	1	1	6	5	-3	0	3
K1276	1	5	-1	-4	-1	-1	0	0	4	-6	-2	0
K1277	4	0	4	2	-7	-1	-1	1	0	4	0	1
K1335	0	0	-2	-4	-7	-2	6	0	-1	-3	0	-2
S93-1475	-1	-3	4	2	.	1	1	3	6	-2	0	0
N93-66	0	5	-1	-4	-5	-9	-1	-4	3	-3	-7	-2
N93-54	1	0	1	-4	-3	-4	5	0	3	-2	-5	0
TN91SS-33	6	5	3	4	0	1	1	4	3	2	0	4
TN92-198	0	1	-1	-4	-7	-5	1	0	-1	-7	-2	-2
TN92-228	6	5	4	2	.	6	1	6	5	5	1	4
TN92-249	4	5	3	0	0	2	4	5	4	3	1	3

TABLE 22 - (Continued).

STRAIN/ VARIETY	DELTA				
	KEISER AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS	MEAN 10/05
HUTCHESON	10/04	10/07	10/13	09/26	10/05
MANOKIN	-8	-10	-8	-13	-10
LS92-0964	-9	-8	-9	-8	-8
LS92-1088	-4	-7	-6	0	-4
V91-223	3	0	1	4	2
V91-2935	-2	0	-4	1	-1
V91-3036	1	0	0	0	0
V90-1012	-1	0	-4	1	-1
KY91-11114	2	0	1	1	1
R90-515	4	0	0	0	1
R92-1294	3	0	0	2	1
NTCPR94-5483	-3	0	0	-7	-2
NTCPR94-5491	-4	-6	1	-7	-4
NTCPR94-5293	1	0	2	2	1
OK89-5602	2	0	0	1	1
K1276	1	-7	0	-3	-2
K1277	1	0	1	2	1
K1335	-4	-1	0	1	-1
S93-1475	1	0	0	-5	-1
N93-66	-2	-10	-7	-4	-6
N93-54	0	0	0	-1	0
TN91SS-33	2	0	0	1	1
TN92-198	-7	-9	-6	1	-5
TN92-228	3	0	1	2	2
TN92-249	2	1	0	2	1

TABLE 22 - (Continued).

STRAIN/ VARIETY	WEST
	STUTT GART AR
HUTCHESON	09/27
MANOKIN	-7
LS92-0964	-7
LS92-1088	-2
V91-223	8
V91-2935	-3
V91-3036	5
V90-1012	-2
KY91-11114	6
R90-515	5
R92-1294	4
NTCPR94-5483	-3
NTCPR94-5491	-6
NTCPR94-5293	3
OK89-5602	-7
K1276	-4
K1277	5
K1335	-4
S93-1475	2
N93-66	-5
N93-54	-3
TN91SS-33	5
TN92-198	-1
TN92-228	5
TN92-249	5

TABLE 23 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1996.

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	30	32	32	31
MANOKIN	24	35	31	30
LS92-0964	25	32	31	29
LS92-1088	29	34	37	33
V91-223	29	36	32	33
V91-2935	28	32	32	31
V91-3036	28	37	35	33
V90-1012	28	33	32	31
KY91-11114	34	37	39	36
R90-515	31	34	39	35
R92-1294	33	35	35	34
NTCPR94-5483	27	29	33	29
NTCPR94-5491	24	30	31	28
NTCPR94-5293	31	36	37	35
OK89-5602	25	30	28	28
K1276	22	33	29	28
K1277	33	40	37	37
K1335	25	33	30	29
S93-1475	29	39	33	34
N93-66	26	34	30	30
N93-54	26	37	33	32
TN91SS-33	27	33	30	30
TN92-198	21	27	24	24
TN92-228	26	34	32	31
TN92-249	28	33	31	31

TABLE 23 - (Continued).

STRAIN/ VARIETY	SOUTH											MEAN
	ATHENS	BATON	BELLE	CALHOUN	CORA	KNOX-	MARTIN	ORANGE	PRINCETON	STARK-	SUFFOLK	
	GA	ROUGE LA	MINA AL	GA	IL	VILLE TN	TN	VA	KY	VILLE MS	VA	
HUTCHESON	26	29	31	34	36	32	24	36	29	19	21	30
MANOKIN	28	27	30	35	37	36	23	36	24	19	19	30
LS92-0964	25	25	27	32	35	26	25	37	31	16	18	28
LS92-1088	32	31	31	36	39	36	23	40	35	23	27	34
V91-223	29	32	30	33	37	32	21	37	32	22	20	32
V91-2935	26	25	28	31	36	34	27	36	30	18	23	29
V91-3036	31	30	34	35	36	37	29	36	32	22	26	32
V90-1012	29	29	29	34	38	36	25	37	34	22	21	32
KY91-11114	31	43	37	42	38	37	32	41	33	27	26	37
R90-515	36	34	38	36	36	40	30	38	36	22	27	35
R92-1294	35	34	35	38	32	39	26	40	38	22	29	35
NTCPR94-5483	30	28	31	32	30	32	23	35	30	22	22	30
NTCPR94-5491	28	26	29	32	33	33	24	36	27	19	20	29
NTCPR94-5293	34	28	33	37	36	40	27	40	36	22	22	34
OK89-5602	26	26	25	32	31	29	27	36	28	19	20	28
K1276	23	27	24	29	33	29	30	35	27	18	20	27
K1277	35	34	38	47	47	44	24	42	37	37	27	40
K1335	23	21	24	29	31	31	31	34	26	17	20	26
S93-1475	33	28	31	35	37	38	26	42	33	22	24	33
N93-66	29	24	28	33	32	36	27	35	30	22	21	30
N93-54	29	29	27	34	35	35	27	39	33	18	21	31
TN91SS-33	28	30	30	31	36	35	25	35	26	19	23	30
TN92-198	23	41	25	28	30	27	26	31	28	17	18	28
TN92-228	30	25	27	31	32	31	27	37	28	18	19	29
TN92-249	29	28	30	31	38	32	30	35	28	19	23	30

TABLE 23 - (Continued).

DELTA					
STRAIN/ VARIETY	KEISER AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS	MEAN
HUTCHESON	32	32	21	19	26
MANOKIN	31	27	22	19	25
LS92-0964	27	23	19	18	22
LS92-1088	34	37	23	22	29
V91-223	30	32	27	21	28
V91-2935	31	30	25	17	26
V91-3036	36	34	28	22	30
V90-1012	31	30	21	22	26
KY91-11114	40	40	30	41	38
R90-515	37	36	28	25	32
R92-1294	36	37	28	25	31
NTCPR94-5483	29	31	27	22	27
NTCPR94-5491	27	29	24	19	25
NTCPR94-5293	32	33	23	21	27
OK89-5602	26	27	18	16	22
K1276	26	26	22	19	23
K1277	46	41	34	45	41
K1335	24	26	19	16	21
S93-1475	34	36	26	17	28
N93-66	30	30	20	18	25
N93-54	32	31	22	19	26
TN91SS-33	34	31	23	21	27
TN92-198	28	23	17	16	21
TN92-228	30	30	22	18	25
TN92-249	32	32	22	18	26

TABLE 23 - (Continued).

STRAIN VARIETY	WEST				MEAN
	BIXBY OK	BOSSIER CITY LA	PITTSBURG KS	STUTTGART AR	
HUTCHESON	20	22	33	18	23
MANOKIN	26	28	33	23	27
LS92-0964	22	23	30	17	23
LS92-1088	27	29	38	22	29
V91-223	24	26	34	16	25
V91-2935	23	23	30	19	24
V91-3036	25	29	35	23	28
V90-1012	24	25	34	21	26
KY91-11114	26	46	29	36	34
R90-515	37	30	40	26	33
R92-1294	32	26	39	25	31
NTCPR94-5483	24	30	32	21	26
NTCPR94-5491	23	22	34	20	25
NTCPR94-5293	30	29	36	24	30
OK89-5602	25	28	31	16	25
K1276	25	24	27	16	23
K1277	32	47	37	38	38
K1335	22	19	27	18	22
S93-1475	30	29	38	20	29
N93-66	28	29	34	19	27
N93-54	29	26	33	18	26
TN91SS-33	29	24	32	19	26
TN92-198	22	19	27	16	21
TN92-228	23	28	31	17	25
TN92-249	24	23	34	19	25

TABLE 24 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1996.

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	4	3	4	4
MANOKIN	4	4	4	4
LS92-0964	4	3	4	3
LS92-1088	4	4	4	4
V91-223	4	3	3	3
V91-2935	4	4	4	4
V91-3036	4	3	4	3
V90-1012	4	3	4	4
KY91-11114	3	3	3	3
R90-515	4	4	3	4
R92-1294	4	4	5	4
NTCPR94-5483	4	4	4	4
NTCPR94-5491	4	4	4	4
NTCPR94-5293	4	4	3	4
OK89-5602	4	3	3	4
K1276	3	2	2	2
K1277	4	3	3	4
K1335	3	2	2	2
S93-1475	5	4	4	4
N93-66	3	4	3	3
N93-54	5	4	4	4
TN91SS-33	5	3	4	4
TN92-198	4	3	4	4
TN92-228	3	4	3	3
TN92-249	5	3	4	4

TABLE 24 - (Continued).

STRAIN/ VARIETY	SOUTH											
	ATHENS GA	BATON ROUGE LA	BELLE MINA AL	CALHOUN GA	CORA IL	KNOX- VILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARK- VILLE MS	SUFFOLK VA	MEAN
HUTCHESON	2	1	2	2	3	2	1	3	1	1	1	2
MANOKIN	2	2	2	3	4	4	1	3	1	1	1	2
LS92-0964	2	2	2	1	4	2	1	2	1	1	1	2
LS92-1088	2	2	2	1	2	3	1	3	2	1	1	2
V91-223	2	2	1	1	2	2	1	3	1	1	1	2
V91-2935	2	1	2	1	4	2	1	3	1	1	1	2
V91-3036	2	2	2	2	4	3	1	3	2	1	1	2
V90-1012	2	1	2	1	3	2	1	2	1	1	1	2
KY91-11114	2	2	2	1	1	3	1	1	1	1	1	2
R90-515	2	2	1	3	3	3	1	4	2	1	1	2
R92-1294	2	3	2	2	4	4	1	3	3	1	2	3
NTCPR94-5483	2	2	2	2	3	2	1	3	2	1	1	2
NTCPR94-5491	2	2	1	2	3	2	1	3	1	1	1	2
NTCPR94-5293	2	2	2	2	3	3	1	4	2	1	1	2
OK89-5602	2	1	1	2	2	2	1	3	1	1	1	2
K1276	2	1	1	1	1	2	1	2	1	1	1	1
K1277	2	2	2	1	4	3	1	2	1	2	1	2
K1335	2	1	1	1	2	2	1	2	1	1	1	1
S93-1475	2	3	2	2	3	4	1	4	2	1	1	3
N93-66	2	2	1	1	2	3	1	2	1	1	1	2
N93-54	2	2	1	3	4	3	1	3	2	1	1	2
TN91SS-33	2	1	2	1	5	2	1	3	1	1	1	2
TN92-198	2	2	1	1	2	2	1	3	1	1	1	2
TN92-228	2	1	2	1	2	2	1	3	1	1	1	2
TN92-249	2	1	2	1	4	2	1	4	2	1	1	2

TABLE 24 - (Continued).

DELTA						
STRAIN/ VARIETY	KEISER AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS	MEAN	
HUTCHESON	1	1	1	2	1	
MANOKIN	2	2	1	2	2	
LS92-0964	1	1	1	2	1	
LS92-1088	1	2	1	2	2	
V91-223	1	1	1	2	1	
V91-2935	1	1	1	2	1	
V91-3036	1	2	1	2	2	
V90-1012	1	1	1	2	1	
KY91-11114	1	1	1	2	1	
R90-515	2	2	1	2	2	
R92-1294	2	2	2	2	2	
NTCPR94-5483	1	1	1	2	1	
NTCPR94-5491	1	1	1	2	1	
NTCPR94-5293	1	1	1	2	1	
OK89-5602	1	1	1	2	1	
K1276	1	1	1	2	1	
K1277	1	2	1	2	2	
K1335	1	1	1	2	1	
S93-1475	2	2	2	2	2	
N93-66	1	1	1	2	1	
N93-54	1	1	1	2	1	
TN91SS-33	1	1	1	2	1	
TN92-198	1	1	1	2	1	
TN92-228	1	2	1	2	2	
TN92-249	1	1	1	2	1	

TABLE 24 - (Continued).

STRAIN/ VARIETY	WEST					MEAN
	BOSSIER LA	CITY	PITTSBURG KS	STUTTGART AR	BIXBY OK	
HUTCHESON	1		1	1	.	1
MANOKIN	1		2	2	1	2
LS92-0964	1		1	1	.	1
LS92-1088	1		1	1	.	1
V91-223	1		2	1	.	1
V91-2935	1		1	1	.	1
V91-3036	1		2	2	1	1
V90-1012	1		2	1	.	1
KY91-11114	1		1	2	.	1
R90-515	1		3	2	2	2
R92-1294	1		2	2	2	2
NTCPR94-5483	1		2	1	1	1
NTCPR94-5491	1		3	1	2	2
NTCPR94-5293	1		2	1	3	2
OK89-5602	1		2	1	.	1
K1276	1		1	1	.	1
K1277	1		1	2	.	1
K1335	2		1	1	.	1
S93-1475	1		3	1	3	2
N93-66	1		1	1	2	1
N93-54	1		1	1	1	1
TN91SS-33	1		1	1	.	1
TN92-198	1		1	1	.	1
TN92-228	1		1	1	1	1
TN92-249	1		1	1	.	1

TABLE 25 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1996.

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	
HUTCHESON	2	1	2	2
MANOKIN	2	1	2	2
LS92-0964	3	1	2	2
LS92-1088	2	1	2	2
V91-223	2	1	2	2
V91-2935	3	1	2	2
V91-3036	2	1	1	1
V90-1012	2	1	2	2
KY91-11114	2	1	2	2
R90-515	3	1	2	2
R92-1294	3	1	2	2
NTCPR94-5483	3	1	2	2
NTCPR94-5491	3	1	2	2
NTCPR94-5293	3	1	2	2
OK89-5602	2	1	1	1
K1276	3	1	2	2
K1277	3	1	2	2
K1335	3	1	2	2
S93-1475	3	1	2	2
N93-66	2	2	2	2
N93-54	3	2	2	2
TN91SS-33	3	1	2	2
TN92-198	3	1	2	2
TN92-228	2	1	1	1
TN92-249	3	1	2	2

TABLE 25 - (Continued).

SOUTH

STRAIN/ VARIETY	BATON			CORA IL	MARTIN TN	ORANGE VA	PRINCE-	STARK-	SUFFOLK VA	MEAN
	ATHENS GA	ROUGE LA	CALHOUN GA				TON KY	VILLE MS		
HUTCHESON	2	2	1	1	2	1	3	3	1	2
MANOKIN	2	2	2	1	3	1	1	2	2	2
LS92-0964	3	3	2	1	2	1	3	2	3	2
LS92-1088	3	3	2	1	1	1	2	3	2	2
V91-223	2	2	1	1	2	1	2	2	2	2
V91-2935	2	2	1	1	1	1	1	3	2	2
V91-3036	2	2	1	1	2	1	2	2	1	2
V90-1012	2	2	2	1	1	1	3	3	1	2
KY91-11114	2	2	2	1	2	1	2	4	2	2
R90-515	3	3	2	2	2	1	2	3	2	2
R92-1294	2	2	2	1	1	1	2	2	2	2
NTCPR94-5483	2	2	2	1	3	1	3	1	1	2
NTCPR94-5491	2	2	2	1	2	1	2	2	2	2
NTCPR94-5293	3	2	2	1	2	1	2	2	2	2
OK89-5602	2	2	1	1	2	1	2	3	1	2
K1276	2	2	1	1	1	1	2	2	1	2
K1277	2	2	1	1	2	1	2	3	2	2
K1335	3	2	1	1	3	1	3	4	1	2
S93-1475	2	2	2	1	3	1	3	2	2	2
N93-66	3	3	2	1	1	1	2	2	2	2
N93-54	3	3	2	1	2	1	1	3	2	2
TN91SS-33	2	2	1	1	2	1	1	3	1	2
TN92-198	2	2	1	1	2	1	2	3	1	2
TN92-228	2	2	2	1	3	1	2	2	1	2
TN92-249	2	2	1	1	1	1	2	3	1	2

TABLE 25 - (Continued).

STRAIN/ VARIETY	DELTA			MEAN
	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS	
HUTCHESON	1	2	2	2
MANOKIN	1	2	2	2
LS92-0964	1	2	2	2
LS92-1088	2	2	3	2
V91-223	2	2	2	2
V91-2935	1	2	2	2
V91-3036	2	2	2	2
V90-1012	1	2	3	2
KY91-11114	2	1	2	2
R90-515	2	2	2	2
R92-1294	1	2	2	2
NTCPR94-5483	2	2	2	2
NTCPR94-5491	1	2	2	2
NTCPR94-5293	2	2	3	2
OK89-5602	1	2	2	2
K1276	1	2	2	2
K1277	2	2	3	2
K1335	2	2	3	2
S93-1475	2	2	2	2
N93-66	2	2	3	2
N93-54	2	2	3	2
TN91SS-33	2	2	2	2
TN92-198	1	2	2	2
TN92-228	2	2	3	2
TN92-249	.	2	2	1

TABLE 25 - (Continued).

STRAIN/ VARIETY	WEST	
	PITTSBURG	KS
HUTCHESON		1
MANOKIN		2
LS92-0964		2
LS92-1088		2
V91-223		2
V91-2935		1
V91-3036		2
V90-1012		2
KY91-11114		2
R90-515		1
R92-1294		1
NTCPR94-5483		2
NTCPR94-5491		2
NTCPR94-5293		1
OK89-5602		1
K1276		2
K1277		2
K1335		2
S93-1475		1
N93-66		2
N93-54		2
TN91SS-33		1
TN92-198		1
TN92-228		2
TN92-249		2

PRELIMINARY GROUP V**1996**

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, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. HUTCHESON	V68-1034	X	ESSEX	F5
2. MANOKIN	L70-L3048	X	D74-7824	F5
3. S94-1956	N85-578	X	HARTWIG	F5
4. S94-1515	A5979	X	HARTWIG	F5
5. S93-1591	A5979	X	S90-1818	F5
6. S94-1808	A5403	X	S91-1532	F5
7. S94-1867	P9592	X	S91-1693	F5
8. F94-1233	PI417479	X	F85-1138	F9
9. F94-1259	PI417479	X	F85-1138	F9
10. F94-1291	PI417479	X	F85-1138	F9
11. NTCPR94-5237	YOUNG	X	N73-1102	F7
12. NTCPR94-5551	ESSEX	X	VANCE	F5
13. N94-7394	VANCE	X	NTCPR90-273	F4
14. PA15	PA4-11B	X	BSR201	F7
15. N94-12	COOK	X	CLIFFORD	F6
16. N94-193	BRIM (3)	X	N87-2117-3	F5
17. N94-546	COOK	X	CLIFFORD	F6
18. N94-208	HOLLADAY (2)	X	(N87-2122-4 X N89-3095)	F5
19. TN93-74	TN84-21	X	TN85-42	
20. TN93-99	HUTCHESON	X	(TN85-55 X TN5-85)	
21. TN93-102	HUTCHESON	X	(TN85-55 X TN5-85)	
22. TN93-163	TN94-86	X	HUTCHESON	
23. TN93-258	TN85-117	X	N84-507	
24. J94-7	HARTWIG	X	N85-578	

TABLE 26B - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VB, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. HUTCHESON	V68-1034	X	ESSEX	F5
2. MANOKIN	L70-L3048	X	D74-7824	F5
3. LS93-1089	ASGROW 3935	X	LS85-3504	F6
4. MD93-5358	K1173	X	WICOMICO	F5
5. MD93-5668	K1173	X	CORSICA	F5
6. MD93-5634	K1173	X	CORSICA	F5
7. V92-1142	ESSEX	X	A4595	F6
8. V92-974	HUTCHESON	X	FFR561	F6
9. V92-1182	ESSEX	X	STAFFORD	F6
10. V92-58	HUTCHESON	X	DP105	F6
11. V92-254	HUTCHESON	X	V83-2298	F6
12. K1362	RHODES	X	HOLLADAY	F5
13. K1363	MANOKIN	X	HARTWIG	F5
14. K1364	RHODES	X	HOLLADAY	F5
15. K1365	MANOKIN	X	HARTWIG	F5
16. K1366	RHODES	X	HOLLADAY	F5
17. R93-171	ASGROW A5403	X	HUTCHESON	
18. R92-1178	HUTCHESON	X	WALTERS	
19. R92-736	CORDELL	X	R82-368	
20. R92-1327	HUTCHESON	X	WALTERS	F5
21. R92-1279	HUTCHESON	X	WALTERS	
22. OK91-5915	SOHOMA	X	FORREST	
23. OK91-5630	ESSEX	X	SOHOMA	
24. OK91-6111	DOUGLAS	X	SOHOMA	

TABLE 27A - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1996.

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	---PERCENT---		STEM CANKER	M.a. TN	M.i. TN	SCN 3	SCN 5	SCN 14
							PROTEIN	OIL						
HUTCHESON	51.9	10/09	2.3	28.3	1.4	14.9	41.5	21.3	R	4.0	4.8	5.0	5.0	5.0
MANOKIN	50.7	-5.6	2.6	28.4	1.6	12.7	42.2	21.2	R	2.5	4.0	1.0	3.5	5.0
S94-1956	54.2	1.4	1.9	25.0	1.8	14.1	41.5	21.2	R	4.2	5.0	3.9	1.0	1.0
S94-1515	47.0	2.4	2.1	30.6	1.9	13.5	41.5	19.8	S	4.0	4.5	1.0	1.0	1.0
S93-1591	49.8	1.8	2.5	30.3	1.9	10.5	42.3	20.3	R/S	3.7	5.0	2.7	1.0	1.3
S94-1808	49.9	-0.2	2.6	32.4	1.9	11.2	41.7	20.3	S	4.0	5.0	2.9	1.0	1.0
S94-1867	52.3	5.3	2.4	37.2	1.7	16.8	41.9	20.3	S	3.5	2.8	1.2	1.0	1.0
F94-1233	39.6	2.9	3.1	30.5	2.1	14.6	43.4	18.2	R/S	2.8	3.7	5.0	5.0	4.6
F94-1259	40.2	7.8	2.9	34.1	1.7	13.7	45.2	18.0	R	3.6	4.0	5.0	4.9	4.0
F94-1291	42.7	11.1	3.8	31.5	2.1	16.4	41.9	17.8	S	4.0	3.4	5.0	4.8	2.2
NTCPR94-5237	50.2	4.2	2.2	27.6	1.7	16.9	41.9	21.6	S	4.6	4.5	4.8	5.0	2.8
NTCPR94-5551	45.8	2.5	3.3	27.6	1.4	11.3	43.6	20.7	R	4.5	3.7	5.0	5.0	3.4
N94-7394	43.6	0.9	2.5	28.4	1.3	7.8	45.2	18.1	R	3.5	4.8	5.0	5.0	3.7
PA15	36.4	-3.7	2.9	47.5	2.1	13.0	45.1	19.5	R	3.5	3.8	4.9	4.1	2.0
N94-12	49.9	-1.7	2.5	32.8	2.1	16.2	42.4	20.2	S	4.8	3.0	5.0	5.0	3.5
N94-193	48.4	9.5	2.7	34.4	1.6	14.7	43.1	19.9	S	4.3	5.0	5.0	4.5	5.0
N94-546	48.8	-1.0	2.3	28.5	2.0	14.7	42.5	20.6	S	4.5	3.8	5.0	5.0	4.4
N94-208	48.8	-4.3	1.9	25.9	2.0	15.1	41.4	21.1	R/S	4.3	4.0	5.0	5.0	4.8
TN93-74	47.8	-2.3	2.0	25.7	1.6	12.8	43.5	20.4	S	2.7	3.8	4.8	5.0	4.2
TN93-99	49.5	1.1	2.5	27.5	1.6	14.2	41.5	21.5	R	4.0	4.0	5.0	4.6	4.3
TN93-102	47.9	0.1	2.5	28.6	1.6	14.5	41.2	21.7	R	5.0	5.0	5.0	5.0	4.2
TN93-163	44.1	3.1	2.2	29.2	1.5	11.9	42.8	19.9	R	4.6	4.5	5.0	5.0	4.6
TN93-258	46.6	1.9	2.7	26.4	1.6	12.4	40.5	21.8	S	3.7	4.2	5.0	5.0	4.8
J94-7	49.7	1.1	2.3	30.4	1.4	13.6	41.7	20.3	S	4.3	4.5	1.0	1.0	1.0
OVERALL MEAN	47.3						42.5	20.2						
L.S.D. (.05)	4.1						0.9	0.6						
C.V.	10%						2%	3%						

TABLE 27B - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1996.

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	PROTEIN	OIL	STEM CANKER	M.a. TN	M.i. TN	SCN 3	SCN 5	SCN 14
HUTCHESON	52.1	10/09	2.2	27.6	1.4	14.6	41.4	21.4	R	4.3	4.3	4.7	5.0	4.6
MANOKIN	49.0	-6.7	2.5	28.4	1.5	12.9	41.5	21.7	R	2.5	3.5	1.0	3.7	4.3
LS93-1089	43.7	-3.1	1.7	25.3	1.9	14.5	42.2	20.4	R	4.5	4.2	1.1	4.8	4.2
MD93-5358	48.3	1.9	2.5	26.5	1.7	13.6	44.1	19.5	S	2.7	2.2	4.4	5.0	4.4
MD93-5668	49.4	-2.6	2.0	39.4	1.6	16.1	43.9	20.6	R/S	2.7	5.0	4.9	5.0	4.4
MD93-5634	48.7	-5.3	1.7	35.6	1.7	14.8	43.4	20.7	R/S	2.5	5.0	5.0	5.0	4.1
V92-1142	47.1	-3.7	1.9	24.6	1.6	13.1	42.7	20.4	R/S	3.7	3.8	5.0	5.0	4.9
V92-974	50.3	2.1	1.9	28.8	1.4	13.5	42.8	19.8	R	3.8	4.0	5.0	5.0	5.0
V92-1182	46.6	-2.1	2.0	29.7	1.4	13.0	42.1	20.8	R	4.5	4.0	5.0	5.0	5.0
V92-58	47.3	-1.7	2.2	30.9	1.5	13.8	41.8	21.5	R	4.5	3.8	5.0	5.0	5.0
V92-254	52.7	-0.7	2.3	27.9	1.7	13.5	41.5	21.5	R	4.5	4.5	5.0	5.0	5.0
K1362	46.9	-7.7	1.5	25.1	1.6	12.1	41.7	20.9	S	4.5	4.0	5.0	5.0	4.7
K1363	47.6	-4.2	2.4	27.5	1.6	12.5	43.2	20.3	S	4.0	4.0	1.2	5.0	4.8
K1364	53.2	-0.4	1.6	24.9	1.6	13.8	42.4	21.5	S	3.8	2.8	1.0	1.9	5.0
K1365	46.2	-2.9	2.4	28.4	1.9	11.2	43.7	20.4	R	4.0	3.2	1.5	5.0	4.8
K1366	50.8	-6.1	2.1	27.0	1.6	11.9	41.1	21.2	R/S	3.7	4.7	1.0	4.9	5.0
R93-171	54.3	-0.1	2.8	31.2	1.7	14.8	41.9	20.6	R	3.8	3.7	1.2	5.0	3.6
R92-1178	50.2	-0.2	2.6	29.8	1.6	12.9	40.9	22.1	R	3.5	3.8	4.7	5.0	4.9
R92-736	49.1	-2.4	2.5	30.8	1.7	12.9	43.5	21.3	R/S	3.0	5.0	1.5	1.0	4.8
R92-1327	50.6	3.3	2.2	30.5	1.5	12.7	42.8	20.5	R/S	4.3	3.0	3.3	5.0	4.7
R92-1279	48.6	-2.1	2.0	27.4	1.6	10.8	43.9	21.2	R/S	4.0	3.7	4.9	5.0	5.0
OK91-5915	44.2	4.1	1.9	27.4	1.6	14.5	42.8	20.7	S	4.0	3.7	5.0	5.0	5.0
OK91-5630	44.1	2.9	1.7	28.1	1.6	14.3	43.3	20.7	R/S	3.8	4.0	4.7	5.0	5.0
OK91-6111	43.1	3.8	2.0	29.9	1.8	15.4	42.3	20.6	R	3.3	4.7	4.8	5.0	4.8
OVERALL MEAN	48.5						42.5	20.8						
L.S.D. (.05)	3.2						0.9	0.5						
C.V.	8%						2%	2%						

TABLE 28A - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1996.

STRAIN/ VARIETY	BIXBY OK	CORA IL	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGE-	QUEENS-	STONE-	WARSAW VA	MEAN
							VILLE MO (A)	TOWN MD	VILLE MS		
HUTCHESON	33.2	53.0	77.2	55.9	35.8	40.5	63.8	48.0	60.7	50.8	51.9
MANOKIN	32.9	54.1	66.5	57.7	34.7	45.1	60.8	43.5	55.9	55.7	50.7
S94-1956	35.2	61.3+	78.6	62.8+	31.7	51.1+	68.1	46.3	51.5-	55.2	54.2
S94-1515	37.1	51.4	47.6-	55.0	32.3	40.1	68.1	39.7-	46.2-	52.9	47.0
S93-1591	36.5	47.4-	73.8	59.3	35.2	43.0	66.3	38.0-	47.4-	51.3	49.8
S94-1808	35.3	50.1	66.9	57.0	23.2-	47.0	62.2	45.1	57.4	54.4	49.9
S94-1867	34.4	48.8	75.4	59.8	27.7	48.0	68.5	50.2	55.3	55.0	52.3
F94-1233	25.7	37.8-	46.9-	49.5-	21.0-	32.8-	47.5	42.1	45.0-	47.2	39.6-
F94-1259	19.9	29.7-	52.7-	51.1-	19.4-	44.6	56.1	32.0-	45.3-	50.9	40.2-
F94-1291	25.9	41.3-	53.5-	49.7-	31.7	35.5	50.9	40.7	51.0-	46.5	42.7
NTPR94-5237	37.0	51.0	62.7	56.9	34.9	47.0	55.4	50.0	53.2	54.2	50.2
NTPR94-5551	29.1	46.2-	63.1	56.2	29.2	41.3	54.9	37.1-	49.2-	51.9	45.8
N94-7394	26.4	45.1-	54.7-	58.2	33.0	40.4	44.6	43.2	42.8-	47.6	43.6
PA15	16.6	37.8-	61.4-	40.6-	18.1-	35.1	47.8	36.5-	30.2-	39.6-	36.4-
N94-12	29.6	50.2	60.3-	60.9+	29.1	43.0	59.9	49.1	56.7	60.0+	49.9
N94-193	33.4	44.4-	68.8	57.3	26.7	48.7+	62.7	35.8-	57.7	48.3	48.4
N94-546	29.9	47.0-	57.3-	62.7+	27.0	50.8+	55.4	48.1	49.3-	60.4+	48.8
N94-208	26.9	49.9	66.3	60.4	32.4	49.1+	58.2	43.9	45.5-	55.8	48.8
TN93-74	29.8	52.4	59.4-	60.0	33.8	38.2	55.2	49.8	43.3-	56.5	47.8
TN93-99	34.2	49.8	69.1	59.6	27.5	45.1	61.6	50.3	57.7	40.5-	49.5
TN93-102	30.2	47.4-	70.6	56.2	29.1	43.0	57.0	49.0	55.6	40.4-	47.9
TN93-163	28.2	50.2	56.2-	53.2	27.7	35.8	57.9	43.7	43.4-	44.4	44.1
TN93-258	30.3	44.6-	60.0-	62.9+	33.0	40.1	63.8	46.2	38.4-	47.2	46.6
J94-7	28.3	51.3	58.0-	59.7	29.5	49.0+	65.9	49.8	47.6-	57.6	49.7
L.S.D. (0.05)		5.2	14.7	4.7	10.2	7.5		7.3	8.8	7.5	4.1
C.V. (%)		5.2	11.3	4.0	16.8	8.5		8.0	8.6	7.1	9.9

TABLE 28B - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1996.

STRAIN/ VARIETY	BIXBY OK	CORA IL	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGE-	QUEENS-	STONE-	WARSAW VA	MEAN
							VILLE MO (A)	TOWN MD	VILLE MS		
HUTCHESON	27.8	52.0	71.1	58.7	37.3	46.8	64.0	54.4	56.6	52.3	52.1
MANOKIN	30.2	54.1	59.5-	57.5	32.1	49.4	60.2	48.1	48.3	50.6	49.0
LS93-1089	24.6	51.0	50.5-	55.3	26.5-	44.2	51.3	49.9	35.2-	48.9	43.7-
MD93-5358	27.9	42.0-	59.6-	59.4	35.5	49.0	63.5	49.5	41.2-	55.6	48.3
MD93-5668	24.6	46.2	67.6	55.1	30.2	44.4	63.6	53.1	55.9	53.5	49.4
MD93-5634	24.7	49.9	58.3-	53.3-	33.4	51.8	62.7	47.2	51.0	54.8	48.7
V92-1142	29.1	49.2	70.1	51.6-	28.5	46.1	50.5	50.0	41.1-	54.3	47.1
V92-974	33.0	50.4	69.4	54.5	30.1	47.7	68.3	45.7-	50.8	53.5	50.3
V92-1182	30.1	46.3	62.9	54.9	33.9	46.9	56.0	42.1-	42.3-	50.7	46.6
V92-58	29.0	41.0-	62.9	54.3	30.1	47.0	56.0	45.4-	53.1	53.7	47.3
V92-254	30.9	56.1	72.0	59.3	41.7	46.7	65.2	50.3	53.3	51.6	52.7
K1362	24.2	52.0	57.3-	57.3	28.1	45.8	58.9	49.1	45.3-	51.5	46.9
K1363	30.0	51.5	61.9	54.1	30.7	44.0	56.9	47.6	48.0	51.7	47.6
K1364	30.9	59.5+	62.6	61.4	39.7	56.9+	62.5	52.2	49.6	56.5	53.2
K1365	24.7	55.9	60.1-	54.1	27.7-	40.7	56.9	47.7	44.2-	50.2	46.2
K1366	32.2	54.4	62.5	49.7-	35.2	54.2	66.9	51.9	53.9	47.5-	50.8
R93-171	32.6	55.3	82.1+	60.6	36.7	46.6	67.9	50.5	56.3	54.1	54.3
R92-1178	32.8	47.5	72.5	51.8-	32.9	47.5	65.6	47.5	52.5	51.9	50.2
R92-736	32.1	50.3	65.5	53.3-	34.1	40.6	61.8	48.8	54.3	50.0	49.1
R92-1327	28.8	52.6	65.2	57.5	35.4	45.8	63.0	46.4	58.2	53.0	50.6
R92-1279	29.4	44.1-	62.9	56.1	31.5	48.2	57.6	49.0	52.9	54.8	48.6
OK91-5915	27.2	44.2-	60.3-	54.0	29.5	42.4	47.2	45.9	43.2-	47.8	44.2-
OK91-5630	24.3	47.3	57.1-	51.1-	29.5	43.8	56.5	43.7-	39.7-	48.0	44.1-
OK91-6111	24.2	44.2-	62.0	49.9-	29.8	41.7	52.9	41.0-	37.2-	48.4	43.1-
L.S.D. (0.05)	6.5	7.2	9.2	5.2	9.5	8.5	6.4	8.5	9.8	4.5	3.2
C.V. (%)	11.0	7.0	6.9	4.6	14.1	8.8	5.2	8.5	9.8	4.1	7.5

TABLE 29A - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1996.

STRAIN/ VARIETY	PITTS-		PORTAGE-		QUEENS-	STONE-	WARSAW VA	MEAN	
	CORA IL	JACKSON TN	BURG KS	PLYMOUTH NC	VILLE MO (A)	TOWN MD			VILLE MS
HUTCHESON	20.2	21.3	23.4	21.0	21.9	19.9	22.1	20.8	21.3
MANOKIN	19.2	22.0	23.2	21.1	21.9	19.3	22.6	20.5	21.2
S94-1956	19.8	21.3	23.2	20.9	21.6	19.8	22.3	20.5	21.2
S94-1515	17.8	20.3	20.5	19.8	20.2	18.7	22.3	19.0	19.8
S93-1591	19.7	20.1	21.8	20.3	19.9	19.2	21.8	19.8	20.3
S94-1808	19.1	20.8	21.4	19.9	20.2	19.3	21.8	19.6	20.3
S94-1867	19.5	20.7	20.5	20.8	20.4	18.8	22.4	19.2	20.3
F94-1233	16.9	18.9	18.1	18.3	18.2	17.1	19.6	18.3	18.2
F94-1259	17.8	18.0	19.8	17.4	18.5	17.8	17.4	17.4	18.0
F94-1291	16.4	18.6	17.3	19.1	19.2	15.9	19.4	16.8	17.8
NTCPR94-5237	20.1	21.9	23.0	21.6	22.0	20.2	22.7	21.1	21.6
NTCPR94-5551	19.0	20.6	22.7	20.7	21.1	19.2	22.1	20.0	20.7
N94-7394	17.8	18.6	19.6	16.6	18.5	17.8	19.3	16.9	18.1
PA15	17.8	20.4	20.6	19.1	19.7	18.4	21.0	19.0	19.5
N94-12	17.8	20.7	21.0	20.8	20.7	19.1	21.4	20.2	20.2
N94-193	19.0	20.4	19.8	20.6	20.5	19.1	21.6	18.1	19.9
N94-546	18.4	21.3	22.0	20.4	21.1	19.5	21.9	20.4	20.6
N94-208	19.3	21.4	22.1	20.9	21.8	19.5	23.2	20.9	21.1
TN93-74	18.3	20.5	22.6	20.2	21.6	19.2	20.9	20.0	20.4
TN93-99	19.9	21.4	23.3	21.5	21.6	20.6	22.7	20.9	21.5
TN93-102	21.0	21.9	22.6	21.9	22.1	20.3	22.8	21.3	21.7
TN93-163	19.1	20.9	19.7	18.9	20.7	19.2	20.6	20.3	19.9
TN93-258	20.4	22.1	21.7	22.7	22.1	20.5	23.0	22.2	21.8
J94-7	18.6	20.9	21.1	20.3	20.6	19.5	21.1	20.3	20.3

TABLE 29B - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1996.

STRAIN/ VARIETY	PITTS-		PORTAGE-		QUEENS-	STONE-	WARSAW		MEAN
	CORA IL	JACKSON TN	BURG KS	PLYMOUTH NC	VILLE MO (A)	TOWN MD	VILLE MS	VA	
HUTCHESON	20.2	22.0	23.2	20.9	21.8	20.1	22.4	20.9	21.4
MANOKIN	20.4	22.7	24.3	21.3	21.7	19.8	23.0	20.5	21.7
LS93-1089	18.8	21.3	20.5	19.8	20.3	19.4	23.1	19.8	20.4
MD93-5358	17.3	20.0	21.1	19.1	19.5	18.7	21.1	19.1	19.5
MD93-5668	19.6	21.4	21.5	19.5	20.7	19.7	22.3	19.9	20.6
MD93-5634	20.1	22.3	20.8	19.9	21.4	19.3	22.4	19.6	20.7
V92-1142	18.3	21.4	21.0	20.9	21.4	19.1	21.4	20.0	20.4
V92-974	19.3	20.0	20.6	19.4	20.2	18.8	20.9	19.3	19.8
V92-1182	19.6	20.6	22.2	20.4	21.6	19.6	22.2	20.2	20.8
V92-58	19.7	21.8	22.5	21.3	21.7	20.4	23.8	20.6	21.5
V92-254	20.4	22.4	22.9	21.4	21.0	20.3	22.8	20.9	21.5
K1362	19.1	22.2	22.7	19.9	21.5	19.9	21.8	20.3	20.9
K1363	17.9	21.9	20.9	19.6	20.5	18.8	22.8	19.6	20.3
K1364	20.4	22.3	22.6	21.4	21.5	20.4	22.8	20.4	21.5
K1365	18.3	20.5	22.1	20.1	20.4	19.9	22.2	19.7	20.4
K1366	20.1	20.8	23.0	21.2	22.0	19.4	22.6	20.3	21.2
R93-171	18.9	21.0	21.2	20.3	21.2	19.6	22.2	20.1	20.6
R92-1178	20.7	22.2	23.1	21.9	22.2	20.9	24.0	21.8	22.1
R92-736	19.4	22.0	22.8	21.3	21.2	19.8	23.2	20.3	21.3
R92-1327	19.2	21.3	21.7	19.9	20.9	19.6	21.3	20.2	20.5
R92-1279	18.0	22.1	22.9	21.3	22.1	20.0	22.9	20.4	21.2
OK91-5915	19.7	20.9	21.9	20.6	20.8	19.2	22.6	19.7	20.7
OK91-5630	19.6	21.3	20.8	20.7	21.0	19.8	21.9	20.8	20.7
OK91-6111	18.2	20.7	22.1	20.5	20.5	19.7	23.0	20.0	20.6

TABLE 30A - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1996.

STRAIN/ VARIETY	PITTS-		PORTAGE-		QUEENS-	STONE-	WARSAW VA	MEAN	
	CORA IL	JACKSON TN	BURG KS	PLYMOUTH NC	VILLE MO (A)	TOWN MD			VILLE MS
HUTCHESON	40.2	42.0	40.0	42.9	42.6	41.2	41.2	42.2	41.5
MANOKIN	41.5	44.0	40.2	42.3	43.0	42.1	42.5	41.8	42.2
S94-1956	41.0	42.7	39.9	42.4	42.3	41.5	41.6	40.8	41.5
S94-1515	40.8	42.8	40.7	42.7	42.1	41.5	40.1	41.4	41.5
S93-1591	38.9	43.5	41.0	44.1	43.8	42.1	42.9	42.2	42.3
S94-1808	39.7	43.8	40.7	42.2	42.7	40.9	42.0	41.6	41.7
S94-1867	38.6	43.8	40.5	43.0	42.4	42.5	42.2	42.4	41.9
F94-1233	41.7	45.6	42.3	43.8	44.9	42.6	44.4	41.7	43.4
F94-1259	42.0	47.3	43.1	46.5	46.4	43.2	48.0	45.0	45.2
F94-1291	40.9	44.4	39.8	41.5	42.0	41.9	43.9	41.0	41.9
NTCPR94-5237	41.1	43.1	39.1	43.4	42.8	42.3	41.8	41.4	41.9
NTCPR94-5551	43.5	45.0	40.1	44.7	44.3	44.5	43.6	42.7	43.6
N94-7394	44.6	45.8	42.4	48.0	45.6	43.5	45.1	46.2	45.2
PA15	43.6	45.1	42.1	48.6	45.7	44.8	45.6	45.6	45.1
N94-12	42.6	43.3	41.9	42.9	43.6	42.6	40.6	41.6	42.4
N94-193	42.5	42.9	41.9	44.9	41.9	43.4	42.7	44.9	43.1
N94-546	42.4	43.8	40.9	43.6	43.4	41.4	42.0	42.3	42.5
N94-208	42.0	42.5	41.6	41.1	40.5	42.0	39.9	41.9	41.4
TN93-74	44.1	44.3	41.5	45.9	44.1	43.6	42.9	41.6	43.5
TN93-99	41.9	42.7	39.8	42.5	41.1	41.0	42.3	40.9	41.5
TN93-102	39.3	42.6	39.4	43.1	41.7	41.6	41.5	40.7	41.2
TN93-163	41.5	43.1	42.1	45.0	43.6	42.6	42.0	42.8	42.8
TN93-258	40.1	41.2	39.9	41.6	41.2	40.5	40.2	39.6	40.5
J94-7	41.1	42.8	42.4	42.7	42.6	41.0	40.3	40.8	41.7

TABLE 30B - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1996.

STRAIN/ VARIETY	CORA IL	JACKSON TN	PITTS-		PORTAGE- VILLE MO (A)	QUEENS- TOWN MD	STONE- VILLE MS	WARSAW VA	MEAN
			BURG KS	PLYMOUTH NC					
HUTCHESON	41.0	42.3	39.7	42.7	41.7	40.4	41.8	41.8	41.4
MANOKIN	38.8	43.2	39.3	42.8	43.6	40.4	42.8	41.1	41.5
LS93-1089	41.0	43.2	43.8	43.1	43.7	40.3	40.4	42.1	42.2
MD93-5358	45.2	44.5	43.2	45.5	44.8	43.0	43.2	43.6	44.1
MD93-5668	42.4	44.2	43.6	46.8	44.1	43.1	43.7	43.3	43.9
MD93-5634	41.0	42.9	42.4	46.5	45.0	42.3	42.9	44.3	43.4
V92-1142	42.1	43.8	41.8	44.7	43.5	42.4	42.1	41.0	42.7
V92-974	41.7	43.2	41.3	43.6	43.9	42.6	43.1	43.3	42.8
V92-1182	40.1	42.2	40.7	44.8	43.9	41.8	42.3	41.2	42.1
V92-58	41.9	42.9	40.6	43.2	43.1	41.6	40.6	40.3	41.8
V92-254	40.8	42.3	39.7	43.5	40.8	41.6	41.5	42.0	41.5
K1362	41.1	42.2	39.6	43.5	42.8	40.9	42.3	41.0	41.7
K1363	43.4	43.8	40.1	45.1	44.5	42.8	43.2	42.7	43.2
K1364	40.0	44.0	40.0	44.2	43.1	42.2	43.7	42.2	42.4
K1365	43.0	45.1	42.2	45.0	46.1	41.5	42.7	43.7	43.7
K1366	38.3	44.8	38.8	41.8	42.3	40.7	41.4	40.5	41.1
R93-171	42.9	41.2	40.0	43.5	42.7	41.0	42.0	41.7	41.9
R92-1178	40.0	42.5	40.7	42.4	41.2	40.9	38.4	41.2	40.9
R92-736	41.5	44.5	41.3	45.8	44.0	42.6	45.1	43.0	43.5
R92-1327	42.2	43.1	40.7	45.0	43.1	42.8	43.3	42.2	42.8
R92-1279	45.6	44.6	41.6	44.6	44.4	43.2	43.2	44.0	43.9
OK91-5915	41.0	43.7	40.9	45.2	43.5	42.7	42.5	43.0	42.8
OK91-5630	41.9	45.0	41.1	46.2	44.9	42.3	41.1	43.7	43.3
OK91-6111	42.4	42.1	40.5	44.2	42.9	42.4	41.4	42.3	42.3

TABLE 31A - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1996.

STRAIN/ VARIETY	PITTS-				PORTAGE-	QUEENS-	WARSAW VA	MEAN
	BIXBY OK	CORA IL	BURG KS	PLYMOUTH NC	VILLE MO (A)	TOWN MD		
HUTCHESON	16.2	14.8	13.9	14.4	14.6	14.4	15.9	14.9
MANOKIN	14.2	13.1	12.0	11.4	12.0	12.2	14.1	12.7
S94-1956	14.6	14.1	12.1	13.1	13.9	13.7	17.0	14.1
S94-1515	16.0	13.5	11.5	12.2	12.6	13.6	15.4	13.5
S93-1591	12.2	9.3	10.1	9.9	10.5	10.4	11.3	10.5
S94-1808	11.6	11.0	9.8	10.6	11.1	11.6	13.0	11.2
S94-1867	18.9	15.5	14.4	16.5	15.5	16.8	19.8	16.8
F94-1233	15.5	14.3	13.9	13.0	13.0	16.0	16.6	14.6
F94-1259	14.5	12.5	11.9	13.9	12.3	14.7	16.5	13.7
F94-1291	15.3	15.1	17.3	16.9	14.7	16.5	18.8	16.4
NTCPR94-5237	18.6	16.5	15.8	15.9	15.5	17.1	19.2	16.9
NTCPR94-5551	13.2	10.5	9.7	10.1	10.8	11.1	13.4	11.3
N94-7394	8.5	7.3	7.3	7.4	7.5	7.9	8.8	7.8
PA15	13.4	12.2	10.9	13.5	12.9	13.6	14.3	13.0
N94-12	18.7	14.9	14.0	16.2	15.0	16.6	18.2	16.2
N94-193	15.5	12.7	15.0	13.9	15.8	14.5	15.8	14.7
N94-546	17.2	13.9	13.7	14.3	13.3	14.4	16.5	14.7
N94-208	16.2	14.4	13.9	15.2	14.8	14.4	17.1	15.1
TN93-74	13.2	12.3	11.4	13.7	11.7	12.9	14.6	12.8
TN93-99	15.4	13.8	12.3	13.9	14.6	14.3	14.9	14.2
TN93-102	15.1	14.7	12.9	14.0	14.0	14.9	15.8	14.5
TN93-163	14.3	12.5	7.4	10.9	12.4	12.4	13.7	11.9
TN93-258	14.6	12.2	12.8	10.9	12.0	12.2	12.0	12.4
J94-7	14.3	13.5	10.6	13.3	13.7	14.4	15.7	13.6

TABLE 31B - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1996.

STRAIN/ VARIETY	PITTS-			PORTAGE-		QUEENS-		MEAN
	BIXBY OK	CORA IL	BURG KS	PLYMOUTH NC	VILLE MO (A)	TOWN MD	WARSAW VA	
HUTCHESON	15.5	14.3	13.3	14.2	14.2	16.0	15.1	14.6
MANOKIN	15.3	12.2	12.3	11.7	12.0	13.9	12.7	12.9
LS93-1089	15.8	14.5	12.2	14.0	14.1	15.8	15.3	14.5
MD93-5358	15.3	12.2	12.3	13.2	13.1	14.9	14.5	13.6
MD93-5668	17.9	15.1	14.4	14.5	15.8	17.4	17.5	16.1
MD93-5634	15.5	13.6	14.3	14.1	15.4	15.0	15.9	14.8
V92-1142	14.3	12.7	11.3	13.2	13.0	12.9	14.2	13.1
V92-974	14.5	13.3	12.9	12.5	13.5	13.7	13.8	13.5
V92-1182	13.6	13.3	12.4	11.5	12.8	14.2	13.0	13.0
V92-58	15.4	14.6	13.2	13.3	12.7	13.8	14.0	13.8
V92-254	13.9	13.7	12.1	12.9	13.7	14.3	13.9	13.5
K1362	13.2	12.3	11.1	11.6	11.7	12.6	12.0	12.1
K1363	14.6	12.1	11.6	11.0	12.2	13.2	12.8	12.5
K1364	15.3	13.6	12.1	13.1	13.7	13.8	14.7	13.8
K1365	12.0	11.1	11.0	10.5	10.5	11.5	11.7	11.2
K1366	13.0	11.9	10.5	11.3	11.8	12.8	12.3	11.9
R93-171	15.7	14.9	14.4	14.3	13.8	16.0	14.6	14.8
R92-1178	13.8	13.5	11.4	11.9	12.9	13.2	13.7	12.9
R92-736	14.7	12.5	11.3	12.2	12.4	13.5	13.4	12.9
R92-1327	14.0	12.6	12.0	11.8	12.4	13.2	13.1	12.7
R92-1279	12.1	10.3	10.1	10.0	10.6	11.1	11.6	10.8
OK91-5915	15.3	14.3	12.7	13.7	13.7	15.5	16.2	14.5
OK91-5630	16.7	13.5	14.6	12.9	13.2	15.2	14.2	14.3
OK91-6111	19.0	14.1	15.1	13.8	13.9	16.2	15.4	15.4

TABLE 32A - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1996.

STRAIN/ VARIETY	BIXBY OK	CORA IL	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGE-	QUEENS-	STONEVILLE MS	WARSAW VA	MEAN
							VILLE MO (A)	TOWN MD			
HUTCHESON	22	34	16	27	34	32	33	33	19	34	28
MANOKIN	23	36	13	29	36	30	28	33	21	35	28
S94-1956	21	31	14	24	26	27	24	31	19	34	25
S94-1515	26	33	11	37	38	32	36	34	21	38	31
S93-1591	29	31	11	31	37	35	35	34	20	41	30
S94-1808	26	40	11	34	42	34	36	39	23	40	32
S94-1867	39	44	16	35	44	32	43	43	26	52	37
F94-1233	38	30	14	34	39	32	26	33	28	33	31
F94-1259	37	41	12	36	35	36	36	41	30	38	34
F94-1291	31	33	16	35	42	26	34	36	28	36	32
NTCPR94-5237	26	38	16	27	33	27	26	30	20	34	28
NTCPR94-5551	26	31	11	28	35	32	31	30	20	34	28
N94-7394	25	35	7	28	37	27	32	38	19	37	28
PA15	39	51	14	55	44	55	56	50	51	62	48
N94-12	33	30	15	31	38	36	39	39	23	45	33
N94-193	33	27	14	39	36	35	43	41	35	43	34
N94-546	25	34	13	29	34	32	28	37	18	36	28
N94-208	25	32	17	23	30	26	25	30	18	34	26
TN93-74	25	35	12	26	27	26	25	32	18	32	26
TN93-99	22	36	15	30	29	31	28	31	19	34	27
TN93-102	25	35	16	31	32	33	29	32	19	36	29
TN93-163	22	38	13	29	30	36	33	36	19	37	29
TN93-258	24	30	12	27	34	26	30	31	17	33	26
J94-7	24	39	14	34	33	31	31	35	21	44	30

TABLE 32B - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1996.

STRAIN/ VARIETY	BIXBY OK	CORA IL	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGE-	QUEENS-	STONEVILLE MS	WARSAW VA	MEAN
							VILLE MO (A)	TOWN MD			
HUTCHESON	21	32	16	32	33	32	29	30	20	32	28
MANOKIN	25	35	12	26	35	33	33	34	20	32	28
LS93-1089	23	31	14	26	30	27	24	29	19	33	25
MD93-5358	25	28	13	29	30	30	27	36	20	29	27
MD93-5668	29	43	18	45	39	41	47	42	49	42	39
MD93-5634	27	41	15	38	33	38	43	36	48	38	36
V92-1142	27	30	14	22	29	24	25	26	19	30	25
V92-974	30	33	15	28	34	33	31	35	20	30	29
V92-1182	31	38	14	22	35	36	33	35	20	35	30
V92-58	33	37	15	30	41	34	33	32	21	34	31
V92-254	26	36	14	28	32	31	31	34	18	30	28
K1362	25	32	12	24	28	27	24	31	18	30	25
K1363	28	34	13	26	35	30	29	28	19	34	28
K1364	25	33	15	24	31	24	24	27	18	29	25
K1365	29	38	11	28	33	31	29	33	18	36	28
K1366	28	34	13	25	33	30	29	28	19	32	27
R93-171	30	39	17	32	34	37	33	37	20	35	31
R92-1178	29	36	14	31	35	34	35	31	23	32	30
R92-736	33	37	13	32	39	33	32	34	21	36	31
R92-1327	31	27	14	29	38	34	40	37	21	35	30
R92-1279	28	32	11	28	32	33	26	32	20	33	27
OK91-5915	27	36	15	24	33	30	25	32	20	33	27
OK91-5630	28	32	14	30	35	31	27	33	18	33	28
OK91-6111	31	37	15	29	34	33	31	35	21	34	30

TABLE 33A - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1996.

STRAIN/ VARIETY	BIXBY OK	CORR IL	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGE-	QUEENS-	STONEVILLE MS	WARSAW VA	MEAN
							VILLE MO (A)	TOWN MD			
HUTCHESON	0	4	2	1	1	4	1	4	2	5	2
MANOKIN	2	5	2	1	3	4	1	4	2	4	3
S94-1956	0	1	3	1	1	3	1	3	2	4	2
S94-1515	0	2	3	1	1	4	1	4	2	4	2
S93-1591	0	4	3	1	3	4	2	4	2	4	3
S94-1808	1	3	3	2	2	4	2	4	2	4	3
S94-1867	2	1	2	2	2	3	3	4	2	4	2
F94-1233	2	3	2	4	3	5	2	4	3	5	3
F94-1259	2	3	2	4	2	5	2	4	2	4	3
F94-1291	4	4	4	4	3	5	4	4	3	5	4
NTCPR94-5237	0	2	2	1	2	4	1	3	2	5	2
NTCPR94-5551	2	5	2	3	3	5	2	4	2	5	3
N94-7394	1	4	2	2	2	4	2	4	2	4	3
PA15	0	4	4	2	2	4	2	4	3	5	3
N94-12	0	4	3	1	2	4	1	4	2	4	2
N94-193	0	4	3	2	2	4	3	4	2	4	3
N94-546	0	4	2	1	1	4	1	4	2	4	2
N94-208	0	1	2	1	1	4	1	3	2	4	2
TN93-74	0	2	2	1	1	4	1	3	2	4	2
TN93-99	0	4	2	1	1	4	2	4	2	5	3
TN93-102	0	4	2	1	1	4	2	4	2	5	2
TN93-163	0	3	3	1	1	4	1	3	2	4	2
TN93-258	0	3	3	1	2	5	2	4	2	5	3
J94-7	0	4	2	2	1	4	1	4	2	4	2

TABLE 33B - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1996.

STRAIN/ VARIETY	BIXBY OK	CORA IL	JACKSON TN	KEISER AR	PITTSBURG KS	PLYMOUTH NC	PORTAGE-	QUEENS-	STONEVILLE MS	WARSAW VA	MEAN
							VILLE MO (A)	TOWN MD			
HUTCHESON	0	4	2	1	1	4	1	4	2	4	2
MANOKIN	1	4	2	2	2	4	2	4	2	3	3
LS93-1089	0	1	2	1	1	4	1	3	2	3	2
MD93-5358	0	4	3	2	2	4	1	4	2	3	3
MD93-5668	0	3	3	2	1	3	1	3	2	3	2
MD93-5634	0	2	2	2	1	3	1	3	2	3	2
V92-1142	0	2	2	1	1	4	1	3	2	3	2
V92-974	0	2	2	1	1	4	1	3	2	3	2
V92-1182	1	2	1	1	2	4	1	4	2	4	2
V92-58	1	3	2	2	1	4	1	4	2	3	2
V92-254	0	4	2	1	1	5	1	4	2	4	2
K1362	0	1	2	1	1	3	1	2	2	2	2
K1363	1	4	2	1	1	4	1	4	2	4	2
K1364	1	2	2	1	1	3	1	2	2	2	2
K1365	1	5	2	1	2	4	1	4	2	4	2
K1366	0	2	2	1	1	4	1	3	2	5	2
R93-171	1	5	3	2	2	4	2	4	2	4	3
R92-1178	0	4	3	2	1	5	2	3	2	5	3
R92-736	0	4	2	2	2	5	2	4	2	4	3
R92-1327	0	3	3	2	1	4	2	4	2	3	2
R92-1279	0	3	2	2	1	3	1	4	2	3	2
OK91-5915	0	1	3	1	1	4	1	4	2	3	2
OK91-5630	0	2	2	1	1	4	1	3	2	3	2
OK91-6111	0	1	3	2	2	4	1	4	2	3	2

TABLE 34A - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1996.

STRAIN/ VARIETY	CORA	PITTSBURG	PLYMOUTH	PORTAGE-	QUEENS-	STONE-	WARSAW	MEAN
	IL	KS	NC	VILLE MO (A)	TOWN MD	VILLE MS	VA	
HUTCHESON	1	1	2	1	1	2	2	1
MANOKIN	2	2	2	1	2	2	2	2
S94-1956	1	2	2	2	2	2	2	2
S94-1515	2	2	2	2	2	2	2	2
S93-1591	1	2	2	2	2	2	2	2
S94-1808	1	2	2	2	2	2	2	2
S94-1867	1	2	2	2	1	2	2	2
F94-1233	2	1	3	2	2	3	2	2
F94-1259	1	1	2	2	2	2	2	2
F94-1291	3	2	2	2	2	2	2	2
NTCPR94-5237	1	2	2	2	1	2	2	2
NTCPR94-5551	1	1	3	1	1	2	1	1
N94-7394	1	1	2	1	1	2	1	1
PA15	2	1	3	2	2	3	3	2
N94-12	1	2	3	2	2	3	2	2
N94-193	1	1	2	1	2	2	3	2
N94-546	1	1	3	2	2	3	2	2
N94-208	1	2	2	2	2	3	2	2
TN93-74	1	1	2	2	1	2	2	2
TN93-99	1	1	2	2	1	2	2	2
TN93-102	1	1	2	2	1	2	2	2
TN93-163	1	1	2	2	1	2	2	2
TN93-258	1	1	2	2	1	2	2	2
J94-7	1	1	2	1	1	2	2	1

TABLE 34B - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1996.

STRAIN/ VARIETY	CORA	PITTSBURG	PLYMOUTH	PORTAGE-	QUEENS-	STONE-	WARSAW	MEAN
	IL	KS	NC	VILLE MO (A)	TOWN MD	VILLE MS	VA	
HUTCHESON	1	1	2	1	1	2	2	1
MANOKIN	1	2	2	1	1	2	2	2
LS93-1089	1	2	3	2	1	2	2	2
MD93-5358	1	1	3	2	1	2	2	2
MD93-5668	1	2	2	1	1	2	2	2
MD93-5634	1	2	3	1	1	2	2	2
V92-1142	1	2	2	1	1	3	2	2
V92-974	1	1	2	1	1	2	2	1
V92-1182	2	1	2	1	1	2	2	1
V92-58	1	1	3	1	1	2	2	2
V92-254	1	1	3	2	1	2	2	2
K1362	1	2	2	1	1	3	1	2
K1363	1	2	2	2	1	2	2	2
K1364	1	1	2	2	1	2	2	2
K1365	1	2	3	2	1	2	2	2
K1366	1	1	2	1	3	2	2	2
R93-171	1	1	3	1	1	3	2	2
R92-1178	1	1	3	2	1	2	2	2
R92-736	1	2	2	1	2	2	2	2
R92-1327	1	1	2	2	1	2	2	2
R92-1279	1	1	3	1	1	2	2	2
OK91-5915	1	1	2	2	2	2	2	2
OK91-5630	1	2	2	2	1	2	1	2
OK91-6111	1	1	3	2	1	3	2	2

UNIFORM GROUP VI

1996

Uniform Group VI nurseries were planted at 26 locations. Data were obtained from 23 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, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. BRIM	YOUNG	X	N77-1102	F7
2. DILLON	CENTENNIAL	X	YOUNG	F5
3. R92-1258	HUTCHESON	X	WALTERS	F5
4. G89-2223	G81-152	X	COKER 6738	F7
5. G89-300	HUTCHESON	X	COLQUITT	F7
6. G91-291	CO82-622	X	BRYAN	F5
7. SC90-2089	COKER 6847	X	HUTCHESON	F5
8. SC91-2007	NK' S 83-30	X	HUTCHESON	F5
9. SC92-549	PIONEER 9581	X	COKER 6738	F5
10. OK89-5618	COKER 156	X	ESSEX	
11. S93-1631	A5979	X	S90-1818	F5
12. N92-598	N85-492	X	N84-507	F6
13. N93-132	BRIM	X	(N87-2117-3 X BRIM)	F6
14. N93-430	BRIM	X	STONEWALL	F6
15. AU92-3414	G83-969	X	N86-491	
16. AU92-763	G83-198	X	AU85-1088	
17. AU90-585	AU82-589	X	HUTCHESON	
18. TN93-142	HUTCHESON	X	(TN85-55 X TN83-26)	

TABLE 36 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI, 1996.

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1996	95-96	94-96	1996	95-96	94-96	1996	94-96	94-96
1. BRIM	46.8	43.9	44.9	45.5	44.3	44.2	20.2	20.2	20.2
2. DILLON	46.9	44.1	.	44.0	43.4	.	20.9	20.7	.
3. R92-1258	47.6	.	.	42.6	.	.	21.6	.	.
4. G89-2223	46.7	44.1	45.4	45.3	44.1	44.0	21.2	21.1	21.0
5. G89-300	45.2	43.0	44.1	41.9	41.1	41.2	21.5	21.1	21.0
6. G91-291	46.8	.	.	42.3	.	.	21.3	.	.
7. SC90-2089	45.0	44.0	44.8	44.6	44.0	44.1	19.7	19.8	19.8
8. SC91-2007	47.6	44.8	.	43.7	43.1	.	21.1	21.0	.
9. SC92-549	42.9	.	.	42.6	.	.	20.8	.	.
10. OK89-5618	39.9	.	.	42.9	.	.	22.3	.	.
11. S93-1631	43.6	.	.	43.9	.	.	20.2	.	.
12. N92-598	45.9	43.0	.	41.6	41.2	.	23.3	22.6	.
13. N93-132	46.1	.	.	44.6	.	.	21.7	.	.
14. N93-430	43.0	.	.	44.5	.	.	21.0	.	.
15. AU92-3414	47.0	.	.	44.4	.	.	20.3	.	.
16. AU92-763	47.6	.	.	42.3	.	.	21.9	.	.
17. AU90-585	46.5	44.4	45.4	43.8	43.1	43.1	20.8	20.6	20.5
18. TN93-142	47.0	.	.	42.9	.	.	20.6	.	.

†Data from Whiteville, NC, Beaumont, TX, Baton Rouge, LA (1996); Rohwer, AR, Kinston, NC (1994) not included in mean.

BOTANICAL TRAITS

STRAIN/ VARIETY	FL. COLOR	MAT. DATE	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
1. BRIM	W	0.0	2.1	37.7	1.9	13.3	G	Br
2. DILLON	P	-1.7	1.6	34.7	1.8	14.9	G	T
3. R92-1258	S	-0.9	1.6	34.8	1.8	15.2	G	T
4. G89-2223	W	3.2	2.3	31.2	1.8	13.5	T	T
5. G89-300	P	3.5	1.7	34.5	1.9	15.7	T	T
6. G91-291	P	3.6	2.1	36.3	1.8	15.3	G	T
7. SC90-2089	W	3.3	2.1	32.6	1.8	13.4	G	T
8. SC91-2007	W	5.8	2.0	38.4	1.5	14.7	G	T
9. SC92-549	W	10.6	2.0	39.0	1.8	16.6	T	T
10. OK89-5618	P	-0.5	1.9	33.0	2.1	15.6	T	T
11. S93-1631	W	-2.1	1.8	30.7	2.0	12.3	G	T
12. N92-598	P	-0.5	1.5	28.3	2.4	16.3	G	Br
13. N93-132	W	1.4	2.1	38.9	1.8	15.1	G	Br
14. N93-430	W	2.7	1.6	34.1	1.9	16.0	T	T
15. AU92-3414	S	-0.8	1.8	31.7	1.9	13.4	G	T
16. AU92-763	W	1.1	1.6	29.5	1.7	11.5	S	T
17. AU90-585	P	3.9	2.1	33.3	1.8	12.2	G	T
18. TN93-142	S	0.7	1.6	32.1	2.1	15.9	G	T

TABLE 36 - (Continued).

PEST REACTIONS									
STRAIN/ VARIETY	STEM CANKER	M. a. GA	M. a. TN	M. i. GA	M. i. TN	SCN 3	SCN 5	SCN 14	
1. BRIM	S	3.8	4.0	5.0	5.0	4.9	5.0	5.0	
2. DILLON	S	3.3	4.0	1.0	2.7	4.8	5.0	5.0	
3. R92-1258	R	4.3	4.3	4.8	3.8	4.8	5.0	5.0	
4. G89-2223	R	3.3	2.5	1.0	2.7	1.1	2.2	5.0	
5. G89-300	R	4.5	4.3	1.5	3.2	4.8	5.0	5.0	
6. G91-291	R	4.3	4.2	1.0	2.8	1.0	2.5	5.0	
7. SC90-2089	R	3.5	4.8	2.0	4.2	1.0	5.0	5.0	
8. SC91-2007	R	3.5	4.0	2.8	4.3	1.7	3.7	4.9	
9. SC92-549	S	2.5	3.3	1.3	2.6	1.4	5.0	4.7	
10. OK89-5618	S	3.5	4.0	1.0	3.2	1.3	5.0	4.8	
11. S93-1631	S	3.5	4.8	4.8	5.0	1.0	4.9	2.8	
12. N92-598	S	3.5	4.7	4.0	3.8	5.0	5.0	5.0	
13. N93-132	R/S	3.8	5.0	5.0	4.3	4.9	5.0	5.0	
14. N93-430	S	4.0	4.3	4.0	3.8	5.0	5.0	5.0	
15. AU92-3414	S	3.8	4.2	1.5	3.8	5.0	4.3	5.0	
16. AU92-763	S	4.3	4.3	1.0	3.8	1.0	3.7	5.0	
17. AU90-585	R	3.8	4.0	3.0	4.0	5.0	5.0	5.0	
18. TN93-142	R	5.0	4.7	3.8	4.0	1.0	5.0	3.5	

TABLE 37 - SEED YIELD, IN BUSHELS PER ACRE FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1996.

STRAIN/ VARIETY	EAST				MEAN
	FLORENCE SC	PLYMOUTH NC	WARSAW VA	WHITEVILLE NC†	
BRIM	32.5	44.7	49.3	47.6	42.2
DILLON	31.8	43.9	53.9	48.0	43.2
R92-1258	33.4	42.0	56.2	39.0	43.9
G89-2223	33.4	44.1	47.4	34.8	41.6
G89-300	28.3	43.0	50.8	40.8	40.7
G91-291	35.7	41.7	50.1	49.9	42.5
SC90-2089	37.5	37.4	42.2	43.8	39.1
SC91-2007	44.7	38.9	51.8	45.6	45.1
SC92-549	36.6	41.7	47.4	35.9	41.9
OK89-5618	35.0	37.2	50.5	41.8	40.9
S93-1631	35.3	37.7	54.2	33.3	42.4
N92-598	30.2	41.7	54.3	51.4	42.1
N93-132	33.0	43.0	52.5	41.5	42.8
N93-430	31.3	42.4	50.1	44.4	41.3
AU92-3414	27.8	42.5	57.0	42.1	42.4
AU92-763	41.0	38.9	51.3	46.2	43.7
AU90-585	34.1	43.6	50.2	38.3	42.6
TN93-142	41.2	37.8	51.1	45.0	43.4
L. S. D. (0.05)	4.0	7.3	5.7	14.1	.
C. V. (%)	6.9	10.7	6.7	19.2	.

†Not included in mean.

TABLE 37 - (Continued).

STRAIN/ VARIETY	SOUTH												MEAN
	ATHENS GA	BATON ROUGE LA†	BELLE MINA AL	BLACK- VILLE SC	CALHOUN GA	CLEMSON SC	FAIR- HOPE AL	JAY FL	STARK- VILLE MS	SUFFOLK VA	TALLAS- SEE AL	TIFTON GA	
BRIM	54.4	51.3	44.8	30.9	54.3	41.7	51.9	40.4	46.9	37.0	48.8	51.9	45.7
DILLON	52.6	56.1	50.1	32.5	56.5	37.5	50.4	33.4	46.0	38.6	52.3	47.1	45.2
R92-1258	48.0	57.3	46.6	34.0	49.8	40.1	54.5	37.4	53.2	41.6	57.7	47.8	46.4
G89-2223	57.3	54.0	49.5	27.7	57.0	34.1	55.4	35.4	46.7	49.0	50.0	46.8	46.3
G89-300	52.1	38.5	48.9	27.7	47.7	39.4	55.0	34.2	38.9	37.3	54.7	50.0	44.2
G91-291	53.2	55.3	47.8	28.0	52.9	36.7	53.2	29.1	51.5	43.0	54.6	61.7	46.5
SC90-2089	51.2	46.6	46.7	31.0	49.4	39.6	50.5	27.1	50.0	45.0	35.5	65.7	44.7
SC91-2007	46.7	56.4	48.4	27.9	49.7	39.4	55.1	34.2	52.1	38.9	50.1	59.9	45.7
SC92-549	49.0	54.0	47.3	24.0	45.5	38.1	55.3	31.8	33.3	31.6	50.4	49.1	41.4
OK89-5618	45.8	35.0	41.4	25.5	50.0	36.3	43.6	33.4	26.9	39.7	42.0	34.2	38.1
S93-1631	48.7	37.2	46.9	29.4	53.6	32.8	53.2	36.9	35.4	31.6	56.9	40.0	42.3
N92-598	45.5	58.7	44.8	38.3	60.3	32.2	52.2	41.3	38.6	42.4	54.5	39.7	44.5
N93-132	46.5	57.8	43.1	31.2	49.2	45.0	55.5	36.5	50.1	40.1	46.3	47.0	44.6
N93-430	49.0	46.9	46.0	25.1	48.0	42.7	49.1	36.5	46.8	35.9	52.2	40.5	42.9
AU92-3414	53.7	61.1	46.0	35.2	57.4	41.4	54.7	40.9	49.0	31.5	53.2	43.5	46.1
AU92-763	60.4	60.7	48.6	24.9	57.2	35.3	51.2	38.1	43.8	46.8	53.7	54.3	46.8
AU90-585	49.8	62.9	43.2	31.7	47.0	39.6	55.4	39.3	44.9	38.4	53.3	59.4	45.6
TN93-142	47.1	41.0	49.6	34.0	53.8	29.4	51.5	37.4	43.7	41.8	48.4	43.8	43.7
L. S. D. (0.05)	7.1	19.4	9.5	3.2	9.9	10.4	5.0	N. S.	5.9	11.5	7.6	12.8	.
C. V. (%)	8.4	22.6	12.3	6.4	11.4	16.6	5.7	17.4	8.0	16.4	9.0	12.0	.

†Not included in mean.

TABLE 37 - (Continued).

DELTA				
STRAIN/ VARIETY	PORTAGEVILLE MO (A)	ROHWER AR	STONEVILLE MS	MEAN
BRIM	55.8	54.5	54.5	54.9
DILLON	55.1	57.8	58.1	57.0
R92-1258	54.1	58.2	57.2	56.5
G89-2223	61.7	45.2	41.4	49.4
G89-300	51.2	52.7	47.3	50.4
G91-291	52.6	50.7	45.2	49.5
SC90-2089	54.2	51.0	39.6	48.3
SC91-2007	53.5	56.1	46.2	51.9
SC92-549	54.1	45.8	36.6	45.5
OK89-5618	47.1	49.2	27.8	41.4
S93-1631	58.2	48.8	46.4	51.1
N92-598	60.1	57.4	59.6	59.0
N93-132	58.4	57.6	42.8	52.9
N93-430	53.0	50.2	30.9	44.7
AU92-3414	56.9	51.8	52.5	53.7
AU92-763	53.8	48.1	55.7	52.6
AU90-585	58.2	54.5	37.7	50.2
TN93-142	54.1	56.8	53.3	54.7
L. S. D. (0.05)	4.2	8.4	6.0	.
C. V. (%)	4.6	9.7	7.8	.

WEST					
STRAIN/ VARIETY	BEAUMONT TX†	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	MEAN
BRIM	25.8	29.6	56.3	56.6	47.5
DILLON	17.5	29.4	58.1	52.4	46.6
R92-1258	17.5	31.5	59.2	48.6	46.4
G89-2223	16.0	33.5	58.4	59.2	50.4
G89-300	22.5	30.6	57.3	56.2	48.0
G91-291	20.5	33.0	61.6	54.6	49.7
SC90-2089	5.9	33.6	60.7	52.0	48.8
SC91-2007	13.9	35.5	67.3	55.6	52.8
SC92-549	29.4	28.7	58.3	52.3	46.4
OK89-5618	8.1	32.5	53.4	45.6	43.8
S93-1631	24.0	37.4	32.6	55.3	41.8
N92-598	8.8	34.3	35.9	55.5	41.9
N93-132	31.7	33.6	56.2	53.8	47.9
N93-430	13.0	30.3	47.5	53.4	43.7
AU92-3414	10.6	32.1	56.7	55.8	48.2
AU92-763	17.2	39.8	56.7	51.8	49.4
AU90-585	13.1	35.7	59.8	53.5	49.7
TN93-142	21.6	36.5	70.4	59.0	55.3
L. S. D. (0.05)	7.4	.	.	6.3	.
C. V. (%)	25.4	.	.	6.8	.

†Not included in Mean.

TABLE 38 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1996.

STRAIN/ VARIETY	OIL PERCENTAGE																			MEAN
	ATHENS GA	BEAU- MONT TX	BIXBY OK	BLACK- VILLE SC	CAL- HOUN GA	CLEM- SON SC	FAIR- HOPE AL	FLORENCE SC	JAY FL	PLY- MOUTH NC	PORTAGE- VILLE MO (A)	STARK- VILLE MS	STONE- VILLE MS	SUFFOLK VA	TALLAS- SEE AL	TIFTON GA	WARSAW VA	WHITE- VILLE NC		
BRIM	20.7	20.2	.	21.9	.	18.0	21.1	19.0	21.0	20.5	20.2	19.0	19.7	20.2	21.0	21.5	18.8	19.1	20.2	
DILLON	22.1	22.7	.	22.0	.	19.7	21.3	19.7	22.4	21.4	20.6	19.5	20.9	20.2	20.6	22.6	20.0	20.0	20.9	
R92-1258	22.3	21.6	.	22.9	.	19.9	22.3	20.4	21.9	21.7	21.5	20.6	22.0	21.2	21.6	23.9	20.6	20.0	21.6	
G89-2223	22.6	23.0	.	22.4	.	18.3	21.5	20.6	21.5	21.5	20.1	20.2	22.0	20.0	21.3	24.5	19.9	20.4	21.2	
G89-300	22.5	21.3	.	22.6	.	19.5	21.1	21.1	22.2	21.9	21.5	20.1	21.7	21.7	21.1	23.1	20.2	20.7	21.5	
G91-291	22.4	21.6	.	22.5	.	20.4	22.3	20.6	23.0	21.4	20.3	19.7	21.7	20.6	20.7	22.6	19.5	20.1	21.3	
SC90-2089	20.1	19.9	.	20.7	.	17.9	19.5	18.4	25.0	19.5	19.1	17.5	19.4	18.8	19.4	21.4	18.7	19.0	19.7	
SC91-2007	21.7	20.4	.	23.0	.	18.4	21.3	21.0	20.9	22.0	20.7	18.8	21.1	21.0	21.7	23.4	20.2	20.4	21.1	
SC92-549	21.2	21.3	.	21.4	.	18.1	22.5	20.4	22.1	21.5	19.5	21.0	21.0	19.9	21.6	23.3	17.9	19.7	20.8	
OK89-5618	23.0	24.1	.	22.7	.	20.1	23.6	21.9	20.9	21.9	21.5	22.2	23.6	21.3	23.4	25.0	20.5	21.9	22.3	
S93-1631	20.3	21.6	.	22.0	.	17.8	21.4	19.3	21.2	19.8	19.2	19.3	20.7	19.3	19.9	23.1	19.1	19.6	20.2	
N92-598	25.1	24.8	.	24.8	.	21.9	24.3	23.2	20.6	23.2	23.2	22.1	24.4	22.9	24.1	25.6	21.3	23.6	23.3	
N93-132	22.5	22.2	.	23.5	.	21.1	22.2	20.3	22.9	21.7	21.3	19.6	22.1	21.0	23.3	22.9	19.7	21.4	21.7	
N93-430	22.0	20.8	.	23.6	.	18.2	21.4	19.8	22.4	21.2	20.9	19.5	21.0	21.3	21.6	22.0	19.7	21.1	21.0	
AU92-3414	21.3	22.5	.	21.5	.	19.0	20.6	19.3	20.6	19.9	19.6	19.3	20.6	20.2	20.5	22.9	19.1	19.7	20.3	
AU92-763	23.5	23.1	.	24.2	.	16.9	22.2	20.9	23.1	22.5	20.9	20.7	22.7	21.1	21.5	25.5	20.4	22.0	21.9	
AU90-585	21.4	20.7	.	23.0	.	19.8	21.5	20.1	21.2	20.4	20.6	18.9	20.2	21.2	20.2	22.1	19.9	19.7	20.8	
TN93-142	20.7	21.0	.	21.1	.	19.7	21.1	20.2	20.9	20.5	20.3	19.8	21.4	20.0	20.8	21.9	19.4	19.4	20.6	

STRAIN/ VARIETY	PROTEIN PERCENTAGE																			MEAN
	ATHENS GA	BEAU- MONT TX	BIXBY OK	BLACK- VILLE SC	CAL- HOUN GA	CLEM- SON SC	FAIR- HOPE AL	FLORENCE SC	JAY FL	PLY- MOUTH NC	PORTAGE- VILLE MO (A)	STARK- VILLE MS	STONE- VILLE MS	SUFFOLK VA	TALLAS- SEE AL	TIFTON GA	WARSAW VA	WHITE- VILLE NC		
BRIM	44.4	47.5	.	42.0	.	49.6	46.1	48.7	42.0	45.2	43.3	50.7	44.9	44.7	44.3	45.7	45.6	45.4	45.5	
DILLON	43.7	43.5	.	40.2	.	47.4	44.2	45.5	43.6	43.3	42.9	47.5	44.4	43.6	41.5	45.2	42.9	43.6	44.0	
R92-1258	42.5	46.2	.	39.9	.	45.6	43.4	42.5	42.8	40.5	41.2	45.3	42.8	42.9	42.8	42.3	41.7	43.1	42.6	
G89-2223	43.8	44.7	.	41.3	.	50.9	45.6	46.3	41.6	44.7	44.4	48.8	44.6	45.2	44.1	51.5	40.8	45.6	45.3	
G89-300	40.9	44.6	.	38.2	.	44.3	41.3	42.6	40.3	42.4	40.3	46.9	43.0	41.4	40.9	42.5	41.7	41.3	41.9	
G91-291	41.0	45.5	.	38.7	.	46.9	42.0	44.0	40.3	42.2	41.0	46.3	43.0	42.0	41.4	41.7	41.3	41.6	42.3	
SC90-2089	44.0	47.5	.	43.2	.	48.7	44.7	46.8	39.3	44.3	44.0	48.8	44.0	45.5	44.1	44.4	42.5	45.6	44.6	
SC91-2007	43.6	46.1	.	41.1	.	49.7	44.7	44.5	42.2	42.5	43.1	48.3	43.6	42.1	43.6	41.6	41.6	44.9	43.7	
SC92-549	41.7	43.8	.	38.2	.	49.7	41.9	43.0	41.3	42.4	42.5	44.5	43.5	40.7	41.6	41.4	43.5	44.0	42.6	
OK89-5618	42.2	43.2	.	40.1	.	48.4	44.0	44.0	40.0	42.7	41.2	45.7	42.5	42.4	42.8	44.2	39.8	42.6	42.9	
S93-1631	42.2	46.4	.	40.9	.	47.2	43.0	46.8	40.4	44.6	43.1	47.5	43.5	44.2	44.0	45.4	42.0	44.0	43.9	
N92-598	42.3	41.3	.	38.5	.	44.4	41.9	42.3	42.7	41.5	40.7	44.3	40.1	40.8	42.2	41.2	39.9	40.3	41.6	
N93-132	42.6	47.8	.	39.4	.	48.6	46.6	48.0	42.9	44.7	42.9	48.5	42.0	44.7	42.6	47.3	43.7	43.3	44.6	
N93-430	43.7	45.8	.	40.3	.	50.3	45.8	46.0	43.1	43.5	43.6	47.2	44.7	43.4	42.2	45.3	44.0	43.7	44.5	
AU92-3414	44.2	44.3	.	42.6	.	47.6	44.0	47.1	41.5	44.7	44.2	46.4	41.6	44.1	44.7	44.6	43.6	44.9	44.4	
AU92-763	40.7	42.6	.	38.7	.	48.4	43.1	43.5	40.1	42.0	41.4	45.3	41.3	41.3	42.3	41.9	41.8	41.5	42.3	
AU90-585	44.0	45.6	.	40.4	.	46.2	43.7	46.0	41.4	44.2	43.5	46.7	43.9	42.9	44.4	43.3	42.8	44.3	43.8	
TN93-142	41.7	42.1	.	41.3	.	45.5	43.7	44.3	40.8	43.3	42.0	46.9	42.7	40.8	42.8	41.9	43.2	43.1	42.9	

TABLE 38 - (Continued).

GRAMS PER 100 SEED

STRAIN/ VARIETY	BEAU-		BLACK-		CAL-	CLEM-		FAIR-	PLY-		PORTAGE-	STARK-	STONE-		TALLAS-		WARSAW		WHITE-		MEAN
	ATHENS GA	MONT TX	BIXBY OK	VILLE SC	HOUN GA	SON SC	HOPE AL	FLORENCE SC	JAY FL	MOUTH NC	VILLE MO (A)	VILLE MS	VILLE MS	SUFFOLK VA	SEE AL	TIFTON GA	VA VA	VA VA	NC NC	NC NC	
BRIM	12.9	12.2	14.3	10.0	13	12.0	13.1	12.6	16.0	11.7	12.5	.	.	12.9	13.0	18	14.3	12.4	13.3		
DILLON	16.1	13.3	16.6	11.5	15	13.8	14.3	14.1	15.0	13.8	13.4	.	.	13.1	15.1	20	16.1	14.2	14.9		
R92-1258	14.8	12.9	17.3	11.5	15	15.5	15.9	16.4	13.5	12.7	14.1	.	.	13.6	16.6	20	16.0	13.7	15.2		
G89-2223	13.1	11.4	16.4	10.5	15	13.5	13.2	13.1	13.0	12.5	12.1	.	.	12.2	13.1	16	15.4	12.4	13.5		
G89-300	15.1	13.1	17.3	11.2	16	14.4	15.2	15.8	17.0	15.4	13.9	.	.	14.8	15.8	20	17.4	14.4	15.7		
G91-291	14.7	13.3	17.3	10.9	16	15.1	15.4	14.5	16.0	13.9	14.0	.	.	13.9	15.4	21	16.6	14.6	15.3		
SC90-2089	12.8	12.1	14.8	9.8	14	12.1	12.9	12.6	14.0	12.5	12.9	.	.	12.4	13.4	19	14.1	12.3	13.4		
SC91-2007	13.4	11.9	16.2	10.9	15	14.4	13.8	15.8	17.0	13.6	13.9	.	.	13.8	15.2	16	16.6	12.9	14.7		
SC92-549	15.9	14.0	18.0	11.5	17	17.1	16.0	17.4	18.1	16.6	15.5	.	.	15.0	17.5	18	18.8	15.3	16.6		
OK89-5618	14.5	13.3	17.5	11.3	16	15.6	15.4	15.5	16.0	15.1	14.5	.	.	15.2	17.1	18	16.6	14.4	15.6		
S93-1631	12.8	10.8	13.3	9.5	12	12.5	11.2	11.5	14.5	10.8	11.1	.	.	11.2	13.0	16	13.2	10.8	12.3		
N92-598	16.8	13.9	18.0	12.2	17	14.7	17.3	16.3	17.2	13.6	15.1	.	.	15.2	17.5	20	17.8	14.6	16.3		
N93-132	13.0	12.9	16.4	11.9	15	13.7	15.3	15.0	18.4	12.8	14.6	.	.	14.0	15.2	20	16.1	13.2	15.1		
N93-430	15.0	13.6	16.8	11.9	16	16.5	15.9	16.1	17.0	15.1	14.6	.	.	16.0	16.5	19	17.8	14.5	16.0		
AU92-3414	14.1	12.2	13.7	10.4	14	13.0	13.2	13.3	15.3	12.7	12.4	.	.	11.5	13.1	16	14.5	12.6	13.4		
AU92-763	11.8	9.9	12.6	8.0	12	10.5	10.8	11.1	13.0	10.0	10.9	.	.	10.3	12.4	15	12.2	10.9	11.5		
AU90-585	12.1	12.5	12.7	9.6	12	11.1	12.6	11.5	14.0	10.6	11.3	.	.	11.1	13.2	16	13.3	11.2	12.2		
TN93-142	14.8	14.9	17.9	11.3	16	15.3	16.1	17.6	14.5	13.5	15.0	.	.	15.5	15.9	21	17.6	13.6	15.9		

TABLE 39 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BRIM FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1996.

STRAIN/ VARIETY	EAST					MEAN
	FLORENCE SC	PLYMOUTH NC	WARSAW VA	WHITEVILLE NC†		
BRIM	10/15	10/11	10/23	10/13	10/16	
DILLON	2	0	1	0	1	1
R92-1258	4	7	2	0	4	4
G89-2223	2	12	8	9	8	8
G89-300	2	10	2	9	5	5
G91-291	0	10	1	7	4	4
SC90-2089	0	10	-2	0	3	3
SC91-2007	5	10	4	7	6	6
SC92-549	9	17	10	14	12	12
OK89-5618	0	5	-2	0	1	1
S93-1631	0	0	1	7	1	1
N92-598	0	5	0	0	2	2
N93-132	1	7	1	7	3	3
N93-430	2	0	1	7	1	1
AU92-3414	1	0	1	0	1	1
AU92-763	1	0	1	9	1	1
AU90-585	2	12	1	7	5	5
TN93-142	3	0	3	7	2	2

†Not included in Mean.

TABLE 39 - (Continued).

STRAIN/ VARIETY	SOUTH												MEAN
	ATHENS GA	BATON ROUGE LA†	BELLE MINA AL	BLACK- VILLE SC	CALHOUN GA	CLEM- SON SC	FAIR- HOPE AL	JAY FL	STARK- VILLE MS	SUF- FOLK VA	TALLASSEE AL	TIFTON GA	
BRIM	10/14	10/24	10/14	10/04	10/06	10/12	10/03	10/17	09/30	10/15	10/15	10/10	10/10
DILLON	-4	-6	0	4	5	1	-1	-1	-7	4	-1	-6	-1
R92-1258	-2	1	0	2	4	2	2	0	-6	3	2	-9	0
G89-2223	1	-7	4	6	6	4	7	-1	3	9	1	-4	3
G89-300	1	-6	2	2	5	5	6	0	7	2	5	3	3
G91-291	1	-6	1	2	8	3	7	1	8	3	5	6	4
SC90-2089	2	-7	1	0	6	4	7	-1	9	5	2	5	3
SC91-2007	4	-5	3	7	10	8	8	0	11	6	6	6	6
SC92-549	6	0	11	13	.	11	13	5	13	9	9	7	10
OK89-5618	-1	-8	1	-3	0	1	0	5	-3	0	0	-2	0
S93-1631	-4	-6	1	0	2	2	1	2	-7	5	1	-10	-1
N92-598	-1	1	0	-2	7	-8	1	4	-7	2	4	-4	-1
N93-132	0	-6	0	-1	5	0	2	-1	3	3	1	-2	1
N93-430	2	-7	1	1	7	5	3	0	8	3	1	3	3
AU92-3414	-3	1	0	1	5	-1	2	4	0	3	-2	-9	0
AU92-763	1	-6	2	-3	11	2	5	0	-3	5	3	1	2
AU90-585	2	-6	1	3	7	3	7	0	3	4	5	-2	3
TN93-142	0	-5	1	-1	5	2	6	-1	-6	8	4	-4	1

†Not included in Mean.

TABLE 39 - (CONTINUED).

DELTA				
STRAIN/ VARIETY	PORTAGEVILLE	ROHWER	STONEVILLE	MEAN
	MO (A)	AR	MS	
BRIM	10/20	10/07	10/10	10/12
DILLON	-1	0	-13	-4
R92-1258	0	0	-11	-3
G89-2223	3	4	-11	-1
G89-300	5	3	3	4
G91-291	3	4	3	4
SC90-2089	0	4	3	3
SC91-2007	7	7	5	6
SC92-549	9	17	13	14
OK89-5618	-7	3	-7	-3
S93-1631	-6	0	-11	-5
N92-598	-9	0	2	-2
N93-132	1	0	2	1
N93-430	-2	5	3	2
AU92-3414	0	1	1	1
AU92-763	1	1	-10	-2
AU90-585	2	4	11	6
TN93-142	-1	1	-9	-3

WEST					
STRAIN/ VARIETY	BEAUMONT	BIXBY	BOSSIER CITY	STUTTART	MEAN
	TX†	OK	LA	AR	
BRIM	10/09	.	.	10/21	10/21
DILLON	-9	.	.	-12	-12
R92-1258	-8	.	.	-12	-12
G89-2223	-2	.	.	0	0
G89-300	3	.	.	0	0
G91-291	0	.	.	-2	-2
SC90-2089	-2	.	.	-3	-3
SC91-2007	0	.	.	-3	-3
SC92-549	8	.	.	0	0
OK89-5618	-3	.	.	0	0
S93-1631	-9	.	.	-12	-12
N92-598	-13	.	.	-4	-4
N93-132	0	.	.	1	1
N93-430	1	.	.	0	0
AU92-3414	-11	.	.	-13	-13
AU92-763	-3	.	.	1	1
AU90-585	-3	.	.	0	0
TN93-142	-6	.	.	0	0

†Not included in Mean.

TABLE 40 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1996.

STRAIN/ VARIETY	EAST				MEAN
	FLORENCE SC	PLYMOUTH NC	WARSAW VA	WHITEVILLE NC†	
BRIM	37	38	39	40	38
DILLON	38	38	38	33	38
R92-1258	36	38	36	37	37
G89-2223	31	33	34	32	33
G89-300	37	39	44	35	40
G91-291	42	39	39	38	40
SC90-2089	35	31	34	35	33
SC91-2007	42	35	42	38	40
SC92-549	39	39	42	38	40
OK89-5618	37	36	38	38	37
S93-1631	32	31	36	31	33
N92-598	28	27	35	33	30
N93-132	38	39	47	40	41
N93-430	33	38	43	36	38
AU92-3414	33	31	34	34	33
AU92-763	32	29	34	34	32
AU90-585	36	33	36	33	35
TN93-142	33	34	35	33	34

†Not included in Mean.

TABLE 40 - (Continued).

STRAIN/ VARIETY	SOUTH												MEAN
	ATHENS GA	BATON ROUGE LA†	BELLE MINA AL	BLACK- VILLE SC	CAL- HOUN GA	CLEM- SON SC	FAIR- HOPE AL	JAY FL	STARK- VILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON GA	
BRIM	39	37	36	45	47	36	37	32	32	31	46	28	37
DILLON	36	38	34	42	43	31	33	37	23	32	42	28	35
R92-1258	36	36	37	43	45	30	37	38	23	31	42	25	35
G89-2223	33	31	34	38	35	28	31	35	21	29	37	21	31
G89-300	37	37	38	42	37	33	34	35	22	32	40	22	34
G91-291	42	38	39	46	46	35	34	36	24	30	42	27	37
SC90-2089	37	36	35	37	42	31	28	35	25	28	34	25	32
SC91-2007	40	41	39	48	42	36	38	39	30	32	45	30	38
SC92-549	41	38	42	43	43	39	35	38	27	38	47	29	38
OK89-5618	35	29	37	44	38	34	30	37	18	29	38	19	33
S93-1631	35	34	36	38	37	30	29	30	20	24	38	21	31
N92-598	28	21	30	34	38	26	24	34	18	24	34	20	28
N93-132	41	42	36	46	39	39	40	31	37	37	52	30	39
N93-430	36	29	37	36	40	33	29	31	22	34	40	23	33
AU92-3414	33	35	31	40	36	31	28	33	24	28	38	26	32
AU92-763	33	33	28	37	40	26	29	30	22	26	36	22	30
AU90-585	38	35	36	39	39	34	31	31	25	28	43	25	34
TN93-142	33	33	35	39	41	28	29	35	24	26	35	25	32

†Not included in Mean.

TABLE 40 - (Continued).

DELTA					
STRAIN/ VARIETY	PORTAGEVILLE	ROHWER	STONEVILLE		MEAN
	MO (A)	AR	MS		
BRIM	48	35	41		41
DILLON	45	28	31		35
R92-1258	44	30	27		34
G89-2223	39	30	23		31
G89-300	47	32	24		34
G91-291	47	34	29		37
SC90-2089	44	30	25		33
SC91-2007	49	34	29		38
SC92-549	51	36	34		40
OK89-5618	45	33	15		31
S93-1631	36	29	27		31
N92-598	38	24	21		28
N93-132	50	37	41		43
N93-430	45	29	30		35
AU92-3414	41	29	25		32
AU92-763	35	24	21		27
AU90-585	42	33	24		33
TN93-142	41	28	27		32

WEST						
STRAIN/ VARIETY	BEAUMONT	BIXBY	BOSSIER CITY	STUTTGART		MEAN
	TX†	OK	LA	AR		
BRIM	20	30	38	41		36
DILLON	16	33	36	27		32
R92-1258	17	34	38	27		33
G89-2223	12	31	35	25		30
G89-300	15	31	36	30		32
G91-291	15	33	30	31		31
SC90-2089	12	31	40	25		32
SC91-2007	15	40	41	36		39
SC92-549	22	42	36	38		39
OK89-5618	13	32	34	32		33
S93-1631	16	34	30	21		28
N92-598	11	29	34	18		27
N93-132	19	33	36	30		33
N93-430	13	34	43	25		34
AU92-3414	13	35	34	23		31
AU92-763	14	35	30	21		29
AU90-585	13	34	33	27		31
TN93-142	16	33	38	23		31

†Not included in Mean.

TABLE 41 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1996.

STRAIN/ VARIETY	EAST				MEAN
	FLORENCE SC	PLYMOUTH NC	WARSAW VA	WHITEVILLE NC†	
BRIM	3	4	4	3	3
DILLON	2	4	3	3	3
R92-1258	2	4	3	3	3
G89-2223	4	4	5	3	4
G89-300	2	4	4	3	3
G91-291	3	4	4	3	4
SC90-2089	3	4	4	3	4
SC91-2007	3	4	3	3	3
SC92-549	3	4	4	3	4
OK89-5618	3	4	5	3	4
S93-1631	3	4	4	3	4
N92-598	2	4	4	3	3
N93-132	3	4	4	3	4
N93-430	2	4	3	3	3
AU92-3414	3	4	4	3	4
AU92-763	2	4	4	3	3
AU90-585	3	4	4	3	4
TN93-142	2	4	4	3	3

†Not included in Mean.

TABLE 41 - (Continued).

STRAIN/ VARIETY	SOUTH												MEAN
	ATHENS GA	BATON ROUGE LA†	BELLE MINA AL	BLACK- VILLE SC	CAL- HOUN GA	CLEM- SON SC	FAIR- HOPE AL	JAY FL	STARK- VILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON GA	
BRIM	2	3	2	2	3	1	1	2	2	2	2	1	2
DILLON	2	3	1	1	2	1	1	2	1	2	1	1	1
R92-1258	2	3	1	2	2	1	1	2	1	2	1	1	1
G89-2223	3	2	2	3	3	1	1	2	1	2	2	1	2
G89-300	2	2	1	1	2	1	1	1	1	2	1	1	1
G91-291	2	3	2	3	3	1	1	2	1	2	1	1	2
SC90-2089	2	2	1	3	2	1	1	2	1	2	2	1	2
SC91-2007	2	3	2	2	2	1	1	2	2	2	2	1	2
SC92-549	2	2	1	1	2	1	1	2	2	2	2	1	2
OK89-5618	2	1	2	1	2	1	1	2	1	2	1	1	1
S93-1631	2	2	2	1	2	1	1	2	1	2	1	1	1
N92-598	2	1	1	1	1	1	1	2	1	1	1	1	1
N93-132	2	3	2	3	3	1	1	3	2	1	2	1	2
N93-430	2	2	1	1	2	1	1	2	1	2	1	1	1
AU92-3414	2	3	1	1	2	1	1	2	1	2	1	1	1
AU92-763	2	2	1	1	2	1	1	2	1	2	1	1	1
AU90-585	2	3	2	3	2	1	1	2	2	2	2	1	2
TN93-142	2	2	2	2	2	1	1	1	1	2	1	1	1

†Not included in Mean.

TABLE 41 - (Continued).

DELTA					
STRAIN/ VARIETY	PORTAGEVILLE MO (A)	ROHWER AR	STONEVILLE MS		MEAN
BRIM	2	1	3		2
DILLON	1	1	2		1
R92-1258	2	1	2		2
G89-2223	3	1	2		2
G89-300	2	1	2		2
G91-291	3	1	2		2
SC90-2089	2	1	2		2
SC91-2007	2	1	3		2
SC92-549	2	1	2		2
OK89-5618	2	1	2		2
S93-1631	2	1	2		2
N92-598	1	1	2		1
N93-132	2	2	3		2
N93-430	2	1	2		2
AU92-3414	2	1	2		2
AU92-763	2	1	2		2
AU90-585	2	1	3		2
TN93-142	2	1	2		2

WEST						
STRAIN/ VARIETY	BEAUMONT TX†	BIXBY OK	BOSSIER CITY LA	STUTTGART AR		MEAN
BRIM	1	1	1	3		2
DILLON	1	.	1	2		1
R92-1258	1	.	1	2		1
G89-2223	1	.	4	2		2
G89-300	1	.	2	3		2
G91-291	1	.	2	3		2
SC90-2089	1	2	1	3		2
SC91-2007	1	1	2	3		2
SC92-549	1	1	2	3		2
OK89-5618	1	1	1	3		2
S93-1631	1	1	1	2		1
N92-598	1	.	1	1		1
N93-132	1	.	1	3		1
N93-430	1	.	1	2		1
AU92-3414	1	1	1	2		1
AU92-763	1	.	1	2		1
AU90-585	1	1	1	3		2
TN93-142	1	.	1	2		1

†Not included in Mean.

TABLE 42 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1996.

STRAIN/ VARIETY	EAST			MEAN
	PLYMOUTH NC	WARSAW VA	WHITEVILLE NC†	
BRIM	2	2	2	2
DILLON	2	1	2	2
R92-1258	2	1	2	2
G89-2223	2	2	2	2
G89-300	2	2	3	2
G91-291	2	2	2	2
SC90-2089	2	2	3	2
SC91-2007	2	1	2	2
SC92-549	2	2	3	2
OK89-5618	3	2	2	3
S93-1631	3	1	3	2
N92-598	3	2	2	3
N93-132	2	2	3	2
N93-430	2	2	3	2
AU92-3414	3	1	3	2
AU92-763	2	1	2	2
AU90-585	2	1	3	2
TN93-142	3	2	3	3

†Not included in Mean.

TABLE 42 - (Continued).

SOUTH										
STRAIN/ VARIETY	ATHENS GA	BATON ROUGE LA†	FAIRHOPE AL	CALHOUN GA	JAY FL	STARKVILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON GA	MEAN
BRIM	2	2	2	2	3	2	1	1	2	2
DILLON	2	1	2	2	2	2	1	1	3	2
R92-1258	2	2	1	2	3	2	1	1	2	2
G89-2223	2	1	1	1	3	2	1	1	2	2
G89-300	2	2	2	1	2	3	1	1	2	2
G91-291	2	1	1	1	3	2	1	1	2	2
SC90-2089	2	2	1	1	2	2	1	1	2	2
SC91-2007	2	2	1	2	1	2	1	1	1	1
SC92-549	2	1	2	1	2	2	1	1	1	2
OK89-5618	2	1	2	2	3	2	2	1	3	2
S93-1631	2	2	2	2	3	3	1	1	2	2
N92-598	3	3	2	1	3	2	2	1	4	2
N93-132	2	2	2	1	2	2	1	1	2	2
N93-430	2	1	2	2	3	2	1	1	2	2
AU92-3414	2	2	2	2	2	2	1	1	3	2
AU92-763	2	1	2	1	2	2	1	1	2	2
AU90-585	2	2	1	2	2	2	1	1	3	2
TN93-142	2	2	1	1	2	3	2	1	3	2

†Not included in Mean

TABLE 42 - (Continued).

DELTA

STRAIN/ VARIETY	PORTAGEVILLE	STONEVILLE	MEAN
	MO (A)	MS	
BRIM	2	2	2
DILLON	2	2	2
R92-1258	2	2	2
G89-2223	2	2	2
G89-300	2	3	3
G91-291	2	3	3
SC90-2089	2	3	3
SC91-2007	2	2	2
SC92-549	3	2	3
OK89-5618	2	2	2
S93-1631	2	2	2
N92-598	2	3	3
N93-132	2	2	2
N93-430	2	2	2
AU92-3414	2	2	2
AU92-763	2	2	2
AU90-585	2	2	2
TN93-142	2	2	2

WEST

STRAIN/ VARIETY	BEAUMONT
	TX
BRIM	2
DILLON	2
R92-1258	2
G89-2223	2
G89-300	2
G91-291	2
SC90-2089	2
SC91-2007	2
SC92-549	2
OK89-5618	2
S93-1631	3
N92-598	2
N93-132	2
N93-430	2
AU92-3414	2
AU92-763	2
AU90-585	2
TN93-142	2

PRELIMINARY GROUP VI**1996**

Preliminary Group VI nurseries were planted at 11 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 43A - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIA, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. BRIM	YOUNG	X	N77-1102	F7
2. DILLON	CENTENNIAL	X	YOUNG	F5
3. TN690	A5474	X	TN82-94	F5
4. TSB93-1083	STONEWALL	X	THOMAS	F5
5. R93-151	ASGROW A5403	X	HUTCHESON	
6. R93-164	ASGROW A5403	X	HUTCHESON	
7. R90-149	D83-3349	X	ASGROW A5474	
8. G92-2313	C082-622	X	G83-12	F6
9. G92-2219	C082-622	X	BRIM	F6
10. G92-2381	C082-622	X	G83-12	F6
11. G92-1110	BRYAN	X	CO6727	F5
12. G92-1563	DOLES	X	CO6727	F5
13. S94-1541	A5979	X	HARTWIG	F5
14. S93-1344	A6785	X	HARTWIG	F5
15. S94-1712	HARTWIG	X	KE518	F5
16. S94-1873	P9592	X	S91-1693	F5
17. S94-2035	P9592	X	HARTWIG	F6
18. N94-556	HOLLADAY	X	BRIM	F6
19. N94-515	COOK	X	CLIFFORD	F6
20. N94-782	N89-1026	X	CLIFFORD	F5
21. N94-3405	N87-539	X	HARTWIG	F6
22. N94-550	HOLLADAY	X	BRIM	F6
23. NTCPR94-5157	DAVIS	X	N73-1102	F5
24. N94-8287	BRIM	X	TOKYO	F4
25. N94-8406	YOUNG	X	TOKYO	F4
26. N94-7350	YOUNG	X	SUZUTAKA	F5
27. N94-7440	NTCPR90-143	X	PEARL	F4

TABLE 43B -PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIB, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. BRIM	YOUNG	X	N77-1102	F7
2. DILLON	CENTENNIAL	X	YOUNG	F5
3. TN690	A5474	X	TN82-94	F5
4. SC93-31	COKER 6847	X	BRYAN	F6
5. SC93-827	COKER 6847	X	HAGOOD	F5
6. SC93-828	COKER 6847	X	HAGOOD	F5
7. SC93-944	COKER 6847	X	HAGOOD	F5
8. SC93-2679	CO82-622	X	HOWARD	F5
9. VS94-26	BAY	X	PI 416937	F6
10. VS94-17	YORK	X	PI 416937	F6
11. VS94-45	YORK	X	PI 416925	F6
12. VS94-02	PI 96089	X	FORREST	F6
13. VS94-22	YORK	X	PI 416937	F6
14. OK89-5606	BEDFORD	X	MITCHELL	
15. OK89-6101	TRACY	X	CENTENNIAL	
16. OK91-5924	SOHOMA	X	FORREST	
17. OK91-5605	ESSEX	X	SOHOMA	
18. F94-1289	PI417479	X	F85-1138	F9
19. F94-1371	BEDFORD	X	F84-6291	F9
20. F94-1471	PI417479	X	F87-4110	F8
21. F94-1490	D82-3333	X	F85-1108	F9
22. AU92-3222	G83-969	X	N86-491	
23. AU93-1721	AU86-888	X	G83-198	
24. AU93-1583	AU86-888	X	G83-198	
25. AU92-1406	D84-7174	X	AU85-1088	
26. V92-163	HUTCHESON	X	FORREST	F6

TABLE 44A - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIA, 1996.

STRAIN/ VARIETY	SEED YIELD	MAT		LODGING	HEIGHT	QUALITY	SEED SIZE	---PERCENT---		STEM CANKER	M.a. TN	M.i. TN	SCN 3	SCN 5	SCN 14
		INDEX						PROTEIN	OIL						
1. BRIM	46.4	0.0		2.4	39.3	1.7	13.5	43.6	20.4	S	4.4	4.3	4.4	5.0	5.0
2. DILLON	45.9	-2.5		1.7	35.0	2.0	15.0	43.1	20.9	S	3.5	2.0	5.0	4.8	5.0
3. TN690	43.8	2.2		2.1	34.8	1.7	14.8	42.5	20.6	R	4.6	4.5	1.5	5.0	3.6
4. TSB93-1083	43.8	3.3		1.9	32.0	2.0	15.5	42.8	20.3	S	3.4	3.8	1.2	5.0	4.8
5. R93-151	46.5	-3.9		1.4	32.1	1.9	14.9	42.6	20.2	R	4.2	3.7	1.9	5.0	3.1
6. R93-164	42.2	-2.8		1.6	34.1	2.4	15.6	42.8	21.4	R	4.0	4.3	1.7	5.0	3.4
7. R90-149	46.5	-0.8		2.0	33.2	1.9	13.8	42.3	20.6	S	3.7	4.0	1.8	5.0	3.7
8. G92-2313	41.9	4.2		2.2	38.4	1.7	14.4	43.7	19.8	R	3.5	2.3	1.3	4.8	5.0
9. G92-2219	46.1	6.3		2.5	37.4	1.9	13.7	42.2	20.5	R	4.6	2.8	1.7	5.0	5.0
10. G92-2381	46.3	1.8		1.9	35.4	1.9	12.9	42.7	19.9	R	4.0	2.5	1.7	5.0	5.0
11. G92-1110	46.4	2.5		2.8	39.4	2.0	14.5	41.7	21.5	R	2.5	2.2	1.4	5.0	4.9
12. G92-1563	44.9	0.0		1.9	27.7	1.9	12.9	43.8	20.8	R	4.2	2.3	2.2	5.0	4.9
13. S94-1541	47.1	-6.0		2.0	33.4	1.7	12.1	42.8	20.5	S	4.2	1.8	1.3	5.0	1.3
14. S93-1344	47.2	-4.3		2.3	30.9	1.9	12.1	42.7	20.3	S	3.0	2.3	1.0	1.1	1.0
15. S94-1712	42.7	-1.7		2.3	34.5	2.0	13.1	43.5	20.0	S	2.7	2.5	1.0	1.0	1.3
16. S94-1873	48.3	-10.5		2.2	35.8	2.5	14.9	42.5	21.4	S	3.3	3.6	2.9	5.0	4.4
17. S94-2035	46.1	-4.1		2.3	37.0	2.3	14.9	42.2	21.0	S	2.7	3.3	1.3	1.0	1.1
18. N94-556	44.5	1.5		1.8	30.5	1.9	13.4	42.6	21.2	S	4.4	3.8	5.0	5.0	5.0
19. N94-515	42.8	-11.8		1.6	28.8	2.3	18.9	42.6	20.9	S	3.8	4.0	4.6	5.0	5.0
20. N94-782	43.1	-8.9		1.8	31.6	2.0	17.9	43.1	21.8	S	3.8	4.2	5.0	5.0	5.0
21. N94-3405	47.1	-0.4		2.3	40.4	1.9	13.5	44.3	20.5	S	4.0	4.3	5.0	5.0	4.9
22. N94-550	48.5	-8.9		2.2	30.4	2.6	14.1	42.6	20.7	S	4.2	4.0	5.0	5.0	5.0
23. NTCPR94-5157	42.7	3.3		2.8	39.0	1.7	16.8	43.1	20.2	R	4.0	4.2	5.0	5.0	4.9
24. N94-8287	42.4	3.6		2.7	45.2	2.0	19.7	44.8	19.3	R	4.0	4.3	5.0	5.0	4.9
25. N94-8406	39.4	1.3		2.9	38.5	2.2	20.4	42.4	20.3	R	3.8	3.8	4.4	5.0	5.0
26. N94-7350	41.5	-4.3		1.8	26.5	1.9	16.7	43.2	21.3	R/S	4.0	3.8	4.6	5.0	5.0
27. N94-7440	42.5	0.9		1.9	31.6	1.8	9.0	44.6	18.8	R	5.0	5.0	5.0	5.0	4.8
OVERALL MEAN	44.7							43.0	20.6						
L.S.D. (.05)	3.7							1.2	0.8						
C.V.	10%							3%	4%						

TABLE 44B - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIB, 1996.

STRAIN/ VARIETY	SEED YIELD	MAT INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	---PERCENT---		STEM CANKER	M.a. TN	M.i. TN	SCN 3	SCN 5	SCN 14
							PROTEIN	OIL						
1. BRIM	47.8	0.0	2.1	40.4	1.6	13.1	44.1	20.4	S	4.3	4.0	4.8	5.0	4.2
2. DILLON	45.4	-4.1	1.6	35.0	1.9	15.1	42.5	21.1	S	3.7	2.2	5.0	5.0	4.0
3. TN690	45.4	1.2	2.0	35.9	2.0	14.7	43.3	20.8	R	5.0	4.2	1.6	5.0	1.3
4. SC93-31	41.1	5.4	2.0	40.6	2.0	13.4	41.8	21.4	R	2.3	2.5	1.1	3.6	3.6
5. SC93-827	45.6	2.8	3.0	36.2	1.8	12.9	44.7	20.0	R/S	4.0	2.2	1.1	5.0	3.6
6. SC93-828	41.9	5.3	2.9	42.4	1.6	16.3	43.3	20.7	R/S	4.0	2.3	1.0	4.7	4.0
7. SC93-944	42.7	6.3	2.0	41.6	1.9	14.2	42.5	20.9	S	3.5	2.3	1.5	3.4	4.3
8. SC93-2679	43.5	4.8	2.3	39.4	2.1	13.4	42.2	20.5	S	2.4	1.6	1.1	3.6	4.1
9. VS94-26	38.5	6.3	2.7	36.4	2.0	17.7	43.7	19.8	R	2.7	3.7	5.0	5.0	4.2
10. VS94-17	32.3	2.3	2.7	35.5	1.6	16.9	44.3	19.0	R	3.4	4.0	5.0	5.0	4.3
11. VS94-45	34.5	2.3	1.4	31.3	1.9	19.6	44.1	21.1	S	3.2	4.5	5.0	5.0	4.8
12. VS94-02	39.4	2.2	1.8	33.7	2.0	15.2	44.2	19.1	S	3.7	3.5	5.0	5.0	4.7
13. VS94-22	31.2	8.6	2.4	36.5	1.9	17.3	44.6	18.5	R/S	2.5	4.2	4.7	5.0	4.9
14. OK89-5606	42.7	-1.3	1.8	32.3	2.1	15.8	41.7	22.7	R/S	3.8	4.0	4.9	5.0	4.7
15. OK89-6101	43.9	-8.3	1.9	30.5	1.9	18.3	43.3	21.2	R/S	3.2	4.2	5.0	4.0	4.9
16. OK91-5924	40.0	-5.4	1.7	30.8	2.0	13.7	43.3	21.3	S	3.6	5.0	2.0	5.0	4.4
17. OK91-5605	42.9	-6.9	1.3	28.7	1.9	15.9	43.8	22.0	S	2.7	4.6	4.9	5.0	4.7
18. F94-1289	35.9	-4.6	2.6	34.9	2.0	15.9	43.3	19.6	S	3.7	5.0	5.0	5.0	4.7
19. F94-1371	39.7	-8.2	2.4	31.3	2.1	14.5	43.6	20.1	R	2.0	3.0	1.3	5.0	1.4
20. F94-1471	38.5	-1.5	3.1	37.2	2.0	11.0	44.4	19.2	S	3.3	4.0	1.3	5.0	5.0
21. F94-1490	42.4	-2.5	2.6	40.9	2.3	12.0	42.8	21.4	S	3.2	2.5	1.2	5.0	1.0
22. AU92-3222	42.6	6.1	2.8	40.3	2.3	12.8	42.3	20.7	S	2.5	2.3	1.9	5.0	4.3
23. AU93-1721	42.2	1.5	1.7	29.6	2.1	13.6	43.6	20.7	S	4.5	3.3	3.2	5.0	4.3
24. AU93-1583	37.9	5.9	2.6	34.5	2.0	13.6	42.8	21.2	S	3.3	3.3	1.7	5.0	4.4
25. AU92-1406	41.4	4.4	2.1	38.8	2.4	13.0	45.0	20.2	R/S	3.2	2.2	1.5	5.0	2.1
26. V92-163	45.3	-8.5	2.1	32.3	1.7	14.5	44.2	20.8	S	4.3	4.0	4.7	5.0	4.6
OVERALL MEAN	41.0						43.4	20.6						
L.S.D. (.05)	4.3						1.3	0.9						
C.V.	12%						3%	4%						

TABLE 45A - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIA, 1996.

STRAIN/ VARIETY	BEAU-		BLACK-		PETERS-		PORTAGE-		STONE-		TALLASSEE	MEAN
	ATHENS GA	MONT TX†	BIXBY OK	VILLE SC	JAY FL	BURG VA	PLYMOUTH NC	VILLE MO (A)	VILLE MS	STUTTGART AR		
BRIM	52.2	20.9	27.2	36.5	40.1	59.0	43.7	50.5	55.4	48.6	51.2	46.4
DILLON	49.2	22.7	28.3	31.9-	40.1	53.0	44.1	53.6	52.7	52.1	53.7	45.9
TN690	46.7	11.2-	25.7	27.3-	35.4	49.0	45.7	54.6	51.0	51.3	51.4	43.8
TSB93-1083	54.7	21.1	30.2	22.6-	34.2	61.0	44.3	50.4	42.4-	48.2	50.3	43.8
R93-151	50.0	17.6	35.1	32.9	35.4	53.0	48.7	55.2	51.2	46.4	56.9	46.5
R93-164	48.7	13.2	35.7	28.6-	25.9	50.0	40.8	52.1	42.8-	47.7	49.5	42.2
R90-149	41.1-	19.4	37.3	26.5-	37.7	60.0	44.2	55.1	52.6	55.6	54.9	46.5
G92-2313	57.5	8.6-	29.6	25.3-	37.7	44.0	43.1	43.2	46.3-	45.7	46.4	41.9
G92-2219	57.5	6.5-	32.3	27.3-	44.8	52.0	46.4	52.3	48.9-	49.1	50.3	46.1
G92-2381	55.4	21.6	30.9	25.5-	38.9	61.0	42.9	53.6	47.5-	53.2	54.6	46.3
G92-1110	56.2	22.1	31.4	25.8-	37.7	56.0	44.0	59.6	45.3-	56.2	51.6	46.4
G92-1563	57.6	14.4	32.4	24.7-	42.4	48.0	37.9	58.9	39.3-	53.6	53.6	44.9
S94-1541	46.9	13.4	34.2	33.2	41.3	59.0	48.2	52.4	53.3	46.8	55.3	47.1
S93-1344	59.4	15.1	34.0	30.2-	42.4	53.0	41.6	55.5	54.1	49.1	52.3	47.2
S94-1712	44.5	12.1	36.4	30.9-	35.4	47.0	37.1-	55.7	43.8-	49.3	46.4	42.7
S94-1873	54.2	17.3	31.6	34.0	42.4	66.0	44.6	54.5	52.5	51.6	51.2	48.3
S94-2035	47.6	19.5	31.5	27.4-	34.2	66.0	44.2	55.6	54.7	52.3	47.7	46.1
N94-556	47.1	12.0	29.2	30.7-	36.5	56.0	46.4	58.3	41.5-	46.9	52.8	44.5
N94-515	44.6	8.3-	29.6	35.6	33.0	61.0	45.2	46.6	45.8-	40.5	46.1	42.8
N94-782	42.7	19.8	28.9	29.5-	33.0	60.0	42.4	49.9	44.4-	45.8	53.8	43.1
N94-3405	55.7	25.4	27.0	29.9-	44.8	63.0	38.4	50.9	58.2	49.0	54.6	47.1
N94-550	61.3	10.5-	28.8	38.0	42.4	54.0	47.0	56.3	57.8	47.4	51.9	48.5
NTCPR94-5157	48.9	27.6	29.1	21.9-	43.6	56.0	46.1	43.7	44.4-	51.2	42.5-	42.7
N94-8287	46.0	27.2	27.1	24.6-	40.1	51.0	43.7	47.4	42.8-	47.4	53.3	42.4
N94-8406	47.7	18.0	23.1	26.9-	34.2	50.0	38.1	41.6	43.4-	43.7	45.6	39.4
N94-7350	57.5	3.0-	27.3	21.0-	40.1	42.0	41.5	53.1	35.5-	47.6	49.3	41.5
N94-7440	49.0	6.7-	31.4	28.7-	42.4	53.0	45.3	44.0	38.9-	44.7	47.8	42.5
L.S.D. (0.05)	9.8	9.2	5.6	4.1		13.0	6.5	8.7	5.9	9.1	7.2	3.7
C.V. (%)	9.3	26.9	8.8	7.0		12.0	7.3	8.2	6.0	9.1	6.9	9.5

†Not included in Mean.

TABLE 45B - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIB, 1996.

STRAIN/ VARIETY	BEAU-		BLACK-		PETERS-		PORTAGE-		STONE-		STUTTGART AR	TALLASSEE AL	MEAN
	ATHENS GA	MONT TX†	BIXBY OK	VILLE SC	JAY FL	BURG VA	PLYMOUTH NC	VILLE MO (A)	VILLE MS				
BRIM	51.9	10.0	28.5	34.6	39.5	52.0	45.8	53.5	56.4	57.2	59.0	47.8	
DILLON	49.3	10.8	25.1	26.5	40.7	53.0	49.4	53.8	52.0	51.2	53.3	45.4	
TN690	49.3	20.0	40.7	21.6-	42.4	47.0	44.7	56.9	46.9-	50.0	54.0	45.4	
SC93-31	49.7	22.8	28.4	21.6-	33.6	49.0	45.6	51.6	34.6-	46.9-	50.4-	41.1	
SC93-827	59.6	17.1	30.6	24.2	43.6	36.0	50.1	54.9	44.0-	55.9	56.5	45.6	
SC93-828	50.6	22.4	29.2	23.6	41.3	46.0	41.9	44.7	40.7-	51.7	48.8-	41.9	
SC93-944	53.2	10.7	31.5	23.6	36.0	41.0	43.0	53.6	39.3-	56.6	49.0-	42.7	
SC93-2679	54.3	16.1	30.6	29.4	36.0	37.0	44.3	54.1	40.8-	55.0	53.3	43.5	
VS94-26	45.0	23.6	25.5	25.7	32.4	36.0	36.7-	54.0	35.7-	46.0-	48.4-	38.5	
VS94-17	28.9-	23.8	27.2	13.8-	21.8	43.0	37.4-	44.5	26.2-	41.7-	38.1-	32.3-	
VS94-45	27.1-	7.1	25.1	15.1-	28.3	48.0	37.4-	42.9	28.1-	46.2-	47.1-	34.5-	
VS94-02	35.6-	19.5	27.9	17.7-	44.8	45.0	41.8	49.9	32.3-	53.0	46.0-	39.4	
VS94-22	36.6-	13.9	24.6	16.9-	33.6	41.0	33.0-	39.5	22.8-	32.2-	31.9-	31.2-	
OK89-5606	45.8	11.1	29.9	27.5	40.7	35.0	40.8	50.9	48.9-	49.7	58.1	42.7	
OK89-6101	45.1	12.5	31.1	36.6	32.4	49.0	50.5	49.8	38.7-	50.0	55.3	43.9	
OK91-5924	43.3	8.2	30.9	27.9	41.9	34.0	37.5-	49.2	36.2-	45.6-	53.2	40.0	
OK91-5605	49.4	3.3	28.7	36.6	43.0	43.0	44.4	52.0	35.2-	42.4-	54.1	42.9	
F94-1289	24.7-	25.1	25.0	32.0	34.2	45.0	39.7	44.1	28.6-	43.5-	41.7-	35.9	
F94-1371	44.4	23.0	34.0	23.8	42.4	39.0	37.6-	51.5	37.8-	41.3-	45.5-	39.7	
F94-1471	38.5-	22.3	15.8	25.9	34.8	46.0	50.6	48.1	27.7-	44.5-	52.6	38.5	
F94-1490	43.8	28.5+	30.0	19.1-	38.9	46.0	47.4	50.3	43.3-	52.7	52.4	42.4	
AU92-3222	52.3	33.8+	26.0	20.0-	42.4	40.0	46.3	52.4	41.1-	54.8	50.3-	42.6	
AU93-1721	50.3	15.8	32.6	25.0	44.8	42.0	42.1	55.2	37.3-	42.4-	50.0-	42.2	
AU93-1583	49.4	31.0+	32.9	16.2-	38.3	38.0	34.5-	47.7	29.7-	47.0-	45.1-	37.9	
AU92-1406	49.6	27.8+	31.6	21.5-	40.1	46.0	39.5	53.6	37.5-	48.4-	46.6-	41.4	
V92-163	47.8	19.9	28.7	31.0	35.4	50.0	46.2	54.2	51.1	50.3	58.2	45.3	
L.S.D. (0.05)	9.9	15.4	6.1	11.1		11.0	7.5	7.4	6.1	8.5	7.8	4.3	
C.V. (%)	10.6	38.7	10.2	22.0		12.0	8.6	7.1	7.8	8.5	7.6	11.9	

†Not included in Mean.

TABLE 46A - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIA, 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	PETERSBURG VA	STONEVILLE MS	STUTTGART AL	TALLASSEE AL	WHITEVILLE NC	MEAN
BRIM	21.2	19.7	22.0	19.4	19.4	20.0	20.1	20.7	20.4
DILLON	22.0	21.3	21.5	20.1	20.0	20.4	21.6	20.5	20.9
TN690	20.6	20.6	21.4	20.8	19.3	20.0	20.8	21.0	20.6
TSB93-1083	20.9	19.6	21.0	20.1	20.0	19.7	20.1	20.2	20.3
R93-151	21.7	22.1	20.8	14.8	20.2	21.2	21.7	21.1	20.2
R93-164	21.2	22.6	22.6	20.3	20.8	21.2	21.8	22.0	21.4
R90-149	22.1	21.6	21.5	19.5	20.0	20.5	20.1	20.6	20.6
G92-2313	20.5	19.3	20.2	20.1	18.5	19.7	19.8	19.8	19.8
G92-2219	21.1	21.5	21.2	20.0	20.3	19.8	21.0	20.4	20.5
G92-2381	20.4	19.8	20.8	20.8	18.9	19.2	19.7	19.4	19.9
G92-1110	21.9	21.5	23.0	21.7	20.8	20.4	21.4	21.5	21.5
G92-1563	21.5	20.1	22.1	19.3	19.9	20.6	21.3	21.0	20.8
S94-1541	21.2	21.4	21.5	20.3	19.3	20.6	20.3	20.2	20.5
S93-1344	21.1	20.0	20.8	18.1	19.8	20.9	21.1	20.2	20.3
S94-1712	20.9	19.6	21.2	18.7	18.9	19.7	21.1	19.7	20.0
S94-1873	22.5	21.8	22.7	19.8	20.2	21.0	22.0	21.8	21.4
S94-2035	22.1	21.5	22.3	20.0	19.8	20.8	21.2	21.0	21.0
N94-556	21.9	21.9	23.7	20.0	20.0	20.2	22.0	20.7	21.2
N94-515	21.3	21.0	22.5	20.5	20.0	20.6	20.8	20.4	20.9
N94-782	22.9	21.7	22.9	20.6	20.8	22.0	22.2	21.3	21.8
N94-3405	20.7	20.2	22.2	20.4	19.7	20.2	19.8	20.4	20.5
N94-550	20.4	22.2	21.6	19.3	20.5	20.7	21.8	20.4	20.7
NTCPR94-5157	21.1	20.5	20.5	18.9	19.6	20.2	19.8	21.1	20.2
N94-8287	19.6	19.4	20.7	20.1	17.8	18.6	18.5	19.7	19.3
N94-8406	20.3	19.7	20.4	20.9	19.7	19.6	20.3	21.2	20.3
N94-7350	22.0	20.8	22.5	20.3	19.8	20.6	22.5	21.6	21.3
N94-7440	19.9	17.9	19.4	20.0	17.4	18.3	19.0	17.9	18.8

TABLE 46B - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIB, 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	PETERSBURG VA	STONEVILLE MS	STUTTGART AL	TALLASSEE AL	WHITEVILLE NC	MEAN
BRIM	20.7	20.3	21.7	20.0	19.1	20.1	20.3	21.1	20.4
DILLON	22.3	20.8	21.0	19.3	20.6	21.0	22.0	21.5	21.1
TN690	21.0	21.3	21.9	20.8	19.8	20.1	20.8	21.4	20.8
SC93-31	22.9	20.9	22.2	20.0	20.6	20.6	21.1	22.3	21.4
SC93-827	20.7	19.6	21.9	20.5	19.3	17.7	20.4	19.8	20.0
SC93-828	21.2	19.2	22.1	21.1	19.9	19.8	19.9	20.8	20.7
SC93-944	22.1	20.6	23.9	19.4	19.6	19.8	20.8	20.6	20.9
SC93-2679	21.7	19.9	22.3	19.6	19.6	20.1	20.2	20.0	20.5
VS94-26	20.4	20.0	21.9	17.6	19.3	19.4	19.8	20.0	19.8
VS94-17	18.9	19.2	20.8	20.9	17.3	19.5	17.2	18.7	19.0
VS94-45	21.1	21.2	23.0	22.1	19.6	19.9	20.0	22.0	21.1
VS94-02	19.6	19.2	20.1	20.5	18.1	18.2	18.8	18.7	19.1
VS94-22	17.7	18.3	20.1	21.3	18.1	17.2	17.0	18.0	18.5
OK89-5606	23.8	23.7	23.8	20.3	22.3	22.5	23.2	23.3	22.7
OK89-6101	22.5	21.5	22.9	20.3	19.8	20.8	21.4	20.9	21.2
OK91-5924	21.8	21.3	22.4	20.0	20.4	21.0	22.7	21.1	21.3
OK91-5605	21.3	21.5	24.5	20.0	20.8	21.9	22.7	22.5	22.0
F94-1289	19.5	19.7	20.7	20.1	18.4	19.3	20.3	18.6	19.6
F94-1371	20.6	20.2	21.3	19.7	19.2	19.8	20.6	19.6	20.1
F94-1471	18.9	17.3	20.5	20.1	17.3	19.0	19.7	18.6	19.2
F94-1490	21.7	21.7	22.6	18.6	21.3	21.5	22.1	21.7	21.4
AU92-3222	21.3	21.1	22.6	18.7	20.3	19.9	21.0	21.4	20.7
AU93-1721	21.1	21.6	23.5	18.4	19.7	19.9	21.2	21.1	20.7
AU93-1583	22.0	22.3	24.4	16.8	20.7	20.9	21.4	22.2	21.2
AU92-1406	21.2	20.2	21.1	20.1	19.3	19.4	20.2	20.3	20.2
V92-163	21.4	21.3	22.6	20.3	19.7	20.3	20.4	20.8	20.8

TABLE 47A - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIA, 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	PETERSBURG VA	PLYMOUTH NC	PORTAGEVILLE MO (A)	STONEVILLE MS	TALLASSEE AL	MEAN
BRIM	42.3	47.4	41.6	44.9	43.4	43.1	45.4	44.3	43.6
DILLON	43.3	44.1	40.6	43.6	44.7	42.2	43.0	44.2	43.1
TN690	42.1	45.2	41.6	40.4	44.4	42.6	43.7	42.6	42.5
TSB93-1083	44.6	46.8	41.4	41.8	40.4	43.4	44.7	43.6	42.8
R93-151	43.0	44.5	40.3	43.0	44.5	42.0	42.3	42.8	42.6
R93-164	42.5	45.3	42.3	42.3	43.7	42.5	42.8	43.5	42.8
R90-149	42.0	46.8	40.4	43.0	43.7	42.1	42.2	43.0	42.3
G92-2313	44.7	46.9	41.2	43.1	46.5	43.1	43.1	44.1	43.7
G92-2219	42.3	44.6	40.1	41.9	43.2	42.4	42.6	43.1	42.2
G92-2381	43.1	45.6	40.3	41.5	44.9	43.3	43.4	42.7	42.7
G92-1110	41.2	43.1	39.5	43.4	42.4	41.0	42.1	42.2	41.7
G92-1563	42.5	46.5	42.0	45.4	45.4	42.8	44.1	44.5	43.8
S94-1541	42.6	45.9	41.7	42.5	44.0	41.8	43.0	43.9	42.8
S93-1344	43.2	44.9	41.5	44.5	43.3	41.6	41.1	44.0	42.7
S94-1712	42.4	46.6	41.9	45.3	45.2	42.5	42.7	44.6	43.5
S94-1873	43.1	46.4	42.2	42.8	43.8	42.4	42.5	41.0	42.5
S94-2035	42.0	43.7	42.0	42.3	42.8	41.3	41.9	43.0	42.2
N94-556	42.4	43.8	40.3	43.9	44.2	41.7	40.9	45.1	42.6
N94-515	42.9	45.2	40.7	41.9	44.6	43.4	42.7	42.0	42.6
N94-782	43.3	45.9	42.3	42.7	44.5	43.1	42.6	42.9	43.1
N94-3405	44.7	46.5	42.2	40.9	46.7	43.3	46.4	45.6	44.3
N94-550	45.2	42.1	41.3	43.6	41.7	41.3	41.9	43.1	42.6
NTCPR94-5157	41.9	46.1	42.5	43.0	43.8	41.8	46.1	42.7	43.1
N94-8287	45.9	46.3	41.5	41.8	47.9	45.6	46.0	45.2	44.8
N94-8406	45.3	46.0	41.9	40.3	41.3	42.0	44.7	41.5	42.4
N94-7350	44.0	45.6	41.6	42.5	45.5	42.7	42.5	43.8	43.2
N94-7440	44.1	47.4	43.7	42.2	47.3	44.1	45.1	45.5	44.6

TABLE 47B - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIB, 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	PETERSBURG VA	PLYMOUTH NC	PORTAGEVILLE MO (A)	STONEVILLE MS	TALLASSEE AL	MEAN
BRIM	45.4	47.0	42.3	42.7	46.3	42.9	44.3	45.1	44.1
DILLON	44.2	45.1	39.8	41.6	43.8	42.0	42.7	43.4	42.5
TN690	43.7	44.9	41.5	42.3	44.2	43.2	44.9	43.5	43.3
SC93-31	39.8	43.9	39.5	43.9	43.2	41.2	43.7	41.4	41.8
SC93-827	44.2	47.3	41.7	43.4	47.1	45.0	46.3	45.1	44.7
SC93-828	43.9	48.7	40.2	41.8	45.5	44.2	44.6	43.2	43.3
SC93-944	43.1	45.7	38.7	40.7	43.9	42.1	45.2	44.0	42.5
SC93-2679	41.0	45.0	39.4	42.0	43.2	43.6	43.0	43.0	42.2
VS94-26	44.1	46.1	41.7	43.8	45.8	41.8	44.8	43.6	43.7
VS94-17	44.8	46.6	42.2	41.4	47.1	42.5	47.5	44.8	44.3
VS94-45	44.8	47.2	41.9	40.2	46.1	43.5	47.2	45.1	44.1
VS94-02	44.8	48.0	42.4	41.7	45.3	44.6	45.8	44.5	44.2
VS94-22	47.0	45.6	41.8	44.1	43.5	45.6	45.9	44.1	44.6
OK89-5606	41.8	43.0	38.3	43.7	42.5	41.3	41.6	42.5	41.7
OK89-6101	45.5	45.9	40.9	41.9	45.7	41.6	44.5	42.8	43.3
OK91-5924	44.0	47.2	41.1	44.2	44.3	42.8	41.9	44.7	43.3
OK91-5605	44.9	46.1	43.3	41.8	45.3	43.4	43.3	44.5	43.8
F94-1289	41.7	46.2	43.8	44.0	44.8	41.6	43.6	43.8	43.3
F94-1371	43.9	46.3	43.3	41.5	43.6	43.1	44.5	45.0	43.6
F94-1471	46.1	48.2	44.2	42.3	46.0	43.6	44.2	44.1	44.4
F94-1490	43.1	46.3	42.5	45.9	42.8	41.2	41.7	42.2	42.8
AU92-3222	42.3	45.6	41.2	42.4	43.2	42.4	43.6	41.3	42.3
AU93-1721	43.9	44.9	42.7	44.0	43.9	43.3	43.3	44.4	43.6
AU93-1583	42.3	42.4	40.6	44.4	44.4	42.2	43.4	42.2	42.8
AU92-1406	44.6	45.6	45.5	42.8	45.6	44.4	46.8	45.0	45.0
V92-163	44.2	46.8	43.9	43.2	45.8	44.2	42.1	45.7	44.2

TABLE 48A - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIA, 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BIXBY OK	JAY FL	PETERSBURG VA	PLYMOUTH NC	PORTAGEVILLE MO (A)	TALLASSEE AL	MEAN
BRIM	12.6	11.0	14.3	15.2	15	11.2	12.4	13.7	13.5
DILLON	15.1	14.6	17.1	15.8	15	13.1	14.0	15.0	15.0
TN690	13.6	12.5	17.2	14.8	15	13.6	14.4	15.1	14.8
TSB93-1083	15.3	11.8	16.9	14.0	18	15.0	14.0	15.1	15.5
R93-151	14.7	13.1	17.1	14.0	16	12.8	14.4	15.6	14.9
R93-164	16.0	12.8	19.0	14.0	17	12.9	14.8	15.7	15.6
R90-149	14.0	12.3	16.9	14.0	13	12.3	12.4	13.8	13.8
G92-2313	14.2	12.6	15.8	16.0	15	12.9	12.5	14.1	14.4
G92-2219	12.9	12.5	14.7	16.0	15	12.2	12.2	12.8	13.7
G92-2381	12.0	11.3	14.7	14.5	13	11.1	12.2	12.5	12.9
G92-1110	14.3	12.0	16.6	14.5	14	13.7	13.7	14.7	14.5
G92-1563	7.3	11.3	14.7	16.0	14	12.5	12.5	13.6	12.9
S94-1541	7.1	12.3	14.7	10.5	16	10.9	11.6	13.8	12.1
S93-1344	12.1	10.5	13.4	10.0	16	10.0	10.8	12.3	12.1
S94-1712	12.6	12.5	15.3	12.0	14	12.0	11.9	14.1	13.1
S94-1873	17.6	13.0	17.1	12.0	13	13.8	14.6	16.0	14.9
S94-2035	15.8	13.5	12.8	14.0	16	14.8	15.0	15.8	14.9
N94-556	7.6	14.2	15.1	16.0	13	13.2	13.0	15.6	13.4
N94-515	19.7	13.3	20.8	21.0	17	16.3	17.6	20.2	18.9
N94-782	19.2	14.4	14.0	22.0	15	16.6	16.6	21.8	17.9
N94-3405	12.8	11.7	16.1	15.0	13	11.5	12.4	13.9	13.5
N94-550	9.7	12.6	18.0	14.0	14	13.9	14.0	15.1	14.1
NTCPR94-5157	15.9	13.6	18.4	17.0	19	15.6	15.0	16.5	16.8
N94-8287	18.5	15.8	20.3	22.0	19	18.3	18.0	21.5	19.7
N94-8406	12.0	18.3	21.6	26.0	20	20.7	19.1	23.4	20.4
N94-7350	18.5	13.2	18.5	22.0	14	13.6	15.1	15.0	16.7
N94-7440	4.2	9.3	8.8	11.0	7	7.5	17.0	7.7	9.0

TABLE 48B - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIB, 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	BIXBY OK	JAY FL	PETERSBURG VA	PLYMOUTH NC	PORTAGEVILLE MO (A)	TALLASSEE AL	MEAN
BRIM	12.6	11.9	13.2	15.0	13	11.7	11.9	14.4	13.1
DILLON	15.5	14.5	16.9	15.7	15	14.7	13.5	14.2	15.1
TN690	12.9	13.2	16.4	17.0	14	13.5	13.9	15.3	14.7
SC93-31	14.4	11.6	15.6	10.5	13	13.9	12.6	13.7	13.4
SC93-827	13.1	11.1	15.1	12.0	13	12.2	11.9	13.2	12.9
SC93-828	16.8	11.8	17.5	14.0	18	16.2	14.1	17.5	16.3
SC93-944	15.1	12.0	17.0	12.5	13	14.2	13.0	14.7	14.2
SC93-2679	13.7	10.9	14.4	14.0	12	13.6	12.3	13.8	13.4
VS94-26	17.4	16.1	20.1	21.0	13	16.7	17.0	18.8	17.7
VS94-17	16.4	13.0	18.3	21.0	17	15.8	14.3	15.8	16.9
VS94-45	18.0	13.7	19.7	25.0	18	18.2	17.3	20.9	19.6
VS94-02	15.3	13.1	15.7	17.0	15	14.2	13.5	15.5	15.2
VS94-22	17.9	13.8	16.4	22.0	17	16.4	15.5	16.0	17.3
OK89-5606	16.6	13.5	16.5	18.0	15	13.5	14.1	17.0	15.8
OK89-6101	21.0	14.1	18.6	20.0	17	16.2	16.4	18.6	18.3
OK91-5924	13.7	11.1	15.0	14.0	12	13.0	12.6	15.3	13.7
OK91-5605	17.4	14.6	17.4	16.0	16	13.4	14.6	16.8	15.9
F94-1289	15.4	15.0	16.1	20.0	15	14.0	14.1	16.4	15.9
F94-1371	14.8	12.5	16.5	16.0	13	13.6	13.4	14.2	14.5
F94-1471	11.7	11.9	9.6	11.0	10	12.0	10.3	12.3	11.0
F94-1490	12.0	11.7	13.0	12.0	10	12.4	11.5	13.2	12.0
AU92-3222	13.6	12.6	13.7	12.0	12	14.1	12.1	11.8	12.8
AU93-1721	13.9	12.1	16.1	12.0	12	13.6	12.0	15.7	13.6
AU93-1583	13.6	12.1	14.8	11.0	13	14.6	12.9	15.0	13.6
AU92-1406	13.1	12.2	14.5	12.0	12	13.9	11.7	14.0	13.0
V92-163	15.3	13.2	15.1	14.5	13	13.1	14.1	16.6	14.5

TABLE 49A - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIA, 1996.

STRAIN/ VARIETY	BEAU-		BLACK-		PETERS-		PLY-	PORTAGE-	STONE-	STUTT-	TALLASSEE		MEAN
	ATHENS GA	MONT TX	BIXBY OK	VILLE SC	JAY FL	BURG VA	MOUTH NC	VILLE MO (A)	VILLE MS	GART AR	AL		
BRIM	39	16	26	42	36	37	39	49	41	39	45	39	
DILLON	34	16	32	43	36	37	39	35	28	24	43	35	
TN690	37	13	31	43	36	39	38	34	26	25	39	35	
TSB93-1083	30	16	28	37	32	33	38	36	22	29	35	32	
R93-151	30	16	33	33	36	34	35	36	24	22	39	32	
R93-164	33	17	33	40	38	39	38	38	24	19	39	34	
R90-149	31	16	35	37	34	36	33	31	30	27	38	33	
G92-2313	38	14	40	44	35	37	39	47	25	35	44	38	
G92-2219	38	11	36	45	34	35	40	49	26	29	42	37	
G92-2381	32	14	32	43	36	38	36	46	26	24	41	35	
G92-1110	39	17	38	44	35	41	40	48	28	33	48	39	
G92-1563	26	11	30	30	34	30	32	33	13	18	31	28	
S94-1541	31	17	36	37	34	34	35	35	27	25	41	33	
S93-1344	32	13	32	36	31	32	36	27	24	22	37	31	
S94-1712	30	11	37	44	34	33	38	44	22	24	40	35	
S94-1873	38	15	37	40	30	38	40	43	27	23	43	36	
S94-2035	39	17	41	43	38	33	32	37	33	28	47	37	
N94-556	30	7	32	34	32	34	35	39	13	22	35	30	
N94-515	28	11	22	33	34	30	37	33	20	18	33	29	
N94-782	31	17	30	36	34	33	37	35	23	21	37	32	
N94-3405	36	16	35	43	35	40	43	46	42	39	45	40	
N94-550	32	14	32	39	30	30	36	27	23	19	36	30	
NTCPR94-5157	39	18	35	42	32	42	37	51	38	31	43	39	
N94-8287	43	22	40	48	34	46	44	51	50	44	53	45	
N94-8406	38	20	38	43	32	42	35	44	30	40	43	38	
N94-7350	29	9	24	21	36	22	33	32	18	19	31	27	
N94-7440	30	8	29	33	34	33	37	42	21	23	35	32	

TABLE 49B - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIB, 1996.

STRAIN/ VARIETY	BEAU-	BLACK-	PETERS-	PLY-	PORTAGE-	STONE-	STUTT-			MEAN		
	ATHENS GA	MONT TX	BIXBY OK	VILLE SC	JAY FL	BURG VA	MOUTH NC	VILLE MO (A)	VILLE MS		GART AR	TALLASSEE AL
BRIM	39	18	28	45	38	38	42	49	42	38	45	40
DILLON	38	16	27	39	37	36	39	39	28	25	42	35
TN690	37	17	28	39	38	36	42	45	31	26	38	36
SC93-31	45	19	32	43	40	35	38	49	38	39	48	41
SC93-827	38	14	30	36	36	34	38	44	32	31	43	36
SC93-828	43	27	30	43	38	38	44	52	46	44	46	42
SC93-944	39	17	36	44	38	40	44	50	38	40	48	42
SC93-2679	42	20	37	45	36	37	40	48	30	37	43	39
VS94-26	37	16	39	41	38	37	38	40	26	28	41	36
VS94-17	34	17	35	41	40	34	36	35	29	28	43	35
VS94-45	32	15	28	27	36	31	36	38	23	27	35	31
VS94-02	35	15	29	36	34	36	32	36	21	34	44	34
VS94-22	41	16	27	37	36	37	37	42	35	33	41	36
OK89-5606	31	12	32	37	38	27	38	35	24	23	38	32
OK89-6101	30	15	29	32	34	29	34	34	20	26	38	30
OK91-5924	33	12	34	37	30	28	32	38	21	16	40	31
OK91-5605	30	11	30	31	34	24	34	34	16	18	37	29
F94-1289	35	17	30	40	37	29	32	36	35	34	42	35
F94-1371	30	20	36	34	36	24	32	32	33	21	36	31
F94-1471	35	19	40	42	34	27	45	36	46	27	41	37
F94-1490	41	26	40	44	42	36	47	47	42	24	47	41
AU92-3222	41	25	39	48	37	35	38	48	39	36	43	40
AU93-1721	31	13	30	32	31	29	31	35	21	22	34	30
AU93-1583	37	20	34	36	34	30	32	44	34	25	41	35
AU92-1406	40	19	37	46	32	38	42	48	33	27	45	39
V92-163	32	17	30	37	34	36	33	37	26	23	36	32

TABLE 50A - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIA, 1996.

STRAIN/ VARIETY	BEAU-	BLACK-	PETERS-	PLY-	PORTAGE-	STONE-	STUTT-	TALLASSEE	MEAN			
	ATHENS GA	MONT TX	BIXBY OK	VILLE SC	JAY FL	BURG VA	MOUTH NC			VILLE MO (A)	VILLE MS	GART AR
BRIM	2	1	1	2	2	3	4	2	3	4	1	2
DILLON	2	1	0	2	2	1	4	2	2	2	1	2
TN690	2	1	1	3	2	2	4	2	2	2	1	2
TSB93-1083	2	1	1	1	2	2	5	2	2	2	1	2
R93-151	2	1	0	1	2	1	3	1	2	1	1	1
R93-164	2	1	1	1	2	1	4	1	2	2	1	2
R90-149	2	1	3	1	2	2	4	2	2	1	1	2
G92-2313	2	1	2	1	2	2	4	2	2	3	2	2
G92-2219	2	1	2	3	2	4	4	3	2	2	2	3
G92-2381	2	1	1	1	1	3	4	2	2	2	1	2
G92-1110	2	2	4	3	2	4	4	2	2	3	2	3
G92-1563	2	1	1	1	1	4	4	2	2	1	1	2
S94-1541	2	1	2	2	2	2	4	2	2	1	1	2
S93-1344	2	1	3	1	2	4	4	2	2	2	1	2
S94-1712	2	1	3	3	2	3	4	2	2	1	1	2
S94-1873	2	1	3	3	2	1	4	2	2	2	2	2
S94-2035	2	1	3	3	2	1	4	2	3	3	1	2
N94-556	2	1	1	1	1	2	4	2	2	2	1	2
N94-515	2	1	1	1	1	2	3	2	2	1	1	2
N94-782	2	1	1	1	1	2	4	2	2	2	1	2
N94-3405	2	1	1	2	2	3	4	2	3	3	1	2
N94-550	2	1	1	3	3	2	4	2	2	2	2	2
NTCPR94-5157	2	1	1	3	3	5	4	2	3	3	2	3
N94-8287	2	2	1	3	3	4	4	2	4	2	3	3
N94-8406	2	2	2	3	3	4	5	2	3	3	2	3
N94-7350	2	1	1	1	3	1	4	2	2	1	1	2
N94-7440	2	1	1	1	1	3	4	3	2	1	1	2

TABLE 50B - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIB, 1996.

STRAIN/ VARIETY	BEAU-	BLACK-	PETERS-	PLY-	PORTAGE-	STONE-	STUTT-	TALLASSEE		MEAN		
	ATHENS GA	MONT TX	BIXBY OK	VILLE SC	JAY FL	BURG VA	MOUTH NC	VILLE MO (A)	VILLE MS		GART AR	AL
BRIM	2	1	0	3	2	1	4	2	3	3	2	2
DILLON	2	1	0	1	2	1	4	2	2	1	2	2
TN690	2	2	1	2	2	1	4	2	3	2	1	2
SC93-31	2	1	1	2	2	1	4	2	3	2	2	2
SC93-827	2	2	3	3	2	4	4	3	3	3	3	3
SC93-828	3	2	1	3	2	5	4	3	4	2	2	3
SC93-944	2	1	1	2	2	2	4	2	2	2	1	2
SC93-2679	2	1	2	2	2	2	4	3	2	2	2	2
VS94-26	2	1	3	3	2	3	4	3	2	2	3	3
VS94-17	2	1	2	3	2	2	4	2	3	3	4	3
VS94-45	2	1	0	1	1	1	4	1	2	1	1	1
VS94-02	2	1	1	1	2	1	4	2	2	2	1	2
VS94-22	2	1	1	2	1	2	4	2	4	4	2	2
OK89-5606	2	1	1	2	1	1	4	2	2	2	2	2
OK89-6101	2	1	2	1	1	2	4	2	2	3	1	2
OK91-5924	2	1	1	2	1	1	4	2	2	1	1	2
OK91-5605	2	1	0	1	1	1	3	1	2	1	1	1
F94-1289	2	2	3	2	2	2	4	2	4	2	3	3
F94-1371	2	2	3	3	2	1	4	2	3	1	3	2
F94-1471	3	1	3	3	3	1	4	3	5	3	4	3
F94-1490	2	2	3	1	3	2	4	2	3	3	3	3
AU92-3222	2	1	2	3	2	3	4	3	3	3	4	3
AU93-1721	2	1	0	1	2	1	4	2	2	2	1	2
AU93-1583	2	1	1	3	2	3	4	3	3	2	3	3
AU92-1406	2	2	1	2	2	2	4	2	2	2	2	2
V92-163	2	1	1	2	1	4	4	2	2	2	1	2

TABLE 51B - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIB , 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	PETERSBURG VA	PLYMOUTH NC	PORTAGEVILLE MO (A)	STONEVILLE MS	TALLASSEE AL	MEAN
BRIM	2	2	2	1	2	2	2	1	2
DILLON	2	2	2	2	2	2	2	1	2
TN690	2	2	2	3	2	2	2	1	2
SC93-31	2	2	2	3	2	2	2	1	2
SC93-827	2	1	3	1	2	2	2	1	2
SC93-828	2	2	2	1	2	2	2	1	2
SC93-944	2	1	1	2	2	2	3	1	2
SC93-2679	2	1	3	2	3	2	2	1	2
VS94-26	2	2	3	2	2	2	2	1	2
VS94-17	2	1	1	2	2	2	2	1	2
VS94-45	2	1	1	2	2	2	3	1	2
VS94-02	2	2	2	2	2	2	3	1	2
VS94-22	3	2	1	2	2	3	2	1	2
OK89-5606	2	2	2	3	2	2	3	1	2
OK89-6101	2	3	2	2	2	2	2	1	2
OK91-5924	2	3	3	2	2	2	2	1	2
OK91-5605	2	1	2	2	2	2	2	1	2
F94-1289	2	3	3	2	2	2	2	1	2
F94-1371	2	2	1	3	2	3	3	1	2
F94-1471	2	2	2	3	2	2	2	1	2
F94-1490	2	2	2	3	2	3	3	1	2
AU92-3222	2	2	3	3	2	2	3	1	2
AU93-1721	2	2	4	2	2	2	2	1	2
AU93-1583	2	1	3	2	2	2	2	1	2
AU92-1406	2	2	3	3	2	3	3	1	2
V92-163	2	3	2	1	2	2	2	1	2

UNIFORM GROUP VII**1996**

Uniform Group VII nurseries were planted at 19 locations. Data were obtained from 17 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, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. BENNING	HUTCHESON	X	COKER 6738	F6
2. HASKELL	JOHNSTON	X	BRAXTON	F5
3. G91-221	CO82-622	X	BRYAN	F5
4. N90-7199	N77-114	X	416937	
5. SC90-80	YOUNG	X	LEFLORE	F6
6. SC91-1791	COKER 6847	X	STONEWALL	F5
7. SC92-2482	COKER 6847	X	HAGOOD	F5
8. SC92-902	BRIM	X	CO82-622	F5
9. N90-845	BRIM	X	N80-777	F6
10. N93-318	N86-820	X	LAMAR	F6
11. N93-739	BRIM	X	(N87-2120-3 X BRIM)	F6
12. AU92-2121	AU82-211	X	N85-574	F6
13. AU92-916	N85-574	X	HASKELL	F6
14. AU91-788	G83-198	X	AU89-589	F6

TABLE 53 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 1996.

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1996	95-96	94-96	1996	95-96	94-96	1996	95-96	94-96
1. BENNING	44.0	.	.	43.4	.	.	20.9	.	.
2. HASKELL	46.6	44.4	46.7	42.9	42.0	42.0	21.3	20.8	20.6
3. G91-221	44.7	.	.	42.7	.	.	22.1	.	.
4. N90-7199	41.8	41.4	.	42.8	41.9	.	20.8	20.6	.
5. SC90-80	45.5	44.5	45.9	45.1	44.2	44.3	20.2	20.2	20.2
6. SC91-1791	45.4	44.9	.	45.3	44.3	.	21.8	21.5	.
7. SC92-2482	44.6	.	.	44.4	.	.	20.7	.	.
8. SC92-902	47.1	.	.	44.5	.	.	19.9	.	.
9. N90-845	42.3	43.5	45.4	44.5	43.6	43.6	20.6	20.4	20.3
10. N93-318	39.8	.	.	45.3	.	.	20.3	.	.
11. N93-739	38.5	.	.	44.8	.	.	21.9	.	.
12. AU92-2121	43.5	.	.	42.9	.	.	21.9	.	.
13. AU92-916	44.5	.	.	43.2	.	.	21.4	.	.
14. AU91-788	41.2	42.0	.	44.1	43.1	.	20.7	20.5	.

†Data from Florence, SC, Jay, FL, Tifton, GA, Whiteville, NC (1995); Bossier City, LA, Jay, FL, Kinston, NC, Quincy, FL (1994) not included in mean.

BOTANICAL TRAITS

STRAIN/ VARIETY	FL.	MAT.	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
	COLOR	DATE						
1. BENNING	P	0.0	1.7	33.6	1.9	14.4	T	T
2. HASKELL	P	0.8	2.4	34.5	1.8	16.0	T	T
3. G91-221	P	-0.2	1.6	34.4	1.6	13.7	T	T
4. N90-7199	P	2.5	1.7	29.3	1.9	14.7	G	Br
5. SC90-80	W	1.0	1.8	35.1	1.9	15.4	G	T
6. SC91-1791	W	-0.4	1.7	37.0	1.7	15.1	T	T
7. SC92-2482	W	2.7	1.5	36.1	1.7	15.6	G	T
8. SC92-902	W	2.8	2.0	38.7	1.8	14.2	G	Br
9. N90-845	P	2.8	1.7	28.6	1.8	13.1	G	T
10. N93-318	W	-1.2	1.5	31.3	1.8	14.4	T	T
11. N93-739	W	-0.7	1.3	23.3	2.0	14.6	G	Br
12. AU92-2121	W	3.1	2.2	37.8	1.6	15.4	T	T
13. AU92-916	P	2.6	2.1	35.2	1.7	18.5	G	T
14. AU91-788	P	1.3	2.1	35.4	1.7	12.4	G	T

TABLE 53 - (Continued).

PEST REACTIONS								
STRAIN/ VARIETY	STEM CANKER	M. a. GA	M. a. TN	M. i. GA	M. i. TN	SCN 3	SCN 5	SCN 14
1. BENNING	R	2.5	3.4	1.0	2.2	1.3	4.9	5.0
2. HASKELL	R	2.0	2.4	1.5	1.8	4.9	5.0	5.0
3. G91-221	R	3.0	3.0	1.0	1.5	1.0	2.7	4.9
4. N90-7199	R/S	3.8	5.0	4.0	4.3	4.8	5.0	5.0
5. SC90-80	R	3.3	4.3	4.3	4.3	1.8	5.0	2.3
6. SC91-1791	R	4.3	4.0	5.0	4.3	1.1	4.6	4.9
7. SC92-2482	R	3.5	4.2	2.0	2.6	1.2	3.7	4.6
8. SC92-902	R	3.5	4.6	4.0	5.0	1.7	5.0	5.0
9. N90-845	S	3.5	4.6	5.0	4.2	5.0	5.0	5.0
10. N93-318	R	3.0	5.0	1.0	2.5	5.0	5.0	5.0
11. N93-739	S	2.8	4.7	1.3	4.3	5.0	5.0	5.0
12. AU92-2121	S	3.5	5.0	5.0	5.0	1.2	3.3	4.5
13. AU92-916	R	4.5	4.0	4.0	4.3	5.0	5.0	5.0
14. AU91-788	S	4.8	5.0	1.5	2.8	2.5	5.0	5.0

TABLE 54 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1996.

STRAIN/ VARIETY	EAST			MEAN
	FLORENCE SC	JACKSON SPRINGS NC	WHITEVILLE NC	
BENNING	38.1	44.8	41.5	41.5
HASKELL	30.1	44.2	43.3	39.2
G91-221	40.3	41.2	52.7	44.8
N90-7199	28.7	44.3	42.8	38.6
SC90-80	39.9	44.1	52.2	45.4
SC91-1791	39.4	37.3	57.9	44.9
SC92-2482	43.9	39.7	50.3	44.6
SC92-902	41.6	46.8	49.0	45.8
N90-845	34.8	49.8	48.3	44.3
N93-318	32.9	42.3	50.5	41.9
N93-739	30.7	45.5	52.1	42.8
AU92-2121	38.3	38.1	46.0	40.8
AU92-916	29.5	48.0	52.9	43.5
AU91-788	35.5	44.5	44.1	41.3
L. S. D. (0.05)	4.5	5.3	10.6	.
C. V. (%)	7.4	7.2	12.9	.

TABLE 54 - (Continued).

STRAIN/ VARIETY	SOUTH											
	ATHENS GA	BATON ROUGE LA	BLACK- VILLE SC	BLACK- VILLE SC (L)	CALHOUN GA	CLEMSON SC	FAIR- HOPE AL	JAY FL	STARK- VILLE MS	TALLASSEE AL	TIFTON GA	MEAN
BENNING	59.4	57.3	27.9	27.7	50.6	38.8	61.1	38.9	50.8	43.2	53.5	46.3
HASKELL	58.9	59.0	28.3	27.1	43.0	42.7	63.5	42.4	54.7	47.6	57.5	47.7
G91-221	59.1	56.3	27.3	25.3	54.4	37.8	56.2	38.1	51.4	46.8	47.0	45.4
N90-7199	59.0	58.2	26.3	26.2	50.1	44.9	49.2	38.1	41.0	35.1	51.7	43.6
SC90-80	62.6	58.1	31.9	30.5	45.5	41.0	59.0	34.5	50.4	43.9	49.9	46.1
SC91-1791	61.2	60.8	26.8	27.4	52.4	36.0	56.1	38.1	54.4	43.7	54.7	46.5
SC92-2482	59.7	38.5	26.7	27.9	54.5	33.0	56.4	35.4	51.0	50.0	61.9	45.0
SC92-902	61.2	59.3	25.4	27.1	51.5	31.8	60.8	38.6	51.5	47.4	55.0	46.3
N90-845	60.3	51.4	26.2	27.6	51.1	33.3	55.8	35.7	36.2	41.6	41.6	41.9
N93-318	56.6	49.7	25.6	25.2	58.1	41.0	33.5	38.6	42.1	39.3	43.2	41.2
N93-739	56.5	19.4	29.4	27.4	55.4	35.9	52.1	39.7	33.6	37.8	35.8	38.5
AU92-2121	53.3	52.4	21.2	27.0	46.3	38.6	53.5	35.4	49.7	37.0	52.2	42.4
AU92-916	59.2	49.9	24.6	29.9	50.9	36.9	59.6	35.7	55.4	37.1	60.0	45.4
AU91-788	55.9	47.7	26.6	23.7	52.0	33.7	54.8	37.7	40.9	36.8	45.7	41.4
L. S. D. (0.05)	6.6	14.8	4.2	3.6	8.4	9.0	14.5	N.S.	6.6	8.0	17.4	.
C. V. (%)	6.7	17.2	9.4	7.9	9.8	14.3	15.6	10.3	8.3	11.4	17.2	.

TABLE 54 -(Continued).

DELTA	
STRAIN/ VARIETY	STONEVILLE MS
BENNING	47.6
HASKELL	47.3
G91-221	49.3
N90-7199	43.9
SC90-80	50.2
SC91-1791	41.5
SC92-2482	43.0
SC92-902	49.2
N90-845	45.4
N93-318	39.1
N93-739	43.9
AU92-2121	49.2
AU92-916	54.8
AU91-788	36.2
L. S. D. (0.05)	4.2
C. V. (%)	5.4

WEST				
STRAIN/ VARIETY	BEAUMONT TX	BOSSIER CITY LA		MEAN
BENNING	23.1	43.1		33.1
HASKELL	36.6	65.8		51.2
G91-221	24.9	52.3		38.6
N90-7199	19.1	52.2		35.6
SC90-80	24.2	55.4		39.8
SC91-1791	20.0	64.0		42.0
SC92-2482	20.7	66.3		43.5
SC92-902	37.0	67.8		52.4
N90-845	15.0	64.6		39.8
N93-318	18.9	40.1		29.5
N93-739	8.1	51.3		29.7
AU92-2121	33.1	68.0		50.6
AU92-916	25.6	46.2		35.9
AU91-788	26.1	59.5		42.8
L. S. D. (0.05)	6.3	26.3		.
C. V. (%)	15.8	28.0		.

TABLE 55 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1996.

OIL PERCENTAGE

STRAIN/ VARIETY	ATHENS	BEAUMONT	BLACK-	BLACK-	CALHOUN	CLEMSON	FAIR-	FLORENCE	JACKSON	JAY	STARK-	STONE-	TALLASSEE	TIFTON	WHITE-	MEAN
	GA	TX	VILLE SC	VILLE SC (L)	GA	SC	HOPE AL	SC	SPRINGS NC	FL	VILLE MS	VILLE MS	AL	GA	NC	
BENNING	20.0	20.1	22.5	20.7	.	17.9	21.2	20.8	20.1	23.3	19.6	21.2	21.2	23.3	20.6	20.9
HASKELL	21.4	21.9	22.2	22.0	.	18.5	22.0	20.2	19.9	22.4	20.6	21.0	21.9	22.9	20.6	21.3
G91-221	21.9	22.9	22.3	20.9	.	20.0	22.7	21.2	20.5	24.5	21.7	22.9	22.0	23.2	22.0	22.1
N90-7199	20.7	21.4	23.0	21.2	.	19.0	21.5	20.0	18.6	22.9	19.2	20.5	20.4	21.9	20.8	20.8
SC90-80	20.1	20.2	22.3	20.0	.	18.6	19.8	19.5	18.6	23.0	18.5	19.7	20.0	22.0	19.9	20.2
SC91-1791	22.1	22.8	23.3	20.6	.	19.6	22.3	21.4	20.6	25.5	21.0	21.1	20.4	23.2	21.8	21.8
SC92-2482	20.4	20.7	21.3	21.0	.	18.5	21.7	20.1	19.7	23.8	19.8	20.6	20.5	21.8	20.4	20.7
SC92-902	19.6	20.7	21.1	19.5	.	18.0	20.4	19.1	19.5	22.8	18.5	19.6	19.9	20.8	19.2	19.9
N90-845	21.0	19.8	23.4	19.6	.	18.2	20.6	20.2	20.1	22.6	19.1	20.9	20.8	22.1	20.6	20.6
N93-318	20.0	20.6	22.2	19.1	.	17.9	20.2	19.6	19.1	21.8	19.5	20.8	20.6	22.7	20.1	20.3
N93-739	21.5	21.7	23.1	22.2	.	20.0	22.1	20.9	20.7	25.2	21.2	22.4	21.6	23.0	21.5	21.9
AU92-2121	21.5	22.4	22.9	20.2	.	18.5	22.8	21.9	21.5	25.1	21.5	21.0	22.5	23.2	21.3	21.9
AU92-916	21.8	21.6	22.6	22.3	.	20.0	21.8	20.6	20.1	23.4	19.7	21.2	21.5	22.5	20.8	21.4
AU91-788	21.0	20.5	22.5	19.5	.	19.0	21.0	20.2	19.7	23.1	18.2	20.7	21.1	23.0	20.5	20.7

PROTEIN PERCENTAGE

STRAIN/ VARIETY	ATHENS	BEAUMONT	BLACK-	BLACK-	CALHOUN	CLEMSON	FAIR-	FLORENCE	JACKSON	JAY	STARK-	STONE-	TALLASSEE	TIFTON	WHITE-	MEAN
	GA	TX	VILLE SC	VILLE SC (L)	GA	SC	HOPE AL	SC	SPRINGS NC	FL	VILLE MS	VILLE MS	AL	GA	NC	
BENNING	40.7	45.7	39.6	45.1	.	48.5	43.0	44.6	43.7	40.4	45.1	42.9	43.4	42.4	42.5	43.4
HASKELL	42.6	43.2	38.5	43.9	.	47.7	43.2	42.3	44.0	40.4	44.1	42.8	41.3	42.8	43.3	42.9
G91-221	42.0	44.5	37.8	45.8	.	46.8	43.1	43.5	43.1	40.3	43.5	40.5	41.9	42.8	42.5	42.7
N90-7199	41.9	43.9	38.0	43.4	.	48.0	42.3	41.9	45.3	40.6	44.8	43.3	41.4	40.9	43.2	42.8
SC90-80	44.6	46.7	40.9	46.2	.	47.2	45.8	46.8	47.1	42.1	47.8	44.6	43.8	43.2	44.1	45.1
SC91-1791	45.5	46.6	41.8	49.0	.	49.0	44.7	45.9	46.2	40.4	46.1	45.6	43.2	44.2	45.7	45.3
SC92-2482	42.8	46.5	42.0	45.6	.	50.2	43.9	45.5	44.4	40.2	45.5	44.9	43.5	44.3	41.9	44.4
SC92-902	43.7	45.3	40.6	48.0	.	49.1	44.0	43.7	43.4	40.3	49.3	44.5	44.3	42.6	43.7	44.5
N90-845	43.3	46.7	39.6	46.0	.	48.1	43.8	46.3	45.8	40.6	46.6	43.1	43.9	44.4	45.0	44.5
N93-318	43.3	45.6	40.1	48.9	.	49.6	46.1	45.7	46.2	44.1	46.9	44.7	44.1	44.0	44.7	45.3
N93-739	44.0	47.0	40.2	45.6	.	49.0	45.7	46.4	47.1	40.9	45.6	41.7	44.1	45.2	45.3	44.8
AU92-2121	42.2	43.1	38.9	44.7	.	49.4	42.9	42.6	43.0	39.7	44.7	43.7	41.4	41.6	42.8	42.9
AU92-916	42.9	43.4	40.5	42.6	.	47.0	43.9	44.3	44.5	38.8	46.3	42.4	43.7	42.0	42.7	43.2
AU91-788	41.8	45.6	40.0	46.5	.	47.6	43.7	45.1	45.0	41.5	47.7	43.5	43.5	42.2	44.1	44.1

TABLE 55 - (Continued).

GRAMS PER 100 SEED

STRAIN/ VARIETY	ATHENS	BEAUMONT	BLACK-	BLACK-	CALHOUN	CLEMSON	FAIR-	FLORENCE	JACKSON	JAY	STARK-	STONE-	TALLASSEE	TIFTON	WHITE-	MEAN
	GA	TX	VILLE SC	VILLE SC (L)	GA	SC	HOPE AL	SC	SPRINGS NC	FL	VILLE MS	VILLE MS	AL	GA	VILLE NC	
BENNING	14.4	11.8	10.7	10.8	16	15.5	14.9	13.9	15.3	15.1	.	.	15.3	19	14.5	14.4
HASKELL	16.1	15.9	11.6	11.7	18	15.4	17.8	16.1	17.2	17.2	.	.	16.4	19	15.1	16.0
G91-221	13.5	11.9	10.0	9.6	16	14.3	14.3	13.9	14.6	14.0	.	.	14.6	18	13.5	13.7
N90-7199	15.4	13.1	11.2	10.7	17	14.5	15.1	13.6	16.9	16.5	.	.	14.8	18	13.8	14.7
SC90-80	16.2	14.7	10.8	11.7	18	15.5	15.8	16.3	16.2	15.0	.	.	16.6	19	15.0	15.4
SC91-1791	16.7	14.9	11.2	11.3	17	16.6	15.2	14.6	15.7	13.5	.	.	14.4	19	15.8	15.1
SC92-2482	15.9	12.5	11.5	13.2	17	17.2	15.5	15.8	15.2	15.5	.	.	16.9	22	14.7	15.6
SC92-902	15.2	12.3	10.5	10.9	16	14.4	14.5	14.3	14.5	14.5	.	.	13.7	20	14.0	14.2
N90-845	13.2	11.4	10.1	10.3	14	12.8	14.3	13.2	14.4	12.5	.	.	13.6	18	13.0	13.1
N93-318	15.6	12.0	11.3	11.9	15	16.0	14.2	14.8	15.8	15.0	.	.	15.0	16	14.5	14.4
N93-739	14.0	13.2	12.2	13.4	16	14.4	15.9	14.5	14.7	14.3	.	.	14.8	19	13.8	14.6
AU92-2121	15.8	13.4	10.6	12.8	17	17.5	16.1	15.4	15.9	16.0	.	.	15.3	19	15.9	15.4
AU92-916	18.8	17.2	13.6	15.1	21	20.8	18.5	19.5	19.2	18.0	.	.	18.6	22	18.1	18.5
AU91-788	13.5	10.8	9.6	9.8	14	13.3	12.2	12.5	12.4	14.0	.	.	12.2	14	12.4	12.4

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

STRAIN/ VARIETY	EAST				MEAN
	FLORENCE SC	JACKSON SPRINGS NC	WHITEVILLE NC		
BENNING	10/19	10/28	10/25	10/24	
HASKELL	3	2	-1		1
G91-221	1	-3	-5		-2
N90-7199	3	4	4		4
SC90-80	4	3	-1		2
SC91-1791	0	-3	-2		-2
SC92-2482	4	0	4		3
SC92-902	4	2	3		3
N90-845	5	4	4		4
N93-318	-1	2	-5		-1
N93-739	1	-3	-5		-2
AU92-2121	5	2	2		3
AU92-916	4	3	4		4
AU91-788	1	2	2		2

TABLE 56 - (Continued).

SOUTH

STRAIN/ VARIETY	ATHENS	BATON	BLACKS-	BLACKS-	CALHOUN	CLEMSON	FAIR-	JAY	STARK-	TALLASSEE	TIFTON	MEAN
	GA	ROUGE	VILLE	VILLE			HOPE	VILLE	AL	FL	MS	
	10/19	10/24	10/11	10/19	GA	SC	AL	FL	MS	AL	GA	10/16
BENNING	10/19	10/24	10/11	10/19	.	10/19	10/11	10/17	10/10	10/15	10/14	10/16
HASKELL	0	0	0	1	.	0	1	2	0	2	-1	1
G91-221	-1	0	1	0	.	0	1	0	0	2	3	0
N90-7199	5	3	1	1	.	1	2	3	3	2	2	2
SC90-80	1	4	-1	1	.	-1	1	6	0	2	2	1
SC91-1791	-1	1	0	1	.	-1	1	3	0	0	2	0
SC92-2482	2	0	1	3	.	4	5	0	2	4	8	3
SC92-902	5	2	1	1	.	3	5	3	2	4	4	3
N90-845	5	3	1	2	.	3	5	0	-1	3	4	2
N93-318	-1	0	-2	1	.	-1	-2	0	-3	1	-1	-1
N93-739	-1	4	-2	2	.	0	-3	3	-3	1	1	0
AU92-2121	4	2	4	3	.	5	4	1	5	4	3	3
AU92-916	3	2	1	2	.	3	3	4	3	4	1	3
AU91-788	4	0	2	1	.	4	1	0	0	2	2	1

TABLE 56 - (Continued).

DELTA	
STRAIN/ VARIETY	STONEVILLE MS
BENNING	10/17
HASKELL	1
G91-221	0
N90-7199	3
SC90-80	1
SC91-1791	0
SC92-2482	2
SC92-902	3
N90-845	4
N93-318	0
N93-739	1
AU92-2121	1
AU92-916	2
AU91-788	1

WEST	
STRAIN/ VARIETY	BEAUMONT TX
BENNING	10/13
HASKELL	4
G91-221	0
N90-7199	4
SC90-80	-1
SC91-1791	-1
SC92-2482	1
SC92-902	2
N90-845	0
N93-318	-3
N93-739	0
AU92-2121	1
AU92-916	2
AU91-788	-1

TABLE 57 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1996.

STRAIN/ VARIETY	EAST			MEAN
	FLORENCE SC	JACKSON SPRINGS NC	WHITEVILLE NC	
BENNING	38	34	35	36
HASKELL	39	34	35	36
G91-221	42	36	39	39
N90-7199	33	31	34	33
SC90-80	42	29	42	38
SC91-1791	41	35	42	39
SC92-2482	38	34	40	37
SC92-902	42	36	42	40
N90-845	34	30	32	32
N93-318	36	32	36	35
N93-739	29	25	30	28
AU92-2121	46	35	38	39
AU92-916	39	33	37	37
AU91-788	38	34	38	36

TABLE 57 - (Continued).

STRAIN/ VARIETY	SOUTH											
	ATHENS GA	BATON ROUGE LA	BLACK- VILLE SC	BLACK- VILLE SC (L)	CALHOUN GA	CLEMSON SC	FAIR- HOPE AL	JAY FL	STARK- VILLE MS	TALLASSEE AL	TIFTON GA	MEAN
BENNING	39	37	44	30	41	37	36	37	26	37	25	35
HASKELL	37	39	43	33	41	33	33	35	26	41	25	35
G91-221	39	36	45	31	41	36	36	39	23	38	27	36
N90-7199	31	27	37	30	38	34	32	34	20	31	22	31
SC90-80	40	36	44	32	42	36	34	40	27	42	25	36
SC91-1791	40	45	48	35	43	36	39	40	24	42	29	38
SC92-2482	37	44	44	31	44	33	36	40	26	39	30	37
SC92-902	41	43	45	35	41	37	39	39	35	41	33	39
N90-845	34	32	38	29	40	28	29	33	17	33	20	30
N93-318	35	31	37	30	40	35	30	36	22	37	26	33
N93-739	29	22	28	18	35	25	21	32	15	25	14	24
AU92-2121	39	43	46	34	47	37	37	41	30	44	28	39
AU92-916	39	37	46	31	41	36	37	41	26	41	24	36
AU91-788	39	36	43	31	44	36	36	37	31	40	26	36

TABLE 57 - (Continued).

DELTA	
STRAIN/ VARIETY	STONEVILLE MS
BENNING	27
HASKELL	37
G91-221	30
N90-7199	24
SC90-80	34
SC91-1791	36
SC92-2482	39
SC92-902	47
N90-845	21
N93-318	25
N93-739	17
AU92-2121	42
AU92-916	38
AU91-788	37

WEST			
STRAIN/ VARIETY	BEAUMONT TX	BOSSIER CITY LA	MEAN
BENNING	17	33	25
HASKELL	20	35	28
G91-221	16	32	24
N90-7199	13	28	20
SC90-80	18	35	26
SC91-1791	16	39	27
SC92-2482	16	41	29
SC92-902	21	41	31
N90-845	7	30	19
N93-318	15	30	22
N93-739	11	20	15
AU92-2121	22	34	28
AU92-916	15	39	27
AU91-788	19	37	28

TABLE 58 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1996.

STRAIN/ VARIETY	EAST			MEAN
	FLORENCE SC	JACKSON SPRINGS NC	WHITEVILLE NC	
BENNING	4	2	3	3
HASKELL	4	3	4	4
G91-221	3	2	3	3
N90-7199	3	2	3	3
SC90-80	3	2	3	3
SC91-1791	3	2	3	3
SC92-2482	3	2	3	3
SC92-902	3	3	4	3
N90-845	3	3	3	3
N93-318	3	2	3	3
N93-739	2	2	2	2
AU92-2121	4	3	4	3
AU92-916	3	3	4	3
AU91-788	3	2	3	3

TABLE 58 - (Continued).

SOUTH

STRAIN/ VARIETY	ATHENS	BATON	BLACK-	BLACK-	CALHOUN	CLEMSON	FAIR-	JAY	STARK-	TALLASSEE	TIFTON	MEAN
	GA	ROUGE LA	VILLE SC	VILLE SC (L)	GA	SC	HOPE AL	FL	VILLE MS	AL	GA	
BENNING	2	3	2	1	3	1	1	1	1	1	1	1
HASKELL	3	4	3	1	4	1	1	2	2	1	1	2
G91-221	2	3	2	1	3	1	1	1	1	1	1	1
N90-7199	2	2	2	1	2	1	1	1	1	1	1	1
SC90-80	2	4	2	1	3	1	1	1	2	1	1	2
SC91-1791	2	3	2	1	3	1	1	1	1	1	1	2
SC92-2482	2	2	1	1	2	1	1	1	1	1	1	1
SC92-902	2	3	3	1	3	1	1	2	2	1	1	2
N90-845	2	2	2	1	2	1	1	1	1	1	1	1
N93-318	2	2	1	1	2	1	1	1	1	1	1	1
N93-739	2	1	1	1	1	1	1	1	1	1	1	1
AU92-2121	2	3	2	2	3	1	2	2	2	1	1	2
AU92-916	2	4	3	1	3	1	2	2	2	1	1	2
AU91-788	2	3	4	1	3	1	1	2	2	1	1	2

TABLE 58 - (Continued).

DELTA	
STRAIN/ VARIETY	STONEVILLE MS
BENNING	2
HASKELL	3
G91-221	2
N90-7199	2
SC90-80	2
SC91-1791	2
SC92-2482	2
SC92-902	3
N90-845	2
N93-318	2
N93-739	2
AU92-2121	3
AU92-916	2
AU91-788	3

WEST				
STRAIN/ VARIETY	BEAUMONT TX	BOSSIER CITY LA		MEAN
BENNING	1	1		1
HASKELL	1	2		2
G91-221	1	1		1
N90-7199	1	1		1
SC90-80	1	1		1
SC91-1791	1	1		1
SC92-2482	1	1		1
SC92-902	1	1		1
N90-845	1	1		1
N93-318	1	1		1
N93-739	1	1		1
AU92-2121	1	2		2
AU92-916	1	2		1
AU91-788	1	2		2

TABLE 59 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1996.

EAST

STRAIN/ VARIETY	JACKSON SPRINGS		WHITEVILLE		MEAN
	NC	NC	NC	NC	
BENNING	2		2		2
HASKELL	2		2		2
G91-221	2		2		2
N90-7199	2		3		3
SC90-80	2		2		2
SC91-1791	2		2		2
SC92-2482	2		2		2
SC92-902	2		2		2
N90-845	2		3		3
N93-318	2		2		2
N93-739	2		2		2
AU92-2121	2		2		2
AU92-916	2		2		2
AU91-788	2		2		2

SOUTH

STRAIN/ VARIETY	ATHENS	BATON	CAL-	FAIR-	STARK-		TALLASSEE	TIFTON	MEAN
	GA	ROUGE	HOUN	HOPE	JAY	VILLE	AL	GA	
BENNING	2	2	2	1	3	2	1	1	2
HASKELL	2	1	2	1	2	2	1	2	2
G91-221	2	2	1	1	2	2	1	1	1
N90-7199	2	2	2	1	2	2	1	2	2
SC90-80	2	2	2	2	2	2	1	2	2
SC91-1791	2	2	2	1	2	2	1	1	2
SC92-2482	2	2	1	1	2	2	1	1	2
SC92-902	2	2	1	1	3	3	1	1	2
N90-845	2	2	2	1	3	2	1	1	2
N93-318	2	2	1	1	3	2	1	2	2
N93-739	2	2	2	2	3	2	1	2	2
AU92-2121	2	2	1	1	3	2	1	1	2
AU92-916	2	1	2	1	3	2	1	1	2
AU91-788	2	2	2	1	3	2	1	1	2

TABLE 59 - (Continued).

DELTA	
STRAIN/ VARIETY	STONEVILLE MS
BENNING	3
HASKELL	2
G91-221	2
N90-7199	2
SC90-80	2
SC91-1791	2
SC92-2482	3
SC92-902	2
N90-845	2
N93-318	2
N93-739	2
AU92-2121	2
AU92-916	2
AU91-788	2

WEST	
STRAIN/ VARIETY	BEAUMONT TX
BENNING	2
HASKELL	2
G91-221	2
N90-7199	1
SC90-80	2
SC91-1791	2
SC92-2482	2
SC92-902	1
N90-845	1
N93-318	1
N93-739	2
AU92-2121	1
AU92-916	1
AU91-788	1

PRELIMINARY GROUP VII**1996**

Preliminary Group VII nurseries were planted at 7 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 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, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. BENNING	HUTCHESON	X	COKER 6738	F6
2. HASKELL	JOHNSTON	X	BRAXTON	F5
3. TN690	A5474	X	TN82-94	F5
4. TSB92-3986	AU82-211	X	BRAXTON	F5
5. G92-2167	C082-622	X	BRIM	F6
6. G92-2283	C082-622	X	G83-12	F6
7. G92-2707	COOK	X	BRYAN	F6
8. G92-1297	DOLES	X	CO6727	F5
9. G92-1557	DOLES	X	CO6727	F5
10. F94-1575	A3127	X	F87-4039	F8
11. F94-1604	F85-1108	X	F85-7356	F9
12. F94-1645	F85-1108	X	F85-7356	F9
13. F94-2182	BEDFORD	X	F85-1028	F9
14. N94-8422	YOUNG	X	TOKYO	F4
15. N94-8438	YOUNG	X	TOKYO	F4
16. N94-7456	NTCPR90-143	X	PEARL	F4
17. N94-7441	NTCPR90-143	X	PEARL	F4
18. N94-7081	N87-984	X	TCPR90-299	F4
19. SC93-807	COKER 6847	X	HAGOOD	F5
20. SC93-906	COKER 6847	X	HAGOOD	F5
21. SC93-1523	HAGOOD	X	COKER 6738	F5
22. SC93-2082	COKER 6738	X	G83-198	F5
23. SC93-2452	COKER 82-622	X	HOWARD	F5
24. N94-29	COOK	X	CLIFFORD	F6
25. N94-508	COOK	X	CLIFFORD	F6
26. N94-552	HOLLADAY	X	BRIM	F6
27. N94-784	N89-1026	X	CLIFFORD	F5
28. N94-532	COOK	X	CLIFFORD	F6
29. AU92-1770	D84-7174	X	AU85-1088	
30. AU92-1676	D84-7174	X	AU85-1088	
31. AU93-1839	TN87-198	X	SC84-1531	
32. AU92-1909	AU82-211	X	N85-574	

TABLE 61 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VII, 1996.

STRAIN/ VARIETY	SEED	MAT	LODGING	HEIGHT	QUALITY	SEED	---PERCENT---		STEM	M.a.	M.i.	SCN	SCN	SCN
	YIELD	INDEX				SIZE	PROTEIN	OIL	CANKER	TN	TN	3	5	14
BENNING	50.4	10/18	1.5	33.1	1.8	14.6	41.9	21.7	R	2.2	1.7	2.0	5.0	3.8
HASKELL	51.4	0.7	2.1	36.6	1.8	17.4	42.0	21.8	R	2.7	2.2	5.0	5.0	4.9
TN690	43.7	-5.2	1.8	33.9	1.8	14.4	43.3	21.2	R	4.2	4.0	1.1	5.0	3.0
TSB92-3986	42.8	2.0	1.8	36.3	2.3	21.3	44.7	20.3	R/S	3.0	2.8	4.4	5.0	5.0
G92-2167	49.0	2.3	2.0	43.8	1.6	12.3	41.6	20.8	S	2.7	3.0	1.6	5.0	4.3
G92-2283	46.6	0.8	2.0	40.4	2.0	14.7	42.7	20.4	R	3.2	1.5	1.4	5.0	4.9
G92-2707	47.1	0.5	2.3	39.6	1.8	16.7	42.8	22.2	R/S	2.6	1.2	1.2	4.5	4.5
G92-1297	46.7	-2.7	1.9	34.6	1.8	13.1	44.8	20.4	R	3.2	2.7	1.7	5.0	5.0
G92-1557	48.6	-2.7	1.8	36.4	1.8	12.9	44.3	20.7	R	3.2	2.2	1.1	5.0	4.7
F94-1575	40.5	-3.0	2.0	36.8	1.8	14.2	44.9	19.6	R/S	3.8	3.7	5.0	5.0	5.0
F94-1604	43.6	-2.0	2.5	41.4	1.8	13.5	42.8	21.1	S	2.7	3.0	1.4	4.9	4.9
F94-1645	46.5	-3.7	2.8	39.8	2.0	12.7	42.8	21.2	S	3.0	2.3	1.3	5.0	5.0
F94-2182	38.8	-6.5	2.8	36.0	2.0	16.2	45.5	19.4	R	2.2	2.6	1.8	5.0	1.5
N94-8422	42.4	0.3	2.0	34.3	2.3	23.6	42.7	20.9	R	3.0	4.3	5.0	5.0	4.7
N94-8438	45.6	0.8	2.0	42.8	2.0	23.4	42.4	21.4	R	3.2	4.0	5.0	4.8	4.8
N94-7456	45.4	0.3	1.5	32.8	1.8	9.2	43.8	20.1	R	3.7	3.0	5.0	4.8	5.0
N94-7441	47.2	1.8	1.5	31.3	1.8	8.5	44.9	19.0	R	3.5	2.2	5.0	4.9	5.0
N94-7081	39.6	-0.8	1.6	36.1	1.8	13.2	48.0	19.4	S	3.8	4.5	5.0	5.0	4.9
SC93-807	43.2	2.0	2.0	40.6	1.6	14.7	44.1	20.3	R/S	3.0	2.5	1.3	4.8	5.0
SC93-906	42.5	3.8	2.1	41.6	1.8	15.7	42.8	20.9	R	3.3	3.0	1.3	5.0	5.0
SC93-1523	44.1	2.7	2.0	41.4	1.8	14.0	43.2	22.1	R	4.4	3.0	1.0	5.0	4.9
SC93-2082	47.7	3.8	2.1	42.6	1.6	14.1	42.6	21.3	R	2.2	1.8	1.0	5.0	4.7
SC93-2452	45.1	2.8	1.8	41.0	1.8	13.7	42.7	21.3	S	2.7	2.2	1.7	4.9	5.0
N94-29	51.6	-8.7	1.5	32.4	1.8	20.5	43.1	21.1	R/S	2.8	2.3	5.0	5.0	4.6
N94-508	51.7	-1.7	2.1	34.5	1.8	17.4	41.3	22.5	R/S	2.8	2.3	5.0	5.0	4.6
N94-552	54.1	-3.3	1.8	37.4	1.8	14.3	43.4	20.6	S	2.8	3.3	5.0	5.0	4.9
N94-784	46.8	-10.8	1.5	34.0	2.3	18.1	42.8	23.1	S	3.2	4.0	5.0	5.0	4.3
N94-532	48.9	-3.2	1.5	38.6	1.8	17.1	44.6	19.8	S	2.8	3.5	5.0	5.0	5.0
AU92-1770	44.4	1.8	1.9	37.1	2.0	13.6	43.7	21.4	R	2.5	1.5	2.5	3.5	3.9
AU92-1676	41.4	0.8	2.4	43.6	1.8	13.7	43.9	20.5	R/S	2.2	1.5	3.0	5.0	1.0
AU93-1839	45.4	1.8	2.1	43.3	2.0	16.1	44.4	20.0	R	2.7	3.5	4.2	5.0	1.3
AU92-1909	43.6	-2.7	2.4	37.8	2.0	15.7	43.4	23.1	S	2.8	2.2	4.5	5.0	1.9
OVERALL MEAN	45.8						43.5	20.9						
L.S.D. (05)	6.9						1.0	0.7						
C.V.	10%						2%	2%						

TABLE 62 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1996.

STRAIN/ VARIETY	ATHENS	BEAU-	BLACK-	JAY	STONE-	TALLASSEE	WHITE-	MEAN
	GA	MONT TX†	VILLE SC†	FL	VILLE MS	AL	VILLE NC†	
BENNING	57.6	32.6	21.8	43.0	46.8	54.1	40.9	50.4
HASKELL	61.3	34.2	20.4	44.2	45.4	54.5	40.5	51.4
TN690	55.2	9.6-	23.3	38.9	48.6	31.9-	33.4	43.7
TSB92-3986	51.3-	37.9	23.4	40.1	39.1-	40.9-	41.1	42.8
G92-2167	59.2	16.5	19.3	40.1	44.3	52.6	47.0	49.0
G92-2283	58.6	38.2	20.4	35.4	44.4	48.0	32.6	46.6
G92-2707	54.2	23.3	21.2	40.1	46.4	47.8	41.2	47.1
G92-1297	55.4	32.0	18.3	46.0	38.5-	47.1	43.1	46.7
G92-1557	65.9+	32.8	16.9	41.3	40.1	47.2	51.2	48.6
F94-1575	47.1-	28.0	19.4	31.2	39.0-	44.6	39.0	40.5
F94-1604	57.7	32.1	22.1	34.2	40.2	42.2-	41.9	43.6
F94-1645	56.0	32.2	17.5	39.5	39.0-	51.6	44.1	46.5
F94-2182	54.6	27.3	20.6	36.0	23.6-	40.9-	31.6	38.8-
N94-8422	53.7	27.3	17.2	37.1	37.0-	42.0-	34.4	42.4
N94-8438	59.4	20.4	23.0	32.4	36.9-	53.9	33.4	45.6
N94-7456	58.0	15.7	21.0	40.1	36.8-	46.6	44.4	45.4
N94-7441	61.1	12.7-	27.2	41.9	39.8	46.2	47.3	47.2
N94-7081	48.6-	11.4-	18.8	30.7	36.2-	42.8-	36.3	39.6-
SC93-807	52.4	44.9	22.2	38.3	33.9-	48.2	35.4	43.2
SC93-906	57.3	34.9	22.8	30.7	38.7-	43.5	40.4	42.5
SC93-1523	62.9	29.9	21.4	33.0	30.8-	49.9	45.2	44.1
SC93-2082	64.0+	26.5	17.3	36.0	42.5	48.4	34.2	47.7
SC93-2452	55.7	34.9	20.5	36.5	42.3	46.0	45.8	45.1
N94-29	66.4+	24.7	29.2	31.8	55.2+	53.2	39.2	51.6
N94-508	61.5	21.7	26.0	46.6	50.9	47.9	43.0	51.7
N94-552	72.8+	23.1	28.7	38.3	49.3	56.0	51.4	54.1
N94-784	63.4	10.7-	29.5	28.9	43.3	51.6	39.8	46.8
N94-532	67.8+	16.6	24.6	32.4	47.2	48.4	43.0	48.9
AU92-1770	58.9	28.4	20.9	36.5	34.3-	48.0	38.5	44.4
AU92-1676	49.4-	29.9	20.8	36.5	34.7-	44.9	27.7	41.4
AU93-1839	59.0	18.6	19.5	34.8	38.6-	49.5	43.6	45.4
AU92-1909	53.0	28.8	22.9	32.4	37.7-	51.5	45.9	43.6
L.S.D. (0.05)	6.2	17.6	7.8		7.4	11.1	18.0	6.9
C.V. (%)	5.2	33.0	17.6		8.9	11.1	20.5	10.2

†Not included in Mean.

TABLE 63 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	STONEVILLE MS	TALLASSEE AL	WHITEVILLE NC	MEAN
BENNING	21.1	21.2	22.6	21.2	21.9	21.5	21.7
HASKELL	21.0	20.4	22.9	21.1	22.0	20.8	21.8
TN690	20.3	20.9	22.7	20.6	21.2	20.5	21.2
TSB92-3986	19.5	19.8	21.9	20.0	19.9	19.5	20.3
G92-2167	20.2	20.1	22.0	20.3	20.8	19.8	20.8
G92-2283	20.0	19.9	21.2	19.9	20.5	20.4	20.4
G92-2707	21.9	21.1	23.2	21.5	22.2	22.2	22.2
G92-1297	20.4	19.2	21.8	19.3	20.1	19.9	20.4
G92-1557	20.4	19.7	22.3	20.1	20.1	21.1	20.7
F94-1575	19.0	18.5	21.3	18.9	19.0	17.9	19.6
F94-1604	19.6	20.3	22.0	21.8	20.8	21.1	21.1
F94-1645	20.0	21.1	21.9	21.8	20.9	20.8	21.2
F94-2182	18.5	19.0	20.6	18.9	19.5	18.6	19.4
N94-8422	20.3	19.5	21.7	20.9	20.7	20.0	20.9
N94-8438	19.9	20.4	24.4	20.7	20.6	19.8	21.4
N94-7456	19.5	20.0	20.9	19.7	20.3	20.4	20.1
N94-7441	18.5	17.9	20.3	18.6	18.4	18.5	19.0
N94-7081	18.5	18.4	21.8	18.4	18.9	17.9	19.4
SC93-807	19.9	19.4	21.6	19.6	20.0	20.1	20.3
SC93-906	20.4	21.1	22.2	20.3	20.6	20.9	20.9
SC93-1523	21.5	21.4	23.0	21.8	22.1	20.8	22.1
SC93-2082	20.2	20.6	22.9	21.0	21.2	21.0	21.3
SC93-2452	20.3	20.2	23.4	21.1	20.3	22.1	21.3
N94-29	19.9	21.0	23.1	20.2	21.3	20.8	21.1
N94-508	21.1	21.7	24.8	21.9	22.2	19.3	22.5
N94-552	20.2	20.9	22.3	19.7	20.3	23.5	20.6
N94-784	22.7	20.7	24.3	22.9	22.5	20.0	23.1
N94-532	19.7	18.6	21.0	19.0	19.6	21.5	19.8
AU92-1770	20.9	20.6	23.1	20.6	21.1	20.9	21.4
AU92-1676	20.0	19.5	21.3	20.1	20.5	20.3	20.5
AU93-1839	19.0	19.7	21.6	19.5	19.8	19.6	20.0
AU92-1909	22.7	21.2	24.9	22.8	21.8	22.0	23.1

TABLE 64 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	STONEVILLE MS	TALLASSEE AL	WHITEVILLE NC	MEAN
BENNING	42.6	45.4	41.1	41.9	41.9	42.6	41.9
HASKELL	43.2	45.3	41.1	42.5	41.1	43.6	42.0
TN690	43.8	48.0	42.7	44.3	42.5	42.7	43.3
TSB92-3986	45.1	45.8	42.9	45.0	45.7	44.5	44.7
G92-2167	43.2	46.5	39.4	43.0	40.8	43.3	41.6
G92-2283	44.3	45.3	41.4	43.8	41.2	41.9	42.7
G92-2707	43.6	46.3	41.4	44.3	42.0	41.9	42.8
G92-1297	44.7	47.8	43.4	46.0	45.2	45.6	44.8
G92-1557	45.9	47.5	42.9	45.3	42.9	43.6	44.3
F94-1575	45.8	48.6	43.2	46.8	43.8	47.1	44.9
F94-1604	44.0	47.9	41.9	43.3	41.9	41.7	42.8
F94-1645	44.0	48.4	42.2	43.0	41.8	43.3	42.8
F94-2182	46.5	47.6	45.3	46.0	44.1	46.1	45.5
N94-8422	43.2	45.7	42.5	43.2	41.8	44.2	42.7
N94-8438	44.1	46.6	40.1	43.4	42.1	42.6	42.4
N94-7456	44.6	43.8	44.1	43.6	42.7	43.0	43.8
N94-7441	46.5	48.7	44.2	44.6	44.3	45.8	44.9
N94-7081	49.6	51.0	47.7	48.3	46.4	50.6	48.0
SC93-807	45.1	48.1	43.7	45.1	42.4	43.6	44.1
SC93-906	44.1	45.1	41.7	43.5	41.7	44.2	42.8
SC93-1523	44.8	46.1	42.2	43.3	42.3	41.3	43.2
SC93-2082	42.9	46.7	41.3	44.1	42.0	42.3	42.6
SC93-2452	42.3	44.9	41.6	44.1	42.7	41.6	42.7
N94-29	44.5	47.7	42.5	42.7	42.5	41.9	43.1
N94-508	43.1	44.8	40.3	41.3	40.5	45.1	41.3
N94-552	44.4	45.7	42.0	44.2	42.8	42.4	43.4
N94-784	43.3	42.1	41.6	42.9	43.2	44.3	42.8
N94-532	45.1	47.8	43.5	45.0	44.6	41.8	44.6
AU92-1770	44.9	45.8	42.7	44.3	42.7	43.4	43.7
AU92-1676	44.9	47.7	42.1	45.9	42.5	44.7	43.9
AU93-1839	44.7	47.1	42.4	46.4	44.1	42.4	44.4
AU92-1909	44.1	46.2	42.9	44.1	42.3	45.0	43.4

TABLE 65 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	TALLASSEE AL	WHITEVILLE NC	MEAN
BENNING	15.1	12.9	14.1	14.7	13.7	14.6
HASKELL	17.2	15.0	18.3	16.8	15.4	17.4
TN690	13.8	13.2	14.0	15.3	13.2	14.4
TSB92-3986	22.4	17.5	20.2	.	18.8	21.3
G92-2167	13.0	10.5	11.6	12.2	11.3	12.3
G92-2283	15.0	11.8	15.9	13.1	12.2	14.7
G92-2707	15.4	14.0	19.4	15.2	13.1	16.7
G92-1297	13.7	11.4	13.1	12.4	12.7	13.1
G92-1557	14.4	10.8	12.0	12.4	12.2	12.9
F94-1575	13.9	12.6	15.1	13.6	14.6	14.2
F94-1604	13.8	11.4	14.9	11.8	12.1	13.5
F94-1645	12.8	11.5	14.0	11.2	12.3	12.7
F94-2182	16.5	15.2	17.3	14.7	14.1	16.2
N94-8422	22.8	17.8	26.0	22.1	21.2	23.6
N94-8438	24.1	20.3	23.1	22.9	19.9	23.4
N94-7456	8.5	7.8	10.9	8.3	7.7	9.2
N94-7441	8.7	7.3	9.3	7.6	7.5	8.5
N94-7081	13.0	11.8	14.1	12.4	11.9	13.2
SC93-807	15.4	14.2	14.0	14.7	12.7	14.7
SC93-906	18.2	14.6	14.0	14.9	15.4	15.7
SC93-1523	15.5	12.1	12.3	14.3	14.3	14.0
SC93-2082	14.7	10.5	13.9	13.6	11.9	14.1
SC93-2452	14.9	11.9	13.9	12.3	12.2	13.7
N94-29	21.8	15.9	21.0	18.6	17.7	20.5
N94-508	16.5	14.9	19.0	16.8	16.1	17.4
N94-552	14.0	13.7	15.0	13.8	13.1	14.3
N94-784	17.0	12.3	19.1	18.2	15.8	18.1
N94-532	17.1	14.5	19.9	14.2	15.5	17.1
AU92-1770	14.8	11.8	12.0	14.0	12.2	13.6
AU92-1676	15.0	12.3	11.9	14.1	12.5	13.7
AU93-1839	17.9	14.5	14.0	16.4	13.8	16.1
AU92-1909	15.7	14.6	15.3	16.0	14.7	15.7

TABLE 66 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1996.

STRAIN/ VARIETY	ATHENS	BEAUMONT	BLACK-	JAY	STONE-	TALLASSEE	WHITE-	MEAN
	GA	TX	VILLE SC	FL	VILLE MS	AL	VILLE NC	
BENNING	36	18	40	37	24	36	41	33
HASKELL	40	22	37	35	30	42	34	37
TN690	40	17	38	35	27	34	33	34
TSB92-3986	41	22	41	36	26	42	38	36
G92-2167	45	34	40	40	51	40	44	44
G92-2283	41	23	45	38	41	42	35	40
G92-2707	43	16	47	38	31	47	39	40
G92-1297	35	20	37	36	30	38	33	35
G92-1557	35	21	35	36	35	40	36	36
F94-1575	32	23	42	37	34	45	32	37
F94-1604	39	29	48	38	44	45	40	41
F94-1645	39	30	39	38	40	42	36	40
F94-2182	36	29	34	35	35	39	34	36
N94-8422	35	23	37	35	32	35	35	34
N94-8438	46	30	42	38	41	46	46	43
N94-7456	33	15	29	28	34	37	31	33
N94-7441	34	10	34	30	26	36	31	31
N94-7081	40	12	38	36	26	43	37	36
SC93-807	46	39	40	40	31	46	44	41
SC93-906	44	25	47	42	34	47	41	42
SC93-1523	43	24	43	40	37	46	39	41
SC93-2082	41	23	38	38	48	44	33	43
SC93-2452	42	26	45	40	38	44	37	41
N94-29	33	22	32	36	26	35	29	32
N94-508	35	16	36	38	24	41	35	35
N94-552	38	11	36	37	35	40	36	37
N94-784	32	17	38	37	29	38	38	34
N94-532	40	19	37	38	34	43	35	39
AU92-1770	36	17	34	36	33	44	35	37
AU92-1676	45	26	45	40	44	46	34	44
AU93-1839	43	25	43	40	44	46	41	43
AU92-1909	40	20	39	38	29	45	36	38

TABLE 67 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1996.

STRAIN/ VARIETY	ATHENS	BEAUMONT	BLACK-	JAY	STONE-	TALLASSEE	WHITE-	MEAN
	GA	TX	VILLE SC	FL	VILLE MS	AL	VILLE NC	
BENNING	2	1	1	1	2	1	3	2
HASKELL	3	1	2	2	2	2	4	2
TN690	2	1	2	2	2	1	3	2
TSB92-3986	2	1	2	2	2	1	4	2
G92-2167	2	1	1	2	3	1	3	2
G92-2283	2	1	2	2	3	1	3	2
G92-2707	3	1	2	2	3	2	3	2
G92-1297	2	1	2	2	2	2	4	2
G92-1557	2	1	2	2	2	1	3	2
F94-1575	2	1	2	2	3	1	4	2
F94-1604	2	2	2	3	3	2	4	3
F94-1645	3	1	2	3	4	2	4	3
F94-2182	3	2	3	3	4	1	3	3
N94-8422	2	2	3	3	2	1	3	2
N94-8438	2	2	2	2	3	1	3	2
N94-7456	2	1	1	1	2	1	2	2
N94-7441	2	1	2	1	2	1	3	2
N94-7081	3	1	2	1	2	1	4	2
SC93-807	3	2	1	1	4	1	4	2
SC93-906	2	1	2	2	4	1	4	2
SC93-1523	2	1	2	2	3	2	3	2
SC93-2082	2	1	1	2	3	2	3	2
SC93-2452	2	1	2	2	2	1	4	2
N94-29	2	1	1	1	2	1	3	2
N94-508	3	1	2	2	3	1	3	2
N94-552	3	1	2	1	2	1	3	2
N94-784	2	1	1	1	2	1	3	2
N94-532	2	1	1	1	2	1	3	2
AU92-1770	2	1	1	2	2	2	3	2
AU92-1676	3	1	1	2	4	2	4	2
AU93-1839	2	2	1	2	3	2	4	2
AU92-1909	3	1	2	2	2	3	3	2

TABLE 68 - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1996.

STRAIN/ VARIETY	ATHENS GA	BEAUMONT TX	JAY FL	STONEVILLE MS	TALLASSEE AL	WHITEVILLE NC	MEAN
BENNING	2	2	2	2	1	2	2
HASKELL	2	2	2	2	1	3	2
TN690	2	2	2	2	1	2	2
TSB92-3986	2	2	2	3	.	3	2
G92-2167	2	2	2	2	1	2	2
G92-2283	2	1	3	2	1	2	2
G92-2707	2	2	2	2	1	2	2
G92-1297	2	2	2	2	1	2	2
G92-1557	2	2	2	2	1	2	2
F94-1575	2	1	2	2	1	2	2
F94-1604	2	2	2	2	1	2	2
F94-1645	2	2	3	2	1	2	2
F94-2182	2	3	2	3	1	3	2
N94-8422	2	2	3	3	1	3	2
N94-8438	2	2	2	3	1	3	2
N94-7456	2	2	2	2	1	2	2
N94-7441	2	2	2	2	1	2	2
N94-7081	2	2	2	2	1	2	2
SC93-807	2	1	2	2	1	2	2
SC93-906	2	2	2	2	1	2	2
SC93-1523	2	2	2	2	1	2	2
SC93-2082	2	2	2	2	1	3	2
SC93-2452	2	2	2	2	1	2	2
N94-29	2	3	2	2	1	3	2
N94-508	2	2	2	2	1	2	2
N94-552	2	2	2	2	1	2	2
N94-784	2	4	3	3	1	2	2
N94-532	2	2	2	2	1	3	2
AU92-1770	2	2	2	3	1	2	2
AU92-1676	2	2	2	2	1	2	2
AU93-1839	2	2	3	2	1	2	2
AU92-1909	2	2	3	2	1	2	2

UNIFORM GROUP VIII**1996**

Uniform Group VIII nurseries were planted in 16 environments. Data were obtained from 13 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, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. COOK	BRAXTON	X	YOUNG	F6
2. MAXCY	D76-9665	X	JOHNSTON	F6
3. G91-270	CO82-622	X	BRYAN	F5
4. G91-2244	F81-2815	X	COLQUITT	F7
5. SC91-1756	COKER 6847	X	STONEWALL	F5
6. SC91-2447	NK' S S83-30	X	HOWARD	F5
7. SC92-3091	HAGOOD	X	COKER 6738	F5
8. SC92-2677	STONEWALL	X	COKER 6738	F5
9. AU91-13	N85-492	X	CO85-483	
10. AU91-1970	AU82-211	X	CO85-483	
11. AU91-41	N85-492	X	CO85-483	

TABLE 70 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 1996.

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1996	95-96	94-96	1996	95-96	94-96	1996	95-96	94-96
1. COOK	44.8	40.0	44.1	43.6	42.7	43.2	20.6	20.5	20.4
2. MAXCY	42.1	38.6	41.1	42.8	42.3	42.4	21.1	20.7	20.6
3. G91-270	43.2	.	.	41.7	.	.	22.0	.	.
4. G91-2244	42.8	.	.	43.9	.	.	20.1	.	.
5. SC91-1756	41.7	40.3	.	43.3	42.8	.	20.7	20.6	.
6. SC91-2447	40.3	38.1	.	43.7	43.1	.	20.7	20.3	.
7. SC92-3091	44.0	.	.	43.6	.	.	21.2	.	.
8. SC92-2677	40.4	.	.	42.9	.	.	21.2	.	.
9. AU91-13	42.7	39.5	.	41.8	41.3	.	21.4	21.2	.
10. AU91-1970	41.1	38.8	.	43.1	42.5	.	21.0	20.9	.
11. AU91-41	41.3	38.8	.	41.1	40.4	.	22.7	21.9	.

†Data from Tallassee, AL (L) (1995); Jay, FL (1994) not included in Mean.

BOTANICAL TRAITS

STRAIN/ VARIETY	FL.	MAT.	LODGING	HEIGHT	SEED	SEED	PUB.	POD
	COLOR	DATE			QUALITY	SIZE	COLOR	COLOR
1. COOK	P	0.0	1.7	36.8	1.6	15.4	T	T
2. MAXCY	P	1.5	2.0	36.3	1.6	14.5	T	T
3. G91-270	W	-1.2	1.9	39.0	1.6	13.2	G	T
4. G91-2244	W	2.4	1.9	35.7	1.8	14.9	T	T
5. SC91-1756	W	1.2	1.8	38.4	1.6	15.3	G	T
6. SC91-2447	P	3.4	1.9	38.1	1.5	14.7	T	T
7. SC92-3091	P	3.7	1.6	35.9	1.5	15.1	T	T
8. SC92-2677	P	3.7	1.8	36.6	1.7	16.0	T	T
9. AU91-13	P	4.4	2.2	39.2	1.6	14.1	G	BR
10. AU91-1970	W	0.8	2.0	36.2	1.7	13.6	G	T
11. AU91-41	W	1.3	1.9	35.1	1.5	13.2	T	T

PEST REACTIONS

STRAIN/ VARIETY	STEM	M.a.	M.a.	M.i.	M.i.	SCN	SCN	SCN
	CANKER	GA	TN	GA	TN	3	5	14
1. COOK	R	3.0	4.0	1.0	2.7	4.8	5.0	4.9
2. MAXCY	S	3.3	3.5	2.5	3.8	1.3	4.1	4.6
3. G91-270	S	3.5	3.7	1.0	3.7	1.4	2.1	4.9
4. G91-2244	R	3.3	4.0	1.8	3.5	1.2	5.0	4.7
5. SC91-1756	R	4.0	3.8	4.8	4.3	1.3	5.0	4.7
6. SC91-2447	R	3.0	3.3	1.0	2.8	1.4	4.3	4.4
7. SC92-3091	S	3.3	4.0	1.0	3.7	1.3	5.0	3.9
8. SC92-2677	S	4.0	2.4	1.3	3.3	1.1	4.9	4.0
9. AU91-13	S	3.5	3.8	1.0	3.8	2.9	5.0	1.4
10. AU91-1970	R/S	3.0	4.0	1.0	4.0	3.7	5.0	1.4
11. AU91-41	S	2.8	4.2	1.0	4.0	3.6	5.0	2.6

TABLE 71 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1996.

EAST

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
COOK	30.9	46.0	38.4
MAXCY	39.8	43.6	41.7
G91-270	42.0	40.4	41.2
G91-2244	36.6	44.2	40.4
SC91-1756	37.8	44.7	41.3
SC91-2447	40.7	42.8	41.7
SC92-3091	45.4	46.2	45.8
SC92-2677	33.2	36.6	34.9
AU91-13	40.9	42.4	41.6
AU91-1970	38.0	44.1	41.1
AU91-41	37.7	39.3	38.5
L. S. D. (0.05)	5.2	6.8	.
C. V. (%)	8.0	9.2	.

WEST

STRAIN/ VARIETY	BEAUMONT
	TX
COOK	30.8
MAXCY	28.7
G91-270	24.8
G91-2244	16.8
SC91-1756	18.3
SC91-2447	26.4
SC92-3091	26.5
SC92-2677	32.2
AU91-13	28.2
AU91-1970	15.8
AU91-41	22.7
L. S. D. (0.05)	8.9
C. V. (%)	21.9

TABLE 71 - (Continued).

SOUTH

STRAIN/ VARIETY	ATHENS		BATON	BLACK-	CLEMSON	FAIRHOPE	JAY	PLAINS	TALLASSEE	TALLASSEE	MEAN
	GA	GA (L)	ROUGE LA	VILLE SC (L)	SC	AL	FL	GA	AL	AL (L)	
COOK	64.0	39.4	56.5	26.7	40.3	57.0	38.9	54.4	50.8	47.2	47.5
MAXCY	51.1	35.2	44.6	24.7	38.4	56.8	35.4	55.8	46.9	46.6	43.5
G91-270	59.4	39.7	47.5	23.3	36.5	54.9	37.7	51.2	51.2	53.2	45.5
G91-2244	58.1	37.3	55.6	24.7	33.5	55.7	38.9	52.5	51.9	50.8	45.9
SC91-1756	51.5	38.2	53.0	24.7	35.7	55.5	29.5	49.7	53.1	50.6	44.2
SC91-2447	52.0	35.8	37.8	27.0	38.2	50.7	29.5	49.1	45.0	49.0	41.4
SC92-3091	62.7	41.3	45.5	26.4	36.5	57.3	38.9	46.9	46.0	53.1	45.4
SC92-2677	51.0	37.6	51.4	23.0	35.6	57.5	34.2	43.7	40.5	48.7	42.3
AU91-13	50.0	33.8	37.9	26.9	40.5	55.4	33.0	54.3	54.8	56.5	44.3
AU91-1970	57.1	34.8	46.6	22.0	34.4	58.1	34.2	55.3	46.0	47.5	43.6
AU91-41	47.1	39.7	44.8	22.9	38.2	52.2	41.3	48.5	48.6	54.2	43.7
L.S.D. (0.05)	8.2	4.0	14.0	4.6	7.0	4.7	N.S.	4.3	9.3	7.0	.
C.V. (%)	8.8	6.2	17.4	11.0	11.2	5.0	15.9	4.9	11.2	8.2	.

TABLE 72 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1996.

OIL PERCENTAGE

STRAIN/ VARIETY	ATHENS		BEAUMONT	BLACKVILLE	CLEMSON	FAIRHOPE	FLORENCE	JACKSON SPRINGS	JAY	PLAINS	TALLASSEE	TALLASSEE	MEAN
	GA	GA (L)	TX	SC (L)	SC	AL	SC	NC	FL	GA	AL	AL (L)	
COOK	20.4	22.5	20.3	19.3	19.2	20.8	21.6	18.7	21.6	22.5	19.9	20.0	20.6
MAXCY	20.3	21.3	21.0	18.8	20.8	21.5	22.8	20.3	22.6	21.1	20.9	21.2	21.1
G91-270	22.5	20.9	22.6	21.7	21.7	23.3	21.5	21.6	23.6	20.7	21.6	22.2	22.0
G91-2244	20.5	19.8	20.0	19.0	19.2	20.1	21.6	19.1	21.5	21.0	19.6	20.0	20.1
SC91-1756	20.7	22.7	21.6	19.6	20.0	21.1	20.9	19.6	21.4	21.4	20.0	19.7	20.7
SC91-2447	20.7	22.2	20.4	20.2	19.9	20.3	21.1	18.7	21.7	22.8	20.1	19.7	20.7
SC92-3091	20.6	23.0	21.2	21.0	20.1	21.0	21.2	19.9	22.0	23.5	20.1	20.2	21.2
SC92-2677	20.8	23.0	21.1	20.6	20.1	21.2	21.2	20.5	22.9	22.6	20.2	20.7	21.2
AU91-13	21.0	22.8	22.2	21.4	20.6	21.8	21.9	19.4	21.6	22.3	21.2	20.4	21.4
AU91-1970	20.8	22.9	20.7	18.9	19.7	21.1	21.9	19.7	22.8	22.0	20.9	20.1	21.0
AU91-41	22.6	22.0	23.5	21.9	21.4	24.2	23.3	21.8	25.3	21.3	22.6	22.1	22.7

PROTEIN PERCENTAGE

STRAIN/ VARIETY	ATHENS		BEAUMONT	BLACKVILLE	CLEMSON	FAIRHOPE	FLORENCE	JACKSON SPRINGS	JAY	PLAINS	TALLASSEE	TALLASSEE	MEAN
	GA	GA (L)	TX	SC (L)	SC	AL	SC	NC	FL	GA	AL	AL (L)	
COOK	43.5	38.3	44.7	46.8	46.2	43.9	39.9	46.4	41.9	45.4	44.8	41.7	43.6
MAXCY	42.0	40.8	45.1	46.9	43.1	43.0	38.7	42.0	41.2	44.3	43.6	43.1	42.8
G91-270	40.7	42.2	42.9	42.3	42.3	40.8	38.8	41.8	40.1	44.6	42.4	41.2	41.7
G91-2244	43.6	40.4	44.9	46.4	45.8	43.8	40.5	46.2	41.9	45.7	45.8	42.1	43.9
SC91-1756	43.3	39.9	44.7	46.0	42.5	46.1	40.1	41.9	41.6	45.5	44.8	43.2	43.3
SC91-2447	43.2	41.6	47.0	46.0	44.9	42.8	39.2	46.5	42.7	41.8	44.1	45.1	43.7
SC92-3091	46.1	37.1	47.2	46.4	42.3	45.4	40.0	46.8	41.8	40.5	46.3	43.4	43.6
SC92-2677	44.9	36.8	45.1	44.8	45.6	44.0	39.3	44.2	40.8	41.2	44.4	44.2	42.9
AU91-13	42.9	37.8	43.0	42.4	42.3	42.0	39.1	42.5	40.3	44.1	42.2	43.0	41.8
AU91-1970	43.5	38.1	44.6	46.6	45.3	43.1	39.7	45.0	40.6	44.6	42.1	43.7	43.1
AU91-41	40.2	38.7	42.8	43.2	41.8	40.4	37.2	41.7	37.8	46.1	41.1	41.9	41.1

GRAMS PER 100 SEED

STRAIN/ VARIETY	ATHENS		BEAUMONT	BLACKVILLE	CLEMSON	FAIRHOPE	FLORENCE	JACKSON SPRINGS	JAY	PLAINS	TALLASSEE	TALLASSEE	MEAN
	GA	GA (L)	TX	SC (L)	SC	AL	SC	NC	FL	GA	AL	AL (L)	
COOK	16.3	17.3	15.0	11.1	14.9	15.1	14.5	16.6	18.0	15.5	15.5	14.8	15.4
MAXCY	15.3	15.0	12.7	10.8	15.1	15.3	14.8	16.1	17.5	14.9	16.7	14.6	14.9
G91-270	14.6	14.8	12.2	10.4	15.2	13.8	13.8	13.4	14.2	13.1	14.9	12.8	13.6
G91-2244	15.3	15.9	12.4	11.8	14.8	15.0	15.5	16.5	16.0	14.7	15.6	15.9	14.9
SC91-1756	15.7	17.0	14.7	12.0	16.2	16.3	15.6	15.6	17.0	15.0	16.9	15.9	15.7
SC91-2447	15.2	15.8	11.9	15.0	15.3	14.9	15.9	16.4	15.5	15.2	15.4	14.7	15.1
SC92-3091	16.5	17.0	14.6	15.4	16.8	15.4	16.6	17.1	14.0	14.9	16.2	15.7	15.8
SC92-2677	17.9	17.8	16.1	15.0	17.7	18.1	17.5	18.0	17.2	17.6	17.7	17.8	17.4
AU91-13	13.7	14.9	12.7	13.3	16.1	15.9	15.1	15.0	18.5	14.8	16.2	16.0	15.2
AU91-1970	15.4	14.9	13.5	11.2	15.4	14.9	14.6	13.9	13.5	14.2	16.2	14.6	14.4
AU91-41	12.9	15.1	12.7	11.4	14.5	14.2	13.6	13.1	16.0	13.6	15.3	13.7	13.8

TABLE 73 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN COOK, FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1996.

EAST			
STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
COOK	10/22	10/30	10/26
MAXCY	2	0	1
G91-270	0	-1	-1
G91-2244	2	0	1
SC91-1756	2	1	1
SC91-2447	3	2	3
SC92-3091	8	0	4
SC92-2677	3	0	2
AU91-13	9	2	6
AU91-1970	0	0	0
AU91-41	2	0	1

WEST	
STRAIN/ VARIETY	BEAUMONT
	TX
COOK	10/17
MAXCY	-2
G91-270	-4
G91-2244	-2
SC91-1756	0
SC91-2447	1
SC92-3091	3
SC92-2677	4
AU91-13	1
AU91-1970	-1
AU91-41	-1

TABLE 73 - (Continued).

SOUTH

STRAIN/ VARIETY	ATHENS		BATON	BLACK-	CLEMSON	FAIRHOPE	JAY	PLAINS	TALLASSEE	TALLASSEE	MEAN
	GA	GA (L)	ROUGE LA	VILLE SC (L)	SC	AL	FL	GA	AL	AL (L)	
COOK	10/23	10/25	10/24	10/22	10/22	10/13	10/20	.	10/16	10/27	10/21
MAXCY	1	-1	2	-1	2	4	1	.	5	4	2
G91-270	-2	-2	1	-1	-1	0	-3	.	1	-5	-1
G91-2244	1	2	2	1	2	3	1	.	6	8	3
SC91-1756	-2	0	1	-1	2	5	-3	.	6	0	1
SC91-2447	1	2	1	3	5	6	3	.	5	8	4
SC92-3091	1	1	2	2	7	6	3	.	6	4	4
SC92-2677	2	2	1	2	6	6	6	.	6	8	5
AU91-13	3	1	3	2	6	7	4	.	7	8	5
AU91-1970	0	1	1	-1	1	3	0	.	5	0	1
AU91-41	-1	1	3	-1	4	3	3	.	5	0	2

TABLE 74 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1996.

EAST			
STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
COOK	39	35	37
MAXCY	42	33	38
G91-270	45	37	41
G91-2244	41	35	38
SC91-1756	43	40	41
SC91-2447	42	38	40
SC92-3091	40	33	36
SC92-2677	40	33	37
AU91-13	45	33	39
AU91-1970	43	33	38
AU91-41	39	32	35

WEST	
STRAIN/ VARIETY	BEAUMONT
	TX
COOK	20
MAXCY	20
G91-270	18
G91-2244	16
SC91-1756	16
SC91-2447	17
SC92-3091	17
SC92-2677	21
AU91-13	20
AU91-1970	16
AU91-41	16

TABLE 74 - (Continued).

SOUTH

STRAIN/ VARIETY	ATHENS		BATON	BLACK-	CLEMSON	FAIRHOPE	JAY	PLAINS	TALLASSEE	TALLASSEE	MEAN
	GA	GA (L)	ROUGE LA	VILLE SC (L)	SC	AL	FL	GA	AL	AL (L)	
COOK	41	39	39	31	38	38	36	39	44	38	38
MAXCY	39	40	40	32	35	36	39	40	39	38	38
G91-270	42	40	41	37	42	39	39	45	45	37	41
G91-2244	38	38	38	29	35	37	37	42	39	40	37
SC91-1756	39	41	40	36	42	39	39	43	43	40	40
SC91-2447	40	42	38	38	36	39	39	43	43	41	40
SC92-3091	38	35	39	31	36	38	39	43	39	39	38
SC92-2677	38	37	39	29	37	37	39	44	43	40	38
AU91-13	43	42	40	38	40	39	39	47	44	39	41
AU91-1970	38	37	38	33	35	37	39	44	41	38	38
AU91-41	34	38	38	31	34	35	38	41	41	39	37

TABLE 75 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1996.

EAST

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	MEAN
	SC	NC	
COOK	2	2	2
MAXCY	3	3	3
G91-270	3	2	3
G91-2244	3	3	3
SC91-1756	3	2	3
SC91-2447	3	3	3
SC92-3091	3	2	3
SC92-2677	4	3	3
AU91-13	4	3	3
AU91-1970	4	2	3
AU91-41	3	3	3

WEST

STRAIN/ VARIETY	BEAUMONT
	TX
COOK	1
MAXCY	1
G91-270	1
G91-2244	1
SC91-1756	1
SC91-2447	1
SC92-3091	1
SC92-2677	1
AU91-13	1
AU91-1970	1
AU91-41	1

TABLE 75 - (Continued).

SOUTH

STRAIN/ VARIETY	ATHENS		BATON	BLACK-	CLEMSON	FAIRHOPE	JAY	PLAINS	TALLASSEE	TALLASSEE	MEAN
	GA	GA (L)	ROUGE LA	VILLE SC (L)	SC	AL	FL	GA	AL	AL (L)	
COOK	2	2	3	1	1	1	2	3	2	1	2
MAXCY	2	3	5	1	1	1	1	3	1	2	2
G91-270	2	2	4	1	1	1	2	2	2	1	2
G91-2244	2	2	3	1	1	2	2	2	1	2	2
SC91-1756	2	2	4	1	1	1	2	2	1	2	2
SC91-2447	2	2	3	2	1	2	2	2	1	2	2
SC92-3091	2	2	3	1	1	1	1	2	1	1	2
SC92-2677	2	2	3	1	1	1	1	2	1	2	2
AU91-13	2	2	4	1	1	2	2	3	2	1	2
AU91-1970	2	2	4	1	1	2	2	2	1	2	2
AU91-41	2	2	4	1	1	2	2	2	1	2	2

TABLE 76 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1996.

STRAIN/ VARIETY	EAST	
	JACKSON	SPRINGS
	NC	
COOK	2	
MAXCY	2	
G91-270	2	
G91-2244	2	
SC91-1756	2	
SC91-2447	2	
SC92-3091	2	
SC92-2677	2	
AU91-13	2	
AU91-1970	2	
AU91-41	2	

STRAIN/ VARIETY	SOUTH								
	ATHENS	ATHENS	BATON	FAIR-	JAY	PLAINS	TALLAS-	TALLAS-	MEAN
AL	AL (L)	ROUGE	HOPE	FL	GA	SEE	SEE		
	AL	AL (L)	LA	AL	FL	GA	AL	AL (L)	
COOK	2	2	2	1	1	2	1	1	2
MAXCY	2	2	2	1	2	2	1	1	2
G91-270	2	2	2	1	2	2	1	1	2
G91-2244	2	2	2	1	3	2	1	1	2
SC91-1756	2	2	2	1	1	2	1	1	2
SC91-2447	2	2	2	1	1	2	1	1	1
SC92-3091	2	2	1	1	1	2	1	1	1
SC92-2677	2	2	2	1	2	2	1	1	2
AU91-13	2	2	2	1	2	2	1	1	2
AU91-1970	2	2	2	1	2	2	1	1	2
AU91-41	2	2	1	1	1	2	1	1	1

STRAIN/ VARIETY	WEST	
	BEAUMONT	TX
COOK	2	
MAXCY	1	
G91-270	1	
G91-2244	2	
SC91-1756	2	
SC91-2447	1	
SC92-3091	1	
SC92-2677	2	
AU91-13	1	
AU91-1970	2	
AU91-41	2	

PRELIMINARY GROUP VIII**1996**

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, 1996.

STRAIN/ VARIETY	PARENTAGE			GENERATION COMPOSITED
1. COOK	BRAXTON	X	YOUNG	F6
2. MAXCY	D76-9665	X	JOHNSTON	F6
3. TSB93-293	STONEWALL	X	ASGROW 7986	F5
4. TSB93-2211	F79-6439	X	THOMAS	F5
5. TSB93-2227	F79-6439	X	THOMAS	F5
6. TSB93-2280	F79-6439	X	THOMAS	F5
7. TSB93-2423	R82-268	X	COKER 6738	F5
8. G92-2388	CO82-622	X	G83-12	F6
9. G92-2739	COOK	X	BRYAN	F6
10. G92-18	CO82-622	X	G85-9853	F6
11. G92-1306	DOLES	X	CO6727	F5
12. G92-2705	COOK	X	BRYAN	F6
13. F91-2161	GORDON	X	F85-1138	F6
14. F92-2558	PI417479	X	F87-4039	F6
15. F94-2119	BEDFORD	X	F85-1138	F9
16. F94-2290	PI417479	X	F87-4039	F8
17. F94-2348	BEDFORD	X	F85-1138	F9
18. SC93-95	HAGOOD	X	COKER 6738	F6
19. SC93-1501	HAGOOD	X	COKER 6738	F5
20. SC93-2076	COKER 6738	X	G83-198	F5
21. SC93-1963	COKER 6738	X	G83-198	F5
22. SC93-2073	COKER 6738	X	G83-198	F5
23. N94-537	COOK	X	CLIFFORD	F6
24. AU93-1027	HAGOOD	X	AU85-1014	
25. AU93-868	AU86-2126	X	F83-1648	
26. AU92-2427	HAGOOD	X	HOWARD	
27. AU92-1045	N85-574	X	HASKELL	

TABLE 78 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 1996.

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	PROTEIN	OIL	STEM CANKER	M.a. TN	M.i. TN	SCN 3	SCN 5	SCN 14
COOK	46.4	10/20	2.0	40.7	1.3	16.5	42.5	21.0	R	2.2	2.2	5.0	5.0	4.3
MAXCY	42.6	5.5	1.8	38.7	1.7	16.3	42.3	21.9	S	2.5	2.4	2.0	4.3	4.0
TSB93-293	41.9	6.0	1.5	38.5	1.3	16.0	42.3	20.6	S	2.7	3.0	5.0	5.0	4.6
TSB93-2211	34.4	6.5	3.0	47.2	1.3	17.3	42.2	22.6	R/S	3.0	1.8	5.0	4.8	4.3
TSB93-2227	37.4	11.5	1.8	44.5	2.0	15.5	42.2	21.6	S	2.3	1.5	5.0	5.0	4.7
TSB93-2280	34.1	7.5	2.5	44.5	1.7	16.4	42.4	21.2	R	2.2	2.2	5.0	5.0	4.3
TSB93-2423	45.2	7.0	2.2	40.5	1.7	14.9	41.6	22.6	R	2.5	3.5	2.0	4.3	3.1
G92-2388	47.6	5.0	1.5	41.3	1.7	13.4	42.7	20.4	R	2.3	1.3	2.0	5.0	4.3
G92-2739	46.5	4.0	2.0	41.3	2.0	15.1	41.6	22.0	R	2.3	1.6	2.2	5.0	1.7
G92-18	43.1	1.5	2.0	38.5	1.7	14.5	45.0	20.5	S	2.5	1.8	2.0	5.0	4.6
G92-1306	47.3	1.5	1.5	35.0	1.7	11.7	44.8	21.1	R	2.3	1.8	2.3	5.0	4.7
G92-2705	43.0	0.0	2.2	40.5	2.0	14.5	42.4	21.8	R	2.3	2.3	2.0	5.0	3.6
F91-2161	35.0	6.5	2.5	44.5	2.0	13.9	43.6	21.3	R	2.0	1.8	4.5	5.0	4.6
F92-2558	37.3	0.0	1.8	36.0	1.7	13.9	45.4	19.4	S	2.7	3.0	4.9	5.0	4.9
F94-2119	39.8	6.0	2.7	45.0	2.0	15.3	41.5	21.2	R	2.2	2.0	2.6	5.0	1.0
F94-2290	35.1	-0.5	2.0	34.8	1.7	13.3	44.5	19.1	S	2.7	2.7	5.0	5.0	4.6
F94-2348	28.9	1.0	3.5	46.2	1.7	16.8	44.6	20.8	S	2.2	3.0	2.0	5.0	1.2
SC93-95	42.4	6.5	2.0	44.3	1.7	14.0	43.5	21.2	S	2.3	1.8	2.0	4.0	5.0
SC93-1501	39.9	4.0	1.5	42.7	1.7	15.0	44.1	21.5	S	2.8	1.8	2.0	3.3	4.8
SC93-2076	44.5	7.0	1.3	38.3	1.7	12.9	43.1	21.3	S	2.6	2.5	2.0	4.8	5.0
SC93-1963	46.2	6.5	1.7	41.0	1.7	13.4	41.6	22.0	R	2.2	2.2	3.1	5.0	4.5
SC93-2073	46.9	7.0	2.0	43.5	1.7	13.6	41.9	22.5	R	2.5	1.7	2.4	5.0	4.9
N94-537	49.4	0.5	2.8	40.0	1.7	14.4	42.8	21.8	S	3.2	2.8	4.6	5.0	5.0
AU93-1027	42.1	6.5	2.3	40.2	1.7	13.9	44.8	20.8	R	3.3	1.8	2.5	5.0	2.7
AU93-868	43.0	3.5	1.8	37.7	2.0	13.8	44.0	20.8	S	2.8	2.7	2.1	5.0	1.6
AU92-2427	48.6	4.5	1.8	39.2	1.7	13.1	42.4	21.2	S	2.5	2.7	5.0	5.0	4.9
AU92-1045	40.6	2.0	3.2	39.7	1.7	13.1	43.1	22.0	R	2.5	3.5	4.9	5.0	5.0
OVERALL MEAN	41.8						43.1	21.3						
L.S.D. (.05)	8.6						2.0	0.8						
C.V.	13%						2%	3%						

TABLE 79 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1996.

STRAIN/ VARIETY	BEAUMONT	BLACKVILLE	JAY	PLAINS	TALLASSEE	MEAN
	TX†	SC†	FL	GA	AL	
COOK	31.6	21.8	43.6	50.3	45.3	46.4
MAXCY	18.2	27.9	43.6	46.3	37.7	42.6
TSB93-293	30.1	19.4	36.0	42.0-	47.6	41.9
TSB93-2211	40.3	25.9	34.8	39.7-	28.8-	34.4
TSB93-2227	16.3	20.0	36.5	36.3-	39.4	37.4
TSB93-2280	34.8	23.3	31.8	36.4-	34.2	34.1
TSB93-2423	17.0	19.3	41.3	50.3	44.0	45.2
G92-2388	21.5	23.8	45.4	48.4	48.8	47.6
G92-2739	29.1	21.0	43.6	52.3	43.6	46.5
G92-18	30.5	17.5	42.4	45.9	41.0	43.1
G92-1306	18.7	21.5	42.4	50.5	49.1	47.3
G92-2705	27.8	29.2	37.7	49.8	41.5	43.0
F91-2161	22.1	19.7	11.8	44.2	49.1	35.0
F92-2558	27.6	19.2	32.4	41.5-	38.1	37.3
F94-2119	30.1	26.7	28.9	43.4	47.1	39.8
F94-2290	30.5	22.5	29.5	43.6	32.1-	35.1
F94-2348	28.3	18.8	30.1	38.3-	18.2-	28.9-
SC93-95	23.2	22.1	34.8	45.9	46.5	42.4
SC93-1501	29.0	26.4	41.3	39.0-	39.5	39.9
SC93-2076	27.7	22.1	38.9	44.1	50.4	44.5
SC93-1963	31.0	24.9	41.3	47.6	49.6	46.2
SC93-2073	32.2	22.2	41.9	49.4	49.3	46.9
N94-537	24.6	30.1	44.2	49.9	54.2	49.4
AU93-1027	32.5	20.4	38.3	51.0	37.0	42.1
AU93-868	30.9	24.8	38.9	46.1	44.0	43.0
AU92-2427	26.5	23.9	44.2	49.9	51.7	48.6
AU92-1045	38.3	23.1	38.3	46.7	36.9	40.6
L. S. D. (0.05)	20.9	9.0		8.1	12.0	8.6
C. V. (%)	36.6	19.2		8.7	13.7	12.6

†Not included in Mean.

TABLE 80 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1996.

STRAIN/ VARIETY	BEAUMONT	JAY	PLAINS	TALLASSEE	MEAN
	TX	FL	GA	AL	
COOK	19.4	21.8	21.1	20.1	21.0
MAXCY	20.3	22.9	21.6	21.1	21.9
TSB93-293	19.7	21.8	20.8	19.3	20.6
TSB93-2211	22.3	23.1	23.0	21.6	22.6
TSB93-2227	20.7	22.6	21.4	20.9	21.6
TSB93-2280	21.4	22.5	21.3	19.7	21.2
TSB93-2423	22.6	23.3	22.9	21.6	22.6
G92-2388	18.8	21.5	19.9	19.7	20.4
G92-2739	21.0	23.4	21.7	20.9	22.0
G92-18	19.6	21.5	20.0	20.0	20.5
G92-1306	18.9	22.2	21.0	20.1	21.1
G92-2705	19.7	22.7	21.7	20.9	21.8
F91-2161	20.4	22.0	21.2	20.8	21.3
F92-2558	18.8	20.1	19.6	18.6	19.4
F94-2119	20.1	22.5	20.7	20.3	21.2
F94-2290	18.8	19.9	18.9	18.5	19.1
F94-2348	20.4	21.3	21.0	20.0	20.8
SC93-95	20.2	21.4	22.0	20.1	21.2
SC93-1501	20.9	22.6	21.3	20.6	21.5
SC93-2076	21.2	21.7	21.3	21.0	21.3
SC93-1963	21.7	23.1	22.1	20.8	22.0
SC93-2073	21.7	24.2	22.6	20.6	22.5
N94-537	20.0	23.1	21.9	20.4	21.8
AU93-1027	19.2	21.7	20.9	19.8	20.8
AU93-868	20.6	22.1	20.9	19.3	20.8
AU92-2427	20.4	21.2	20.6	21.7	21.2
AU92-1045	21.5	23.0	22.2	20.9	22.0

TABLE 81 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1996.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	46.1	42.2	44.6	40.7	42.5
MAXCY	44.5	41.6	43.7	41.7	42.3
TSB93-293	45.4	40.7	44.0	42.1	42.3
TSB93-2211	44.2	40.4	43.5	42.8	42.2
TSB93-2227	44.0	40.8	43.1	42.8	42.2
TSB93-2280	44.9	40.4	43.1	43.7	42.4
TSB93-2423	42.7	39.7	42.6	42.4	41.6
G92-2388	46.2	41.2	43.1	43.8	42.7
G92-2739	45.5	40.1	42.1	42.6	41.6
G92-18	47.0	43.2	46.7	45.0	45.0
G92-1306	47.0	43.0	46.3	45.0	44.8
G92-2705	46.9	41.4	43.9	41.9	42.4
F91-2161	46.1	42.2	44.8	43.9	43.6
F92-2558	44.7	43.9	46.5	45.9	45.4
F94-2119	47.1	40.0	41.7	42.7	41.5
F94-2290	46.3	40.6	47.2	45.8	44.5
F94-2348	46.7	44.6	44.9	44.4	44.6
SC93-95	47.0	43.5	45.0	42.1	43.5
SC93-1501	44.9	41.7	46.2	44.5	44.1
SC93-2076	45.8	41.5	45.9	42.0	43.1
SC93-1963	43.7	40.8	42.5	41.4	41.6
SC93-2073	46.1	40.1	41.7	43.8	41.9
N94-537	46.7	40.1	42.7	45.6	42.8
AU93-1027	49.6	44.0	44.4	46.0	44.8
AU93-868	45.2	41.8	46.6	43.6	44.0
AU92-2427	45.1	41.3	43.5	42.3	42.4
AU92-1045	43.5	40.5	42.6	46.3	43.1

TABLE 82 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1996.

STRAIN/ VARIETY	BEAUMONT	JAY	PLAINS	TALLASSEE	MEAN
	TX	FL	GA	AL	
COOK	14.8	21.0	15.0	13.6	16.5
MAXCY	13.1	19.0	14.5	15.3	16.3
TSB93-293	15.3	15.2	15.7	17.0	16.0
TSB93-2211	16.3	15.3	17.7	18.8	17.3
TSB93-2227	13.5	15.0	16.0	15.4	15.5
TSB93-2280	14.6	16.0	16.6	16.6	16.4
TSB93-2423	13.3	12.1	16.4	16.2	14.9
G92-2388	11.7	14.0	13.3	12.9	13.4
G92-2739	15.0	15.0	15.5	14.9	15.1
G92-18	12.9	14.9	13.8	14.8	14.5
G92-1306	11.9	9.5	12.8	12.7	11.7
G92-2705	12.3	16.0	13.6	13.8	14.5
F91-2161	10.9	15.3	12.9	13.4	13.9
F92-2558	13.1	14.0	13.8	13.9	13.9
F94-2119	15.3	15.1	14.6	16.3	15.3
F94-2290	13.2	12.4	14.7	12.9	13.3
F94-2348	16.0	16.0	16.9	17.6	16.8
SC93-95	13.8	11.4	15.1	15.5	14.0
SC93-1501	13.4	13.9	15.5	15.5	15.0
SC93-2076	13.6	11.0	12.8	14.8	12.9
SC93-1963	13.2	11.7	13.7	14.9	13.4
SC93-2073	12.4	11.0	14.8	14.9	13.6
N94-537	14.1	15.1	14.6	13.4	14.4
AU93-1027	13.2	13.0	13.3	15.3	13.9
AU93-868	12.7	13.1	13.8	14.4	13.8
AU92-2427	13.8	11.0	13.3	15.0	13.1
AU92-1045	14.2	11.0	13.6	14.6	13.1

TABLE 83 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1996.

STRAIN/ VARIETY	BEAUMONT TX	BLACKVILLE SC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	24	42	38	44	41	41
MAXCY	26	43	38	39	40	39
TSB93-293	20	43	38	42	36	39
TSB93-2211	30	50	43	53	46	47
TSB93-2227	33	46	42	46	46	45
TSB93-2280	30	49	40	50	44	45
TSB93-2423	21	30	38	45	39	41
G92-2388	17	37	38	46	40	41
G92-2739	19	41	38	43	43	41
G92-18	21	36	37	42	37	39
G92-1306	23	30	35	37	33	35
G92-2705	21	40	36	45	41	41
F91-2161	36	45	42	48	44	45
F92-2558	26	34	36	39	33	36
F94-2119	34	43	42	50	43	45
F94-2290	20	37	36	37	32	35
F94-2348	36	40	42	51	46	46
SC93-95	34	43	42	48	43	44
SC93-1501	26	48	40	48	40	43
SC93-2076	19	41	36	43	36	38
SC93-1963	25	41	40	43	40	41
SC93-2073	26	44	42	47	42	44
N94-537	18	47	36	44	40	40
AU93-1027	23	39	39	41	41	40
AU93-868	21	39	39	39	36	38
AU92-2427	22	39	36	41	41	39
AU92-1045	26	46	36	44	40	40

TABLE 84 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1996.

STRAIN/ VARIETY	BEAUMONT TX	BLACKVILLE SC	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	1	3	2	3	1	2
MAXCY	1	2	2	2	2	2
TSB93-293	1	2	1	3	1	2
TSB93-2211	2	3	3	3	3	3
TSB93-2227	1	2	2	2	2	2
TSB93-2280	2	3	2	3	3	3
TSB93-2423	2	1	2	2	3	2
G92-2388	1	1	1	2	2	2
G92-2739	1	2	2	2	2	2
G92-18	1	2	2	3	2	2
G92-1306	1	1	1	2	2	2
G92-2705	1	3	2	3	2	2
F91-2161	3	3	2	3	3	3
F92-2558	1	2	2	2	2	2
F94-2119	2	2	2	3	3	3
F94-2290	2	2	2	3	2	2
F94-2348	3	1	3	3	5	4
SC93-95	2	2	2	2	2	2
SC93-1501	1	2	1	2	2	2
SC93-2076	1	1	1	2	1	1
SC93-1963	1	2	2	2	1	2
SC93-2073	1	3	2	2	2	2
N94-537	1	3	2	4	3	3
AU93-1027	1	2	2	3	3	2
AU93-868	1	1	1	2	3	2
AU92-2427	1	1	2	2	2	2
AU92-1045	1	4	2	4	4	3

TABLE 85 - SEED QUALITY FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1996.

STRAIN/ VARIETY	BEAUMONT TX	JAY FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	2	1	2	1	1
MAXCY	2	2	2	1	2
TSB93-293	2	1	2	1	1
TSB93-2211	1	1	2	1	1
TSB93-2227	1	3	2	1	2
TSB93-2280	1	2	2	1	2
TSB93-2423	1	2	2	1	2
G92-2388	2	2	2	1	2
G92-2739	2	3	2	1	2
G92-18	1	2	2	1	2
G92-1306	1	2	2	1	2
G92-2705	2	3	2	1	2
F91-2161	2	3	2	1	2
F92-2558	2	2	2	1	2
F94-2119	2	3	2	1	2
F94-2290	2	2	2	1	2
F94-2348	2	2	2	1	2
SC93-95	1	2	2	1	2
SC93-1501	1	2	2	1	2
SC93-2076	2	2	2	1	2
SC93-1963	1	2	2	1	2
SC93-2073	2	2	2	1	2
N94-537	2	2	2	1	2
AU93-1027	1	2	2	1	2
AU93-868	2	3	2	1	2
AU92-2427	1	2	2	1	2
AU92-1045	1	2	2	1	2