

UNIFORM SOYBEAN TESTS SOUTHERN STATES 1998

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UNIFORM SOYBEAN TESTS

SOUTHERN STATES

1998

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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 check varieties are: KS4694, Manokin, Hutcheson, Boggs, Dillon, Benning, Haskell, Cook, and Maxcy.

A wide range of soil and climatic conditions exists in the regions. As an aid in recognizing regional adaptation, the region has been subdivided into five rather broad areas which still represent a wide range of soil types. These are: (1) the East Coast, consisting of the Coastal Plain and Tidewater areas of the eastern shore of Maryland, Virginia, North Carolina, and the upper half of South Carolina; (2) the Southeast, consisting primarily of the Coastal Plain soils of the Gulf Coast area, but also including similar soil from South Carolina, southward; (3) the Upper and Central South, including the Piedmont and loessial hill soils east of the Mississippi River; (4) the Delta area, composed of the alluvial soils along the Mississippi River from southern Missouri, southward; and (5) the West, comprising Arkansas and Louisiana (outside the Delta), and Oklahoma. In the West area, the potential soybean-growing areas would include the alluvial soils, and the Gulf Coast of Louisiana.

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

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STRAIN DESIGNATION

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

- AU - Alabama Agricultural Experiment Station, Auburn
- DT - Delta Branch Experiment Station and USDA-ARS
- G - Georgia Agricultural Experiment Station
- K - Kansas Agricultural Experiment Station
- KY - Kentucky Agricultural Experiment Station
- LS - Southern Illinois University, Carbondale
- MD - Maryland Agricultural Experiment Station and USDA-ARS
- N - North Carolina Agricultural Experiment Station and USDA-ARS
- NTCPR - North Carolina Agricultural Experiment Station and USDA-ARS
- OK - Oklahoma Agricultural Experiment Station
- R - Arkansas Agricultural Experiment Station
- RJ - Arkansas State University, Jonesboro
- S - Missouri Agricultural Experiment Station
- SC - South Carolina Agricultural Experiment Station, Clemson
- TN - Tennessee Agricultural Experiment Station
- V - Virginia Agricultural Experiment Station
- VS - Virginia Agricultural Experiment Station

LOCATION OF SOYBEAN NURSERIES ALONG WITH SOIL TYPE

EAST COAST

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

SOUTHEAST

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

UPPER AND CENTRAL SOUTH

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

U - Uniform nursery grown

P - Preliminary nursery grown

LOCATION OF SOYBEAN NURSERIES ALONG WITH SOIL TYPE Continued

DELTA

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

WEST

LOCATION	TEST TYPE					SOIL
	IV	V	VI	VII	VIII	
McCune, KS		U				Parsons silt loam
Walnut, KS	U	U				Kenoma silt loam
Pittsburg, KS		UP				Parsons silt loam
Chanute, KS	UP					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

U - Uniform nursery grown

P - Preliminary nursery grown

ROW SPACING OF UNIFORM TEST LOCATIONS

EAST COAST

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

SOUTHEAST

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

UPPER AND CENTRAL SOUTH

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

DELTA

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

WEST

McCune, KS	30 Inches
Pittsburg, KS	30 Inches
Chanute, KS	30 Inches
Bixby, OK	30 Inches
Stuttgart, AR	32 Inches
Bossier City, LA	40 Inches

METHODS

Cultural Practices

Most uniform nurseries were planted in four-row plots with three replications. The two middle rows were harvested. The preliminary nurseries were planted similarly with two replications. Row widths at the locations varied from 20 to 40 inches with the majority planted in 30 inch rows.

Maturity, Harvest, and Yield

Height in a plot was measured as the average length of plants from the ground to the top extremity at maturity.

Lodging notes were recorded on a scale of 1 to 5 according to the following criteria:

- 1 - almost all plants erect
- 2 - either all plants leaning slightly, or a few plants down
- 3 - either all plants leaning moderately, or 25 to 50% of the plants down
- 4 - either all plants leaning considerably, or 50 to 80% of the plants down
- 5 - all plants down

Maturity was recorded as the date when 95% of the pods had reached mature pod color (Fehr and Caviness, 1977). Maturity in all summaries is expressed as days earlier (-) or later (+) than the reference variety. Reference varieties used in the different maturity groups were as follows: UIVS and PIVS - Manokin; UV and PV - Hutcheson; UVI and PVI - Dillon; UVII and PVII - Benning; and UVIII and PVIII - Cook.

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

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

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

Factors considered in estimating seed quality were development of seed, wrinkling damage, and brightness. While the seed quality score indicates relative

appearance of seed for strains at one location, considerable differences can exist among factors responsible for the poorer grades at different locations. Seed size for each strain was determined from a composite sample from all replications at a location. Seed size is reported as grams per 100 seed.

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

Pest Assessment

SMV techniques. Thirty seeds of each entry are planted in a single three-foot row in the field at Blacksburg, VA. Inoculation is done 3 to 4 weeks later using SMV strain G1. Inoculation method is described in Ma et. al. 1995. TAG 91:907-914. Counts of resistant and susceptible plants are taken about 4 weeks after inoculation.

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

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

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

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

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

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

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

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

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 2, 3, and 14 ratings reported for UIVS - UVIII and PIVS - PVIII were based on screenings made at Jackson, Tennessee. For the screening, seed of each strain was planted in sterile soil at a rate of one per pot for a total of seven pots per strain. At the time of planting, 1000 eggs of the race being evaluated were added to each pot. Approximately four weeks after planting, plants were rated based on the number of female cysts on the roots. The ratings were as follows:

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

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

Stem Canker

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

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

Statistical Analyses

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

UNIFORM GROUP IV-S

1998

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

**TABLE 1 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP
IV-S,1998**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 X D74-7824	F5
2. KS4694	SHERMAN X TOANO	F5
3. R95-3235	MANOKIN X KS 4895	
4. K1390	DELSOY 4500 X ASGROW A5403	F5
5. LS94-3207	PHARAOH X HARTWIG	F6
6. MD93-5298	MD87-5669 X EDISON	F5
7. MD94-5396	RIPLEY X CLIFFORD	F5
8. MD94-5332	CLIFFORD X CORSICA	F5
9. MD92-5769	N85-578 X RIPLEY	F5
10. MD93-5581	LS84-920 X MANOKIN	F5
11. S94-2086	DELSOY X HARTWIG	F6
12. V91-2492	CHESAPEAKE X HUTCHESON	
13. V93-2329	V84-1787 X V85-5344	
14. TN93-87	TN85-55 X TN82-268	
15. TN95-53	TN4-86 X KUNITZ	
16. TN95-95	TN4-86 X KUNITZ	
17. VS94-08	PI 381668 X YORK	F6

**TABLE 2 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM GROUP IV-S, 1998**

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1998	97-98	96-98	1998	97-98	96-98	1998	97-98	96-98
MANOKIN	40.2	44.6	46.6	41.0	40.7	41.3	20.3	20.2	20.5
KS4694	39.7	42.1	.	41.2	41.1	.	20.9	20.7	.
R95-3235	39.9	.	.	41.8	.	.	20.1	.	.
K1390	34.9	.	.	42.2	.	.	20.6	.	.
LS94-3207	37.6	.	.	41.3	.	.	20.5	.	.
MD93-5298	39.6	44.4	.	40.8	40.3	.	20.3	20.5	.
MD94-5396	40.0	.	.	41.7	.	.	19.8	.	.
MD94-5332	38.8	.	.	42.2	.	.	20.6	.	.
MD92-5769	41.3	44.0	45.5	40.0	39.4	39.7	20.2	20.3	20.5
MD93-5581	34.8	38.8	.	42.9	42.4	.	19.5	19.5	.
S94-2086	36.3	40.4	.	41.7	41.3	.	19.5	19.3	.
V91-2492	36.9	41.6	43.6	42.4	41.9	42.3	20.3	20.3	20.3
V93-2329	37.9	.	.	43.6	.	.	20.1	.	.
TN93-87	37.8	40.9	.	40.2	39.8	.	20.6	20.3	.
TN95-53	35.9	.	.	42.0	.	.	20.8	.	.
TN95-95	36.2	.	.	42.0	.	.	20.7	.	.
VS94-08	36.6	.	.	43.4	.	.	19.7	.	.

†Data from Pine Tree, AR, Chanute, KS, Walnut, KS (1998); Martin, TN (1996) not included in Mean.

BOTANICAL TRAITS

STRAIN/ VARIETY	FL	MAT.	LODGING	HEIGHT	SEED	SEED	PUB.	POD
	COLOR	INDEX			QUALITY	SIZE	COLOR	COLOR
MANOKIN	W	10/01	2	28	2	11.2	T	T
KS4694	W	4-	2	31	2	14.4	G	BR
R95-3235	P	2-	2	27	2	10.6	G	T
K1390	P	1-	2	27	2	11.9	G	T
LS94-3207	W	4-	2	26	2	11.4	T	T
MD93-5298	P	2-	2	39	2	10.6	T	T
MD94-5396	P	1+	2	28	2	11.4	T	T
MD94-5332	P	1+	1	25	2	15.8	T	T
MD92-5769	P	1-	1	22	2	11.5	G	T
MD93-5581	W	4-	2	25	2	12.7	T	T
S94-2086	W	3-	3	40	2	12.1	T	T
V91-2492	W	3-	2	35	2	12.6	G	T
V93-2329	P	2-	2	23	2	10.8	G	T
TN93-87	P	0	2	29	2	11.1	G	T
TN95-53	W	3-	2	39	2	12.6	T	T
TN95-95	W	4-	2	39	2	12.5	T	T
VS94-08	P	3+	3	37	2	15.2	G	T

TABLE 2 - Continued

PEST REACTIONS

STRAIN/ VARIETY	STEM CANKER	SCN 2	SCN 3	SCN 14	M. i. GA	M. a. GA	SDS DX	SMV
MANOKIN	R	3.4	1.0	4.4	3.5	2.0	0.9	S
KS4694	S	4.3	4.8	4.3	5.0	2.3	10.1	S
R95-3235	R	5.0	3.0	5.0	1.0	4.3	-0.1	S
K1390	R	4.0	1.2	1.4	4.5	4.3	8.2	S
LS94-3207	R	2.0	1.0	2.0	1.8	3.5	0.8	S
MD93-5298	R	4.6	4.0	4.3	4.8	2.8	6.4	S
MD94-5396	R	4.7	4.2	4.2	4.0	4.8	4.0	R
MD94-5332	R	5.0	4.1	3.8	4.0	4.8	3.1	R
MD92-5769	S	5.0	3.8	4.4	5.0	4.8	3.1	S
MD93-5581	R	3.5	1.0	3.9	2.3	4.3	2.2	S
S94-2086	R	3.3	1.0	2.7	3.8	2.8	11.6	S
V91-2492	S	4.8	2.9	4.3	4.5	5.0	0.8	H
V93-2329	S	4.7	1.3	2.7	3.3	5.0	0.5	R
TN93-87	R	4.7	2.2	4.3	3.5	5.0	-1.1	S
TN95-53	R	4.8	3.7	4.9	5.0	3.3	3.0	S
TN95-95	R	5.0	3.2	4.6	5.0	3.8	4.4	S
VS94-08	R	5.0	4.6	4.2	5.0	5.0	3.0	R

See Methods section for description of rating scales.

TABLE 3 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1998

EAST

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MD	VA	
MANOKIN	66.1	42.4	15.8	41.4
KS4694	75.8	44.5	14.5	44.9
R95-3235	70.2	42.0	17.9	43.4
K1390	65.4	41.6	15.8	40.9
LS94-3207	60.9	40.9	15.2	39.0
MD93-5298	80.9	40.4	18.7	46.7
MD94-5396	82.1	41.7	17.1	47.0
MD94-5332	68.8	46.3	18.3	44.5
MD92-5769	69.9	42.6	19.4	44.0
MD93-5581	45.6	36.3	17.4	33.1
S94-2086	67.4	32.7	15.4	38.5
V91-2492	59.5	42.5	14.0	38.7
V93-2329	68.9	39.9	18.9	42.5
TN93-87	70.7	42.8	17.1	43.5
TN95-53	71.8	39.5	16.1	42.5
TN95-95	70.3	41.5	15.3	42.4
VS94-08	79.3	38.2	14.8	44.1
L. S. D. (0.05)	8.0	8.8	2.8	.
C. V. (%)	6.9	12.9	10.2	.

SOUTH

STRAIN/ VARIETY	KNOXVILLE	MARTIN	ORANGE	PRINCETON	STARKVILLE	ULLIN	MEAN
	TN	TN	VA	KY	MS	IL	
MANOKIN	48.5	51.5	30.3	26.2	35.3	47.9	39.9
KS4694	50.3	39.4	38.1	28.2	34.2	41.9	38.7
R95-3235	51.8	36.8	40.6	26.5	32.3	46.2	39.0
K1390	38.6	41.8	31.3	21.1	21.6	38.9	32.2
LS94-3207	38.8	42.8	28.7	21.4	31.8	53.9	36.2
MD93-5298	43.9	42.7	38.9	22.4	43.8	44.4	39.4
MD94-5396	43.7	43.5	32.9	25.7	30.9	45.7	37.1
MD94-5332	39.9	33.7	42.7	17.1	32.3	47.8	35.6
MD92-5769	52.9	50.2	34.9	29.8	37.1	46.1	41.8
MD93-5581	39.5	41.7	23.8	24.1	32.3	42.5	34.0
S94-2086	42.6	42.6	21.3	24.3	36.8	40.3	34.7
V91-2492	41.9	48.4	28.9	24.3	32.4	42.2	36.3
V93-2329	39.7	42.7	38.5	21.8	26.5	46.2	35.9
TN93-87	42.1	44.7	20.9	24.7	32.5	43.4	34.7
TN95-53	52.4	52.3	26.0	22.1	24.7	36.2	35.6
TN95-95	47.1	41.1	24.8	21.8	36.8	40.1	35.3
VS94-08	41.8	54.9	26.8	25.8	39.2	34.2	37.1
L. S. D. (0.05)	9.5	14.8	9.5	6.1	6.3	3.6	.
C. V. (%)	12.9	17.3	18.4	14.4	11.5	5.0	.

Table 3 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PINE TREE† AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	52.1	53.2	20.9	38.6	28.0	47.7	43.9
KS4694	56.6	48.3	13.2	38.0	29.3	43.5	43.1
R95-3235	55.3	47.2	17.3	41.3	23.9	45.0	42.5
K1390	45.4	53.3	21.1	38.7	19.1	31.7	37.6
LS94-3207	50.0	59.0	14.8	40.0	23.9	45.0	43.6
MD93-5298	55.2	44.3	19.7	41.2	24.4	39.9	41.0
MD94-5396	55.2	57.1	23.5	40.7	24.1	45.4	44.5
MD94-5332	54.5	49.1	8.2	37.2	27.5	47.4	43.1
MD92-5769	56.8	55.9	22.6	39.3	24.7	44.2	44.2
MD93-5581	48.6	45.3	17.8	41.8	26.8	38.1	40.1
S94-2086	45.5	47.4	27.4	41.4	36.8	36.3	41.5
V91-2492	50.9	43.4	17.1	39.9	28.7	41.4	40.8
V93-2329	49.2	54.6	14.1	36.1	25.4	42.2	41.5
TN93-87	55.3	52.5	22.1	40.4	26.0	38.6	42.6
TN95-53	46.3	38.2	18.1	38.5	24.0	38.0	37.0
TN95-95	45.4	45.8	22.4	33.5	27.4	38.9	38.2
VS94-08	37.2	43.8	20.6	33.5	29.1	35.1	35.7
L. S. D. (0.05)	5.9	6.2	9.0		5.8	4.7	.
C. V. (%)	6.8	6.4	28.5	9.3	13.3	6.8	.

†Not included in Mean.

WEST

STRAIN/ VARIETY	BIXBY OK	CHANUTE† KS	WALNUT† KS	MEAN
MANOKIN	18.8	22.0	24.6	18.8
KS4694	12.4	16.6	22.6	12.4
R95-3235	21.3	20.8	24.2	21.3
K1390	18.5	20.0	17.0	18.5
LS94-3207	12.0	19.7	25.8	12.0
MD93-5298	13.5	18.1	11.5	13.5
MD94-5396	14.1	16.2	21.1	14.1
MD94-5332	19.1	17.2	19.4	19.1
MD92-5769	16.3	22.2	22.6	16.3
MD93-5581	18.2	17.0	19.2	18.2
S94-2086	14.0	16.0	17.5	14.0
V91-2492	15.8	13.5	21.8	15.8
V93-2329	18.0	20.7	24.0	18.0
TN93-87	15.1	20.7	22.3	15.1
TN95-53	13.0	16.1	20.4	13.0
TN95-95	13.2	15.8	18.6	13.2
VS94-08	14.8	18.9	20.3	14.8
L. S. D. (0.05)	3.5	3.8	3.7	.
C. V. (%)	13.4	12.4	10.8	.

†Not included in Mean.

TABLE 4 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1998**OIL PERCENTAGES**

STRAIN/ VARIETY	BIXBY OK	KNOXVILLE TN	MARTIN TN	ORANGE VA	PINE TREE† AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	.	19.7	20.9	23.2	20.2	19.0	.	18.7	20.0	22.4	17.3	21.7	20.3
KS4694	.	21.3	21.4	23.8	20.5	19.9	.	19.8	20.2	21.1	19.5	20.8	20.9
R95-3235	.	19.3	20.3	23.1	19.7	18.9	.	17.9	20.3	21.4	18.5	20.9	20.1
K1390	.	20.1	20.5	22.9	20.2	20.2	.	18.7	20.6	21.7	19.6	21.2	20.6
LS94-3207	.	20.3	20.2	23.0	19.1	19.5	.	19.1	20.1	21.7	18.9	21.4	20.5
MD93-5298	.	19.8	18.8	23.4	21.3	20.0	.	17.9	20.4	21.1	19.2	21.9	20.3
MD94-5396	.	19.5	19.3	22.5	20.4	19.3	.	18.0	19.8	21.4	18.5	20.3	19.8
MD94-5332	.	20.5	20.0	22.4	19.8	20.3	.	19.3	20.5	22.1	19.6	20.6	20.6
MD92-5769	.	20.2	18.7	22.9	20.6	19.7	.	18.7	19.8	21.7	19.1	21.2	20.2
MD93-5581	.	19.8	19.0	22.0	19.6	17.9	.	19.2	19.0	20.5	18.3	20.0	19.5
S94-2086	.	19.1	20.3	21.2	18.8	18.9	.	18.6	19.5	20.7	17.8	19.3	19.5
V91-2492	.	20.5	19.5	23.4	20.8	19.7	.	18.2	20.6	21.0	18.9	21.3	20.3
V93-2329	.	19.2	20.8	22.8	20.2	18.6	.	18.6	20.5	21.0	17.7	21.5	20.1
TN93-87	.	20.8	20.8	24.1	20.3	20.0	.	18.8	20.4	21.2	18.7	20.9	20.6
TN95-53	.	20.7	20.1	23.6	21.0	20.4	.	20.2	21.3	21.2	19.0	21.1	20.8
TN95-95	.	20.6	21.2	23.5	20.2	20.0	.	19.6	20.5	20.5	18.9	21.5	20.7
VS94-08	.	19.7	19.9	22.7	18.6	18.9	.	18.5	20.1	19.6	17.9	19.9	19.7

†Not included in Mean

TABLE 4 - Continued

PROTEIN PERCENTAGES

STRAIN/ VARIETY	BIXBY OK	KNOXVILLE TN	MARTIN TN	ORANGE VA	PINE TREE† AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	.	39.7	42.0	36.8	42.8	43.1	.	43.3	40.0	40.2	44.1	40.1	41.0
KS4694	.	40.0	41.7	37.0	42.6	42.6	.	42.2	40.1	41.8	43.5	42.1	41.2
R95-3235	.	43.5	42.6	36.9	43.4	43.0	.	43.9	39.3	41.2	44.4	41.6	41.8
K1390	.	42.7	42.7	39.0	43.6	43.0	.	44.4	40.6	42.4	43.4	41.8	42.2
LS94-3207	.	42.8	40.2	37.3	44.5	43.6	.	42.5	39.7	42.5	42.4	40.8	41.3
MD93-5298	.	40.4	44.1	36.8	41.0	41.5	.	43.4	39.1	39.8	42.9	39.1	40.8
MD94-5396	.	41.5	44.6	38.3	42.4	42.0	.	43.5	40.1	40.9	42.8	41.2	41.7
MD94-5332	.	42.0	41.1	39.9	45.0	42.7	.	44.7	41.4	41.5	43.3	43.0	42.2
MD92-5769	.	39.2	44.3	36.5	40.3	39.8	.	41.6	38.3	39.2	41.6	39.5	40.0
MD93-5581	.	43.7	44.2	38.5	43.7	45.0	.	43.1	42.5	43.1	44.1	42.3	42.9
S94-2086	.	42.1	41.6	38.6	42.6	41.7	.	43.6	40.1	41.1	43.9	42.5	41.7
V91-2492	.	41.7	44.4	37.7	41.6	43.1	.	45.4	40.6	42.6	44.3	41.7	42.4
V93-2329	.	45.0	42.7	36.2	44.8	46.4	.	46.0	42.3	44.3	46.3	42.8	43.6
TN93-87	.	41.7	42.1	37.9	40.7	40.5	.	41.6	38.0	38.9	41.8	39.5	40.2
TN95-53	.	41.7	42.5	38.4	42.6	43.0	.	43.8	39.7	41.5	44.6	42.7	42.0
TN95-95	.	42.5	41.6	38.3	42.7	43.3	.	43.5	41.0	42.3	44.0	41.5	42.0
VS94-08	.	42.9	44.9	38.3	46.3	44.6	.	45.4	40.9	44.4	45.6	43.2	43.4

†Not included in Mean

TABLE 4 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	BIXBY OK	KNOXVILLE TN	MARTIN TN	ORANGE VA	PINE TREE† AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	12.8	9.3	12.2	13.1	13.0	9.9	10.6	9.8	12.8	11.1	9.1	12.1	11.2
KS4694	14.8	14.8	16.0	15.9	16.4	13.3	12.0	13.7	14.7	14.6	12.5	15.7	14.4
R95-3235	11.5	9.6	11.0	12.7	11.7	9.2	9.5	9.5	12.4	9.9	9.0	12.4	10.6
K1390	13.6	11.6	12.1	13.9	12.5	11.7	10.7	10.9	13.5	9.9	10.2	12.4	11.9
LS94-3207	14.2	10.7	11.1	12.0	10.8	10.3	10.1	10.9	12.4	12.9	9.6	11.7	11.4
MD93-5298	13.5	8.4	11.6	12.0	12.4	10.3	9.8	9.5	11.0	9.7	9.7	11.3	10.6
MD94-5396	12.7	10.8	13.2	13.6	13.9	10.3	10.1	9.8	12.5	10.2	10.2	12.5	11.4
MD94-5332	19.9	14.5	11.5	19.7	19.3	14.1	14.4	15.6	18.1	14.7	14.1	17.6	15.8
MD92-5769	12.9	11.0	10.8	14.0	12.5	10.5	10.4	10.6	12.8	11.1	10.5	12.2	11.5
MD93-5581	13.7	12.0	14.5	13.6	13.9	11.7	11.3	12.8	12.7	11.8	11.6	13.8	12.7
S94-2086	15.1	12.5	13.5	12.3	13.4	11.7	10.8	10.5	12.3	10.8	10.5	12.9	12.1
V91-2492	13.2	11.4	15.2	14.3	14.1	11.7	10.5	11.7	13.7	11.9	11.0	14.0	12.6
V93-2329	11.6	9.6	11.1	11.9	12.7	9.9	10.1	10.4	11.7	11.1	9.5	12.0	10.8
TN93-87	12.4	9.1	15.8	11.8	12.3	10.1	10.1	9.8	12.2	9.9	9.3	11.5	11.1
TN95-53	15.5	11.8	11.7	13.8	14.3	11.9	11.1	13.2	13.7	11.6	10.9	13.5	12.6
TN95-95	14.8	13.2	13.2	13.0	12.8	11.6	10.5	12.1	13.9	11.1	10.7	13.3	12.5
VS94-08	15.1	13.6	17.6	16.3	20.1	14.1	14.0	14.6	17.7	16.0	12.7	15.7	15.2

†Not included in Mean

**TABLE 5 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN
MANOKIN FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1998**

EAST

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MD	VA	
MANOKIN	10/16	10/11	10/03	10/10
KS4694	-8	-5	-7	-7
R95-3235	-9	-2	-1	-4
K1390	5	-2	-1	1
LS94-3207	0	-8	-7	-5
MD93-5298	-3	-6	-1	-3
MD94-5396	2	-3	2	0
MD94-5332	1	-1	-1	0
MD92-5769	0	-1	-1	-1
MD93-5581	4	-8	-6	-3
S94-2086	3	-6	-6	-3
V91-2492	-1	-4	-3	-3
V93-2329	0	-5	-2	-2
TN93-87	1	1	0	1
TN95-53	2	-6	-6	-4
TN95-95	-2	-7	-7	-5
VS94-08	4	0	-2	1

SOUTH

STRAIN/ VARIETY	KNOXVILLE	MARTIN	ORANGE	PRINCETON	STARKVILLE	ULLIN	MEAN
	TN	TN	VA	KY	MS	IL	
MANOKIN	09/19	10/05	10/11	09/26		09/26	09/29
KS4694	-6	3	-2	-5	.	0	-1
R95-3235	-2	-3	-2	-1	.	0	-1
K1390	-2	-2	1	-1	.	-1	-1
LS94-3207	-4	-3	-10	-4	.	-4	-5
MD93-5298	-3	4	1	-4	.	1	0
MD94-5396	1	-3	2	0	.	1	1
MD94-5332	-1	-2	3	-1	.	3	1
MD92-5769	-1	-2	2	-1	.	-1	0
MD93-5581	-3	-3	-10	-4	.	-2	-4
S94-2086	-3	-2	-5	-3	.	1	-2
V91-2492	-3	-3	-2	-4	.	0	-2
V93-2329	-3	-3	0	0	.	0	-1
TN93-87	1	2	2	0	.	2	2
TN95-53	-2	-2	-3	-3	.	1	-1
TN95-95	-3	-3	-8	-5	.	1	-3
VS94-08	4	0	-2	0	.	2	1

TABLE 5 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PINE TREE† AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	09/29	09/24	10/02	09/26	10/01	09/24	09/27
KS4694	-4	1	-1	-6	-7	-4	-4
R95-3235	-2	0	-1	-3	-1	-2	-2
K1390	-2	-2	-1	0	-4	-3	-2
LS94-3207	-7	8	-2	9	-11	-7	-2
MD93-5298	-3	2	0	0	-3	-7	-2
MD94-5396	2	7	3	2	-1	2	2
MD94-5332	1	6	4	0	-1	2	1
MD92-5769	1	0	-2	-1	-4	2	-1
MD93-5581	-4	0	-1	-2	-8	-6	-4
S94-2086	0	0	0	-1	-5	-4	-2
V91-2492	-1	1	-2	-4	-8	-4	-3
V93-2329	-2	-3	-2	-4	-2	-3	-3
TN93-87	-1	0	1	0	0	-3	-1
TN95-53	0	-4	-1	1	-4	-5	-3
TN95-95	-2	-3	-3	-1	-7	-6	-4
VS94-08	3	18	5	6	-2	4	5

†Not included in Mean

TABLE 6 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1998**EAST**

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MD	VA	
MANOKIN	31	35	21	29
KS4694	28	31	17	25
R95-3235	29	32	21	27
K1390	30	32	21	28
LS94-3207	28	32	21	27
MD93-5298	37	40	23	33
MD94-5396	28	33	23	28
MD94-5332	26	28	22	25
MD92-5769	22	26	19	22
MD93-5581	28	27	22	26
S94-2086	36	37	23	32
V91-2492	29	35	20	28
V93-2329	25	26	17	23
TN93-87	31	35	25	30
TN95-53	33	38	22	31
TN95-95	30	38	22	30
VS94-08	36	40	25	34

SOUTH

STRAIN/ VARIETY	KNOXVILLE	MARTIN	ORANGE	PRINCETON	ULLIN	MEAN
	TN	TN	VA	KY	IL	
MANOKIN	31	29	27	39	31	32
KS4694	27	31	26	41	38	32
R95-3235	28	32	25	40	33	32
K1390	28	30	25	39	28	30
LS94-3207	25	35	22	38	29	30
MD93-5298	42	37	32	46	44	40
MD94-5396	28	31	27	39	33	32
MD94-5332	21	27	22	39	25	27
MD92-5769	24	24	21	33	25	25
MD93-5581	22	31	18	38	27	27
S94-2086	39	47	26	48	48	42
V91-2492	37	35	24	43	41	36
V93-2329	24	27	20	35	28	27
TN93-87	27	33	27	40	31	32
TN95-53	43	43	29	50	44	42
TN95-95	42	42	27	48	44	41
VS94-08	42	36	30	43	38	38

TABLE 6 - Continued

DELTA						
STRAIN/ VARIETY	KEISER AR	MARIANNA AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)	STONEVILLE MS	MEAN
MANOKIN	23	30	25	20	30	26
KS4694	37	44	32	25	34	34
R95-3235	24	26	18	20	30	23
K1390	25	29	21	20	32	25
LS94-3207	19	23	17	16	30	21
MD93-5298	46	48	35	32	50	42
MD94-5396	24	29	24	21	34	26
MD94-5332	23	23	18	19	32	23
MD92-5769	13	22	19	17	28	20
MD93-5581	22	21	17	19	36	23
S94-2086	48	52	40	38	46	45
V91-2492	45	46	34	30	44	40
V93-2329	19	19	15	16	26	19
TN93-87	24	29	23	21	28	25
TN95-53	50	49	44	30	48	44
TN95-95	44	47	42	31	54	44
VS94-08	45	38	39	35	44	40

WEST				
STRAIN/ VARIETY	BIXBY OK	CHANUTE† KS	WALNUT† KS	MEAN
MANOKIN	24	25	38	24
KS4694	20	27	39	20
R95-3235	25	26	36	25
K1390	23	29	39	23
LS94-3207	22	28	29	22
MD93-5298	29	32	43	29
MD94-5396	21	27	37	21
MD94-5332	23	28	32	23
MD92-5769	21	22	29	21
MD93-5581	24	28	36	24
S94-2086	28	35	49	28
V91-2492	23	28	42	23
V93-2329	22	24	31	22
TN93-87	26	30	38	26
TN95-53	25	32	45	25
TN95-95	28	32	48	28
VS94-08	26	33	45	26

†Not included in Mean

**TABLE 7 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S,
1998**

EAST

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MD	VA	
MANOKIN	4	3	1	3
KS4694	3	2	1	2
R95-3235	3	2	1	2
K1390	2	3	1	2
LS94-3207	3	3	1	2
MD93-5298	4	2	1	2
MD94-5396	4	2	1	2
MD94-5332	2	2	1	2
MD92-5769	2	2	1	2
MD93-5581	2	2	1	2
S94-2086	5	3	1	3
V91-2492	4	2	1	2
V93-2329	2	2	1	2
TN93-87	4	3	1	3
TN95-53	3	3	1	2
TN95-95	3	3	1	2
VS94-08	4	4	1	3

SOUTH

STRAIN/ VARIETY	KNOXVILLE	MARTIN	ORANGE	PRINCETON	ULLIN	MEAN
	TN	TN	VA	KY	IL	
MANOKIN	2	2	1	5	1	2
KS4694	2	2	1	1	2	1
R95-3235	2	1	1	4	1	2
K1390	2	2	1	5	1	2
LS94-3207	2	1	1	5	1	2
MD93-5298	3	2	1	2	1	2
MD94-5396	2	1	1	4	2	2
MD94-5332	2	2	1	1	1	1
MD92-5769	2	2	1	1	1	1
MD93-5581	2	1	1	4	1	2
S94-2086	3	2	1	5	2	2
V91-2492	2	2	1	3	1	2
V93-2329	2	2	1	5	1	2
TN93-87	2	3	1	5	1	2
TN95-53	3	2	1	2	1	2
TN95-95	3	2	1	5	2	3
VS94-08	4	2	1	5	2	3

TABLE 7 - Continued

STRAIN/ VARIETY	DELTA					
	KEISER AR	MARIANNA AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN
MANOKIN	1	1	1	1	2	1
KS4694	2	3	1	1	3	2
R95-3235	1	1	1	1	2	1
K1390	1	2	1	1	2	1
LS94-3207	1	1	1	1	2	1
MD93-5298	1	3	2	1	3	2
MD94-5396	1	1	1	1	2	1
MD94-5332	1	1	1	1	2	1
MD92-5769	1	1	1	1	2	1
MD93-5581	1	1	1	1	2	1
S94-2086	3	3	2	1	4	3
V91-2492	2	4	2	1	3	2
V93-2329	1	1	1	1	2	1
TN93-87	1	1	1	1	3	1
TN95-53	2	3	2	1	3	2
TN95-95	3	2	3	1	3	2
VS94-08	4	4	3	2	4	3

TABLE 8 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP IV-S, 1998**EAST**

STRAIN/ VARIETY	GEORGETOWN	QUEENSTOWN	WARSAW	MEAN
	DE	MD	VA	
MANOKIN	1	2	3	2
KS4694	1	2	2	2
R95-3235	1	2	3	2
K1390	1	2	2	2
LS94-3207	1	2	2	2
MD93-5298	1	2	3	2
MD94-5396	1	2	2	2
MD94-5332	1	2	3	2
MD92-5769	1	2	2	2
MD93-5581	1	2	3	2
S94-2086	1	2	2	2
V91-2492	1	2	2	2
V93-2329	1	1	2	2
TN93-87	1	1	2	1
TN95-53	1	2	2	2
TN95-95	1	2	2	2
VS94-08	1	2	2	2

SOUTH

STRAIN/ VARIETY	KNOXVILLE	MARTIN	ORANGE	PRINCETON	ULLIN	MEAN
	TN	TN	VA	KY	IL	
MANOKIN	2	2	1	2	2	2
KS4694	2	2	1	1	2	2
R95-3235	1	2	1	1	1	1
K1390	2	1	1	1	1	1
LS94-3207	2	2	1	1	2	2
MD93-5298	2	2	1	2	2	2
MD94-5396	2	3	1	1	1	2
MD94-5332	3	2	1	2	2	2
MD92-5769	2	3	1	1	2	2
MD93-5581	2	2	1	2	4	2
S94-2086	2	2	1	2	2	2
V91-2492	2	2	1	1	2	2
V93-2329	1	2	1	1	2	1
TN93-87	2	2	1	1	1	1
TN95-53	2	2	1	2	2	2
TN95-95	2	2	1	1	2	2
VS94-08	2	2	1	2	2	2

TABLE 8 - Continued

STRAIN VARIETY	DELTA				MEAN
	PINE TREE†	PORTAGEVILLE	PORTAGEVILLE		
	AR	MO (A)	MO (B)		
MANOKIN	3	2	2		2
KS4694	5	2	2		2
R95-3235	3	2	2		2
K1390	2	2	2		2
LS94-3207	2	2	2		2
MD93-5298	3	2	2		2
MD94-5396	3	2	2		2
MD94-5332	4	3	3		3
MD92-5769	3	2	2		2
MD93-5581	4	2	2		2
S94-2086	3	2	2		2
V91-2492	3	2	2		2
V93-2329	3	2	2		2
TN93-87	3	2	2		2
TN95-53	3	2	3		3
TN95-95	2	2	2		2
VS94-08	3	3	2		3

†Not included in Mean

PRELIMINARY GROUP IV-S

1998

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

TABLE 9 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S, 1998

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. MANOKIN	L70-L3048 X D74-7824	F5
2. KS4694	SHERMAN X TOANO	F5
3. R95-3103	PI0 9461 X KS 4895	
4. R95-2326	MANOKIN X ASG A5403	
5. K1419	KS4997 X HARTWIG	F5
6. K1420	KS4997 X KS4694	F5
7. K1421	MANOKIN X R89-332	F5
8. K1422	HARTWIG X R89-332	F5
9. K1423	MANOKIN X LS86-1922	F5
10. MD95-5622	MD88-5360 X N87-325	F5
11. MD95-5840	MD88-5360 X MD86-5788	F5
12. MD95-5231	S88-1855 X MORGAN	F5
13. MD95-5148	MD88-5360 X WICOMICO	F5
14. V94-1295	V85-5344 X C1747	
15. V94-0198	DP415 X MANOKIN	
16. V94-1260	V85-5344 X C1747	
17. V94-0436	DP415 X C1747	
18. V94-0552	HUTCHESON X MANOKIN	
19. TN95-14	TN4-86 X KUNITZ	

TABLE 10 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP IV-S, 1998, MEAN OF 8 LOCATIONS

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----	STEM CANKER	SCN 2	SCN 3	SCN 14	M. i. TN	M. a. TN	
MANOKIN	36.1	09/29	2	29	2	11.1	41.8	20.1	R	3.8	1.0	4.4	1.5	1.0
KS4694	38.0	4-	2	31	2	14.1	41.5	20.5	S	4.6	5.0	4.3	4.2	2.0
R95-3103	33.7	0	2	31	2	11.6	43.8+	19.9	R	4.4	4.7	4.6	4.0	1.3
R95-2326	34.7	0	2	25	2	10.6	41.9	19.2-	R	4.7	1.2	3.8	2.8	2.2
K1419	30.9-	1-	2	26	3	10.3	40.7	19.3-	S	2.4	1.3	2.9	4.2	1.8
K1420	35.3	1+	1	27	2	12.9	42.9+	19.1-	S	4.6	2.1	4.7	4.7	1.8
K1421	34.1	1+	2	28	2	11.4	42.4	19.7	R	4.5	1.0	4.3	2.6	1.8
K1422	29.5-	0	3	32	3	10.3	43.9+	18.5-	S	4.0	1.0	2.2	1.8	1.2
K1423	35.8	1-	2	27	2	11.4	41.9	19.2-	R	4.6	1.0	2.0	3.3	2.5
MD95-5622	34.2	2-	2	25	2	12.1	43.1+	19.3-	S	5.0	3.7	4.0	3.2	2.0
MD95-5840	31.9-	2-	2	26	2	10.3	44.2+	18.2-	R	4.9	4.1	4.1	1.2	3.7
MD95-5231	34.5	4-	2	34	3	13.6	42.7	19.6	R	4.8	4.0	3.9	4.5	2.5
MD95-5148	29.1-	2-	2	27	2	10.7	44.0+	19.4-	S	4.7	2.4	4.3	1.8	1.8
V94-1295	32.8	2-	2	21	3	10.6	41.7	20.2	S	5.0	3.3	4.4	4.5	2.8
V94-0198	35.7	2-	2	29	2	12.3	42.4	20.3	R	4.0	1.0	4.6	2.0	3.3
V94-1260	33.2	2-	2	23	2	11.2	43.0+	20.2	S	4.8	4.1	5.0	4.0	3.8
V94-0436	33.0	1+	2	25	2	13.6	42.5	19.3-	R	4.7	2.4	4.9	4.0	4.0
V94-0552	35.2	0	2	28	2	10.8	41.8	20.5	R	4.4	2.7	4.6	4.6	2.2
TN95-14	29.8-	2-	2	39	2	11.1	42.1	20.6	R	4.4	1.2	1.3	5.0	3.3
OVERALL MEAN	33.6						42.5	19.6						
L. S. D. (.05)	3.6						1.1	0.7						
C. V.	11%						2%	3%						

TABLE 11 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1998

STRAIN/ VARIETY	BIXBY OK	CHANUTE† KS	KEISER AR	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	22.3	19.3	56.8	42.3	23.7	38.8	44.9	41.6	18.2	36.1
KS4694	10.5-	17.5	56.7	45.4	31.4+	48.7+	48.7	44.2	18.9	38.0
R95-3103	11.2-	11.3-	53.7	47.1	20.2	42.1	38.3-	40.8	16.0	33.7
R95-2326	23.1	15.0	51.6	42.3	22.2	38.0	42.1	42.1	16.0	34.7
K1419	15.2-	17.0	49.0-	38.9	16.8	33.7	40.2-	39.5	14.4	30.9-
K1420	13.2-	16.9	57.2	37.6	23.1	40.7	45.3	46.6+	18.9	35.3
K1421	19.7	22.3	54.5	34.7-	21.7	35.9	43.5	44.0	18.6	34.1
K1422	18.1-	19.6	51.9	37.5	16.7	27.6-	37.2-	33.8-	13.2	29.5-
K1423	18.8-	24.1+	57.6	42.3	29.1	32.3	45.3	46.8+	14.0	35.8
MD95-5622	13.3-	17.5	54.6	37.2	26.1	35.6	44.1	48.0+	15.1	34.2
MD95-5840	10.9-	17.5	59.1	33.2-	22.0	32.6	44.1	38.0	15.6	31.9-
MD95-5231	18.3-	16.8	49.7	39.5	24.8	37.3	41.9	47.1+	17.4	34.5
MD95-5148	11.6-	21.4	46.4-	33.6-	16.2	33.0	44.4	33.9-	13.4	29.1-
V94-1295	9.0-	15.5	54.7	38.1	16.7	38.4	46.6	42.7	16.0	32.8
V94-0198	16.1-	22.1	54.8	39.3	27.5	38.2	44.1	51.6+	14.3	35.7
V94-1260	10.8-	21.4	52.6	38.9	17.5	39.5	44.6	46.2	15.6	33.2
V94-0436	10.9-	20.1	50.0	34.5-	25.5	42.3	42.8	43.5	14.3	33.0
V94-0552	14.7-	15.8	58.4	42.1	28.3	35.2	42.3	46.8+	14.0	35.2
TN95-14	19.7	14.0-	38.0-	40.3	18.3	35.0	33.4-	41.0	12.9	29.8-
L. S. D. (0.05)	3.4	4.5	7.2	7.1	7.6	8.2	4.5	4.9	6.4	3.6
C. V. (%)	13.5	11.8	6.5	8.7	15.7	10.5	5.0	5.5	19.4	10.8

†Not included in Mean

TABLE 12 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1998

STRAIN/ VARIETY	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	19.4	18.9	20.2	21.5	18.3	22.4	20.1
KS4694	19.8	20.0	20.6	22.1	18.8	21.8	20.5
R95-3103	19.4	18.1	21.2	21.3	18.4	21.0	19.9
R95-2326	18.5	17.7	20.0	20.5	17.1	21.3	19.2
K1419	18.5	17.3	20.0	20.6	18.0	21.4	19.3
K1420	18.8	18.3	19.5	19.9	17.9	20.1	19.1
K1421	18.8	18.3	20.3	21.5	17.8	21.4	19.7
K1422	17.2	17.2	18.6	20.8	16.7	20.7	18.5
K1423	18.6	19.3	18.5	20.0	18.1	20.9	19.2
MD95-5622	19.2	18.2	19.4	20.3	18.6	20.3	19.3
MD95-5840	17.5	17.6	18.1	18.6	17.5	19.9	18.2
MD95-5231	19.2	19.7	19.1	20.5	19.4	19.4	19.6
MD95-5148	18.7	17.8	19.7	20.9	18.5	20.5	19.4
V94-1295	19.9	19.7	20.1	21.1	19.4	21.2	20.2
V94-0198	19.2	21.4	20.2	21.8	18.4	20.7	20.3
V94-1260	19.8	18.5	21.5	20.4	19.2	21.7	20.2
V94-0436	18.2	18.6	19.7	21.0	17.7	20.3	19.3
V94-0552	19.2	20.4	21.2	20.7	18.7	22.9	20.5
TN95-14	19.7	20.5	21.0	20.9	19.3	22.3	20.6

TABLE 13 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1998

STRAIN/ VARIETY	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	43.6	43.2	40.5	39.9	44.0	39.6	41.8
KS4694	42.7	42.0	40.4	40.5	43.4	40.0	41.5
R95-3103	45.3	45.1	41.5	41.3	46.0	43.7	43.8
R95-2326	43.0	43.6	39.0	40.2	44.4	41.1	41.9
K1419	42.8	42.6	38.1	38.6	43.5	38.3	40.7
K1420	43.8	44.8	40.2	41.4	44.8	42.5	42.9
K1421	43.6	44.1	40.7	40.6	44.4	41.2	42.4
K1422	46.7	45.0	42.3	41.5	46.6	41.2	43.9
K1423	43.3	41.6	41.2	41.6	43.4	40.0	41.9
MD95-5622	43.8	44.1	41.9	42.0	44.0	42.6	43.1
MD95-5840	45.7	44.2	42.8	43.1	45.5	44.1	44.2
MD95-5231	43.2	42.2	42.2	42.3	44.0	42.3	42.7
MD95-5148	45.4	46.0	42.1	42.4	44.9	43.1	44.0
V94-1295	42.6	41.4	40.4	40.9	43.3	41.8	41.7
V94-0198	44.5	39.9	42.0	40.4	44.7	43.0	42.4
V94-1260	43.8	45.0	39.7	42.6	44.1	42.7	43.0
V94-0436	44.4	43.7	40.6	39.6	44.6	42.2	42.5
V94-0552	44.2	41.8	39.3	41.9	44.5	38.8	41.8
TN95-14	43.4	41.1	40.3	42.5	43.9	41.1	42.1

**TABLE 14 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP PIV-S,
1998**

STRAIN/ VARIETY	BIXBY OK	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	13.3	10.2	10.3	12.4	10.2	8.9	12.6	11.1
KS4694	12.9	14.1	12.6	15.7	16.3	12.2	14.8	14.1
R95-3103	11.4	11.1	10.3	12.9	10.7	10.9	13.7	11.6
R95-2326	12.0	9.9	9.5	11.9	10.0	8.3	12.8	10.6
K1419	10.5	10.6	8.8	11.0	10.6	9.2	11.8	10.3
K1420	13.1	12.7	12.9	13.3	12.6	11.7	13.8	12.9
K1421	15.1	10.5	9.0	11.6	11.4	8.9	13.3	11.4
K1422	10.6	10.9	8.9	11.1	11.1	8.4	11.3	10.3
K1423	13.4	10.4	11.2	11.6	12.4	8.9	12.2	11.4
MD95-5622	13.2	11.4	11.0	12.8	12.3	10.8	13.5	12.1
MD95-5840	10.9	9.9	8.9	10.6	10.5	9.1	12.4	10.3
MD95-5231	13.5	12.3	12.5	14.1	14.2	14.1	14.4	13.6
MD95-5148	12.8	9.7	9.7	11.5	10.6	8.4	12.4	10.7
V94-1295	11.3	10.4	9.0	11.3	10.7	9.2	12.7	10.6
V94-0198	13.7	11.3	11.2	13.7	11.6	10.5	13.9	12.3
V94-1260	11.3	10.8	10.0	12.3	10.7	9.9	13.5	11.2
V94-0436	15.5	12.6	11.7	14.8	12.0	11.8	16.9	13.6
V94-0552	12.2	10.1	10.0	12.2	11.0	8.9	11.4	10.8
TN95-14	12.5	11.0	10.1	11.9	11.1	9.1	12.2	11.1

TABLE 15 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1998

STRAIN/ VARIETY	BIXBY OK	CHANUTE† KS	KEISER AR	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	26	25	26	20	42	30	38	27	20	29
KS4694	22	24	35	25	40	31	38	38	20	31
R95-3103	21	22	42	39	41	30	32	28	18	31
R95-2326	20	22	21	20	39	31	24	30	19	25
K1419	23	25	21	20	39	32	30	24	19	26
K1420	25	31	23	19	39	33	34	25	18	27
K1421	23	25	22	22	39	32	34	30	23	28
K1422	28	28	27	25	44	36	40	36	24	32
K1423	25	22	22	26	40	32	26	29	20	27
MD95-5622	23	26	22	17	36	28	26	27	19	25
MD95-5840	26	24	24	19	38	26	32	27	18	26
MD95-5231	28	28	43	31	40	33	40	39	22	34
MD95-5148	25	25	23	25	35	31	32	24	20	27
V94-1295	20	21	19	15	33	23	24	19	15	21
V94-0198	27	28	23	22	41	34	34	30	21	29
V94-1260	24	21	19	14	37	24	26	23	15	23
V94-0436	24	21	22	21	32	25	30	26	18	25
V94-0552	29	25	24	23	35	36	32	28	19	28
TN95-14	21	32	45	40	48	37	58	43	21	39

†Not included in Mean

TABLE 16 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S, 1998

STRAIN/ VARIETY	CHANUTE† KS	KEISER AR	PORTAGEVILLE MO(B)	PRINCETON KY	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
MANOKIN	2	1	1	5	2	3	1	1	2
KS4694	1	2	2	4	2	3	2	1	2
R95-3103	1	1	1	3	2	2	1	1	2
R95-2326	1	1	1	4	2	2	1	1	2
K1419	1	1	1	5	2	2	1	1	2
K1420	1	1	1	2	2	2	1	1	1
K1421	2	1	1	5	3	3	2	1	2
K1422	2	2	1	5	4	4	2	1	3
K1423	1	1	1	5	3	2	1	1	2
MD95-5622	1	1	1	3	2	2	1	1	2
MD95-5840	2	1	1	3	2	2	1	1	2
MD95-5231	1	2	1	2	2	3	2	1	2
MD95-5148	1	1	1	4	2	2	1	1	2
V94-1295	1	1	1	4	2	2	1	1	2
V94-0198	1	1	1	4	3	2	1	1	2
V94-1260	1	1	1	3	2	2	1	1	2
V94-0436	1	1	1	4	2	2	1	1	2
V94-0552	1	1	1	5	2	2	1	1	2
TN95-14	1	2	2	5	3	3	2	1	2

**TABLE 17 - SEED QUALITY FOR STRAIN/VARIETY IN PRELIMINARY GROUP IV-S,
1998**

STRAIN/ VARIETY	PORTAGEVILLE MO (B)	PRINCETON KY	QUEENSTOWN MD	ULLIN IL	WARSAW VA	MEAN
MANOKIN	2	3	2	2	3	2
KS4694	2	2	3	3	3	2
R95-3103	2	3	2	2	2	2
R95-2326	2	2	3	2	2	2
K1419	2	4	2	3	3	3
K1420	2	2	3	2	3	2
K1421	2	2	2	1	2	2
K1422	3	4	2	3	2	3
K1423	2	2	2	2	3	2
MD95-5622	2	2	2	1	3	2
MD95-5840	2	1	2	1	3	2
MD95-5231	3	3	2	3	3	3
MD95-5148	2	2	2	2	3	2
V94-1295	2	4	2	2	3	3
V94-0198	2	2	2	2	3	2
V94-1260	2	3	2	2	3	2
V94-0436	2	2	3	2	3	2
V94-0552	2	1	2	2	2	2
TN95-14	2	3	2	2	2	2

UNIFORM GROUP V

1998

Uniform Group V nurseries were planted at 26 locations. Data were obtained from 24 of these locations. The parentage for each strain is reported in Table 18. Table 19 gives a general summary of information for each strain including one, two, and three-year means for seed yield, oil and protein percentages, botanical traits, and pest reactions. Results from individual locations are summarized in Tables 20 - 25.

**TABLE 18 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP V,
1998**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	F5
2. MANOKIN	L70-L3048 X D74-7824	F5
3. R93-171	HUTCHESON X ASG A5403	
4. R94-929	HUTCHESON X R87-170	
5. K1391	MANOKIN X HC85-618	F5
6. K1393	KS5292 X HUTCHESON	F5
7. K1364	RHODES X HOLLADAY	F5
8. KY94-2134	ASGROW A3935 X N86-7687	
9. MD94-5341	CLIFFORD X CORSICA	F5
10. MD93-5576	MANOKIN X LS84-2308	F5
11. MD93-5634	K1173 X CORSICA	F5
12. S94-1956	N85-578 X HARTWIG	F5
13. S94-1955	N85-578 X HARTWIG	F5
14. S95-1908	S92-1495 X NKS59-60	F5
15. S95-2151	A5979 X S92-1598	F5
16. OK89-6001	ESSEX X GAIL	
17. NTCPR94-5237	YOUNG X N73-1102	F4
18. V91-3036	HUTCHESON X V84-1790	F5
19. V92-0254	HUTCHESON X V83-2298	F5
20. V92-0974	HUTCHESON X FFR561	F5
21. V93-3114	FFR544 X HUTCHESON	
22. V92-697	HUTCHESON (2) X AVERY	
23. TN93-99	HUTCHESON X TN85-55 X TN5-85	
24. TN94-213	S85-1009 X HUTCHESON	
25. TN95-268	CORDELL X HUTCHESON	
26. N93-54	N85-67 X HOLLADAY	F6
27. N94-546	COOK X CLIFFORD	F6
28. N95-198	PROLINA X CORSICA	F6
29. DT95-15550	HUTCHESON X DPL 3589	F5
30. DT95-17556	P9592 X DPL415	F5
31. J94-7	HARTWIG X HOLLADAY	

TABLE 19 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V, 1998

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1998	97-98	96-98	1998	97-98	96-98	1998	97-98	96-98
HUTCHESON	40.7	44.9	46.8	40.8	40.7	41.2	21.0	20.9	21.1
MANOKIN	37.4	43.1	44.9	41.2	40.7	41.3	20.4	20.4	20.7
R93-171	42.7	46.8	.	41.5	41.5	.	20.1	20.1	.
R94-929	42.7	.	.	41.1	.	.	19.6	.	.
K1391	38.5	.	.	40.8	.	.	20.3	.	.
K1393	40.4	.	.	42.6	.	.	20.9	.	.
K1364	41.0	44.9	.	42.0	42.0	.	20.9	20.6	.
KY94-2134	39.4	.	.	40.8	.	.	20.4	.	.
MD94-5341	38.5	.	.	42.9	.	.	19.6	.	.
MD93-5576	34.3	.	.	40.9	.	.	20.2	.	.
MD93-5634	40.8	44.8	.	43.5	43.0	.	19.6	19.8	.
S94-1956	40.6	46.3	.	41.2	41.1	.	20.4	20.2	.
S94-1955	39.9	.	.	40.8	.	.	20.4	.	.
S95-1908	41.8	.	.	42.7	.	.	19.3	.	.
S95-2151	38.5	.	.	42.7	.	.	19.1	.	.
OK89-6001	38.9	.	.	43.7	.	.	19.8	.	.
NTCPR94-5237	39.6	43.7	.	42.5	42.1	.	20.3	20.3	.
V91-3036	41.3	46.0	47.2	42.2	42.2	42.4	19.8	19.7	19.9
V92-0254	42.9	46.7	.	41.1	41.1	.	20.9	20.9	.
V92-0974	38.5	44.0	.	42.1	42.4	.	19.5	19.2	.
V93-3114	42.7	.	.	40.4	.	.	21.1	.	.
V92-697	38.6	.	.	40.7	.	.	20.7	.	.
TN93-99	43.2	47.5	.	41.0	41.0	.	21.1	21.1	.
TN94-213	36.5	.	.	42.3	.	.	19.3	.	.
TN95-268	30.4	.	.	42.9	.	.	20.2	.	.
N93-54	39.3	43.8	45.2	42.2	42.2	42.4	19.8	19.6	20.0
N94-546	42.4	45.2	.	42.2	42.1	.	19.6	19.6	.
N95-198	39.9	.	.	43.6	.	.	19.7	.	.
DT95-15550	42.0	.	.	41.0	.	.	19.9	.	.
DT95-17556	41.5	.	.	41.1	.	.	20.1	.	.
J94-7	38.4	42.7	.	40.2	40.0	.	19.6	19.4	.

†Data from McCune, KS, Pittsburg, KS, Walnut, KS, Bossier City, LA (1998); Pine Tree, AR, Suffolk, VA (1997); Martin, TN, Suffolk, VA (1996) not included in Mean.

TABLE 19 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
HUTCHESON	W	10/08	2	27	1	12.9	G	T
MANOKIN	W	5-	2	27	2	11.3	T	T
R93-171	W	1-	2	28	2	13.0	G	T
R94-929	W	2-	2	29	2	10.7	G	T
K1391	S	2-	2	28	2	12.0	T	T
K1393	W	2+	2	27	2	13.0	G	T
K1364	W	0	1	24	2	13.1	T	T
KY94-2134	P	0	2	25	2	14.1	G	BR
MD94-5341	P	4-	2	25	2	13.4	T	BR
MD93-5576	W	3-	2	28	2	11.5	T	T
MD93-5634	P	4-	2	32	2	13.6	G	T
S94-1956	P	1-	1	25	2	12.2	T	T
S94-1955	P	1-	1	24	2	11.8	T	T
S95-1908	W	7+	2	34	2	12.7	T	T
S95-2151	W	1+	2	35	2	13.3	T	BR
OK89-6001	P	3+	2	30	2	15.4	G	T
NTCPR94-5237	W	6+	2	30	2	15.3	T	T
V91-3036	P	1+	2	29	2	12.1	G	T
V92-0254	W	1-	2	27	1	11.9	G	T
V92-0974	W	1+	2	27	2	11.9	G	T
V93-3114	W	0	2	32	2	12.8	G	T
V92-697	W	3+	2	31	2	11.8	G	BR
TN93-99	W	1+	2	28	2	12.9	G	T
TN94-213	W	2-	1	24	2	11.7	G	T
TN95-268	W	6-	1	22	2	12.9	G	T
N93-54	P	0	2	28	2	11.8	G	BR
N94-546	P	0	2	29	2	13.3	T	T
N95-198	P	0	2	39	2	13.9	G	T
DT95-15550	P	0	2	34	2	14.9	G	T
DT95-17556	P	2+	2	32	2	12.8	T	T
J94-7	W	0	2	30	2	11.7	T	T

TABLE 19 - Continued

PEST REACTIONS

STRAIN/ VARIETY	STEM CANKER	SDS DX	SMV	SCN 2	SCN 3	SCN 14	M. i. GA	M. a. GA
HUTCHESON	R	7.9	R	4.8	5.0	5.0	5.0	4.8
MANOKIN	R	-1.5	S	4.3	1.0	5.0	1.5	2.8
R93-171	R	14.7	H	5.0	1.0	3.8	4.3	4.3
R94-929	R	0.8	R	5.0	3.3	2.7	2.3	4.8
K1391	R	3.6	H	5.0	1.4	4.9	4.0	4.5
K1393	S	3.2	S	5.0	2.5	5.0	1.5	4.3
K1364	S	0.4	S	4.6	1.1	5.0	4.3	2.3
KY94-2134	R	13.0	R	4.7	4.4	4.8	5.0	4.0
MD94-5341	S	2.9	R	5.0	3.1	4.3	5.0	4.3
MD93-5576		0.4	S	3.7	1.0	4.6	3.0	3.0
MD93-5634	S	3.6	S	5.0	4.9	3.0	4.8	3.0
S94-1956	S	0.9	S	3.2	1.0	1.3	4.8	3.8
S94-1955	S	-0.4	S	3.4	1.0	1.0	5.0	4.8
S95-1908	R	8.7	S	2.1	1.0	1.2	4.5	4.0
S95-2151	S	6.8	S	2.4	1.0	1.0	4.8	3.3
OK89-6001	S	17.1	S	5.0	4.3	4.7	3.5	4.5
NTCPR94-5237	S	0.7	R	4.8	3.9	4.3	4.3	5.0
V91-3036	R	2.5	R	4.5	1.1	1.9	4.8	4.0
V92-0254	R	7.7	R	4.9	2.3	5.0	4.5	3.8
V92-0974	R	0.1	R	4.7	2.2	4.9	2.8	3.5
V93-3114	R	12.0	R	4.9	3.3	4.7	5.0	2.8
V92-697	R	1.9	S	4.6	1.0	3.2	2.5	5.0
TN93-99	R	7.5	R	4.8	4.4	5.0	4.8	3.5
TN94-213	S	2.7	R	4.2	4.4	4.7	4.8	5.0
TN95-268		0.3	R	4.0	1.2	5.0	5.0	4.8
N93-54	S	5.0	R	4.2	1.6	3.2	5.0	3.0
N94-546	S	13.4	R	4.7	4.9	4.6	4.8	3.5
N95-198	S	2.4	S	4.7	4.5	4.3	5.0	4.0
DT95-15550	R	3.7	H	4.9	4.7	5.0	4.3	4.0
DT95-17556	R	7.2	R	5.0	4.8	5.0	1.0	4.3
J94-7	S	0.3	S	1.1	1.0	1.1	5.0	4.5

See Methods section for description of ratings scale.

TABLE 20 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM V, 1998

STRAIN/ VARIETY	EAST					MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA		
HUTCHESON	71.3	49.1	40.8	20.1	45.3	
MANOKIN	65.7	46.9	35.9	21.7	42.6	
R93-171	65.9	48.5	45.4	20.3	45.0	
R94-929	70.7	51.8	43.7	20.8	46.7	
K1391	61.6	46.9	44.3	21.0	43.5	
K1393	61.6	54.1	49.4	24.6	47.4	
K1364	63.3	45.9	47.5	21.9	44.7	
KY94-2134	69.8	49.9	39.6	24.6	46.0	
MD94-5341	56.1	51.6	41.1	23.0	43.0	
MD93-5576	45.1	45.5	40.1	18.8	37.4	
MD93-5634	68.5	49.7	43.0	24.6	46.5	
S94-1956	67.2	51.2	42.1	20.1	45.1	
S94-1955	55.4	45.8	44.8	20.3	41.6	
S95-1908	71.4	46.0	46.4	24.9	47.2	
S95-2151	58.7	43.6	38.8	21.2	40.6	
OK89-6001	65.4	45.1	39.0	25.7	43.8	
NTCPR94-5237	64.6	45.7	40.6	21.8	43.2	
V91-3036	71.7	50.1	43.1	23.0	47.0	
V92-0254	68.8	50.2	46.4	22.9	47.1	
V92-0974	54.0	46.1	46.5	19.3	41.5	
V93-3114	65.8	48.3	41.1	23.4	44.7	
V92-697	67.7	45.5	40.9	22.8	44.2	
TN93-99	69.0	56.7	45.2	22.3	48.3	
TN94-213	55.0	47.0	43.6	20.8	41.6	
TN95-268	34.8	36.9	43.0	19.5	33.6	
N93-54	60.9	41.5	40.0	23.1	41.4	
N94-546	68.8	52.0	45.5	24.3	47.7	
N95-198	72.1	43.9	44.1	18.9	44.7	
DT95-15550	65.8	47.9	43.7	21.9	44.8	
DT95-17556	64.7	48.8	40.6	21.1	43.8	
J94-7	69.4	44.7	33.3	19.6	41.7	
L. S. D. (0.05)	10.5	6.8	9.7	3.2	.	
C. V. (%)	10.1	8.8	13.9	8.9	.	

TABLE 20 - Continued

SOUTH

STRAIN/ VARIETY	BELLE MINA AL	KNOXVILLE TN	MARIANNA AR	ORANGE VA	PRINCETON KY	STARKVILLE MS	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	22.5	48.7	41.6	53.8	23.9	42.9	59.0	40.5	41.6
MANOKIN	15.2	44.9	31.5	39.2	27.3	44.5	50.3	37.2	36.3
R93-171	27.3	51.1	50.7	59.2	27.4	49.2	55.7	45.6	45.8
R94-929	19.1	45.0	35.6	56.8	29.2	44.3	56.4	46.9	41.7
K1391	19.9	47.8	32.7	57.9	26.5	39.5	53.9	39.6	39.7
K1393	25.6	44.6	41.9	57.1	22.6	35.8	59.4	44.3	41.4
K1364	21.7	43.4	44.5	62.4	25.7	40.4	55.9	43.6	42.2
KY94-2134	24.8	50.1	37.6	59.8	28.8	36.8	60.6	34.4	41.6
MD94-5341	11.5	50.4	52.8	61.8	26.4	40.7	54.8	37.9	42.0
MD93-5576	17.2	43.7	38.4	48.3	26.5	37.1	50.2	36.6	37.3
MD93-5634	16.8	48.2	42.3	47.3	23.4	46.3	49.2	42.9	39.5
S94-1956	22.4	50.0	43.9	56.5	23.9	42.1	49.7	41.4	41.2
S94-1955	20.3	46.2	43.5	60.1	27.4	45.7	55.8	40.0	42.4
S95-1908	18.7	38.7	46.9	55.0	21.3	37.9	51.9	47.0	39.7
S95-2151	17.9	36.0	44.6	54.1	19.3	39.3	54.2	35.7	37.7
OK89-6001	18.0	43.2	45.7	61.6	26.3	37.7	52.8	43.1	41.1
NTCPR94-5237	16.3	41.5	41.8	60.0	21.3	35.2	56.6	40.5	39.2
V91-3036	21.5	45.9	43.2	62.0	26.5	40.9	48.3	38.5	40.9
V92-0254	22.1	48.6	49.5	55.8	29.3	46.1	53.5	48.0	44.1
V92-0974	20.2	41.2	43.5	58.2	26.7	39.4	49.4	36.8	39.4
V93-3114	22.6	48.1	39.2	56.9	24.4	45.6	58.5	47.8	42.9
V92-697	19.4	44.0	42.5	63.0	19.6	40.6	53.4	39.8	40.3
TN93-99	22.1	50.0	43.1	55.2	29.0	47.1	57.0	47.1	43.8
TN94-213	19.3	46.9	44.6	46.1	28.9	33.9	57.3	36.9	39.2
TN95-268	18.6	47.2	35.8	41.4	30.6	29.8	42.0	31.3	34.6
N93-54	22.4	42.1	49.4	51.3	24.5	44.4	59.5	39.6	41.7
N94-546	20.7	50.1	44.0	57.0	22.9	44.1	52.1	42.4	41.7
N95-198	17.2	41.1	53.7	49.6	22.2	41.7	58.6	36.7	40.1
DT95-15550	17.5	46.2	44.5	60.3	25.2	51.0	53.0	41.4	42.4
DT95-17556	18.6	43.3	46.5	59.4	23.7	49.4	53.9	42.4	42.1
J94-7	16.7	37.3	53.4	49.4	22.4	37.6	48.0	39.1	38.0
L. S. D. (0.05)	3.7	7.6	13.9	11.4	6.8	5.4	8.3	10.8	.
C. V. (%)	13.8	10.2	19.3	12.6	14.5	7.9	9.4	16.2	.

TABLE 20 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	ROLLING FORK MS	STONEVILLE MS	MEAN
HUTCHESON	52.4	27.7	38.9	19.3	28.9	39.2	34.4
MANOKIN	55.8	29.0	41.3	22.4	27.7	41.3	36.2
R93-171	57.6	26.0	45.9	27.8	27.6	40.5	37.6
R94-929	54.6	39.0	39.6	31.2	30.1	42.6	39.5
K1391	56.9	29.8	35.4	27.3	22.9	38.2	35.1
K1393	56.3	26.8	44.6	21.9	22.9	29.3	33.6
K1364	57.0	29.3	40.8	32.2	22.2	38.7	36.7
KY94-2134	54.9	22.5	41.5	24.0	16.8	41.2	33.5
MD94-5341	61.0	20.8	45.3	26.6	18.3	38.2	35.0
MD93-5576	49.3	22.8	36.6	21.8	20.5	30.2	30.2
MD93-5634	52.7	29.3	45.9	32.1	26.2	41.6	38.0
S94-1956	57.2	23.2	43.7	25.6	27.2	41.6	36.4
S94-1955	56.6	28.2	45.2	24.7	18.7	39.0	35.4
S95-1908	59.2	33.2	38.4	30.8	29.9	37.2	38.1
S95-2151	46.4	29.9	41.0	30.7	26.3	38.0	35.4
OK89-6001	51.8	22.2	40.6	17.6	20.3	34.1	31.1
NTCPR94-5237	53.6	26.1	40.4	28.1	25.0	36.5	34.9
V91-3036	51.7	31.0	44.0	25.0	32.3	35.3	36.6
V92-0254	51.1	28.8	41.5	26.5	31.7	44.0	37.3
V92-0974	51.0	28.8	42.7	27.4	27.7	35.7	35.6
V93-3114	55.6	26.6	48.5	34.1	32.9	45.6	40.5
V92-697	52.3	27.0	40.9	25.8	28.8	29.9	34.1
TN93-99	56.9	27.1	43.1	26.3	29.9	41.3	37.4
TN94-213	52.4	20.3	36.4	16.3	17.2	28.4	28.5
TN95-268	43.9	16.5	38.6	17.9	7.5	17.2	23.6
N93-54	50.8	26.8	37.2	29.4	29.2	39.6	35.5
N94-546	58.6	19.7	43.1	26.5	29.8	47.4	37.5
N95-198	48.6	24.3	50.1	31.3	26.1	31.6	35.3
DT95-15550	55.7	33.3	39.7	33.1	29.7	38.2	38.3
DT95-17556	56.0	30.7	37.3	27.9	32.8	48.4	38.9
J94-7	54.7	31.8	44.7	23.9	22.7	37.9	35.9
L. S. D. (0.05)	4.8	8.1	6.9	6.3	6.5	6.6	.
C. V. (%)	4.3	18.1	10.2	14.6	15.4	10.7	.

TABLE 20 - Continued

WEST							
STRAIN/ VARIETY	BIXBY OK	BOSSIER CITY† LA	MCCUNE† KS	PITTSBURG† KS	STUTT GART AR	WALNUT† KS	MEAN
HUTCHESON	31.0	9.6	29.6	30.7	61.7	25.9	46.4
MANOKIN	24.4	11.0	25.1	21.8	46.4	26.2	35.4
R93-171	27.0	20.8	30.5	33.0	54.9	29.3	41.0
R94-929	29.6	20.5	33.6	28.0	67.8	30.7	48.7
K1391	21.3	17.0	21.0	26.4	46.7	20.9	34.0
K1393	31.3	11.2	29.5	37.5	53.2	28.4	42.2
K1364	33.9	20.8	28.6	27.7	48.9	28.9	41.4
KY94-2134	25.1	15.4	30.9	27.7	44.3	23.9	34.7
MD94-5341	22.4	25.3	20.2	20.0	30.0	20.8	26.2
MD93-5576	21.9	18.0	22.7	26.5	.	22.8	21.9
MD93-5634	21.5	14.5	29.8	25.6	64.3	22.4	42.9
S94-1956	26.0	29.6	29.9	32.5	57.4	27.8	41.7
S94-1955	32.0	28.6	30.8	27.1	49.3	24.9	40.6
S95-1908	37.7	26.4	39.1	46.3	62.7	32.7	50.2
S95-2151	33.0	19.9	29.6	44.7	60.8	32.4	46.9
OK89-6001	32.2	15.8	30.7	37.7	54.9	26.0	43.6
NTCPR94-5237	37.7	30.3	32.8	39.7	58.5	29.4	48.1
V91-3036	35.5	21.8	37.1	38.2	55.6	35.1	45.6
V92-0254	33.9	14.2	34.7	27.7	58.8	31.6	46.3
V92-0974	32.0	18.5	26.1	36.7	44.3	24.6	38.2
V93-3114	35.8	13.3	32.3	36.9	52.6	27.4	44.2
V92-697	33.1	10.1	33.2	34.4	34.9	31.0	34.0
TN93-99	33.5	9.5	25.7	33.9	61.0	26.4	47.3
TN94-213	31.3	17.1	28.0	30.2	48.5	27.1	39.9
TN95-268	17.4	17.8	24.6	31.1	38.2	28.2	27.8
N93-54	32.2	29.1	20.6	28.2	41.8	28.7	37.0
N94-546	35.5	28.4	31.9	40.1	63.3	29.3	49.4
N95-198	23.8	17.5	28.1	36.6	63.4	24.6	43.6
DT95-15550	31.1	26.8	23.1	35.7	60.1	22.9	45.6
DT95-17556	29.0	24.3	32.1	44.1	55.6	28.9	42.3
J94-7	29.6	20.3	28.8	30.4	51.9	27.7	40.7
L. S. D. (0.05)	6.5	11.2	4.3	4.7	10.2	3.6	.
C. V. (%)	13.4	35.3	9.1	8.8	7.9	8.0	.

†Not included in Mean.

TABLE 21 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1998

OIL PERCENTAGE

STRAIN/ VARIETY	BELLE		KNOX-		MCCUNE	ORANGE	PINE	PITTS-	PLY-	PORTAGE-	PORTAGE-	PRINCE-	QUEENS-	ROLLING	STONE-	SUFFOLK	ULLIN	WARSAW	MEAN
	MINA	BIXBY	VILLE	MARTIN															
HUTCHESON	19.7	.	19.9	20.5	.	23.0	21.5	.	20.8	20.2	.	21.2	21.7	20.8	21.4	22.4	19.6	21.1	21.0
MANOKIN	18.8	.	18.4	19.6	.	23.3	20.6	.	21.0	19.9	.	19.3	21.1	21.5	21.1	21.5	17.5	22.0	20.4
R93-171	19.3	.	19.8	19.6	.	22.3	20.3	.	20.6	19.3	.	19.0	20.8	20.6	20.3	20.7	18.5	20.3	20.1
R94-929	18.6	.	19.5	17.8	.	22.7	19.8	.	20.1	18.9	.	18.0	20.8	20.2	19.8	20.2	16.8	20.5	19.6
K1391	18.7	.	20.1	19.0	.	22.1	20.8	.	20.7	20.0	.	19.0	21.4	20.4	20.8	21.0	18.5	21.4	20.3
K1393	20.6	.	19.3	20.8	.	21.4	21.3	.	20.6	20.7	.	19.9	21.7	20.7	21.6	21.6	19.4	22.3	20.9
K1364	19.7	.	19.3	20.5	.	22.7	21.4	.	21.7	20.5	.	19.5	20.8	22.1	21.5	21.7	19.7	21.2	20.9
KY94-2134	19.9	.	20.0	19.8	.	21.7	19.8	.	20.7	19.8	.	20.4	20.5	21.0	21.1	20.6	19.5	20.9	20.4
MD94-5341	17.6	.	19.5	19.0	.	21.5	18.5	.	20.3	18.7	.	18.6	20.5	19.9	20.2	20.7	18.9	19.9	19.6
MD93-5576	18.8	.	21.7	19.4	.	21.6	20.5	.	20.8	19.0	.	18.6	20.2	20.3	20.0	21.4	18.6	22.4	20.2
MD93-5634	18.7	.	19.2	19.3	.	22.4	19.2	.	20.2	18.7	.	18.7	20.2	20.4	19.8	20.3	17.9	20.0	19.6
S94-1956	19.5	.	20.5	20.2	.	22.3	20.1	.	21.1	19.7	.	18.7	21.1	21.0	20.8	21.7	18.2	20.9	20.4
S94-1955	19.2	.	20.6	18.6	.	22.4	20.5	.	20.8	19.6	.	19.6	20.8	21.3	20.5	21.6	18.5	22.2	20.4
S95-1908	18.4	.	19.9	18.2	.	21.2	20.2	.	19.8	18.9	.	17.4	20.1	18.7	18.3	20.3	19.2	20.2	19.3
S95-2151	17.5	.	19.0	19.0	.	20.7	19.5	.	19.3	18.4	.	19.4	19.4	18.8	19.3	20.5	17.2	19.6	19.1
OK89-6001	18.9	.	19.4	19.3	.	21.6	18.7	.	20.4	20.0	.	19.2	20.5	19.3	20.2	20.4	19.2	20.0	19.8
NTCPR94-5237	19.1	.	19.4	20.4	.	22.2	20.8	.	20.6	20.4	.	18.9	20.3	20.6	20.7	20.9	19.5	20.8	20.3
V91-3036	17.3	.	19.3	18.9	.	22.0	20.5	.	20.4	18.7	.	21.1	20.0	20.0	20.6	20.1	18.3	20.5	19.8
V92-0254	19.5	.	19.9	20.3	.	23.6	21.8	.	21.2	20.5	.	18.7	21.9	21.0	22.3	20.5	19.2	22.3	20.9
V92-0974	17.1	.	17.7	17.3	.	21.7	20.0	.	20.4	19.0	.	20.3	20.3	19.2	19.8	22.2	18.2	20.4	19.5
V93-3114	19.2	.	20.5	22.0	.	23.6	21.8	.	21.0	20.1	.	18.2	21.6	21.5	22.2	22.4	19.7	22.1	21.1
V92-697	18.5	.	18.7	20.8	.	22.3	21.8	.	20.6	20.0	.	20.2	20.5	21.1	21.8	21.8	19.3	22.0	20.7
TN93-99	19.5	.	19.9	21.3	.	23.3	21.3	.	21.4	20.3	.	18.9	21.4	21.3	23.1	21.9	20.3	21.9	21.1
TN94-213	18.0	.	17.9	17.7	.	22.0	19.3	.	19.6	17.8	.	19.5	20.1	19.1	21.3	20.4	17.6	20.3	19.3
TN95-268	20.2	.	20.0	18.7	.	21.6	19.2	.	20.6	19.6	.	18.9	20.7	20.1	21.2	20.9	19.6	21.7	20.2
N93-54	17.1	.	19.0	19.8	.	21.6	20.0	.	20.4	18.3	.	18.1	20.5	20.4	21.5	21.7	18.2	20.6	19.8
N94-546	18.3	.	19.2	18.2	.	22.2	18.7	.	20.3	19.0	.	19.5	20.8	19.2	20.3	20.7	18.8	19.6	19.6
N95-198	17.9	.	18.6	20.5	.	21.8	19.0	.	19.7	19.2	.	19.0	19.9	20.7	20.0	20.4	18.9	20.1	19.7
DT95-15550	17.4	.	18.8	20.5	.	22.2	19.7	.	20.4	18.9	.	18.8	20.8	19.9	20.4	21.5	18.3	20.5	19.9
DT95-17556	17.9	.	20.0	20.5	.	22.6	20.5	.	20.4	19.1	.	17.9	20.7	20.0	20.6	21.3	18.9	21.0	20.1
J94-7	18.7	.	18.5	19.4	.	22.0	19.3	.	19.5	18.9	.	18.9	20.6	19.3	19.7	20.2	18.4	20.3	19.6

TABLE 21 - Continued

PROTEIN PERCENTAGE

STRAIN/ AARIETY	BELLE		KNOX-			PINE	PITTS-	PLY-	PORTAGE-	PORTAGE-	PRINCE-	QUEENS-	ROLLING	STONE-					
	MINA AL	BIXBY OK	VILLE TN	MARTIN TN	MCCUNE KS	ORANGE VA	TREE AR	BURG KS	MOUTH NC	VILLE MO(A)	VILLE MO(B)	TON KY	TOWN MD	FORK MS	VILLE MS	SUFFOLK VA	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	42.4	.	41.8	42.7	.	38.5	41.8	.	40.0	42.4	.	39.9	39.0	42.3	38.9	38.1	42.8	41.3	40.9
MANOKIN	44.0	.	41.9	43.2	.	35.7	42.9	.	39.1	42.5	.	42.7	38.1	42.6	40.3	39.4	44.2	39.6	41.2
R93-171	43.0	.	41.6	43.5	.	37.7	43.1	.	39.8	43.1	.	41.8	39.6	42.8	40.2	40.4	43.4	40.6	41.5
R94-929	43.2	.	40.0	43.0	.	35.8	43.3	.	40.2	42.5	.	42.6	38.1	42.6	39.7	39.5	44.3	40.4	41.1
K1391	42.5	.	40.1	43.1	.	38.5	42.0	.	39.1	42.3	.	42.1	38.3	42.6	38.6	40.4	42.4	39.8	40.8
K1393	43.8	.	43.7	43.1	.	40.4	43.8	.	41.0	43.7	.	43.3	40.1	44.6	41.4	42.0	44.0	40.9	42.6
K1364	43.9	.	44.7	43.3	.	37.8	43.5	.	39.7	43.3	.	42.9	40.1	42.1	41.0	41.2	43.8	40.4	42.0
K94-2134	41.4	.	41.2	42.7	.	38.1	43.3	.	39.1	41.9	.	40.5	39.8	42.0	38.6	40.1	41.8	41.3	40.8
M94-5341	44.7	.	42.6	44.7	.	39.6	46.4	.	40.7	44.5	.	44.6	40.0	43.8	41.0	41.2	44.0	42.3	42.9
M93-5576	42.8	.	37.7	43.0	.	38.7	43.3	.	38.2	42.8	.	42.5	41.6	42.3	40.5	39.0	42.3	38.4	40.9
M93-5634	44.4	.	43.9	45.0	.	38.2	45.9	.	42.1	45.8	.	44.5	41.7	43.5	42.1	43.6	45.6	42.1	43.5
S4-1956	43.4	.	40.8	44.1	.	37.5	43.7	.	38.7	42.6	.	41.9	38.4	41.7	39.6	40.3	42.9	40.5	41.2
S94-1955	42.9	.	40.8	44.6	.	37.4	43.8	.	37.5	42.9	.	41.7	39.0	41.0	38.9	39.5	42.9	38.7	40.8
S95-1908	45.0	.	42.4	44.6	.	37.8	43.1	.	41.9	44.4	.	45.8	39.2	45.1	42.6	42.1	43.2	40.6	42.7
S95-2151	45.3	.	42.2	44.0	.	39.1	44.3	.	41.4	43.7	.	44.6	40.6	43.9	41.0	42.1	43.9	42.2	42.7
OK89-6001	45.2	.	44.7	42.6	.	40.1	47.4	.	42.7	43.7	.	44.5	41.1	45.6	43.0	43.2	44.6	43.4	43.7
NTCPR94-5237	44.2	.	44.1	43.9	.	37.1	43.9	.	40.3	43.9	.	43.5	40.3	43.9	42.2	42.0	43.3	42.9	42.5
V91-3036	45.3	.	43.0	44.0	.	38.3	42.7	.	42.1	44.0	.	40.9	40.3	44.1	39.7	41.8	43.0	41.6	42.2
V92-0254	43.0	.	42.1	43.2	.	36.9	42.3	.	38.9	42.5	.	42.8	37.8	42.7	38.6	40.8	43.4	39.9	41.1
V92-0974	45.4	.	44.0	45.6	.	37.9	44.1	.	39.0	43.9	.	40.9	39.6	43.9	41.1	39.2	44.0	40.9	42.1
V93-3114	43.1	.	41.6	40.5	.	35.9	41.8	.	39.3	42.1	.	42.6	38.5	41.2	38.5	38.6	42.2	39.8	40.4
V92-697	44.1	.	42.9	42.1	.	36.0	41.4	.	39.6	42.2	.	42.6	39.2	41.2	38.2	39.4	42.3	38.8	40.7
TN93-99	43.1	.	42.2	42.2	.	36.9	42.2	.	39.8	42.9	.	42.6	39.1	42.2	37.7	39.3	42.4	40.9	41.0
TN94-213	44.1	.	43.7	44.8	.	37.9	44.8	.	40.0	44.8	.	42.1	40.0	44.6	39.7	39.7	45.2	41.2	42.3
TN95-268	42.8	.	43.7	45.5	.	39.5	45.6	.	41.0	44.4	.	44.3	40.5	45.2	41.4	40.9	44.6	40.7	42.9
N93-54	45.1	.	43.1	42.9	.	39.2	44.1	.	40.0	44.6	.	43.9	40.4	43.3	39.4	39.8	43.6	41.5	42.2
N94-546	44.2	.	43.0	44.1	.	37.7	45.4	.	40.8	43.4	.	42.4	39.7	44.0	39.9	41.0	43.6	42.2	42.2
N95-198	45.9	.	43.5	43.0	.	40.0	47.0	.	43.1	45.0	.	43.9	41.7	43.4	42.7	42.9	44.5	43.7	43.6
DT95-15550	45.3	.	41.1	42.0	.	36.7	43.5	.	39.5	42.8	.	42.0	38.5	42.2	39.2	39.5	42.3	39.8	41.0
DT95-17556	43.7	.	40.7	42.5	.	35.5	43.0	.	41.0	42.6	.	42.9	39.3	42.5	39.7	40.1	41.5	40.7	41.1
J94-7	42.6	.	41.1	41.3	.	35.0	43.5	.	39.1	41.6	.	40.2	37.6	42.8	38.3	39.6	40.9	38.7	40.2

TABLE 21 - Continued

GRAMS PER 100 SEED

STRAIN/ AARIETY	BELLE		KNOX-		MCCUNE†	ORANGE	PINE	PITTS-†	PLY-	PORTAGE-	PORTAGE-	PRINCE-	QUEENS-	ROLLING	STONE-	SUFFOLK	ULLIN	WARSAW		MEAN
	MINA	BIXBY	VILLE	MARTIN			TREE	BURG	MOUTH	VILLE	VILLE	TON	TOWN	FORK	VILLE			VA	IL	
	AL	OK	TN	TN	KS	VA	AR	KS	NC	MO(A)	MO(B)	KY	MD	MS	MS					
HUTCHESON	10.1	15.0	10.8	12.6	11.4	14.1	15.3	10.5	14.8	12.2	11.6	11.3	15.3	12.8	12.9	13.0	10.9	14.0	12.9	12.9
MANOKIN	9.3	13.9	9.9	11.0	9.8	12.4	11.8	8.1	13.4	9.9	10.9	10.3	13.9	10.5	11.0	11.3	8.8	13.2	11.3	11.3
R93-171	10.1	15.7	12.8	12.0	11.4	14.8	14.1	11.9	14.7	12.5	12.2	12.3	16.6	12.3	12.2	13.2	10.4	11.8	13.0	13.0
R94-929	8.3	13.3	9.8	9.4	9.5	11.4	12.0	10.1	11.7	10.8	9.3	11.0	12.7	10.1	9.8	10.3	8.5	12.2	10.7	10.7
K1391	10.0	14.4	11.5	10.8	10.5	13.6	15.1	10.5	13.6	10.5	11.2	10.3	14.4	9.7	11.8	12.0	9.3	13.2	12.0	12.0
K1393	10.5	16.8	11.5	12.8	11.9	14.2	15.2	10.1	15.0	12.4	10.9	11.7	16.4	11.4	12.3	14.1	10.6	13.0	13.0	13.0
K1364	10.3	16.1	11.7	11.5	10.8	14.2	14.1	11.4	14.9	12.4	13.2	11.6	15.9	12.3	13.2	13.4	10.9	13.5	13.1	13.1
KY94-2134	10.3	17.1	13.6	12.7	11.7	15.6	16.4	10.5	16.5	12.6	11.6	14.1	17.3	12.8	12.6	16.0	11.8	14.6	14.1	14.1
MD94-5341	11.1	16.0	13.6	13.8	10.8	14.8	16.9	11.7	16.9	12.2	12.2	12.4	16.0	11.2	13.1	9.7	10.6	13.7	13.4	13.4
MD93-5576	10.0	13.9	11.8	10.4	10.0	13.6	12.4	10.9	13.9	10.2	11.1	10.4	14.0	9.1	10.9	8.5	9.9	13.1	11.5	11.5
MD93-5634	10.8	16.6	11.5	15.0	11.3	14.3	15.3	10.0	16.1	13.0	13.2	11.9	15.9	12.8	12.6	15.1	11.1	12.7	13.6	13.6
S94-1956	10.6	14.9	11.6	11.8	11.1	13.4	13.9	11.1	13.6	11.5	10.8	10.1	14.3	11.0	10.6	13.6	9.4	13.6	12.2	12.2
S94-1955	9.4	14.0	12.5	12.7	12.1	13.5	14.6	11.5	13.8	10.9	10.7	11.9	14.4	9.9	9.5	9.5	9.5	11.8	11.8	11.8
S95-1908	9.9	15.3	12.6	14.6	13.8	15.4	13.4	14.2	14.1	11.8	12.1	11.1	14.5	10.7	10.8	13.3	11.1	12.3	12.7	12.7
S95-2151	10.3	17.7	11.1	13.0	12.9	16.5	15.6	12.3	16.0	12.6	12.5	11.9	16.9	12.4	12.0	10.7	10.6	13.7	13.3	13.3
OK89-6001	11.8	19.1	14.4	16.4	13.4	17.2	17.7	12.1	16.9	14.3	14.9	14.6	19.7	13.4	13.1	16.3	12.5	14.3	15.4	15.4
NTCPR94-5237	12.2	18.7	15.0	16.2	14.5	18.7	16.2	13.8	16.6	14.1	14.3	13.4	19.1	12.2	13.5	15.6	13.2	16.3	15.3	15.3
V91-3036	9.2	15.4	11.1	12.7	11.2	14.2	13.6	11.8	14.0	11.7	11.9	11.9	14.2	11.5	10.5	8.6	9.8	13.9	12.1	12.1
V92-0254	9.0	13.9	10.5	11.7	11.5	14.0	13.5	10.0	13.5	11.2	9.9	12.2	14.9	11.4	11.0	12.2	9.9	12.0	11.9	11.9
V92-0974	10.4	16.0	10.6	12.4	10.9	13.5	13.2	11.9	13.5	12.5	11.2	10.8	14.9	9.9	11.4	8.6	10.0	12.2	11.9	11.9
V93-3114	10.1	15.4	11.4	13.7	12.0	14.5	15.2	12.0	14.4	12.0	11.2	10.8	16.0	11.2	11.8	13.5	10.8	13.6	12.8	12.8
V92-697	9.4	15.5	10.5	14.1	11.6	14.1	12.1	11.4	14.3	11.2	11.5	9.5	14.5	10.5	10.1	9.0	9.7	12.8	11.8	11.8
TN93-99	10.2	15.1	11.5	13.5	11.9	13.6	14.7	10.8	14.7	11.9	11.6	11.4	15.5	11.8	13.0	13.4	11.0	13.3	12.9	12.9
TN94-213	10.0	13.3	10.7	10.8	10.0	12.4	14.0	10.1	12.9	11.0	11.4	11.7	13.1	9.9	11.4	11.7	9.6	13.9	11.7	11.7
TN95-268	10.9	13.0	13.6	13.6	11.2	14.4	13.7	10.9	14.1	12.8	12.0	11.7	14.4	11.4	12.3	12.5	12.6	12.8	12.9	12.9
N93-54	9.8	15.1	11.2	12.3	10.4	13.3	13.9	11.7	13.9	10.6	10.4	10.7	15.1	12.3	11.4	5.9	9.9	12.9	11.8	11.8
N94-546	10.5	16.7	12.9	12.2	11.2	14.4	16.1	12.1	14.4	11.6	12.6	12.8	15.2	11.8	11.5	13.6	11.7	14.7	13.3	13.3
N95-198	11.3	17.9	11.5	14.4	13.2	15.3	17.1	12.8	16.5	14.4	12.7	13.3	17.0	12.5	11.8	11.3	11.9	13.7	13.9	13.9
DT95-15550	10.4	18.8	13.6	17.2	13.3	17.4	16.8	14.7	16.5	12.7	14.1	14.5	18.1	13.0	13.2	16.2	12.2	14.2	14.9	14.9
DT95-17556	10.1	15.8	11.8	13.6	11.5	13.7	13.9	13.2	15.1	11.2	10.7	10.6	15.5	11.4	11.2	13.8	10.5	15.3	12.8	12.8
J94-7	9.5	14.0	11.5	12.2	10.9	11.7	13.9	11.1	14.2	11.6	10.8	10.6	12.1	11.0	11.0	9.8	9.6	13.6	11.7	11.7

†Not included in Mean

TABLE 22 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN HUTCHESON FOR VARIETY IN UNIFORM GROUP V, 1998

STRAIN/ VARIETY	EAST				
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
HUTCHESON	10/20	10/15	10/21	10/10	10/16
MANOKIN	-4	-8	-3	-9	-5
R93-171	1	0	0	0	1
R94-929	-1	-8	-2	-2	-3
K1391	-4	-8	-2	-4	-4
K1393	4	0	2	3	3
K1364	-2	0	-3	-2	-1
KY94-2134	0	0	1	-3	0
MD94-5341	-4	-8	-3	-7	-5
MD93-5576	-4	-8	-2	-8	-5
MD93-5634	-3	-8	-2	-8	-5
S94-1956	0	0	-1	-7	-2
S94-1955	2	0	-2	-8	-1
S95-1908	8	5	4	5	6
S95-2151	3	0	0	1	2
OK89-6001	3	5	1	3	3
NTCPR94-5237	3	5	4	8	5
V91-3036	1	0	0	1	1
V92-0254	0	-8	0	-3	-2
V92-0974	2	0	0	0	1
V93-3114	-2	0	1	4	1
V92-697	3	0	1	3	2
TN93-99	2	0	2	3	2
TN94-213	-4	0	-2	-4	-2
TN95-268	-14	-8	-3	-9	-8
N93-54	1	0	0	0	1
N94-546	0	0	0	2	1
N95-198	-1	0	1	-1	0
DT95-15550	4	0	-1	-1	1
DT95-17556	2	5	-1	1	2
J94-7	0	0	-3	1	0

TABLE 22 - Continued

SOUTH

STRAIN/ VARIETY	BELLE MINA AL	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	STARKVILLE MS	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	10/10	09/29	10/06	10/14	10/01		10/12	10/05	10/07
MANOKIN	-2	-8	1	-1	-1	.	-11	-9	-5
R93-171	-2	-3	5	5	0	.	-2	-3	-1
R94-929	-2	-4	-2	5	1	.	-6	-5	-2
K1391	0	-5	5	1	1	.	-4	-5	-2
K1393	-2	1	0	7	1	.	5	5	2
K1364	2	-1	1	3	-1	.	-2	0	0
KY94-2134	-2	-3	6	4	1	.	5	-5	0
MD94-5341	-2	-7	6	3	-1	.	-8	-10	-3
MD93-5576	0	-7	3	-1	-1	.	-8	4	-2
MD93-5634	-2	-8	3	0	-2	.	-9	-7	-4
S94-1956	-2	-3	6	3	-1	.	-4	-6	-1
S94-1955	-2	-2	5	3	3	.	-4	-5	-1
S95-1908	4	10	3	12	16	.	7	9	8
S95-2151	2	0	3	11	1	.	0	-2	2
OK89-6001	2	0	5	8	3	.	5	0	3
NTCPR94-5237	4	8	3	10	7	.	7	5	6
V91-3036	0	1	1	7	3	.	0	1	1
V92-0254	2	-2	5	4	1	.	-2	-2	0
V92-0974	0	1	6	8	3	.	0	-2	2
V93-3114	0	0	1	6	0	.	0	-2	0
V92-697	-2	3	4	9	3	.	5	4	3
TN93-99	0	0	2	6	1	.	2	0	1
TN94-213	-2	-2	2	5	0	.	0	-6	-1
TN95-268	-2	-7	3	-1	0	.	-8	-9	-4
N93-54	-2	-3	2	6	0	.	-2	-4	-1
N94-546	2	-3	2	6	0	.	0	-2	0
N95-198	-2	-3	9	7	0	.	-2	3	1
DT95-15550	-2	-1	3	4	1	.	0	-3	0
DT95-17556	4	2	2	6	2	.	0	3	2
J94-7	-2	-5	3	6	0	.	0	-5	-1

TABLE 22 - Continued

DELTA

STRAIN/ VARIETY	KEISER AR	PINE TREE AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	ROLLING FORK MS	STONEVILLE MS	MEAN
HUTCHESON	10/03	10/06	09/30	10/07		09/30	10/03
MANOKIN	-3	-5	-2	-6	.	-7	-4
R93-171	-1	-2	0	-2	.	0	-1
R94-929	0	0	0	-1	.	2	0
K1391	0	0	-1	-2	.	0	0
K1393	8	3	10	1	.	4	5
K1364	8	1	1	1	.	3	3
KY94-2134	8	-1	1	-1	.	2	2
MD94-5341	-2	-2	-4	-8	.	1	-3
MD93-5576	-2	-3	-2	-2	.	-7	-3
MD93-5634	0	-2	-2	-7	.	-1	-2
S94-1956	1	2	0	-1	.	2	1
S94-1955	1	3	-2	-2	.	2	1
S95-1908	10	8	14	6	.	8	9
S95-2151	2	2	2	0	.	2	2
OK89-6001	9	3	10	0	.	2	5
NTCPR94-5237	9	6	10	9	.	11	9
V91-3036	2	2	3	1	.	2	2
V92-0254	1	-2	0	-2	.	1	0
V92-0974	8	-1	4	1	.	2	3
V93-3114	3	-1	2	0	.	2	1
V92-697	8	0	10	1	.	3	4
TN93-99	7	0	1	0	.	2	2
TN94-213	0	-2	-2	-2	.	-1	-1
TN95-268	-3	-4	-7	-14	.	-8	-7
N93-54	1	0	-1	-1	.	2	0
N94-546	5	0	-1	0	.	2	1
N95-198	1	-1	4	-2	.	-1	0
DT95-15550	2	0	1	-1	.	0	1
DT95-17556	5	3	3	0	.	2	3
J94-7	2	2	1	-1	.	1	1

TABLE 22 - Continued

WEST							
STRAIN/ VARIETY	BIXBY OK	BOSSIER CITY† LA	MCCUNE KS	PITTSBURG KS	STUTT GART AR	WALNUT KS	MEAN
HUTCHESON	.	09/19	.	.	10/01	.	10/01
MANOKIN	.	0	.	.	0	.	0
R93-171	.	-2	.	.	0	.	0
R94-929	.	-2	.	.	0	.	0
K1391	.	-1	.	.	0	.	0
K1393	.	-2	.	.	0	.	0
K1364	.	0	.	.	0	.	0
KY94-2134	.	0	.	.	0	.	0
MD94-5341	.	0	.	.	0	.	0
MD93-5576	.	1
MD93-5634	.	3	.	.	2	.	2
S94-1956	.	0	.	.	2	.	2
S94-1955	.	0	.	.	1	.	1
S95-1908	.	6	.	.	0	.	0
S95-2151	.	1	.	.	1	.	1
OK89-6001	.	5	.	.	0	.	0
NTCPR94-5237	.	7	.	.	0	.	0
V91-3036	.	3	.	.	0	.	0
V92-0254	.	-1	.	.	0	.	0
V92-0974	.	-2	.	.	0	.	0
V93-3114	.	0	.	.	1	.	1
V92-697	.	-4	.	.	1	.	1
TN93-99	.	-2	.	.	0	.	0
TN94-213	.	0	.	.	0	.	0
TN95-268	.	0	.	.	1	.	1
N93-54	.	0	.	.	0	.	0
N94-546	.	1	.	.	2	.	2
N95-198	.	1	.	.	0	.	0
DT95-15550	.	0	.	.	0	.	0
DT95-17556	.	0	.	.	0	.	0
J94-7	.	-1	.	.	0	.	0

†Not included in Mean

TABLE 23 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1998

STRAIN/ VARIETY	EAST					MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA		
HUTCHESON	29	28	29	23	27	
MANOKIN	28	32	32	24	29	
R93-171	27	27	34	25	28	
R94-929	28	31	32	23	29	
K1391	25	32	32	24	28	
K1393	25	31	31	25	28	
K1364	25	27	26	21	25	
KY94-2134	28	29	28	23	27	
MD94-5341	23	29	30	21	26	
MD93-5576	24	29	32	23	27	
MD93-5634	28	37	32	22	30	
S94-1956	29	27	26	19	25	
S94-1955	24	24	26	19	23	
S95-1908	30	38	37	30	34	
S95-2151	31	39	43	32	36	
OK89-6001	31	31	34	28	31	
NTCPR94-5237	25	31	32	26	28	
V91-3036	29	35	32	26	31	
V92-0254	28	30	28	21	27	
V92-0974	29	30	30	23	28	
V93-3114	30	37	36	27	33	
V92-697	25	35	34	27	30	
TN93-99	26	32	28	24	28	
TN94-213	25	26	28	21	25	
TN95-268	23	21	20	16	20	
N93-54	27	32	33	26	29	
N94-546	27	33	32	26	29	
N95-198	33	45	41	26	36	
DT95-15550	33	37	36	27	33	
DT95-17556	24	36	35	27	31	
J94-7	27	35	34	27	31	

TABLE 23 - Continued

SOUTH

STRAIN/ VARIETY	BELLE MINA	KNOXVILLE	MARTIN	ORANGE	PRINCETON	SUFFOLK	ULLIN	MEAN
	AL	TN	TN	VA	KY	VA	IL	
HUTCHESON	23	32	31	32	42	33	24	31
MANOKIN	23	29	31	31	39	32	23	30
R93-171	26	31	34	36	38	35	24	32
R94-929	26	31	34	33	38	34	27	32
K1391	25	33	30	34	38	34	25	31
K1393	24	27	30	35	39	33	27	31
K1364	23	23	27	29	38	31	21	27
KY94-2134	22	25	26	34	37	29	20	28
MD94-5341	22	25	24	36	37	37	24	29
MD93-5576	24	30	26	30	40	36	31	31
MD93-5634	29	34	29	34	43	37	37	35
S94-1956	21	26	24	35	39	28	24	28
S94-1955	21	24	23	34	37	27	23	27
S95-1908	31	36	36	45	46	40	36	39
S95-2151	33	37	35	45	49	43	34	39
OK89-6001	25	33	32	42	44	37	30	35
NTCPR94-5237	26	31	35	40	42	39	27	34
V91-3036	27	35	34	36	38	37	25	33
V92-0254	24	28	32	31	40	33	29	31
V92-0974	24	28	37	34	42	30	27	32
V93-3114	27	32	36	39	46	41	29	36
V92-697	25	33	40	39	45	41	31	36
TN93-99	24	31	32	34	41	36	32	33
TN94-213	21	25	30	28	39	34	22	29
TN95-268	18	27	33	22	37	23	19	25
N93-54	22	26	34	39	41	34	21	31
N94-546	22	29	35	39	40	39	30	33
N95-198	34	40	46	44	49	45	37	42
DT95-15550	30	39	40	42	44	38	30	38
DT95-17556	26	33	39	40	46	42	33	37
J94-7	25	28	37	42	45	38	27	34

TABLE 23 - Continued

DELTA						
STRAIN/ VARIETY	KEISER AR	PORTAGEVILLE MO(A)	PORTAGEVILLE MO(B)	STONEVILLE MS	MEAN	
HUTCHESON	23	30	17	24	23	
MANOKIN	25	23	18	26	23	
R93-171	25	28	20	26	25	
R94-929	26	28	30	26	27	
K1391	24	24	23	24	24	
K1393	23	19	23	22	22	
K1364	22	19	17	22	20	
KY94-2134	22	19	21	22	21	
MD94-5341	21	23	18	24	22	
MD93-5576	26	27	20	26	25	
MD93-5634	42	39	26	34	35	
S94-1956	21	23	18	24	21	
S94-1955	19	19	18	22	19	
S95-1908	31	35	24	32	31	
S95-2151	34	35	30	32	33	
OK89-6001	25	26	18	26	24	
NTCPR94-5237	27	20	26	26	25	
V91-3036	26	28	18	26	24	
V92-0254	22	28	21	22	23	
V92-0974	25	21	23	22	23	
V93-3114	29	33	26	26	28	
V92-697	29	28	24	24	26	
TN93-99	24	31	21	22	24	
TN94-213	19	22	15	22	20	
TN95-268	19	19	17	18	18	
N93-54	25	26	22	20	23	
N94-546	25	28	21	24	25	
N95-198	46	50	36	40	43	
DT95-15550	34	36	29	36	34	
DT95-17556	25	29	25	26	26	
J94-7	27	30	26	28	28	

TABLE 23 - Continued

WEST

STRAIN/ VARIETY	BIXBY OK	BOSSIER CITY† LA	MCCUNE† KS	PITTSBURG† KS	STUTTART AR	WALNUT† KS	MEAN
HUTCHESON	20	13	32	40	16	36	18
MANOKIN	25	20	31	38	19	41	22
R93-171	26	17	37	36	15	39	21
R94-929	25	17	33	37	16	35	20
K1391	26	20	32	37	17	41	22
K1393	26	13	30	37	15	36	21
K1364	25	18	31	35	15	35	20
KY94-2134	22	16	27	35	16	35	19
MD94-5341	24	15	27	33	12	37	18
MD93-5576	27	20	34	36	.	41	27
MD93-5634	26	34	39	43	15	37	21
S94-1956	24	14	29	37	18	32	21
S94-1955	22	16	28	35	26	34	24
S95-1908	32	23	43	43	16	47	24
S95-2151	34	23	40	46	16	48	25
OK89-6001	34	20	36	41	15	41	25
NTCPR94-5237	30	25	33	40	22	39	26
V91-3036	27	17	34	38	16	38	22
V92-0254	21	14	33	37	21	36	21
V92-0974	23	19	35	41	15	39	19
V93-3114	28	21	41	43	18	42	23
V92-697	28	21	41	39	13	40	20
TN93-99	26	16	34	38	18	35	22
TN94-213	25	14	31	37	11	35	18
TN95-268	19	12	26	33	17	33	18
N93-54	28	22	37	39	13	40	21
N94-546	27	16	32	40	17	42	22
N95-198	35	43	44	49	14	45	25
DT95-15550	33	30	37	45	14	41	24
DT95-17556	32	20	40	41	23	46	28
J94-7	28	22	34	38	14	41	21

†Not included in Mean

**TABLE 24 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP V,
1998**

EAST

STRAIN/ VARIETY	GEORGETOWN	PLYMOUTH	QUEENSTOWN	WARSAW	MEAN
	DE	NC	MD	VA	
HUTCHESON	2	3	2	1	2
MANOKIN	5	3	3	1	3
R93-171	2	3	3	1	2
R94-929	2	3	2	1	2
K1391	2	3	2	1	2
K1393	2	3	2	1	2
K1364	1	3	1	1	2
KY94-2134	2	3	2	1	2
MD94-5341	2	3	2	1	2
MD93-5576	2	3	2	1	2
MD93-5634	3	3	2	1	2
S94-1956	1	3	2	1	2
S94-1955	1	3	2	1	2
S95-1908	2	3	3	1	2
S95-2151	2	3	3	1	2
OK89-6001	2	3	2	1	2
NTCPR94-5237	2	3	2	1	2
V91-3036	3	3	2	1	2
V92-0254	2	3	2	1	2
V92-0974	3	3	2	1	2
V93-3114	2	3	2	1	2
V92-697	1	3	2	1	2
TN93-99	1	3	2	1	2
TN94-213	1	3	2	1	2
TN95-268	2	3	1	1	2
N93-54	3	3	2	1	2
N94-546	2	3	3	1	2
N95-198	1	3	2	1	2
DT95-15550	3	3	2	1	2
DT95-17556	2	3	2	1	2
J94-7	3	3	2	1	2

TABLE 24 - Continued

SOUTH								
STRAIN/ VARIETY	BELLE MINA AL	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	SUFFOLK VA	ULLIN IL	MEAN
HUTCHESON	1	2	1	1	2	2	1	1
MANOKIN	1	2	2	1	5	2	1	2
R93-171	1	3	1	1	4	2	1	2
R94-929	1	2	1	1	4	2	1	2
K1391	1	2	1	2	5	3	1	2
K1393	1	2	1	1	4	2	1	2
K1364	1	2	1	1	1	1	1	1
KY94-2134	1	2	1	1	3	2	1	1
MD94-5341	1	2	1	1	5	2	1	2
MD93-5576	2	2	2	1	5	2	1	2
MD93-5634	1	2	1	1	1	2	1	1
S94-1956	1	2	1	1	2	1	1	1
S94-1955	1	2	1	1	3	1	1	1
S95-1908	1	2	1	3	5	2	2	2
S95-2151	1	2	1	2	3	2	1	2
OK89-6001	1	2	1	2	4	2	1	2
NTCPR94-5237	1	2	1	1	4	2	1	2
V91-3036	1	2	1	1	4	3	1	2
V92-0254	1	2	1	1	4	2	1	2
V92-0974	1	2	1	1	3	2	1	2
V93-3114	1	2	1	1	4	2	1	2
V92-697	1	2	1	1	4	3	1	2
TN93-99	1	2	1	1	4	2	1	2
TN94-213	1	2	1	1	3	2	1	1
TN95-268	1	2	1	1	1	2	1	1
N93-54	1	2	1	2	5	3	1	2
N94-546	1	2	1	3	5	3	1	2
N95-198	1	3	1	1	1	2	1	2
DT95-15550	1	3	1	1	4	2	1	2
DT95-17556	1	2	1	1	3	2	1	2
J94-7	1	2	2	2	5	2	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	1	1	1	2	1	
R93-171	1	1	1	2	1	
R94-929	1	1	1	2	1	
K1391	1	1	1	2	1	
K1393	1	2	2	2	2	
K1364	1	1	1	2	1	
KY94-2134	1	1	1	2	1	
MD94-5341	1	1	1	2	1	
MD93-5576	1	1	1	2	1	
MD93-5634	1	1	1	2	1	
S94-1956	1	1	1	2	1	
S94-1955	1	1	2	2	2	
S95-1908	1	2	1	2	2	
S95-2151	1	2	1	2	2	
OK89-6001	1	2	2	2	2	
NTCPR94-5237	1	1	1	2	1	
V91-3036	1	1	1	2	1	
V92-0254	1	2	1	2	2	
V92-0974	1	1	1	2	1	
V93-3114	1	1	1	2	1	
V92-697	1	2	2	2	2	
TN93-99	1	1	2	2	2	
TN94-213	1	1	1	2	1	
TN95-268	1	1	1	2	1	
N93-54	1	1	1	2	1	
N94-546	1	1	1	2	1	
N95-198	2	2	1	2	2	
DT95-15550	1	2	1	2	2	
DT95-17556	1	1	1	2	1	
J94-7	1	1	1	2	1	

TABLE 24 - Continued

STRAIN/ VARIETY	WEST					MEAN
	MCCUNE† KS	PITTSBURG† KS	STUTTGART AR	WALNUT KS		
HUTCHESON	1	3	1	2	1	
MANOKIN	3	4	1	3	1	
R93-171	2	3	1	3	1	
R94-929	2	3	1	2	1	
K1391	1	3	1	3	1	
K1393	1	2	1	2	1	
K1364	1	2	1	1	1	
KY94-2134	1	2	2	1	2	
MD94-5341	1	2	1	2	1	
MD93-5576	2	3	.	3	.	
MD93-5634	1	2	1	1	1	
S94-1956	1	3	1	1	1	
S94-1955	1	2	1	1	1	
S95-1908	2	3	1	3	1	
S95-2151	2	3	1	2	1	
OK89-6001	1	2	1	2	1	
NTCPR94-5237	2	3	2	2	2	
V91-3036	1	3	1	2	1	
V92-0254	1	2	1	1	1	
V92-0974	1	3	1	2	1	
V93-3114	2	3	1	2	1	
V92-697	3	3	1	3	1	
TN93-99	1	2	1	1	1	
TN94-213	1	2	1	1	1	
TN95-268	1	3	1	2	1	
N93-54	3	4	1	3	1	
N94-546	2	3	1	3	1	
N95-198	1	2	1	1	1	
DT95-15550	3	3	1	3	1	
DT95-17556	2	3	1	2	1	
J94-7	2	3	2	2	2	

†Not included in Mean

TABLE 25 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP V, 1998

STRAIN/ VARIETY	EAST					MEAN
	GEORGETOWN DE	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA		
HUTCHESON	1	2	1	2	2	
MANOKIN	1	2	2	3	2	
R93-171	1	2	2	3	2	
R94-929	1	2	1	2	2	
K1391	1	2	2	4	2	
K1393	1	2	1	3	2	
K1364	1	2	1	2	2	
KY94-2134	1	2	1	3	2	
MD94-5341	1	2	2	2	2	
MD93-5576	1	2	2	2	2	
MD93-5634	1	2	2	2	2	
S94-1956	1	2	2	2	2	
S94-1955	1	2	2	2	2	
S95-1908	1	2	1	2	2	
S95-2151	1	2	1	3	2	
OK89-6001	1	2	1	2	2	
NTCPR94-5237	1	2	2	3	2	
V91-3036	1	2	1	2	2	
V92-0254	1	2	1	2	2	
V92-0974	1	2	1	2	2	
V93-3114	1	2	1	2	2	
V92-697	1	2	1	3	2	
TN93-99	1	2	1	2	2	
TN94-213	1	2	1	2	2	
TN95-268	1	2	1	2	2	
N93-54	1	2	2	4	2	
N94-546	1	2	1	3	2	
N95-198	1	3	1	3	2	
DT95-15550	1	2	2	2	2	
DT95-17556	1	2	1	3	2	
J94-7	1	2	2	2	2	

TABLE 25 - Continued

SOUTH									
STRAIN/ VARIETY	BELLE MINA AL	KNOXVILLE TN	MARTIN TN	ORANGE VA	PRINCETON KY	SUFFOLK VA	ULLIN IL	MEAN	
HUTCHESON	1	1	1	1	1	1	2	1	
MANOKIN	1	2	2	2	2	1	2	2	
R93-171	1	1	2	1	1	1	2	1	
R94-929	1	1	3	1	1	1	1	1	
K1391	1	2	3	2	1	1	2	2	
K1393	1	1	2	2	2	1	2	2	
K1364	1	1	2	2	2	1	1	1	
KY94-2134	1	1	2	1	2	1	2	1	
MD94-5341	1	2	2	1	2	2	3	2	
MD93-5576	1	2	3	2	2	2	2	2	
MD93-5634	1	2	2	1	3	1	2	2	
S94-1956	1	2	2	2	2	1	3	2	
S94-1955	1	2	2	2	2	2	2	2	
S95-1908	1	2	3	2	4	1	2	2	
S95-2151	1	3	2	3	3	1	2	2	
OK89-6001	1	1	2	2	1	1	2	1	
NTCPR94-5237	1	2	2	2	2	1	2	2	
V91-3036	1	1	2	2	2	1	2	2	
V92-0254	1	1	1	2	1	1	1	1	
V92-0974	1	2	2	2	2	1	2	2	
V93-3114	1	1	1	1	1	1	1	1	
V92-697	1	2	2	1	3	1	2	2	
TN93-99	1	1	2	2	1	1	2	1	
TN94-213	1	1	2	1	1	1	2	1	
TN95-268	1	2	2	1	2	1	3	2	
N93-54	1	1	2	2	2	1	2	1	
N94-546	1	2	3	2	2	1	2	2	
N95-198	1	2	2	1	2	1	3	2	
DT95-15550	1	2	2	1	2	1	2	2	
DT95-17556	1	2	2	2	2	1	1	2	
J94-7	1	2	3	2	1	2	2	2	

TABLE 25 - Continued

STRAIN/ VARIETY	DELTA				MEAN
	PINE TREE AR	PORTAGEVILLE MO (A)	PORTAGEVILLE MO (B)		
HUTCHESON	2	2	2		2
MANOKIN	3	2	2		2
R93-171	4	2	2		3
R94-929	2	2	2		2
K1391	3	2	2		2
K1393	3	2	2		2
K1364	3	2	2		2
KY94-2134	3	2	2		2
MD94-5341	5	2	2		3
MD93-5576	3	2	2		2
MD93-5634	3	2	2		2
S94-1956	3	3	2		3
S94-1955	3	2	2		2
S95-1908	2	3	2		2
S95-2151	5	3	2		3
OK89-6001	2	2	2		2
NTCPR94-5237	3	2	2		2
V91-3036	2	2	2		2
V92-0254	2	2	2		2
V92-0974	3	2	2		2
V93-3114	4	2	2		3
V92-697	5	2	2		3
TN93-99	2	2	2		2
TN94-213	3	2	3		3
TN95-268	5	2	2		3
N93-54	2	2	2		2
N94-546	3	2	2		2
N95-198	4	3	2		3
DT95-15550	5	3	2		3
DT95-17556	3	2	2		2
J94-7	3	2	2		2

PRELIMINARY GROUP V

1998

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, 1998

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	F5
2. MANOKIN	L70-L3048 X D74-7824	F5
3. R95-926	PI0 9592 X SC84-1531	
4. R95-2565	ASG A5403 X NK COKER 6955	
5. R95-798	DP 415 X PI0 9641	
6. R95-2210	MANOKIN X ASG A6297	
7. R95-2538	NAROW-M X HARTWIG	
8. K1424	HUTCHESON X ASGROW A4715	F5
9. K1425	HARTWIG X KS4895	F5
10. K1426	HARTWIG X R89-332	F5
11. K1427	HUTCHESON X HARTWIG	F5
12. K1428	HUTCHESON X HS89-3261	F5
13. MD95-5260	S88-1855 X MANOKIN	F5
14. MD95-5264	S88-1855 X MANOKIN	F5
15. MD95-5167	MD88-5360 X WICOMICO	F5
16. DT95-15091	A5979 X DPL 3589	F5
17. DT95-15258	A5979 X DPL 3589	F5
18. DT96-6840	HUTCHESON X P9641	F6
19. DT96-15556	H5350 X DPL 3589	F5
20. LS95-3794	A5403 X LS87-1922	F6
21. LS94-3545	PHARAOH X HARTWIG	F6
22. S94-1739	C485 X S91-1532	
23. S96-3284	A5979 X S91-1693	
24. S96-2708	MANOKIN X S91-1839	
25. S96-2692	MANOKIN X S91-1839	
26. S96-2571	S91-1878 X DELSOY 4900	

TABLE 26B - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VB, 1998

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. HUTCHESON	V68-1034 X ESSEX	F5
2. MANOKIN	L70-L3048 X D74-7824	F5
3. N96-7157	HOLLADAY X N91-8006	F4
4. N93-1264	BRIM X PI 416937	F5
5. N96-6430	EBH91-6 X N89-1284	F4
6. N96-6743	TCPR92-64 X TCPR92-5	F4
7. N96-7211	HOLLADAY X N91-8006	F4
8. V94-1263	V85-5344 X C1747	
9. V94-1401	V85-5344 X CORSICA	
10. V94-0679	HUTCHESON X P9591	
11. V94-1382	V85-5344 X CORSICA	
12. V94-1741	V86-610 X COLQUITT	
13. TN96-58	HUTCHESON X TN89-39	
14. TN96-64	N85-578 X MANOKIN	
15. TN96-68	N85-578 X MANOKIN	
16. N96-19	N87-539 X D87-4434	F6
17. N96-70	N87-298 X NRS5Y	F6
18. N96-180	N87-298 X COOK	F6
19. N96-649	CLIFFORD X NRS5Y	F6
20. N96-374	BRIM X SHARKEY	F6
21. KY95-0350	BURLESON X CLIFFORD	
22. KY95-0146	BURLESON X HUTCHESON	
23. KY95-0540	HUTCHESON X SPRY	
24. KY95-1737	KY85-11020 X SPRY	
25. KY95-0645	HOLLIDAY X ELGIN	
26. OK91-6005	ESSEX X OKSOY	
27. OK92-6520	MILES X LEE 74	

TABLE 27A - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1998 - MEAN OF 9 LOCATIONS

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT---	STEM CANKER	SCN 2	SCN 3	SCN 14	M. i. TN	M. a. TN
HUTCHESON	40.8	10/06	2	25	2	13.7	41.0 21.1	R	4.7	3.7	4.7	3.4	4.0
MANOKIN	40.3	6-	2	27	2	12.1	41.5 20.4-	R	4.0	1.0	4.9	1.8	1.2
R95-926	42.4	5+	2	33	2	14.1	41.8 19.5-	R	5.0	3.5	4.0	4.5	2.3
R95-2565	41.6	2+	2	30	2	13.7	42.1+ 19.8-	R	4.6	1.5	2.6	3.7	4.0
R95-798	44.0	6+	2	28	2	14.5	42.9+ 19.7-	S	4.9	4.3	4.8	3.3	3.7
R95-2210	41.5	3+	2	30	2	12.0	41.5 20.1-	R	4.4	1.0	3.0	4.7	2.7
R95-2538	36.6-	1-	2	24	2	11.2	41.5 19.5-	S	1.4	1.4	2.3	4.4	2.0
K1424	43.0	5+	1	26	2	13.9	41.6 21.1	R	4.6	1.0	3.0	3.8	4.0
K1425	43.7	3+	2	27	2	12.1	39.4- 20.0-	S	1.3	1.0	1.3	3.2	1.5
K1426	33.6-	4-	2	28	2	11.1	41.0 19.3-	S	1.1	1.0	1.3	1.6	1.0
K1427	39.0	4-	2	26	2	13.0	41.7 20.4-	R	4.0	1.0	1.8	4.4	4.0
K1428	41.3	4+	2	36	2	14.1	41.5 21.0	R	4.3	2.3	2.7	4.5	3.4
MD95-5260	42.6	5-	2	28	2	12.6	41.6 20.2-	R	4.9	2.4	4.0	4.5	1.5
MD95-5264	40.1	6-	2	27	2	13.2	41.3 20.1-	R	4.7	4.4	4.2	4.0	1.5
MD95-5167	35.8-	6-	2	25	2	12.5	43.5+ 18.8-	S	4.7	1.4	5.0	4.2	3.4
DT95-15091	42.0	0	2	38	2	13.5	42.5+ 19.7-	R	3.5	1.2	4.8	4.3	3.2
DT95-15258	43.1	3+	2	35	2	15.5	42.3+ 19.7-	R	4.9	1.3	3.1	3.7	2.4
DT96-6840	46.0+	4+	2	30	2	14.0	42.0+ 20.3-	R	5.0	2.1	5.0	4.2	3.6
DT96-15556	42.0	3+	2	33	2	13.4	41.3 19.6-	R	4.2	1.1	3.5	4.6	3.0
LS95-3794	38.0	5-	1	28	2	13.1	41.3 20.3-	R	4.7	4.4	3.5	5.0	2.3
LS94-3545	36.0-	5-	2	28	2	12.3	41.5 20.6	S	1.4	1.3	1.0	1.8	1.4
S94-1739	37.5	1+	2	34	2	12.7	42.3+ 19.4-	S	1.0	1.0	1.0	1.2	3.0
S96-3284	41.1	4+	2	34	3	14.4	41.7 19.7-	S	1.3	1.1	1.0	4.2	2.2
S96-2708	40.1	0	2	30	2	12.4	42.7+ 19.4-	S	1.6	1.3	3.0	2.0	1.7
S96-2692	42.0	0	2	28	2	12.7	41.7 19.7-	S	2.1	1.0	1.0	1.2	1.8
S96-2571	40.1	1-	2	34	2	12.5	40.3 20.7	S	1.0	2.0	1.0	1.8	1.5
OVERALL MEAN	40.5						41.7 20.0						
L. S. D. (.05)	4.0						1.0 0.7						
C. V.	11%						2% 3%						

TABLE 27B - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1998 - MEAN OF 9 LOCATIONS

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT---	STEM CANKER	SCN 2	SCN 3	SCN 14	M. i. TN	M. a. TN
HUTCHESON	38.7	10/07	2	25	2	13.5	41.1 20.8	R	4.1	4.7	3.3	4.0	3.7
MANOKIN	40.7	6-	2	28	2	11.8	41.4 20.0-	R	3.3	1.0	4.0	2.3	1.2
N96-7157	39.1	6+	2	28	2	13.2	40.6 19.6-	S	4.3	4.6	4.0	3.6	3.8
N93-1264	34.5	6+	2	36	2	11.1	44.3+ 18.4-	R	4.8	4.1	3.7	4.0	3.2
N96-6430	31.5-	1-	2	20	2	7.5	41.4 18.7-	R	4.4	3.0	4.4	4.6	1.0
N96-6743	35.8	1-	2	25	2	14.6	42.5+ 19.2-	S	5.0	3.9	4.3	5.0	2.8
N96-7211	39.2	2+	2	29	2	12.7	41.8 19.4-	S	4.7	4.5	4.0	4.2	2.5
V94-1263	36.2	5-	2	24	2	12.8	41.5 20.8	S	4.6	4.6	4.4	4.3	2.2
V94-1401	39.7	3-	2	26	2	12.9	42.9+ 19.5-	R	5.0	4.8	4.3	4.0	4.0
V94-0679	38.6	4-	2	24	2	13.4	41.9 20.1-	R	4.6	4.5	3.8	4.3	3.8
V94-1382	40.2	2-	1	23	2	12.9	43.5+ 19.0-	R	5.0	4.1	4.6	3.7	3.7
V94-1741	40.2	1+	2	28	2	11.6	39.9- 20.7	S	4.6	4.0	4.6	4.3	3.8
TN96-58	43.3+	2+	2	29	2	12.6	42.4+ 19.6-	R	5.0	4.0	4.7	2.3	2.8
TN96-64	42.1	0	1	24	2	13.9	39.3- 20.4	R	5.0	3.9	4.3	4.5	3.8
TN96-68	42.0	5-	2	25	2	13.2	40.5 21.4	R	4.9	4.1	4.5	4.2	1.7
N96-19	40.2	1-	2	30	2	13.3	43.7+ 19.3-	R	4.4	1.1	4.6	3.8	3.0
N96-70	40.6	3-	2	27	2	12.4	42.3+ 20.1-	S	5.0	4.1	3.8	4.0	3.6
N96-180	43.5+	4+	2	32	2	15.3	42.3+ 20.4	S	4.8	4.0	4.8	2.0	2.3
N96-649	41.4	0	2	29	2	13.3	41.9 20.1-	S	5.0	4.1	3.8	1.3	2.8
N96-374	39.2	10+	2	36	2	14.1	43.0+ 20.0-	S	5.0	4.6	4.5	3.8	3.8
KY95-0350	39.3	8-	1	22	2	12.0	42.1+ 20.5	R	5.0	4.8	4.1	4.5	3.5
KY95-0146	39.6	2-	2	26	2	16.0	43.0+ 19.7-	R	5.0	4.7	5.0	4.0	3.2
KY95-0540	34.5	5-	2	36	2	14.0	40.3 20.6	R	5.0	4.7	4.3	2.2	1.7
KY95-1737	38.0	6-	2	31	2	14.4	42.0 20.7	R	4.7	4.1	4.5	3.8	4.0
KY95-0645	41.6	3+	2	27	2	13.8	38.2- 21.7+	R	4.8	3.8	5.0	4.3	3.8
OK91-6005	34.0-	3-	2	25	2	12.2	40.6 19.8-	R	4.6	3.7	4.4	4.2	4.0
OK92-6520	37.3	1+	2	29	2	13.0	41.9 20.0-	S	3.3	1.0	3.5	2.8	1.4
OVERALL MEAN	38.9						41.7 20.0						
L. S. D. (.05)	4.5						0.9 0.6						
C. V.	12%						2% 3%						

TABLE 28A - SEED YIELD IN BUSHELS PER ACRE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1998

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PITTSBURG† KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	26.1	47.5	53.2	28.8	50.2	37.3	44.3	40.7	46.3	21.9	40.8
MANOKIN	16.4-	68.2+	55.4	17.9-	53.9	36.2	40.4	35.5	36.0-	21.3	40.3
R95-926	27.1	66.2+	54.7	53.4+	43.9-	45.2+	35.7	37.7	48.2	22.9	42.4
R95-2565	30.5	60.2+	48.2	43.8+	47.4	45.2+	50.3	33.3	40.4	19.2	41.6
R95-798	22.3	73.2+	53.4	40.2+	51.8	46.9+	42.4	35.4	48.3	22.4	44.0
R95-2210	30.4	46.5	53.0	46.1+	50.9	44.2	44.5	39.3	43.8	21.3	41.5
R95-2538	22.6	49.1	47.0	41.0+	47.4	41.9	43.4	33.6	26.3-	18.5	36.6-
K1424	25.7	56.6	49.2	37.1+	55.6	47.0+	50.1	36.7	44.1	21.9	43.0
K1425	26.6	66.1+	56.6	41.0+	50.0	43.9	47.9	37.0	45.8	19.9	43.7
K1426	17.2-	53.4	44.5-	17.9-	39.4-	37.8	42.9	32.4	21.2-	13.8-	33.6-
K1427	19.3-	57.8	52.9	24.4	48.6	36.2	46.2	29.7-	40.3	20.1	39.0
K1428	20.3-	61.0+	52.2	31.8	47.0	42.0	48.9	32.1	47.6	20.3	41.3
MD95-5260	17.3-	62.3+	51.9	23.7	51.2	46.0+	50.7	37.0	44.0	22.7	42.6
MD95-5264	14.0-	68.8+	52.0	24.1	43.6-	35.6	44.6	35.0	45.6	21.9	40.1
MD95-5167	11.2-	56.2	49.7	15.2-	42.4-	38.0	42.6	29.5-	31.5-	20.9	35.8-
DT95-15091	22.9	61.0+	50.6	37.8+	48.7	39.3	52.3	41.4	40.2	21.8	42.0
DT95-15258	28.5	60.7+	52.3	37.8+	51.8	38.1	47.8	43.7	43.9	21.4	43.1
DT96-6840	29.0	64.0+	59.0	36.0	44.6	46.8+	56.9+	44.5	45.5	23.7	46.0+
DT96-15556	32.1+	45.8	54.3	44.1+	48.4	44.9+	46.8	38.2	45.5	22.3	42.0
LS95-3794	15.6-	64.0+	50.5	24.4	42.4-	38.7	40.4	26.8-	42.0	21.6	38.0
LS94-3545	13.8-	55.6	48.7	31.0	45.0	40.1	39.6	30.7-	32.4-	18.1-	36.0-
S94-1739	20.9-	62.2+	47.7	35.9	41.5-	37.5	40.6	31.0-	38.0	17.9-	37.5
S96-3284	26.3	56.8	53.6	44.4+	44.7	42.3	44.9	36.0	42.7	22.5	41.1
S96-2708	28.7	52.2	52.1	45.6+	53.1	36.1	42.6	32.5	41.3	22.5	40.1
S96-2692	28.0	60.4+	54.9	39.9+	51.4	42.3	47.6	28.7-	42.3	22.7	42.0
S96-2571	24.3	62.6+	43.8-	37.6+	46.2	45.7+	45.4	32.3	37.4	23.0	40.1
L. S. D. (0.05)	5.0	12.5	6.5	7.8	6.0	7.5	11.6	8.8	9.0	3.6	4.0
C. V. (%)	13.3	10.2	6.1	10.9	6.1	8.8	12.4	11.3	10.7	8.3	10.6

†Not included in Mean

TABLE 28B - SEED YIELD IN BUSHEL PER ACRE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1998

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PITTSBURG† KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	27.8	50.1	48.6	39.9	42.8	36.9	40.9	40.0	43.2	17.7	38.7
MANOKIN	21.4-	52.4	53.8+	28.8-	52.0+	41.1	53.1	35.7	39.6	17.4	40.7
N96-7157	35.2+	50.7	50.8	44.8	41.6	36.0	41.7	34.4-	38.7	23.0+	39.1
N93-1264	29.7	56.2	46.1	42.9	36.2	35.5	27.2-	32.7-	28.6-	18.3	34.5
N96-6430	20.9-	33.0-	43.6-	33.0	39.7	31.9	34.7	31.2-	31.1-	17.1	31.5-
N96-6743	16.9-	38.8-	53.1	27.1-	45.8	39.2	42.8	39.5	28.3-	17.7	35.8
N96-7211	23.8	53.4	59.1+	46.3	38.5	32.8	39.3	43.8	41.4	20.8+	39.2
V94-1263	8.8-	55.0	50.2	18.6-	45.3	38.0	37.2	35.8	34.3	21.6+	36.2
V94-1401	20.2-	56.8	54.6+	34.5	46.4	37.9	42.5	38.7	40.4	20.1	39.7
V94-0679	24.3	50.1	52.7	21.1-	46.8	32.1	38.6	40.2	41.5	20.9+	38.6
V94-1382	21.1-	55.7	52.1	28.1-	44.6	40.5	48.6	37.9	42.8	18.8	40.2
V94-1741	32.7	56.2	49.4	39.2	41.2	34.5	50.6	43.4	31.4-	22.2+	40.2
TN96-58	25.5	58.4	62.8+	48.9+	50.8+	39.5	48.6	36.1	43.1	24.6+	43.3+
TN96-64	22.5	66.3+	59.4+	34.9	44.1	37.1	41.2	39.2	48.8	20.4	42.1
TN96-68	26.0	57.8	57.4+	32.8	43.6	47.4+	40.9	41.8	40.9	22.0+	42.0
N96-19	23.5	58.1	53.2+	44.0	43.3	41.0	45.8	35.7	40.3	20.7+	40.2
N96-70	27.2	55.4	55.8+	41.1	47.5	39.4	37.5	40.1	40.4	22.4+	40.6
N96-180	32.3	62.6+	57.3+	43.8	39.7	38.3	42.1	45.1+	48.6	25.2+	43.5+
N96-649	34.8+	59.6	51.3	40.6	46.4	38.8	37.6	37.8	44.6	21.6+	41.4
N96-374	32.9	50.0	49.9	48.9+	43.8	45.3+	32.1	33.1-	46.4	19.6	39.2
KY95-0350	8.0-	59.4	58.3+	21.0-	48.8	38.4	50.0	37.4	37.1	16.6	39.3
KY95-0146	30.1	54.8	50.0	40.2	42.4	34.5	50.1	38.0	33.2-	23.8+	39.6
KY95-0540	13.4-	49.2	44.6	38.2	41.0	39.0	30.6	36.8	38.7	17.7	34.5
KY95-1737	13.2-	45.3	56.5+	29.4-	40.6	40.2	44.4	34.1-	47.9	20.1	38.0
KY95-0645	18.0-	68.2+	57.7+	31.2-	44.4	39.1	35.7	41.2	47.0	23.3+	41.6
OK91-6005	15.8-	50.3	49.5	25.2-	39.7	33.3	33.6	29.4-	36.4	18.2	34.0-
OK92-6520	31.3	45.8	49.6	49.8+	45.4	33.0	39.2	33.9-	37.8	19.8	37.3
L. S. D. (0.05)	5.5	10.0	4.5	7.3	6.6	7.5	13.2	4.3	9.4	2.8	4.5
C. V. (%)	14.2	9.0	4.2	9.9	7.3	9.5	15.6	5.6	11.5	6.6	12.4

†Not included in Mean

TABLE 29A - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1998

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	20.6	20.6	20.3	21.5	22.1	20.8	21.6	21.1
MANOKIN	20.1	21.0	19.3	21.4	21.2	19.2	20.9	20.4
R95-926	19.6	20.4	18.7	20.4	18.7	18.2	20.6	19.5
R95-2565	19.4	19.0	19.3	20.0	20.3	20.5	20.2	19.8
R95-798	20.1	18.7	19.4	20.3	19.4	19.6	20.3	19.7
R95-2210	19.2	20.7	18.9	20.2	21.0	19.3	21.3	20.1
R95-2538	18.8	19.4	18.5	20.2	19.2	19.6	21.0	19.5
K1424	20.1	20.8	20.5	21.4	22.5	20.7	21.8	21.1
K1425	19.6	19.5	18.9	20.5	20.0	20.0	21.6	20.0
K1426	18.8	19.7	18.2	20.6	19.1	18.3	20.7	19.3
K1427	20.4	20.2	19.0	21.5	19.7	20.7	21.6	20.4
K1428	20.7	21.2	20.9	21.0	21.7	20.2	21.1	21.0
MD95-5260	20.0	19.6	19.8	20.3	21.0	19.5	21.4	20.2
MD95-5264	19.7	20.2	19.0	20.1	20.7	20.6	20.3	20.1
MD95-5167	20.0	20.4	17.8	19.8	16.5	18.6	18.8	18.8
DT95-15091	19.8	20.2	19.1	20.2	20.5	18.3	20.1	19.7
DT95-15258	19.9	20.1	19.8	20.0	19.9	17.9	20.6	19.7
DT96-6840	20.3	20.2	20.3	20.3	20.7	19.4	20.9	20.3
DT96-15556	19.7	20.2	18.7	20.2	19.4	17.6	21.1	19.6
LS95-3794	20.4	21.4	19.7	21.2	19.4	19.7	20.3	20.3
LS94-3545	20.2	20.8	19.5	21.4	20.9	20.0	21.2	20.6
S94-1739	19.3	18.7	18.8	20.3	20.4	18.1	20.4	19.4
S96-3284	19.5	19.7	19.0	19.7	20.4	18.4	21.2	19.7
S96-2708	18.0	19.7	18.7	19.8	20.2	18.6	21.1	19.4
S96-2692	19.5	19.3	18.4	19.7	21.1	18.7	21.0	19.7
S96-2571	20.6	20.8	20.6	20.8	20.4	20.4	21.5	20.7

TABLE 29B - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1998

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	20.8	21.3	19.9	21.3	21.7	19.8	20.7	20.8
MANOKIN	20.1	20.2	19.2	20.7	20.5	18.0	21.4	20.0
N96-7157	20.0	20.1	18.9	20.1	18.9	19.4	20.0	19.6
N93-1264	19.1	17.7	18.3	19.4	18.5	17.8	17.9	18.4
N96-6430	19.5	18.8	17.3	18.9	18.6	17.8	19.7	18.7
N96-6743	19.6	19.5	17.6	20.0	19.2	18.4	19.8	19.2
N96-7211	20.1	20.0	18.4	20.3	19.9	17.8	19.0	19.4
V94-1263	20.8	21.8	19.8	22.3	20.2	19.0	21.9	20.8
V94-1401	19.0	19.7	18.9	20.6	19.7	18.7	19.7	19.5
V94-0679	20.3	20.5	18.8	21.3	19.4	19.3	21.3	20.1
V94-1382	18.8	19.0	18.2	20.0	18.5	18.3	20.0	19.0
V94-1741	19.9	21.2	20.0	20.8	21.7	20.0	21.4	20.7
TN96-58	19.8	19.6	18.9	19.5	19.6	19.0	20.9	19.6
TN96-64	20.8	20.2	20.3	21.1	20.8	19.2	20.5	20.4
TN96-68	21.3	21.5	20.8	21.4	22.8	20.2	21.6	21.4
N96-19	19.8	20.7	17.3	20.2	20.0	17.8	19.3	19.3
N96-70	20.4	20.5	19.4	20.8	20.6	19.0	19.9	20.1
N96-180	20.3	20.9	19.8	21.0	21.1	20.0	19.8	20.4
N96-649	20.0	20.5	19.1	21.2	20.4	19.5	20.1	20.1
N96-374	20.6	20.0	20.0	20.1	19.0	20.3	19.7	20.0
KY95-0350	20.3	20.9	19.2	20.9	20.2	20.0	21.9	20.5
KY95-0146	19.1	20.0	18.2	20.2	20.3	18.7	21.2	19.7
KY95-0540	20.5	20.9	20.3	20.9	20.9	19.9	20.9	20.6
KY95-1737	20.8	20.5	20.3	20.4	20.8	20.8	21.6	20.7
KY95-0645	21.4	20.9	21.4	21.3	22.9	21.7	22.3	21.7
OK91-6005	20.0	20.1	19.4	20.3	20.9	17.3	20.4	19.8
OK92-6520	19.4	20.2	18.2	21.3	20.6	19.2	20.8	20.0

TABLE 30A - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1998

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	42.7	40.2	42.7	38.8	39.2	42.8	40.9	41.0
MANOKIN	43.2	39.8	43.9	38.3	40.6	43.7	41.0	41.5
R95-926	42.7	41.4	42.8	40.0	41.9	42.1	41.7	41.8
R95-2565	43.5	42.6	43.0	39.7	40.7	41.9	43.6	42.1
R95-798	43.5	43.2	43.7	40.8	43.2	43.2	42.7	42.9
R95-2210	42.9	42.0	42.6	39.3	40.2	43.5	40.0	41.5
R95-2538	43.6	41.0	43.5	37.9	41.8	43.1	39.7	41.5
K1424	43.5	41.1	43.3	38.3	40.1	42.8	42.0	41.6
K1425	42.1	39.9	41.0	36.8	38.6	39.7	37.6	39.4
K1426	44.2	38.4	43.8	36.6	41.0	43.6	39.6	41.0
K1427	43.3	41.0	44.0	37.4	42.7	42.6	41.1	41.7
K1428	43.0	41.3	42.7	39.9	39.2	42.4	42.1	41.5
MD95-5260	43.0	40.4	42.5	40.4	41.1	43.8	40.1	41.6
MD95-5264	42.6	40.1	43.0	38.7	40.7	42.2	41.9	41.3
MD95-5167	43.4	40.4	45.7	41.1	45.8	44.6	43.6	43.5
DT95-15091	43.9	41.7	43.6	40.3	41.0	45.1	42.0	42.5
DT95-15258	42.9	41.8	43.0	41.3	41.6	44.1	41.5	42.3
DT96-6840	43.0	42.5	42.3	40.9	40.8	42.8	42.0	42.0
DT96-15556	43.0	41.1	43.3	39.1	40.7	43.4	38.4	41.3
LS95-3794	42.5	39.4	42.4	40.0	42.0	41.6	41.3	41.3
LS94-3545	43.4	40.4	43.6	39.2	41.5	41.8	40.8	41.5
S94-1739	43.2	43.7	44.2	40.0	40.7	43.4	40.8	42.3
S96-3284	43.2	41.5	43.0	40.6	41.1	42.5	39.9	41.7
S96-2708	45.6	42.3	43.7	41.1	40.9	43.4	41.6	42.7
S96-2692	43.5	42.0	43.3	40.3	39.3	42.6	40.7	41.7
S96-2571	42.0	39.4	41.8	38.3	39.7	41.0	39.6	40.3

TABLE 30B - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1998

STRAIN/ VARIETY	JACKSON TN	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	42.1	39.5	42.9	39.1	39.2	42.4	42.4	41.1
MANOKIN	43.0	39.0	43.3	38.8	40.8	44.5	40.3	41.4
N96-7157	41.9	40.3	43.0	39.0	39.5	41.1	39.7	40.6
N93-1264	44.4	45.4	45.4	42.5	43.3	45.2	43.9	44.3
N96-6430	42.5	40.3	44.5	40.2	39.7	42.1	40.3	41.4
N96-6743	43.5	40.8	45.2	39.6	41.3	44.5	42.9	42.5
N96-7211	42.4	39.5	43.7	40.0	40.4	43.8	42.8	41.8
V94-1263	43.2	39.1	43.8	38.2	41.5	43.6	40.8	41.5
V94-1401	44.9	42.1	43.9	40.7	41.3	44.0	43.4	42.9
V94-0679	43.0	39.9	44.1	39.2	41.2	44.3	41.3	41.9
V94-1382	45.0	42.7	44.9	41.6	42.9	44.8	42.7	43.5
V94-1741	42.3	37.7	41.6	38.8	38.0	41.2	39.5	39.9
TN96-58	43.5	42.3	44.0	41.9	40.6	43.5	41.2	42.4
TN96-64	39.3	38.5	39.6	38.4	37.8	41.2	40.0	39.3
TN96-68	42.5	39.4	42.0	38.6	38.3	42.6	40.3	40.5
N96-19	44.3	42.2	46.3	41.6	41.8	45.3	44.1	43.7
N96-70	43.1	40.7	44.3	40.6	40.2	44.3	43.2	42.3
N96-180	43.8	40.6	43.5	40.5	41.4	43.5	42.9	42.3
N96-649	43.5	39.5	44.0	39.8	40.5	43.3	42.6	41.9
N96-374	43.5	43.4	43.9	39.5	45.2	43.5	42.3	43.0
KY95-0350	43.7	39.7	44.3	39.8	42.1	43.8	41.2	42.1
KY95-0146	44.5	41.7	44.6	41.3	41.2	45.6	41.9	43.0
KY95-0540	41.7	37.9	41.8	38.5	39.2	42.5	40.2	40.3
KY95-1737	43.4	41.4	43.5	39.7	41.5	42.9	41.4	42.0
KY95-0645	40.9	36.4	39.4	37.0	36.2	39.7	37.7	38.2
OK91-6005	42.4	39.2	42.6	38.5	38.8	43.1	39.8	40.6
OK92-6520	43.4	41.4	45.2	38.4	40.5	43.9	40.6	41.9

TABLE 31A - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1998

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	PITTSBURG† KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	16.1	12.6	10.6	15.0	12.6	16.6	12.3	10.9	13.8	13.7
MANOKIN	14.1	12.5	9.5	13.4	9.9	14.2	10.2	9.5	12.8	12.1
R95-926	17.2	13.5	13.0	15.4	12.4	15.9	11.3	11.3	16.2	14.1
R95-2565	18.4	12.3	11.7	14.8	11.7	15.8	11.2	10.8	15.1	13.7
R95-798	16.9	14.1	13.6	14.8	13.1	16.7	12.0	11.4	16.9	14.5
R95-2210	15.3	10.0	12.3	13.1	10.3	12.9	10.4	9.1	14.6	12.0
R95-2538	13.7	10.8	11.2	12.9	10.5	12.4	8.3	8.7	12.7	11.2
K1424	16.6	13.1	12.4	15.4	12.3	15.2	12.6	10.7	15.3	13.9
K1425	15.8	12.9	11.3	13.0	10.9	12.5	9.4	8.7	13.4	12.1
K1426	14.3	12.1	10.9	11.8	10.6	12.6	8.8	7.6	11.5	11.1
K1427	14.5	15.2	10.1	14.7	11.9	13.8	11.2	10.5	12.5	13.0
K1428	15.4	13.2	12.8	16.0	13.2	15.9	11.7	12.7	14.7	14.1
MD95-5260	13.0	13.3	10.8	15.1	10.7	14.4	11.0	9.2	13.9	12.6
MD95-5264	16.1	13.9	10.2	14.2	10.8	15.6	10.4	10.7	14.1	13.2
MD95-5167	14.9	13.9	9.8	14.2	10.6	14.8	9.3	9.7	12.4	12.5
DT95-15091	14.8	13.1	13.0	15.5	11.4	16.8	11.4	10.2	15.1	13.5
DT95-15258	17.6	14.4	14.5	17.2	13.3	19.0	13.6	12.1	17.0	15.5
DT96-6840	15.4	14.4	12.9	14.8	12.6	16.9	11.9	10.6	15.3	14.0
DT96-15556	15.9	12.2	13.9	14.7	11.7	16.4	11.4	11.1	14.1	13.4
LS95-3794	16.3	13.9	10.6	13.8	11.0	15.3	11.2	10.4	13.2	13.1
LS94-3545	13.8	13.3	10.4	14.3	11.2	13.9	10.0	9.9	12.1	12.3
S94-1739	15.9	12.5	12.2	13.5	11.6	14.1	10.9	10.4	12.9	12.7
S96-3284	14.1	14.1	15.8	16.6	13.5	16.5	12.5	11.9	15.8	14.4
S96-2708	14.9	11.3	12.6	13.8	10.6	14.1	10.5	9.6	14.2	12.4
S96-2692	15.7	12.3	11.2	13.8	10.4	15.3	10.5	9.6	14.3	12.7
S96-2571	15.6	13.0	12.1	14.0	12.7	14.7	8.2	10.0	12.2	12.5

†Not included in Mean

TABLE 31B - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1998

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	PITTSBURG† KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	15.3	14.1	11.8	15.8	11.7	15.7	12.1	10.8	13.0	13.5
MANOKIN	13.2	12.5	11.5	14.1	9.9	14.1	9.9	8.8	12.1	11.8
N96-7157	16.2	13.0	13.0	14.8	12.3	14.6	9.9	11.3	13.4	13.2
N93-1264	15.5	11.7	11.6	11.3	9.8	11.7	8.4	9.5	10.7	11.1
N96-6430	8.4	7.6	8.1	7.8	6.1	7.8	8.5	5.3	8.2	7.5
N96-6743	16.8	14.3	12.7	17.5	11.5	16.9	12.4	11.9	15.5	14.6
N96-7211	13.9	13.4	13.1	15.1	10.7	13.8	11.8	10.2	12.5	12.7
V94-1263	15.0	13.6	11.2	15.3	10.8	14.3	10.4	9.5	13.9	12.8
V94-1401	14.9	13.2	11.3	14.3	11.1	14.7	10.6	9.4	14.7	12.9
V94-0679	16.1	13.6	10.8	15.9	10.4	15.4	10.6	10.7	14.7	13.4
V94-1382	15.9	12.8	10.3	15.7	11.1	14.6	10.6	9.9	12.7	12.9
V94-1741	15.1	11.6	10.8	11.9	10.0	13.4	10.8	8.6	11.9	11.6
TN96-58	14.5	13.1	9.6	14.0	10.5	14.2	10.7	9.9	13.6	12.6
TN96-64	16.3	15.1	11.3	15.9	11.8	15.7	11.8	10.6	13.6	13.9
TN96-68	13.9	15.3	11.8	15.9	11.5	13.7	12.2	10.8	12.5	13.2
N96-19	14.7	14.1	13.0	15.2	11.6	16.1	11.0	10.0	13.7	13.3
N96-70	15.3	11.8	11.4	13.4	11.5	13.1	10.9	9.6	13.6	12.4
N96-180	19.4	14.5	15.0	15.4	12.9	17.1	13.6	11.9	18.0	15.3
N96-649	16.3	13.7	12.1	14.2	11.4	14.9	11.4	10.7	13.9	13.3
N96-374	15.5	14.5	15.3	17.0	12.2	13.9	11.8	13.3	14.5	14.1
KY95-0350	12.9	13.0	9.5	14.1	10.1	13.4	10.0	10.0	12.9	12.0
KY95-0146	18.2	15.8	16.0	17.8	13.1	18.9	14.9	11.3	18.2	16.0
KY95-0540	16.4	14.1	13.3	16.0	13.3	14.8	11.3	10.7	15.7	14.0
KY95-1737	15.6	14.8	11.6	15.9	12.5	16.3	12.9	12.4	15.2	14.4
KY95-0645	16.1	15.0	13.4	14.7	11.8	15.2	12.3	11.5	14.0	13.8
OK91-6005	14.8	11.8	9.9	13.0	10.2	13.8	10.6	9.8	13.3	12.2
OK92-6520	17.2	12.7	15.0	14.6	11.4	14.8	9.6	9.9	13.6	13.0

†Not included in Mean

TABLE 32A - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1998

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PITTSBURG† KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	22	29	24	34	28	26	29	24	21	23	25
MANOKIN	25	30	27	37	31	27	34	24	23	24	27
R95-926	30	38	30	40	37	35	40	26	30	29	33
R95-2565	26	37	29	40	33	33	34	26	25	24	30
R95-798	25	35	24	40	34	29	31	22	27	23	28
R95-2210	29	31	28	39	33	32	36	26	29	25	30
R95-2538	18	30	26	34	26	24	33	20	20	23	24
K1424	22	30	25	39	26	30	31	22	27	24	26
K1425	26	31	26	37	30	27	32	26	23	24	27
K1426	26	34	28	39	29	28	34	26	21	25	28
K1427	22	29	22	34	30	26	34	26	24	23	26
K1428	26	46	44	50	40	40	34	28	42	23	36
MD95-5260	24	34	26	41	34	24	33	28	26	23	28
MD95-5264	30	29	24	37	30	24	31	28	23	22	27
MD95-5167	29	24	23	35	29	19	28	32	23	22	25
DT95-15091	31	44	38	41	36	40	42	38	41	30	38
DT95-15258	33	41	32	42	39	35	37	34	32	29	35
DT96-6840	26	34	32	41	33	30	31	30	27	26	30
DT96-15556	31	37	35	39	34	38	36	32	32	26	33
LS95-3794	28	33	27	34	29	28	30	26	23	24	28
LS94-3545	29	34	27	35	31	23	33	26	21	27	28
S94-1739	33	39	33	40	37	35	40	32	31	28	34
S96-3284	27	37	36	42	34	31	40	32	38	30	34
S96-2708	30	35	32	37	35	28	32	28	27	24	30
S96-2692	31	33	25	37	30	25	29	26	26	24	28
S96-2571	32	42	32	46	38	36	42	28	29	30	34

†Not included in Mean

TABLE 32B - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1998

STRAIN/ VARIETY	BIXBY OK	JACKSON TN	KEISER AR	PITTSBURG† KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	25	30	24	41	27	27	27	20	24	24	25
MANOKIN	25	34	26	35	33	26	34	22	29	22	28
N96-7157	26	33	28	39	33	32	27	22	28	23	28
N93-1264	29	41	44	45	41	33	40	32	32	31	36
N96-6430	18	26	18	35	24	18	24	18	21	15	20
N96-6743	23	26	27	37	28	26	29	24	23	22	25
N96-7211	26	34	31	37	32	28	29	26	33	24	29
V94-1263	24	29	23	35	30	20	28	24	22	21	24
V94-1401	26	32	25	36	29	24	27	24	27	22	26
V94-0679	24	28	22	33	26	23	24	22	29	20	24
V94-1382	22	30	22	33	24	20	26	22	22	19	23
V94-1741	28	32	25	36	31	26	33	26	24	23	28
TN96-58	30	34	30	42	35	25	35	26	24	25	29
TN96-64	26	31	21	38	26	24	25	24	25	20	24
TN96-68	29	31	25	35	26	20	29	22	20	22	25
N96-19	28	32	30	37	35	27	30	30	30	25	30
N96-70	28	32	25	40	31	26	27	26	26	23	27
N96-180	29	37	31	42	36	33	34	30	34	27	32
N96-649	34	30	28	41	32	26	30	26	28	24	29
N96-374	36	37	45	44	42	39	35	34	35	27	36
KY95-0350	24	27	21	35	27	21	25	22	20	16	22
KY95-0146	26	31	25	36	28	23	29	24	28	22	26
KY95-0540	30	45	45	47	41	39	31	36	34	24	36
KY95-1737	36	33	27	40	34	30	35	34	25	27	31
KY95-0645	28	32	25	37	29	27	27	26	25	21	27
OK91-6005	29	31	22	37	30	23	23	24	27	20	25
OK92-6520	31	31	28	39	33	33	28	26	28	26	29

†Not included in Mean

TABLE 33A - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1998

STRAIN/ VARIETY	JACKSON TN	KEISER AR	PITTSBURG† KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	2	1	3	3	2	2	2	1	1	2
MANOKIN	2	1	4	3	1	3	2	1	1	2
R95-926	2	1	2	3	2	3	2	1	2	2
R95-2565	3	1	3	3	2	3	2	1	1	2
R95-798	2	1	2	3	1	2	2	1	1	2
R95-2210	3	1	3	3	2	2	2	1	1	2
R95-2538	2	1	3	3	1	2	2	1	2	2
K1424	2	1	2	3	1	2	2	1	1	1
K1425	2	1	2	3	2	2	2	1	1	2
K1426	3	2	4	3	2	4	2	1	1	2
K1427	1	1	3	3	1	3	2	1	1	2
K1428	2	1	2	3	1	2	2	1	1	2
MD95-5260	2	1	4	3	1	2	2	1	1	2
MD95-5264	1	1	3	3	1	2	2	1	1	2
MD95-5167	2	1	4	3	1	2	2	1	1	2
DT95-15091	4	2	4	3	3	3	2	2	1	2
DT95-15258	3	2	3	3	1	3	2	1	1	2
DT96-6840	2	2	4	3	2	3	2	1	1	2
DT96-15556	4	2	3	3	3	2	2	1	1	2
LS95-3794	1	1	4	2	1	2	2	1	1	1
LS94-3545	2	1	3	3	1	3	2	1	1	2
S94-1739	3	2	4	3	2	3	2	1	1	2
S96-3284	3	2	3	3	2	3	2	2	1	2
S96-2708	3	1	4	3	1	2	2	1	1	2
S96-2692	2	1	3	3	1	2	2	1	1	2
S96-2571	2	2	3	3	2	3	2	1	1	2

†Not included in Mean

TABLE 33B - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1998

STRAIN/ VARIETY	JACKSON TN	KEISER AR	PITTSBURG† KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	STONEVILLE MS	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	3	1	3	3	1	2	2	1	1	2
MANOKIN	3	1	4	3	1	3	2	1	1	2
N96-7157	3	2	3	3	1	2	2	1	1	2
N93-1264	3	2	3	3	1	3	2	2	2	2
N96-6430	3	1	3	2	1	2	2	1	1	2
N96-6743	4	2	4	3	2	2	2	1	1	2
N96-7211	4	2	3	3	2	2	2	2	1	2
V94-1263	3	1	2	3	1	1	2	1	1	2
V94-1401	3	1	3	3	1	1	2	1	1	2
V94-0679	3	1	4	3	1	1	2	1	1	2
V94-1382	2	1	3	3	1	1	2	1	1	1
V94-1741	3	1	3	3	1	2	2	1	1	2
TN96-58	2	1	3	3	1	3	2	1	1	2
TN96-64	1	1	3	3	1	2	2	1	1	1
TN96-68	3	1	4	3	1	2	2	1	1	2
N96-19	3	1	4	3	1	3	2	1	1	2
N96-70	2	1	3	3	1	2	2	1	1	2
N96-180	3	1	3	3	1	2	2	1	1	2
N96-649	3	2	3	3	1	2	2	2	1	2
N96-374	3	2	3	3	2	2	2	2	1	2
KY95-0350	1	1	3	3	1	2	2	1	1	1
KY95-0146	3	1	3	3	1	3	2	1	1	2
KY95-0540	4	3	3	3	2	2	2	2	1	2
KY95-1737	3	1	4	3	2	3	3	1	1	2
KY95-0645	3	1	3	3	1	2	2	1	1	2
OK91-6005	2	1	3	3	1	2	2	1	1	2
OK92-6520	3	1	4	3	1	2	2	1	1	2

†Not included in Mean

TABLE 34A - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VA, 1998

STRAIN/ VARIETY	JACKSON TN	PITTSBURG† KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	2	2	2	2	1	2	2	2
MANOKIN	1	4	2	2	2	3	3	2
R95-926	1	2	2	2	1	1	2	2
R95-2565	2	3	2	2	2	2	2	2
R95-798	2	2	2	2	2	2	2	2
R95-2210	3	2	2	2	1	2	3	2
R95-2538	3	2	2	2	2	2	2	2
K1424	3	2	2	2	1	2	3	2
K1425	2	2	2	2	1	2	3	2
K1426	2	4	2	2	2	3	3	2
K1427	2	3	2	2	2	3	3	2
K1428	3	3	2	2	1	2	3	2
MD95-5260	2	3	2	2	1	2	2	2
MD95-5264	2	3	2	2	1	3	3	2
MD95-5167	2	3	2	2	2	3	2	2
DT95-15091	2	3	2	2	1	2	3	2
DT95-15258	2	2	2	2	1	3	2	2
DT96-6840	2	2	2	2	1	1	2	2
DT96-15556	2	2	2	2	1	2	2	2
LS95-3794	2	3	2	2	2	3	3	2
LS94-3545	3	4	2	2	2	2	2	2
S94-1739	2	2	2	2	2	2	2	2
S96-3284	3	2	2	3	2	3	2	3
S96-2708	2	2	2	2	1	3	2	2
S96-2692	1	3	2	2	1	2	3	2
S96-2571	2	3	2	2	2	2	2	2

†Not included in Mean

TABLE 34B - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VB, 1998

STRAIN/ VARIETY	JACKSON TN	PITTSBURG† KS	PLYMOUTH NC	PORTAGEVILLE MO(A)	QUEENSTOWN MD	ULLIN IL	WARSAW VA	MEAN
HUTCHESON	1	2	2	2	2	2	3	2
MANOKIN	3	2	2	2	2	2	3	2
N96-7157	3	2	2	2	2	2	2	2
N93-1264	2	3	2	2	1	3	1	2
N96-6430	3	2	2	2	1	1	1	2
N96-6743	2	3	2	2	2	2	3	2
N96-7211	2	2	2	2	1	2	2	2
V94-1263	2	3	2	2	2	1	3	2
V94-1401	2	2	2	2	2	2	3	2
V94-0679	2	3	2	2	2	1	2	2
V94-1382	1	3	2	2	2	2	2	2
V94-1741	2	2	2	2	1	2	3	2
TN96-58	2	2	2	2	1	1	3	2
TN96-64	2	3	2	2	2	2	2	2
TN96-68	2	3	2	2	2	3	2	2
N96-19	2	2	2	2	2	2	2	2
N96-70	2	2	2	2	2	2	3	2
N96-180	2	2	2	2	2	2	4	2
N96-649	2	3	2	2	2	2	3	2
N96-374	3	3	2	2	2	3	2	2
KY95-0350	2	3	2	2	2	2	2	2
KY95-0146	2	3	2	2	2	2	3	2
KY95-0540	2	4	2	2	2	3	3	2
KY95-1737	2	3	2	2	2	3	3	2
KY95-0645	2	3	2	2	2	3	2	2
OK91-6005	2	3	2	2	2	2	2	2
OK92-6520	2	3	2	2	2	3	2	2

†Not included in Mean

UNIFORM GROUP VI

1998

Uniform Group VI nurseries were planted at 23 locations. Data were obtained from 19 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, 1998

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. DILLON	CENTENNIAL X YOUNG	F5
2. BOGGS	G81-152 X COKER 6738	F6
3. R93-151	HUTCHESON X ASG A5403	
4. R92-1258	HUTCHESON X WALTERS	
5. G94-1448	G86-1434 X DOLES	F5
6. G94-1559	G86-1434 X G85-373	F5
7. G92-1110	BRYAN X COKER 6727	F5
8. G94-1223	G86-1434 X DOLES	F5
9. AU92-763	G83-198 X Au85-1088	F6
10. OK89-5606	BEDFORD X MITCHELL	
11. SC93-2679	COKER82-622 X HOWARD	F5
12. SC94-1075	COKER 6847 X G83-198	F5
13. SC94-1547	S83-30 X BRYAN	F5
14. TN93-142	HUTCHESON X TN85-55 X TN83-26	
15. N94-552	HOLLADAY X BRIM	F6
16. N95-723	N85-661 X Au87-547	F6
17. N95-621	N84-492 X N88-480	F6

**TABLE 36 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM GROUP VI, 1998**

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1998	97-98	96-98	1998	97-98	96-98	1998	97-98	96-98
DILLON	38.4	42.4	43.9	43.1	42.2	42.8	20.0	20.0	20.3
BOGGS	40.7	44.8	.	43.3	42.8	.	20.3	20.2	.
R93-151	40.2	44.5	.	42.1	42.1	.	20.5	20.3	.
R92-1258	40.4	44.1	45.3	41.7	41.2	41.6	20.8	20.7	21.0
G94-1448	39.3	.	.	43.1	.	.	19.8	.	.
G94-1559	38.2	.	.	42.8	.	.	19.6	.	.
G92-1110	38.8	43.7	.	40.6	39.7	.	20.2	20.2	.
G94-1223	37.4	.	.	43.0	.	.	19.9	.	.
AU92-763	38.7	43.1	44.6	41.8	41.3	41.7	20.2	19.8	20.5
OK89-5606	36.4	40.9	.	40.9	40.4	.	21.5	21.4	.
SC93-2679	36.1	41.6	.	41.9	41.5	.	19.4	19.3	.
SC94-1075	39.6	.	.	42.6	.	.	20.1	.	.
SC94-1547	37.2	.	.	43.5	.	.	19.0	.	.
TN93-142	38.1	43.0	44.3	42.1	41.8	42.2	20.0	20.0	20.2
N94-552	40.1	44.1	.	42.9	42.5	.	19.3	19.0	.
N95-723	36.3	.	.	44.7	.	.	19.7	.	.
N95-621	36.4	.	.	41.0	.	.	21.1	.	.

†Data from Pine Tree, AR, Clemson, SC (1998); Beaumont, TX (1997); Whiteville, NC, Beaumont, TX, Baton Rouge, LA (1996) not included in Mean.

TABLE 36 - Continued

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
DILLON	P	10/09	2	32	2	13.9	G	T
BOGGS	W	4+	2	30	2	12.8	T	T
R93-151	P	2+	1	30	2	14.3	G	T
R92-1258	S	2+	1	32	2	14.0	G	T
G94-1448	W	1+	1	26	2	11.7	T	T
G94-1559	W	5+	2	34	2	12.6	T	T
G92-1110	P	6+	2	35	2	12.8	T	T
G94-1223	W	0	2	28	2	11.7	T	T
AU92-763	W	3+	1	29	2	10.5	S	T
OK89-5606	P	4+	1	30	2	13.9	S	S
SC93-2679	W	9+	2	34	2	12.2	T	T
SC94-1075	W	3+	2	33	2	11.4	G	T
SC94-1547	P	7+	2	33	2	12.1	T	T
TN93-142	W	2+	1	31	2	14.0	G	T
N94-552	W	6+	2	34	2	12.2	G	BR
N95-723	W	2-	1	28	2	13.0	G	T
N95-621	P	1+	1	27	2	14.8	T	T

Table 36 - Continued.**PEST REACTIONS**

STRAIN/ VARIETY	STEM CANKER	SMV	SCN 3	SCN 14	M. i. GA	M. a. GA
DILLON	S	R	3.7	5.0	1.0	4.3
BOGGS	R	S	1.0	4.7	1.0	2.8
R93-151	S	R	1.3	2.7	3.3	3.0
R92-1258	R	R	4.1	4.9	4.8	3.8
G94-1448	S	R	1.0	5.0	1.0	3.8
G94-1559	S	S	1.0	5.0	1.0	2.3
G92-1110	R	S	1.0	5.0	1.0	2.5
G94-1223	S	R	1.0	5.0	1.0	3.3
AU92-763	S	R	1.0	5.0	1.0	3.5
OK89-5606	S	H	2.3	5.0	5.0	4.3
SC93-2679	S	R	1.0	5.0	1.0	3.8
SC94-1075	S	R	1.0	5.0	1.0	4.5
SC94-1547	S	S	1.0	5.0	1.0	2.3
TN93-142	S	R	1.0	2.3	3.5	4.5
N94-552	S	R	3.7	4.4	4.5	3.3
N95-723	S	S	1.0	1.4	1.0	3.5
N95-621	R	R	3.3	4.7	2.0	3.8

See Methods section for description of ratings scale.

TABLE 37 - SEED YIELD, IN BUSHEL PER ACRE FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1998

EAST

STRAIN/ VARIETY	FLORENCE	PLYMOUTH	WARSAW	MEAN
	SC	NC	VA	
DILLON	27.1	45.0	22.9	31.7
BOGGS	27.2	51.3	23.8	34.1
R93-151	27.1	48.3	25.5	33.7
R92-1258	24.9	47.0	21.4	31.1
G94-1448	20.4	44.2	20.7	28.4
G94-1559	29.3	50.0	20.9	33.4
G92-1110	27.8	48.9	22.5	33.1
G94-1223	21.5	43.9	20.7	28.7
AU92-763	27.9	49.9	20.7	32.8
OK89-5606	22.3	44.8	24.0	30.4
SC93-2679	27.8	49.8	20.0	32.5
SC94-1075	33.2	47.4	23.5	34.7
SC94-1547	23.9	47.4	20.8	30.7
TN93-142	24.9	41.9	22.0	29.6
N94-552	24.9	53.6	26.7	35.1
N95-723	17.3	45.9	21.3	28.2
N95-621	16.4	43.9	26.4	28.9
L. S. D. (0.05)	5.0	4.8	2.5	.
C. V. (%)	12.1	6.1	6.6	.

TABLE 37 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACKVILLE SC	CALHOUN GA	CLEMSON† SC	FAIRHOPE AL	JAY FL	STARKVILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON GA	MEAN
DILLON	52.9	22.1	40.1	18.9	31.0	45.5	24.7	39.8	56.8	42.1	56.8	40.0
BOGGS	49.7	21.0	36.3	24.6	38.4	46.0	24.7	44.0	60.9	51.8	69.3	42.8
R93-151	50.5	26.1	42.9	22.5	37.8	47.9	29.7	36.8	56.7	46.0	57.3	41.6
R92-1258	49.2	24.2	33.1	25.3	31.1	50.2	30.0	43.0	58.8	45.4	58.9	41.8
G94-1448	52.5	25.7	35.4	22.6	20.8	47.8	30.7	39.7	58.2	46.8	51.2	41.1
G94-1559	47.0	16.8	45.5	18.9	26.1	45.3	28.0	29.6	57.3	47.4	62.5	39.8
G92-1110	50.2	16.9	49.9	20.1	34.6	42.9	31.3	36.6	47.5	47.7	66.9	41.0
G94-1223	53.4	22.8	36.1	16.8	25.7	46.0	25.0	33.3	58.2	47.1	56.9	39.6
AU92-763	52.9	15.4	43.1	18.5	25.7	46.6	21.0	32.0	59.3	49.6	65.6	40.4
OK89-5606	45.3	17.8	41.9	16.1	26.8	46.2	21.0	35.5	50.8	43.4	64.5	38.3
SC93-2679	44.5	13.8	44.9	20.4	25.4	38.9	28.3	27.6	47.8	52.5	59.7	37.8
SC94-1075	52.4	18.5	41.2	26.6	30.8	42.5	24.3	39.6	56.8	43.9	58.0	40.4
SC94-1547	46.3	16.5	43.4	17.1	23.3	42.5	31.7	30.0	51.8	49.2	54.2	38.3
TN93-142	55.3	22.4	40.5	24.0	18.5	45.4	19.0	37.5	52.6	48.6	58.8	40.4
N94-552	54.8	16.8	47.0	15.8	33.8	45.2	21.3	35.2	60.1	45.3	71.9	41.4
N95-723	40.2	26.4	30.4	15.6	22.9	53.0	21.3	36.4	51.6	47.5	51.4	37.4
N95-621	45.3	15.5	37.9	12.7	39.0	46.6	19.3	36.0	57.9	49.8	53.6	37.5
L. S. D. (0.05)	6.6	3.5	6.7	4.3	10.0	4.8	8.3	7.0	9.0	8.1	8.2	.
C. V. (%)	8.0	12.6	9.9	13.0	20.7	7.5	19.8	11.6	9.8	12.4	8.2	.

†Not included in Mean

TABLE 37 - Continued

DELTA

STRAIN/ VARIETY	PINE TREE†	PORTAGEVILLE	STONEVILLE	MEAN
	AR	MO(A)	MS	
DILLON	24.8	40.6	28.8	34.7
BOGGS	23.3	41.1	26.2	33.7
R93-151	13.2	41.0	28.7	34.9
R92-1258	19.6	44.6	37.4	41.0
G94-1448	19.7	42.3	30.5	36.4
G94-1559	23.2	39.8	22.2	31.0
G92-1110	21.2	31.0	21.8	26.4
G94-1223	27.4	34.9	29.6	32.2
AU92-763	22.9	33.9	27.6	30.7
OK89-5606	24.0	28.4	29.5	29.0
SC93-2679	25.2	33.7	19.3	26.5
SC94-1075	32.5	38.9	24.9	31.9
SC94-1547	27.5	37.3	25.8	31.6
TN93-142	24.2	39.7	24.4	32.1
N94-552	29.9	39.3	36.1	37.7
N95-723	13.8	38.1	38.2	38.2
N95-621	17.1	29.8	30.7	30.3
L. S. D. (0.05)	7.7	6.4	5.8	.
C. V. (%)	20.2	10.3	12.3	.

†Not included in Mean

TABLE 37 - Continued

STRAIN/ VARIETY	WEST		MEAN
	BIXBY OK	STUTTGART AR	
DILLON	27.0	61.3	44.2
BOGGS	31.5	62.6	47.0
R93-151	35.7	61.0	48.4
R92-1258	29.5	64.4	47.0
G94-1448	34.9	65.2	50.1
G94-1559	35.0	54.7	44.9
G92-1110	34.2	62.8	48.5
G94-1223	31.6	58.4	45.0
AU92-763	29.1	65.6	47.3
OK89-5606	32.5	55.5	44.0
SC93-2679	30.3	53.8	42.0
SC94-1075	32.7	68.6	50.7
SC94-1547	29.4	64.5	46.9
TN93-142	30.8	59.0	44.9
N94-552	31.9	55.0	43.5
N95-723	21.6	60.0	40.8
N95-621	35.4	61.0	48.2
L. S. D. (0.05)	5.7	7.0	.
C. V. (%)	10.9	6.1	.

TABLE 38 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1998

OIL PERCENTAGE

STRAIN/ VARIETY	BELLE		BLACK-		FAIR-		PINE†		PORTAGE-		STONE-		TALLA-		WARSAW		MEAN	
	ATHENS GA	MINA AL	BIXBY OK	VILLE SC	CALHOUN GA	CLEMSON† SC	HOPE AL	FLORENCE SC	JAY FL	TREE AR	PLYMOUTH NC	VILLE MO(A)	VILLE MS	SUFFOLK VA	SSEE AL	TIFTON GA		WARSAW VA
DILLON	20.8	18.0	.	20.0	.	20.6	19.5	19.5	21.6	19.7	20.0	19.4	20.3	21.1	19.6	.	20.3	20.0
BOGGS	21.2	17.2	.	20.1	.	21.5	20.3	20.4	22.2	20.1	20.2	19.6	20.2	21.3	20.7	.	20.4	20.3
R93-151	21.3	17.2	.	20.5	.	21.2	21.1	21.0	22.1	21.4	19.8	19.8	20.1	20.9	20.5	.	21.5	20.5
R92-1258	21.7	17.8	.	20.6	.	22.2	21.2	20.8	21.7	20.9	19.4	20.2	20.8	21.8	21.2	.	22.3	20.8
G94-1448	20.8	15.3	.	20.3	.	20.6	19.9	19.5	21.7	19.6	19.6	19.8	18.5	20.3	19.8	.	21.5	19.8
G94-1559	20.7	15.4	.	19.2	.	20.8	19.7	19.6	22.1	21.0	19.2	19.7	19.3	20.2	19.8	.	20.5	19.6
G92-1110	21.5	17.0	.	20.7	.	21.5	20.5	20.5	22.6	20.8	19.7	17.9	19.2	21.7	20.8	.	20.5	20.2
G94-1223	20.7	16.1	.	19.9	.	21.8	20.3	19.7	21.6	19.7	20.2	18.2	19.2	20.9	19.8	.	21.6	19.9
AU92-763	21.6	16.2	.	20.5	.	21.8	21.3	19.8	21.2	20.1	20.2	18.9	19.3	21.7	20.2	.	21.1	20.2
OK89-5606	22.4	16.8	.	21.6	.	22.4	23.0	21.1	23.6	22.2	21.1	20.6	21.9	22.7	21.8	.	21.3	21.5
SC93-2679	20.6	16.1	.	19.7	.	20.6	19.0	18.6	21.2	19.5	20.1	19.5	18.0	21.0	19.5	.	19.8	19.4
SC94-1075	21.7	14.6	.	20.7	.	22.0	20.4	20.3	21.3	20.8	20.1	19.8	18.9	21.6	20.6	.	20.9	20.1
SC94-1547	20.2	16.2	.	19.0	.	19.5	19.1	18.7	21.0	20.0	19.6	18.8	17.2	20.0	18.8	.	19.9	19.0
TN93-142	21.3	17.1	.	19.8	.	20.9	20.5	20.5	22.2	20.8	19.6	19.2	19.4	20.8	20.4	.	19.6	20.0
N94-552	20.5	16.6	.	19.0	.	20.6	19.5	18.5	21.4	19.1	19.5	18.8	18.8	20.3	18.9	.	19.5	19.3
N95-723	20.2	16.3	.	19.1	.	20.8	20.4	19.7	21.3	19.3	20.0	17.5	20.1	20.4	19.4	.	21.7	19.7
N95-621	22.5	15.8	.	22.2	.	23.4	22.7	21.0	22.0	22.4	21.6	18.4	20.8	22.7	21.9	.	21.0	21.1

†Not included in Mean

TABLE 38 - Continued

PROTEIN PERCENTAGE

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BIXBY OK	BLACK- VILLE SC	CALHOUN GA	CLEMSON† SC	FAIR- HOPE AL	FLORENCE SC	JAY FL	PINE† TREE AR	PLYMOUTH NC	PORTAGE- VILLE MO(A)	STONE- VILLE MS	SUFFOLK VA	TALLA- SSEE AL	TIFTON GA	WARSAW VA	MEAN
DILLON	41.4	45.0	.	45.3	.	40.8	45.0	44.3	43.2	44.5	41.9	43.5	41.2	41.1	44.6	.	40.6	43.1
BOGGS	41.2	46.4	.	46.5	.	39.0	44.7	43.4	42.6	43.5	42.2	43.5	42.4	41.5	43.7	.	40.9	43.3
R93-151	40.9	45.0	.	42.9	.	39.8	42.6	42.4	42.1	43.0	41.3	42.7	40.6	41.3	42.6	.	40.9	42.1
R92-1258	40.0	44.2	.	43.0	.	38.9	43.5	41.8	42.6	43.5	41.0	42.8	40.1	39.8	42.4	.	38.6	41.7
G94-1448	42.2	47.4	.	44.7	.	40.7	45.6	44.2	41.6	44.9	41.0	41.8	43.7	41.4	44.0	.	39.3	43.1
G94-1559	41.3	46.6	.	44.4	.	39.5	43.9	42.3	41.8	42.6	41.6	43.0	43.1	42.8	43.7	.	39.1	42.8
G92-1110	39.3	45.9	.	40.7	.	33.9	41.7	39.7	40.4	41.2	38.1	45.4	43.1	37.0	41.2	.	34.6	40.6
G94-1223	42.5	46.0	.	44.8	.	38.2	44.6	43.8	41.6	44.0	41.7	44.5	41.1	41.2	44.6	.	39.3	43.0
AU92-763	39.4	45.8	.	43.6	.	37.9	42.9	42.5	41.3	43.0	39.7	42.8	41.3	39.4	43.1	.	39.3	41.8
OK89-5606	39.8	45.6	.	41.3	.	37.7	42.3	41.4	39.8	40.9	40.0	41.7	40.0	38.5	41.2	.	39.3	40.9
SC93-2679	40.6	47.2	.	42.3	.	38.3	43.7	41.9	41.2	42.4	41.4	41.1	44.2	38.2	43.5	.	37.3	41.9
SC94-1075	40.4	48.2	.	43.9	.	38.4	44.0	42.4	42.4	42.2	40.8	42.9	42.7	40.2	42.6	.	40.3	42.6
SC94-1547	41.5	46.6	.	44.3	.	41.4	45.2	44.1	42.6	43.3	41.2	43.4	46.2	41.4	45.2	.	39.9	43.5
TN93-142	40.3	45.0	.	43.5	.	39.4	42.8	41.6	40.8	42.9	41.8	43.0	41.6	41.6	42.8	.	40.5	42.1
N94-552	41.7	45.6	.	43.6	.	39.8	43.4	43.3	41.3	44.0	41.4	42.9	43.8	40.2	44.2	.	43.9	42.9
N95-723	43.9	46.9	.	47.3	.	41.4	45.1	45.9	44.6	46.7	42.9	47.7	41.7	43.1	47.5	.	39.5	44.7
N95-621	39.1	44.6	.	41.2	.	36.2	41.4	41.4	41.3	41.2	38.9	43.4	41.2	38.4	40.0	.	41.6	41.0

†Not included in Mean

TABLE 38 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	BELLE		BLACK-		FAIR-		PINE†		PORTAGE-		STONE-		TALLA-		TIFTON		WARSAW		MEAN
	ATHENS GA	MINA AL	BIXBY OK	VILLE SC	CALHOUN GA	CLEMSON† SC	HOPE AL	FLORENCE SC	JAY FL	TREE AR	PLYMOUTH NC	VILLE MO(A)	VILLE MS	SUFFOLK VA	SSEE AL	GA	VA		
DILLON	14.9	9.6	15.9	18.1	12	16.5	14.3	16.5	14.5	13.9	14.4	11.8	11.3	14.7	12.8	14	14.4	13.9	
BOGGS	13.5	8.2	14.8	17.8	12	14.9	12.3	11.9	12.8	13.6	13.9	11.0	8.9	12.8	11.5	16	13.9	12.8	
R93-151	14.7	8.8	16.7	20.4	13	16.2	15.2	14.6	16.0	15.9	14.5	12.2	9.6	12.6	12.9	18	15.6	14.3	
R92-1258	14.1	8.6	16.8	16.5	14	18.0	16.2	16.6	10.9	13.9	13.9	13.3	12.9	13.4	13.4	15	14.4	14.0	
G94-1448	12.4	7.0	13.5	15.3	12	13.7	12.2	12.1	12.4	11.9	11.5	10.1	10.2	11.6	10.9	13	12.0	11.7	
G94-1559	12.5	7.6	13.1	16.8	12	15.6	12.1	12.2	14.8	12.8	13.1	11.6	10.9	13.7	10.2	16	13.2	12.6	
G92-1110	15.1	7.8	14.0	17.2	13	14.7	11.6	11.4	11.8	12.2	13.8	11.4	10.4	13.3	11.8	15	14.1	12.8	
G94-1223	12.5	7.1	13.5	14.4	11	14.0	12.5	12.5	12.8	11.9	11.8	10.2	9.3	11.1	11.1	14	12.4	11.7	
AU92-763	11.7	3.9	12.5	13.8	10	12.4	9.9	10.4	11.4	10.3	11.2	9.1	8.2	11.0	9.9	12	11.8	10.5	
OK89-5606	14.1	8.3	16.1	18.0	13	19.2	14.3	15.1	13.0	14.3	14.8	12.3	11.5	13.6	13.3	16	14.6	13.9	
SC93-2679	13.5	8.1	12.6	16.3	12	14.0	11.1	10.8	12.5	11.3	14.1	11.5	9.3	13.1	11.8	14	12.6	12.2	
SC94-1075	12.7	6.1	13.6	16.2	10	13.1	11.1	12.2	10.5	11.2	12.1	10.5	8.9	11.6	10.4	13	12.4	11.4	
SC94-1547	13.6	7.6	14.2	15.4	12	15.9	11.0	11.8	13.9	12.7	12.8	10.6	9.1	13.1	10.5	13	13.2	12.1	
TN93-142	15.4	8.4	17.6	18.5	13	16.4	14.2	14.6	12.9	16.0	14.9	13.0	9.6	14.5	11.7	17	14.9	14.0	
N94-552	13.4	7.2	13.8	16.3	11	15.9	11.2	12.3	11.9	11.8	13.1	11.3	9.7	11.8	11.1	15	13.7	12.2	
N95-723	13.6	8.5	15.1	17.4	12	14.6	14.9	12.4	14.1	14.4	13.8	10.6	11.4	12.9	12.4	15	11.2	13.0	
N95-621	16.0	6.7	19.2	20.1	13	19.4	15.9	15.1	12.9	15.9	15.4	12.3	12.0	14.8	15.2	18	15.9	14.8	

†Not included in Mean

TABLE 39 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN DILLON VARIETY IN UNIFORM GROUP VI, 1998

EAST

STRAIN/ VARIETY	FLORENCE	PLYMOUTH	WARSAW	MEAN
	SC	NC	VA	
DILLON	10/14	10/22	10/16	10/17
BOGGS	2	0	3	2
R93-151	0	0	0	0
R92-1258	0	0	-2	0
G94-1448	1	-7	1	-1
G94-1559	3	0	4	3
G92-1110	4	0	8	4
G94-1223	2	-7	0	-1
AU92-763	1	2	3	2
OK89-5606	0	0	5	2
SC93-2679	4	0	10	5
SC94-1075	1	0	3	1
SC94-1547	3	0	7	3
TN93-142	1	0	-1	0
N94-552	4	4	9	6
N95-723	-1	-7	-9	-5
N95-621	0	0	3	1

TABLE 39 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACKVILLE SC	CALHOUN GA	CLEMSON† SC	FAIRHOPE AL	JAY FL	STARKVILLE MS	SUFFOLK VA	TALLASSEE AL	TIFTON GA	MEAN
DILLON	10/14	10/14	10/15	09/29	10/25	10/05	10/07	.	10/24	09/21	09/26	10/07
BOGGS	3	2	3	6	3	2	4	.	2	10	6	4
R93-151	1	0	1	14	0	2	-2	.	-5	5	8	3
R92-1258	-2	0	1	-1	1	1	-1	.	0	4	9	1
G94-1448	-2	0	0	2	0	0	6	.	0	4	3	2
G94-1559	1	1	6	9	-1	2	1	.	2	15	15	6
G92-1110	5	0	8	13	2	2	2	.	2	15	13	7
G94-1223	0	0	0	2	0	0	-1	.	0	0	-1	0
AU92-763	4	1	6	6	2	0	0	.	2	7	8	4
OK89-5606	3	0	6	7	0	4	1	.	2	12	1	4
SC93-2679	7	1	10	19	2	6	2	.	5	22	19	10
SC94-1075	1	0	1	3	2	2	1	.	2	11	3	3
SC94-1547	5	1	8	11	2	5	6	.	2	17	14	8
TN93-142	3	0	3	5	0	1	-2	.	2	7	7	3
N94-552	4	1	8	8	1	7	-2	.	2	15	10	6
N95-723	-6	0	1	-4	-3	0	3	.	-3	-3	1	-1
N95-621	3	0	-1	1	1	2	-3	.	-3	4	4	1

†Not included in Mean

TABLE 39 - Continued**DELTA**

STRAIN/ VARIETY	PINE TREE†	PORTAGEVILLE	STONEVILLE	MEAN
	AR	MO(A)	MS	
DILLON	10/16	10/08	09/30	10/04
BOGGS	7	14	7	11
R93-151	1	4	4	4
R92-1258	1	7	6	7
G94-1448	0	-1	6	3
G94-1559	1	9	6	8
G92-1110	0	10	8	9
G94-1223	1	2	0	1
AU92-763	2	5	1	3
OK89-5606	0	5	8	7
SC93-2679	3	15	8	12
SC94-1075	1	6	2	4
SC94-1547	-1	10	8	9
TN93-142	1	7	0	4
N94-552	-1	10	11	11
N95-723	-1	-2	0	-1
N95-621	3	4	2	3

†Not included in Mean

TABLE 39 - Continued

STRAIN/ VARIETY	WEST	
	BIXBY OK	STUTT GART AR
DILLON	.	10/13
BOGGS	.	0
R93-151	.	2
R92-1258	.	2
G94-1448	.	2
G94-1559	.	2
G92-1110	.	1
G94-1223	.	1
AU92-763	.	2
OK89-5606	.	1
SC93-2679	.	2
SC94-1075	.	2
SC94-1547	.	2
TN93-142	.	2
N94-552	.	2
N95-723	.	2
N95-621	.	2

TABLE 40 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1998

STRAIN/ VARIETY	EAST				MEAN
	FLORENCE SC	PLYMOUTH NC	WARSAW VA		
DILLON	19	40	31		30
BOGGS	19	37	28		28
R93-151	18	36	26		26
R92-1258	18	35	25		26
G94-1448	16	26	26		23
G94-1559	23	37	29		30
G92-1110	24	38	30		30
G94-1223	18	28	22		23
AU92-763	18	36	24		26
OK89-5606	18	33	27		26
SC93-2679	21	43	30		31
SC94-1075	20	37	29		29
SC94-1547	22	37	29		29
TN93-142	20	31	27		26
N94-552	19	39	32		30
N95-723	17	34	27		26
N95-621	15	32	27		24

TABLE 40 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACKVILLE SC	CALHOUN GA	CLEMSON† SC	FAIRHOPE AL	JAY FL	SUFFOLK VA	TALLASSEE AL	TIFTON GA	MEAN
DILLON	35	36	32	41	28	34	23	43	36	28	34
BOGGS	32	35	28	37	30	29	18	38	34	28	31
R93-151	31	32	27	36	26	31	20	39	34	26	31
R92-1258	33	39	33	39	28	37	19	40	35	31	34
G94-1448	27	31	20	33	22	21	22	33	27	24	26
G94-1559	37	39	36	43	27	31	20	39	37	30	35
G92-1110	37	41	38	44	33	38	25	41	39	33	37
G94-1223	32	33	25	34	25	29	17	35	29	27	29
AU92-763	32	33	29	33	23	27	17	37	33	28	30
OK89-5606	30	37	33	36	23	32	19	42	30	27	32
SC93-2679	37	43	37	39	28	34	18	43	40	30	36
SC94-1075	34	38	33	39	26	38	20	43	36	29	34
SC94-1547	34	42	38	39	26	36	17	42	36	30	35
TN93-142	31	35	30	33	23	33	20	35	34	30	31
N94-552	36	39	35	43	30	28	17	48	36	25	34
N95-723	29	32	25	34	28	26	23	37	31	25	29
N95-621	27	31	20	38	26	24	18	37	25	21	27

†Not included in Mean

TABLE 40 - Continued**DELTA**

STRAIN/ VARIETY	PORTAGEVILLE	STONEVILLE	MEAN
	MO(A)	MS	
DILLON	36	38	37
BOGGS	31	40	36
R93-151	30	38	34
R92-1258	34	42	38
G94-1448	25	32	29
G94-1559	35	46	41
G92-1110	36	48	42
G94-1223	28	34	31
AU92-763	31	34	33
OK89-5606	32	34	33
SC93-2679	40	40	40
SC94-1075	38	40	39
SC94-1547	38	44	41
TN93-142	31	42	37
N94-552	39	48	44
N95-723	30	32	31
N95-621	29	32	31

TABLE 40 - Continued

WEST

STRAIN/ VARIETY	BIXBY	STUTTGART	MEAN
	OK	AR	
DILLON	26	17	21
BOGGS	25	24	25
R93-151	25	30	28
R92-1258	27	23	25
G94-1448	26	27	27
G94-1559	33	30	32
G92-1110	35	22	28
G94-1223	31	27	29
AU92-763	23	21	22
OK89-5606	26	29	27
SC93-2679	33	19	26
SC94-1075	32	20	26
SC94-1547	32	19	26
TN93-142	31	31	31
N94-552	35	27	31
N95-723	31	17	24
N95-621	30	19	24

**TABLE 41 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VI,
1998****EAST**

STRAIN/ VARIETY	FLORENCE	PLYMOUTH	WARSAW	MEAN
	SC	NC	VA	
DILLON	1	3	2	2
BOGGS	1	3	2	2
R93-151	1	2	1	1
R92-1258	1	3	1	2
G94-1448	1	2	1	1
G94-1559	1	3	1	2
G92-1110	1	3	1	2
G94-1223	1	3	1	2
AU92-763	1	3	1	2
OK89-5606	1	2	1	1
SC93-2679	1	3	1	2
SC94-1075	1	3	1	2
SC94-1547	1	3	1	2
TN93-142	1	3	1	2
N94-552	1	3	1	2
N95-723	1	3	1	2
N95-621	1	2	1	1

TABLE 41 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	BLACKVILLE SC	CALHOUN GA	CLEMSON† SC	JAY FL	SUFFOLK VA	TALLASSEE AL	TIFTON GA	MEAN
DILLON	2	1	1	1	1	2	2	1	1	1
BOGGS	4	1	3	1	1	2	3	1	2	2
R93-151	2	1	1	1	1	2	2	1	1	1
R92-1258	2	1	1	1	1	1	2	1	1	1
G94-1448	2	1	1	1	1	2	2	1	1	1
G94-1559	3	1	2	1	1	1	3	1	1	2
G92-1110	3	1	3	1	1	1	3	1	2	2
G94-1223	2	1	1	1	1	1	3	1	1	1
AU92-763	2	1	1	1	1	1	3	1	1	1
OK89-5606	2	1	2	1	1	1	2	1	1	1
SC93-2679	3	1	1	1	1	1	3	1	1	2
SC94-1075	3	1	1	1	1	2	3	1	2	2
SC94-1547	3	1	2	1	1	1	3	1	1	2
TN93-142	2	1	1	1	1	2	2	1	1	1
N94-552	3	1	2	1	1	1	3	1	1	2
N95-723	3	1	1	1	1	1	2	1	1	1
N95-621	2	1	1	1	1	1	3	1	1	1

†Not included in Mean

TABLE 41 - Continued

DELTA

STRAIN/ VARIETY	DELTA		MEAN
	PORTAGEVILLE MO(A)	STONEVILLE MS	
DILLON	2	2	2
BOGGS	3	2	3
R93-151	1	2	2
R92-1258	1	2	2
G94-1448	1	2	2
G94-1559	2	2	2
G92-1110	2	3	3
G94-1223	2	2	2
AU92-763	1	2	2
OK89-5606	1	2	2
SC93-2679	2	3	3
SC94-1075	1	2	2
SC94-1547	2	3	3
TN93-142	1	2	2
N94-552	3	4	4
N95-723	1	3	2
N95-621	1	2	2

TABLE 41 - Continued

STRAIN/ VARIETY	WEST	
	STUTTGART	AR
DILLON	1	
BOGGS	1	
R93-151	1	
R92-1258	1	
G94-1448	1	
G94-1559	1	
G92-1110	1	
G94-1223	1	
AU92-763	1	
OK89-5606	1	
SC93-2679	1	
SC94-1075	1	
SC94-1547	1	
TN93-142	1	
N94-552	1	
N95-723	1	
N95-621	1	

TABLE 42 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VI, 1998

STRAIN/ VARIETY	EAST		MEAN
	PLYMOUTH NC	WARSAW VA	
DI LLON	2	2	2
BOGGS	2	2	2
R93-151	2	3	3
R92-1258	2	3	2
G94-1448	2	2	2
G94-1559	2	2	2
G92-1110	2	2	2
G94-1223	2	2	2
AU92-763	2	2	2
OK89-5606	2	3	3
SC93-2679	2	2	2
SC94-1075	2	2	2
SC94-1547	2	2	2
TN93-142	2	3	3
N94-552	2	2	2
N95-723	2	2	2
N95-621	2	3	3

TABLE 42 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BELLE MINA AL	CALHOUN GA	FAIRHOPE AL	JAY FL	SUFFOLK VA	TALLASSEE AL	TIFTON GA	MEAN
DILLON	2	1	2	3	3	1	1	2	2
BOGGS	2	1	2	2	3	1	1	2	2
R93-151	2	1	2	3	3	1	1	2	2
R92-1258	2	1	2	3	4	1	1	2	2
G94-1448	2	1	3	3	3	1	1	2	2
G94-1559	2	1	2	2	3	1	1	1	2
G92-1110	2	1	2	2	3	1	1	1	2
G94-1223	2	1	3	3	4	1	1	2	2
AU92-763	2	1	3	2	4	1	1	1	2
OK89-5606	2	1	3	3	3	1	2	3	2
SC93-2679	2	1	2	2	3	1	1	1	2
SC94-1075	2	1	2	2	3	1	1	1	2
SC94-1547	2	1	2	2	3	1	1	1	2
TN93-142	2	1	2	3	3	1	3	1	2
N94-552	2	1	2	1	3	1	1	1	2
N95-723	2	1	3	4	3	1	2	2	2
N95-621	2	1	3	3	3	1	2	2	2

TABLE 42 - Continued

DELTA

STRAIN/ VARIETY	PINE TREE†		PORTAGEVILLE	MEAN
	AR		MO (A)	
DILLON	2		2	2
BOGGS	2		2	2
R93-151	3		2	2
R92-1258	2		2	2
G94-1448	2		2	2
G94-1559	2		2	2
G92-1110	2		2	2
G94-1223	2		1	1
AU92-763	2		2	2
OK89-5606	3		2	2
SC93-2679	2		2	2
SC94-1075	2		2	2
SC94-1547	3		2	2
TN93-142	2		2	2
N94-552	2		2	2
N95-723	3		2	2
N95-621	3		2	2

†Not included in Mean

PRELIMINARY GROUP VI

1998

Preliminary Group VI nurseries were planted at 9 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 43. Table 44 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 45 - 51.

TABLE 43 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI, 1998

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. DILLON	CENTENNIAL X YOUNG	F5
2. BOGGS	G81-152 X COKER 6738	F6
3. R95-2176	MANOKIN X ASG A6297	
4. R95-2413	ASG A6297 X ASG A5403	
5. R95-291	HUTCHESON X STONEWALL	
6. G94-1572	G86-1434 X G85-373	F5
7. G94-1765	G86-1434 X G85-373	F5
8. G94-1252	G86-1434 X DOLES	F5
9. G94-1562	G86-1434 X G85-373	F5
10. G94-1238	G86-1434 X DOLES	F5
11. AU94-415	DILLON X N85-492	F6
12. AU94-507	DILLON X N85-492	F6
13. AU95-126	V87-396 X N86-491	F6
14. AU95-396	V87-396 X N86-7682	F6
15. AU94-445	DILLON X N85-492	F6
16. VS95-81	PI 159319 X ESSEX(2) X L760132 X ESSEX(2)	F6
17. VS95-103	PI 159319 X ESSEX(2) X L760132 X ESSEX(2)	F6
18. VS95-154	PI 159319 X ESSEX(2) X PI 96089 X ESSEX(2)	F6
19. VS95-157	PI 159319 X ESSEX(2) X PI 96089 X ESSEX(2)	F6
20. OK92-6524	MILES X LEE 74	
21. OK93-5907	SOHOMA X FORREST	
22. N96-7083	N90-7199 X N90-7241	F4
23. N96-6800	N90-7202 X N90-7199	F4
24. N96-7165	HOLLADAY X N91-8006	F4
25. N96-6809	N90-7202 X N90-7199	F4
26. N96-6619	PROLINA X EBHPR91-42	F4
27. SC95-1070	S83-30 X MANOKIN	F5
28. SC95-1115	S83-30 X MANOKIN	F5
29. SC95-1188	S83-30 X MANOKIN	F5
30. SC95-1421	COOK X MANOKIN	F5
31. V94-1793	V86-610 X HUTCHESON	
32. N96-340	BRIM X SHARKEY	F6
33. N96-223	N87-539 X D87-4434	F6
34. N96-509	N85-492 X PROLINA	F6
35. N96-349	BRIM X SHARKEY	F6
36. N96-6723	TCPR92-64 X TCPR92-5	F4

TABLE 44 - GENERAL SUMMARY OF PERFORMANCE AND PEST REACTION OF STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1998 - MEAN OF 7 LOCATIONS

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	---PERCENT---		STEM CANKER	SCN 3	SCN 14	M. i. TN	M. a. TN
							PROTEIN	OIL					
DILLON	43.5	10/11	2	32	2	14.0	40.8	20.9	S	4.4	4.6	1.5	3.2
BOGGS	47.9	4+	2	32	2	13.7	41.9	20.3	R	1.0	4.4	1.3	1.0
R95-2176	44.1	2+	2	30	2	12.8	40.5	20.5	R	1.2	4.7	3.7	2.6
R95-2413	45.6	4+	2	37	2	14.0	41.0	20.8	R	1.0	2.0	4.2	3.0
R95-291	40.9	3+	2	30	2	14.4	41.1	21.0	R	4.0	4.7	4.0	3.2
G94-1572	46.0	6+	2	40	2	13.0	41.0	20.2	R	1.1	4.9	1.8	1.4
G94-1765	43.5	6+	2	36	2	13.2	42.0	19.5-	S	1.0	4.8	2.2	1.2
G94-1252	42.2	1+	2	30	2	12.0	41.8	19.4-	S	1.0	5.0	1.8	2.8
G94-1562	41.9	5+	2	34	2	11.9	39.3	20.8	S	1.0	5.0	1.4	1.3
G94-1238	43.5	5+	2	33	2	12.2	42.0	19.8	S	1.0	5.0	1.0	1.2
AU94-415	42.7	1+	2	29	2	13.5	38.9-	21.3	S	4.9	4.9	3.0	2.8
AU94-507	46.2	2+	2	31	2	14.9	40.9	20.7	S	4.7	5.0	1.3	2.8
AU95-126	42.7	1-	2	27	2	15.3	39.2	20.9	S	1.0	5.0	1.5	3.5
AU95-396	42.7	1+	2	27	2	14.0	41.4	20.8	S	4.3	4.8	4.3	2.0
AU94-445	43.7	1+	2	32	2	12.9	38.2-	21.3	S	5.0	5.0	1.6	3.8
VS95-81	37.8-	3+	2	34	2	11.9	41.1	20.2	S	4.3	5.0	3.4	3.5
VS95-103	40.8	5+	2	30	2	12.4	41.9	18.9-	S	4.1	5.0	3.5	3.4
VS95-154	38.2-	6+	2	32	2	11.8	43.2+	18.6-	R	2.9	5.0	4.0	3.6
VS95-157	38.1-	5+	2	28	2	13.4	41.6	19.7-	R	2.6	4.7	3.2	3.3
OK92-6524	38.9	4+	2	30	2	12.8	42.4	19.8	S	1.6	2.5	1.5	1.5
OK93-5907	38.3-	3-	2	28	2	12.5	41.6	20.9	S	1.3	4.5	3.0	3.3
N96-7083	40.3	11+	2	30	2	13.3	40.3	20.7	R	3.6	5.0	4.5	3.3
N96-6800	41.7	2+	2	28	2	13.5	40.1	20.5	S	3.3	4.9	4.3	3.8
N96-7165	41.9	4+	2	30	2	12.1	40.6	20.2	S	4.3	4.7	3.8	3.6
N96-6809	40.8	9+	3	30	2	12.6	39.7	20.7	S	4.6	4.1	4.0	3.5
N96-6619	41.4	2+	2	27	2	11.2	44.3+	17.8-	S	4.9	4.8	4.6	3.8
SC95-1070	44.2	6+	2	36	2	12.9	40.4	20.4	R	1.0	3.4	1.5	1.0
SC95-1115	43.3	1+	2	33	2	14.1	40.5	20.3	R	1.0	4.2	1.7	2.3
SC95-1188	42.5	2+	2	35	2	12.3	41.8	19.2-	R	1.0	4.6	1.7	3.0
SC95-1421	47.8	6+	2	34	2	12.6	40.1	20.5	R	2.6	4.1	3.7	2.6
V94-1793	44.7	2+	2	31	2	14.2	42.0	20.6	R	4.2	4.0	4.3	3.7
N96-340	42.0	3+	2	37	2	14.2	41.6	20.0	R	4.7	4.7	3.7	4.0
N96-223	40.1	6+	2	34	2	13.1	41.4	19.4-	S	1.0	4.1	1.2	1.8
N96-509	42.4	1+	2	34	2	15.0	42.4	20.9	S	4.5	4.0	3.8	3.8
N96-349	42.1	4+	3	46	2	13.9	41.7	19.2-	R	4.7	4.1	4.3	3.5
N96-6723	36.4-	5+	2	33	2	18.4	41.2	20.4	S	4.4	4.6	3.3	3.2
OVERALL MEAN	42.2						41.1	20.2					
L. S. D. (.05)	4.8						1.7	1.1					
C. V.	11%						3%	4%					

TABLE 45 - SEED YIELD IN BUSHELS PER ACRE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1998

STRAIN/ VARIETY	ATHENS GA	BI XBY OK	CLEMSON SC	JAY† FL	PETERSBURG† VA	PLYMOUTH NC	STONEVILLE MS	STUTT GART AR	TALLASSEE AL	MEAN
DILLON	54.1	25.5	30.7	24.0	23.2	47.6	37.2	62.4	46.7	43.5
BOGGS	54.1	35.1+	39.5	24.0	23.2	52.7+	32.6	67.7	53.3	47.9
R95-2176	55.6	26.5	26.6	15.0	20.9	49.6	36.4	60.5	53.2	44.1
R95-2413	54.3	33.1+	38.1	14.0	26.0	43.3	37.4	68.4	44.6	45.6
R95-291	42.4-	30.4+	32.3	24.5	22.8	46.2	32.3	60.9	42.1	40.9
G94-1572	55.6	34.7+	43.4	24.0	29.9	48.9	27.7-	66.9	44.5	46.0
G94-1765	55.0	35.9+	32.2	19.0	21.1	50.7	21.6-	57.1	52.3	43.5
G94-1252	47.8	30.5+	34.4	18.0	20.4	48.1	29.1-	62.0	43.4	42.2
G94-1562	50.1	29.9	30.7	32.5	21.9	48.8	26.9-	58.2	48.5	41.9
G94-1238	55.1	34.6+	41.7	19.5	36.2+	48.2	32.1	47.6-	45.2	43.5
AU94-415	53.2	25.8	34.2	15.0	23.0	41.0-	36.2	60.1	48.2	42.7
AU94-507	61.3	28.0	30.8	19.0	22.8	46.3	39.9	66.2	50.5	46.2
AU95-126	49.8	28.9	35.8	13.5	14.2	41.5-	33.8	59.3	49.7	42.7
AU95-396	51.8	27.3	38.4	13.5	8.7-	46.8	39.2	53.7	41.5	42.7
AU94-445	55.5	29.1	38.9	.	15.5	46.1	39.7	47.2-	49.6	43.7
VS95-81	47.9	26.0	25.1	21.5	10.5-	40.8-	25.6-	62.8	36.2-	37.8-
VS95-103	50.8	26.8	41.6	23.0	11.4-	42.9	26.1-	52.5	45.2	40.8
VS95-154	50.2	22.4	31.9	19.5	8.9-	44.5	20.0-	58.2	40.1	38.2-
VS95-157	48.4	26.3	34.2	19.0	7.8-	37.8-	26.0-	52.9	41.3	38.1-
OK92-6524	43.3-	27.1	27.8	29.5	25.7	44.7	32.6	54.0	42.6	38.9
OK93-5907	33.1-	20.3-	28.8	24.5	13.9	40.2-	38.7	64.6	42.3	38.3-
N96-7083	53.2	28.5	39.1	24.5	15.7	43.4	18.6-	63.1	36.2-	40.3
N96-6800	52.8	24.7	38.1	32.0	14.6	45.7	31.2	55.6	43.6	41.7
N96-7165	47.1	31.5+	36.0	24.0	24.8	48.7	31.3	59.3	39.7	41.9
N96-6809	52.7	28.2	36.8	30.0	18.6	43.0	25.6-	53.3	46.3	40.8
N96-6619	49.6	24.3	38.8	19.0	14.5	39.2-	31.1	60.8	46.2	41.4
SC95-1070	60.2	30.5+	31.9	29.5	34.1	51.3	33.7	50.2-	51.3	44.2
SC95-1115	50.6	31.2+	37.3	22.5	23.6	45.5	30.0	60.8	48.1	43.3
SC95-1188	52.8	32.1+	33.4	25.0	25.7	40.3-	31.7	58.6	48.3	42.5
SC95-1421	62.5	34.6+	43.1	30.0	25.3	48.1	34.8	66.2	45.7	47.8
V94-1793	57.2	31.5+	29.7	24.0	12.2	46.8	44.6	57.8	45.2	44.7
N96-340	58.5	28.6	29.3	32.0	22.7	44.1	37.9	57.0	38.7	42.0
N96-223	48.7	29.7	30.5	24.5	27.8	43.1	26.4-	60.9	41.4	40.1
N96-509	46.2	30.7+	39.7	21.5	20.4	41.3-	34.1	61.2	43.4	42.4
N96-349	42.9-	29.5	34.9	30.0	19.8	47.5	34.0	64.6	41.5	42.1
N96-6723	44.1-	15.4-	37.5	10.0-	32.5	40.9-	26.1-	53.2	37.9	36.4-
L. S. D. (0.05)	8.9	4.4	12.8	11.9	11.4	4.8	8.0	10.7	10.2	4.8
C. V. (%)	8.6	9.4	18.1	25.8	27.2	5.2	12.2	7.7	13.5	10.7

†Not included in Mean

TABLE 46 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1998

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	JAY† FL	PETERSBURG† VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
DILLON	20.4	21.6	21.9	20.6	21.4	20.5	20.8	20.9
BOGGS	20.0	21.3	21.2	20.7	19.2	20.5	20.7	20.3
R95-2176	20.7	22.2	22.6	21.6	20.2	18.1	21.4	20.5
R95-2413	20.6	21.7	23.3	21.5	20.4	19.8	21.5	20.8
R95-291	21.4	22.2	22.0	21.6	20.2	19.4	21.7	21.0
G94-1572	20.2	22.0	20.8	22.3	18.9	19.9	20.1	20.2
G94-1765	19.3	21.0	20.9	20.9	19.4	18.6	19.4	19.5
G94-1252	19.8	21.7	21.3	20.9	19.2	16.1	20.1	19.4
G94-1562	19.3	22.6	21.5	20.2	19.4	22.0	20.9	20.8
G94-1238	19.4	21.7	21.5	20.5	19.5	18.7	19.8	19.8
AU94-415	21.1	22.9	22.2	22.2	20.6	19.9	22.0	21.3
AU94-507	20.7	21.4	22.5	22.2	20.4	18.9	21.9	20.7
AU95-126	21.0	22.9	22.2	21.0	18.9	20.0	21.9	20.9
AU95-396	20.5	21.7	22.1	21.7	20.4	20.0	21.6	20.8
AU94-445	21.5	23.4	.	20.8	21.1	17.5	23.0	21.3
VS95-81	20.1	20.9	21.4	19.7	19.4	20.2	20.3	20.2
VS95-103	18.8	20.3	20.8	20.3	17.7	17.9	19.9	18.9
VS95-154	17.6	19.5	19.9	17.7	18.0	20.1	17.6	18.6
VS95-157	20.0	21.7	21.2	19.7	19.1	17.8	20.1	19.7
OK92-6524	18.8	21.3	21.7	19.3	19.8	19.7	19.5	19.8
OK93-5907	21.5	21.7	22.5	21.2	20.6	19.1	21.8	20.9
N96-7083	20.2	21.7	21.4	20.2	19.8	20.3	21.4	20.7
N96-6800	20.3	20.4	22.2	20.8	19.9	22.3	19.8	20.5
N96-7165	19.8	22.2	21.8	20.0	19.0	19.0	21.2	20.2
N96-6809	20.7	22.6	22.2	20.1	20.2	18.9	21.3	20.7
N96-6619	17.0	19.4	19.2	17.3	17.2	16.9	18.3	17.8
SC95-1070	20.8	21.4	21.6	21.9	19.7	18.2	21.9	20.4
SC95-1115	20.0	21.6	20.7	21.2	19.7	19.3	21.0	20.3
SC95-1188	18.7	21.7	20.8	20.4	17.9	18.1	19.8	19.2
SC95-1421	20.1	22.2	21.7	20.5	18.5	21.2	20.4	20.5
V94-1793	20.5	22.1	22.6	21.0	20.4	19.4	20.8	20.6
N96-340	19.2	21.4	21.9	20.0	18.5	19.5	21.2	20.0
N96-223	18.3	20.4	20.8	19.4	18.5	20.3	19.6	19.4
N96-509	20.7	22.4	22.3	21.1	19.7	20.7	20.9	20.9
N96-349	18.0	19.7	22.0	18.9	17.8	20.5	19.8	19.2
N96-6723	20.5	22.1	21.9	20.1	20.7	18.2	20.7	20.4

†Not included in Mean

TABLE 47 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1998

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	JAY† FL	PETERSBURG† VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
DILLON	40.9	38.1	42.7	41.8	40.9	40.9	43.2	40.8
BOGGS	42.0	38.6	43.8	43.1	42.0	43.4	43.7	41.9
R95-2176	39.2	36.9	40.1	40.3	40.2	44.7	41.6	40.5
R95-2413	41.1	38.9	42.9	41.3	40.8	41.9	42.3	41.0
R95-291	40.1	38.4	41.4	41.3	42.6	41.4	43.2	41.1
G94-1572	40.9	35.7	43.2	39.7	42.6	42.1	43.9	41.0
G94-1765	42.1	38.1	41.7	40.5	41.5	44.0	44.5	42.0
G94-1252	41.5	37.1	42.1	41.3	41.2	45.5	43.9	41.8
G94-1562	42.4	33.9	42.1	41.0	41.5	36.5	42.4	39.3
G94-1238	42.9	37.9	42.6	42.3	42.0	43.0	44.2	42.0
AU94-415	39.3	35.6	41.9	39.4	39.9	38.1	41.5	38.9
AU94-507	40.7	37.9	40.8	39.8	40.0	44.1	41.9	40.9
AU95-126	39.0	34.0	42.0	40.1	39.9	42.1	41.0	39.2
AU95-396	42.1	39.0	42.7	39.0	41.0	41.8	42.9	41.4
AU94-445	37.7	33.2	.	41.3	38.0	43.5	38.7	38.2
VS95-81	41.7	39.3	42.7	43.3	41.3	40.7	42.7	41.1
VS95-103	42.5	37.9	42.5	42.6	42.8	42.9	43.3	41.9
VS95-154	44.1	41.1	43.7	45.2	43.8	40.9	46.0	43.2
VS95-157	41.6	37.8	42.7	43.4	42.0	44.4	42.1	41.6
OK92-6524	43.5	39.5	41.8	43.4	42.0	41.8	45.0	42.4
OK93-5907	40.4	39.1	40.8	41.5	39.8	43.6	45.0	41.6
N96-7083	41.6	36.6	41.4	40.7	41.6	41.1	40.7	40.3
N96-6800	40.3	39.1	41.5	40.6	40.4	37.7	43.2	40.1
N96-7165	40.9	36.6	41.5	41.4	40.9	43.8	40.6	40.6
N96-6809	39.4	34.6	40.0	40.6	39.6	44.3	40.7	39.7
N96-6619	44.5	40.9	44.0	46.3	44.7	44.5	46.7	44.3
SC95-1070	39.5	36.8	41.6	38.9	39.7	44.9	40.9	40.4
SC95-1115	40.5	36.1	43.0	41.0	39.9	43.9	42.1	40.5
SC95-1188	42.1	37.4	44.2	41.8	42.4	43.2	44.1	41.8
SC95-1421	39.9	36.0	41.9	40.7	41.2	41.3	42.3	40.1
V94-1793	41.1	38.8	42.7	41.1	40.5	44.9	44.6	42.0
N96-340	43.2	37.6	41.6	41.7	42.2	42.8	42.4	41.6
N96-223	43.1	39.0	42.4	40.9	41.7	41.4	42.0	41.4
N96-509	42.6	39.8	42.6	43.9	42.8	41.5	45.4	42.4
N96-349	42.3	39.9	41.4	41.3	42.2	41.1	43.0	41.7
N96-6723	41.2	37.8	42.7	42.2	41.3	43.0	42.8	41.2

†Not included in Mean

TABLE 48 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1998

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	CLEMSON SC	JAY† FL	PETERSBURG† VA	PLYMOUTH NC	STONEVILLE MS	TALLASSEE AL	MEAN
DILLON	14.6	16.2	15.4	13.8	12	14.4	9.7	13.6	14.0
BOGGS	12.8	15.8	14.6	12.2	12	13.9	13.1	12.0	13.7
R95-2176	12.8	15.1	14.2	11.3	11	12.9	9.4	12.5	12.8
R95-2413	14.4	17.1	16.2	9.5	13	13.8	9.8	12.9	14.0
R95-291	14.3	17.4	16.2	13.2	14	16.0	9.4	13.2	14.4
G94-1572	12.7	14.7	13.5	11.5	11	13.2	12.3	11.8	13.0
G94-1765	12.5	14.8	15.2	12.2	10	13.6	10.9	12.2	13.2
G94-1252	12.1	15.4	13.4	11.9	10	12.7	6.4	12.0	12.0
G94-1562	11.0	13.0	11.4	10.8	10	12.6	11.8	11.3	11.9
G94-1238	12.1	14.0	13.5	10.9	12	13.1	10.0	10.2	12.2
AU94-415	12.8	16.1	15.2	12.0	12	12.2	12.6	11.9	13.5
AU94-507	14.5	16.5	17.3	11.5	13	15.1	11.4	14.4	14.9
AU95-126	15.6	17.3	13.3	12.4	13	15.8	13.0	16.5	15.3
AU95-396	13.7	16.3	15.0	11.0	10	13.9	12.1	12.8	14.0
AU94-445	13.2	14.6	15.5	.	10	12.5	9.7	11.7	12.9
VS95-81	12.5	13.2	11.7	11.6	10	11.9	10.3	11.7	11.9
VS95-103	12.7	14.3	13.9	10.9	10	12.7	9.1	11.8	12.4
VS95-154	12.2	13.9	13.0	11.3	8	10.8	10.7	9.9	11.8
VS95-157	13.5	16.0	15.0	11.1	9	12.7	9.8	13.2	13.4
OK92-6524	12.0	15.5	13.0	17.4	12	13.9	11.1	11.3	12.8
OK93-5907	13.2	14.9	11.5	15.1	10	12.9	9.2	13.6	12.5
N96-7083	14.8	13.7	15.1	11.5	12	13.8	11.0	11.3	13.3
N96-6800	14.7	14.2	14.6	12.5	11	14.0	11.1	12.3	13.5
N96-7165	11.4	13.5	13.8	11.8	10	12.6	9.6	11.4	12.1
N96-6809	13.6	13.9	13.3	10.9	10	12.7	10.3	11.9	12.6
N96-6619	10.5	13.7	12.4	11.2	11	10.7	9.3	10.7	11.2
SC95-1070	13.7	15.7	12.6	11.6	13	14.2	9.2	12.1	12.9
SC95-1115	12.4	15.9	14.1	10.4	11	13.3	16.2	12.5	14.1
SC95-1188	11.7	15.2	14.0	15.6	10	12.1	9.5	11.4	12.3
SC95-1421	13.1	15.0	12.4	10.8	11	12.8	11.5	11.1	12.6
V94-1793	15.0	15.3	15.4	11.8	11	13.0	13.3	13.4	14.2
N96-340	14.0	15.6	16.3	15.2	12	16.4	10.5	12.6	14.2
N96-223	13.0	15.1	16.2	10.6	11	13.4	10.1	10.8	13.1
N96-509	15.1	17.5	14.6	11.9	13	15.7	11.9	15.1	15.0
N96-349	14.9	14.0	16.2	12.5	11	15.1	11.5	11.8	13.9
N96-6723	20.3	22.6	20.5	12.3	17	21.1	8.8	17.3	18.4

TABLE 49 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1998

STRAIN/ VARIETY	ATHENS GA	BIXBY OK	CLEMSON SC	JAY† FL	PETERSBURG† VA	PLYMOUTH NC	STONEVILLE MS	STUTTGART AR	TALLASSEE AL	MEAN
DILLON	25	29	30	19	19	37	42	28	35	32
BOGGS	29	30	30	17	15	35	40	24	34	32
R95-2176	27	26	27	13	17	37	44	20	29	30
R95-2413	33	32	37	20	17	39	46	29	41	37
R95-291	24	26	23	18	19	40	36	29	30	30
G94-1572	34	37	41	19	22	48	44	35	40	40
G94-1765	35	36	31	18	19	43	48	24	38	36
G94-1252	25	29	28	16	16	36	40	20	35	30
G94-1562	29	30	32	15	18	43	44	20	38	34
G94-1238	28	32	30	18	15	38	44	26	36	33
AU94-415	25	29	25	16	19	30	42	20	30	29
AU94-507	29	29	28	19	16	35	42	23	32	31
AU95-126	23	26	28	13	13	37	32	20	25	27
AU95-396	23	27	21	12	14	33	34	25	27	27
AU94-445	25	32	30	.	17	34	40	28	35	32
VS95-81	31	32	31	18	18	43	40	26	35	34
VS95-103	25	30	32	17	15	35	42	18	32	30
VS95-154	31	29	29	14	16	34	44	27	33	32
VS95-157	24	25	27	14	17	32	36	22	29	28
OK92-6524	27	26	26	15	20	38	44	18	31	30
OK93-5907	20	25	24	14	15	31	40	26	27	28
N96-7083	29	27	29	20	21	39	40	16	33	30
N96-6800	24	28	22	18	16	34	32	26	29	28
N96-7165	27	33	31	22	16	40	32	17	33	30
N96-6809	29	31	31	23	19	35	34	24	30	30
N96-6619	25	25	29	16	15	31	30	27	24	27
SC95-1070	33	35	28	18	21	44	46	26	39	36
SC95-1115	29	30	27	23	14	36	46	27	34	33
SC95-1188	28	35	31	15	18	38	48	23	39	35
SC95-1421	36	33	35	22	16	43	44	14	36	34
V94-1793	26	27	25	15	17	34	42	31	30	31
N96-340	33	36	30	21	17	43	54	20	41	37
N96-223	31	31	29	23	20	39	44	25	37	34
N96-509	29	31	34	14	14	39	48	25	32	34
N96-349	38	39	43	27	24	50	54	50	49	46
N96-6723	25	31	34	13	14	40	46	25	33	33

†Not included in Mean

TABLE 50 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1998

STRAIN/ VARIETY	ATHENS GA	CLEMSON SC	JAY† FL	PETERSBURG† VA	PLYMOUTH NC	STONEVILLE MS	STUTTGART AL	TALLASSEE AL	MEAN
DILLON	2	1	2	1	3	2	1	1	2
BOGGS	3	2	2	1	3	3	2	1	2
R95-2176	3	1	1	1	3	4	1	1	2
R95-2413	2	1	1	1	3	3	1	1	2
R95-291	2	1	1	1	3	3	1	1	2
G94-1572	3	3	2	1	3	3	1	1	2
G94-1765	3	2	2	1	3	3	1	1	2
G94-1252	2	1	2	1	3	3	1	1	2
G94-1562	2	1	1	1	3	3	1	1	2
G94-1238	2	1	2	1	3	2	2	1	2
AU94-415	2	1	1	1	3	3	1	1	2
AU94-507	2	1	1	1	3	3	1	1	2
AU95-126	2	1	1	1	3	2	1	1	2
AU95-396	2	1	1	1	3	2	1	1	2
AU94-445	2	2	.	1	3	3	1	1	2
VS95-81	3	2	1	1	3	4	1	1	2
VS95-103	2	1	1	1	3	3	1	1	2
VS95-154	2	2	1	1	3	4	1	1	2
VS95-157	2	1	1	1	3	4	1	1	2
OK92-6524	2	1	1	2	3	4	1	1	2
OK93-5907	2	1	1	1	3	3	1	1	2
N96-7083	2	1	2	2	3	5	1	1	2
N96-6800	2	2	1	1	3	3	1	1	2
N96-7165	2	1	1	1	3	3	1	1	2
N96-6809	3	3	2	2	3	5	1	1	3
N96-6619	2	1	1	1	3	2	1	1	2
SC95-1070	3	2	1	1	3	3	1	2	2
SC95-1115	2	1	1	1	3	4	1	1	2
SC95-1188	2	1	1	1	3	3	2	1	2
SC95-1421	3	2	1	1	3	3	1	1	2
V94-1793	2	1	1	1	3	2	1	1	2
N96-340	3	2	1	1	3	5	1	1	2
N96-223	2	1	1	1	3	4	1	1	2
N96-509	2	2	1	1	3	3	1	1	2
N96-349	3	3	2	2	4	5	1	1	3
N96-6723	2	1	1	1	3	4	1	1	2

†Not included in Mean

TABLE 51 - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VI, 1998

STRAIN/ VARIETY	ATHENS GA	JAY† FL	PETERSBURG† VA	PLYMOUTH NC	TALLASSEE AL	MEAN
DILLON	2	2	3	2	1	2
BOGGS	2	2	2	2	1	2
R95-2176	3	3	3	2	2	2
R95-2413	3	4	3	2	2	2
R95-291	2	4	4	2	1	2
G94-1572	2	3	2	2	1	2
G94-1765	2	3	3	2	1	2
G94-1252	2	4	3	2	1	2
G94-1562	3	3	2	2	1	2
G94-1238	2	3	3	2	1	2
AU94-415	2	3	2	2	1	2
AU94-507	2	4	3	2	2	2
AU95-126	3	5	3	2	2	2
AU95-396	2	5	3	2	1	2
AU94-445	2	.	3	2	1	2
VS95-81	2	5	2	2	1	2
VS95-103	2	3	3	2	1	2
VS95-154	2	4	2	2	1	2
VS95-157	2	3	2	2	1	2
OK92-6524	2	3	4	2	2	2
OK93-5907	3	3	3	2	2	2
N96-7083	2	3	2	2	1	2
N96-6800	2	4	2	2	1	2
N96-7165	2	4	2	2	1	2
N96-6809	2	3	2	2	1	2
N96-6619	2	3	2	2	1	2
SC95-1070	2	3	3	2	1	2
SC95-1115	2	3	3	2	1	2
SC95-1188	2	4	2	2	1	2
SC95-1421	2	4	4	2	1	2
V94-1793	2	4	2	2	1	2
N96-340	2	3	3	2	1	2
N96-223	2	4	3	2	1	2
N96-509	2	4	4	2	1	2
N96-349	2	3	1	2	1	2
N96-6723	2	4	3	2	1	2

†Not included in Mean

UNIFORM GROUP VII

1998

Uniform Group VII nurseries were planted at 16 locations. Data were obtained from 12 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,
1998**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	HUTCHESON X COKER 6738	F6
2. HASKELL	JOHNSTON X BRAXTON	F5
3. G93-3034	G83-559 X BRYAN	F7
4. G93-1749	G85-373 X COKER 6727	F5
5. G91-151	COKER 82-622 X BRYAN	F5
6. G92-2381	COKER 82-622 X G83-12	F6
7. AU92-916	N85-574 X HASKELL	F6
8. AU94-2672	STONEWALL X HASKELL	F6
9. N94-7441	NTC90-143 X PEARL	F4
10. SC92-2482	COKER 6847 X HAGOOD	F5
11. SC93-2082	COKER 6738 X G83-198	F5
12. SC94-51	HAGOOD X COKER 6738	F6
13. SC94-1573	S83-30 X BRYAN	F5
14. N93-739	BRIM X N87-2120-3 X BRIM	F6
15. N95-614	N85-492 X N88-480	F6

TABLE 53 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII, 1998

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1998	97-98	96-98	1998	97-98	96-98	1998	97-98	96-98
BENNING	40.8	41.0	42.0	42.8	42.2	42.6	20.1	20.2	20.4
HASKELL	39.5	39.5	41.9	42.6	41.7	42.1	19.9	20.1	20.5
G93-3034	39.6	.	.	44.0	.	.	19.1	.	.
G93-1749	42.1	.	.	43.8	.	.	19.1	.	.
G91-151	41.4	42.0	.	43.0	42.0	.	20.2	20.3	.
G92-2381	42.3	.	.	43.7	.	.	19.0	.	.
AU92-916	39.9	40.3	41.7	42.9	42.4	42.7	20.4	20.5	20.8
AU94-2672	38.4	.	.	43.7	.	.	19.7	.	.
N94-7441	40.6	39.8	.	44.6	44.2	.	17.8	17.4	.
SC92-2482	43.3	42.7	43.4	43.6	42.8	43.3	20.0	20.1	20.3
SC93-2082	42.7	41.8	.	42.8	42.3	.	19.9	20.1	.
SC94-51	40.5	.	.	43.7	.	.	19.5	.	.
SC94-1573	41.8	.	.	41.9	.	.	20.1	.	.
N93-739	39.2	39.2	39.0	43.7	43.0	43.6	20.2	20.2	20.8
N95-614	41.1	.	.	40.8	.	.	22.4	.	.

†Data from Jay, FL, Clemson, SC, Jackson Springs, NC (1998); Tifton, GA (1997) not included in Mean.

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
BENNING	P	10/20	2	36	2	15.3	T	T
HASKELL	P	1-	2	36	2	15.6	T	T
G93-3034	W	2-	2	35	2	12.8	T	T
G93-1749	P	1-	2	35	2	14.2	T	T
G91-151	W	2-	2	33	2	13.6	T	T
G92-2381	W	2-	1	32	2	12.8	G	T
AU92-916	P	1+	2	37	2	17.8	G	T
AU94-2672	P	4-	2	34	3	17.1	T	T
N94-7441	W	2-	1	28	1	8.4	G	T
SC92-2482	W	2+	1	37	2	15.9	G	T
SC93-2082	W	2+	2	36	2	12.9	T	T
SC94-51	W	2+	2	35	2	14.9	G	T
SC94-1573	P	0	2	37	2	14.3	G	T
N93-739	W	2-	1	24	2	14.2	G	BR
N95-614	W	2+	2	34	2	14.2	T	T

TABLE 53 - Continued

PEST REACTIONS

STRAIN/ VARIETY	STEM		SCN		M. i.	M. a.
	CANKER	SMV	3	14	GA	GA
BENNING	R	R	1.3	3.6	1.0	2.8
HASKELL	R	S	4.7	4.2	1.0	2.3
G93-3034	S	S	1.0	4.3	1.0	1.8
G93-1749	R	S	1.2	4.3	1.0	2.0
G91-151	R	R	1.0	4.3	1.0	3.8
G92-2381	R	R	1.1	4.2	1.3	4.3
AU92-916	R	R	4.7	4.0	2.8	3.8
AU94-2672	R	S	4.6	4.3	1.3	4.0
N94-7441	R	S	4.8	3.5	1.0	2.8
SC92-2482	S	R	1.0	4.1	1.0	3.8
SC93-2082	R	H	1.0	4.6	1.0	4.0
SC94-51	R	R	1.0	2.9	1.8	3.3
SC94-1573	R	R	1.0	2.4	1.0	4.0
N93-739	S	H	4.0	3.4	1.8	3.8
N95-614	S	R	4.6	2.9	2.3	4.8

See Methods section for description of ratings scale.

TABLE 54 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1998

STRAIN/ VARIETY	EAST			MEAN
	FLORENCE SC	JACKSON SPRINGS† NC	WHITTEVILLE NC	
BENNING	34.8	42.8	34.1	34.4
HASKELL	27.1	46.0	39.2	33.1
G93-3034	34.2	43.2	32.3	33.2
G93-1749	35.7	38.9	33.7	34.7
G91-151	37.5	36.1	36.2	36.8
G92-2381	33.7	33.3	42.1	37.9
AU92-916	31.6	45.1	39.1	35.3
AU94-2672	32.6	41.2	33.5	33.1
N94-7441	33.7	40.2	33.4	33.5
SC92-2482	36.3	47.8	36.0	36.1
SC93-2082	35.6	44.7	35.9	35.8
SC94-51	32.0	40.2	36.4	34.2
SC94-1573	36.7	42.3	32.1	34.4
N93-739	28.7	36.8	41.1	34.9
N95-614	35.5	48.9	42.4	39.0
L. S. D. (0.05)	3.1	15.7	5.0	.
C. V. (%)	5.4	22.5	8.1	.

†Not included in Mean

TABLE 54 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CALHOUN GA	CLEMSON† SC	FAIRHOPE AL	JAY† FL	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	46.6	43.1	31.3	24.2	45.5	15.7	40.2	27.3	64.2	42.6
HASKELL	44.3	46.7	20.7	33.1	46.0	14.3	43.3	28.4	59.9	41.3
G93-3034	46.4	46.9	27.9	28.1	47.9	14.7	37.6	28.2	55.1	41.4
G93-1749	46.9	48.3	26.0	30.7	50.2	18.7	45.3	33.0	59.7	44.2
G91-151	50.5	46.0	25.4	26.2	47.8	11.3	41.3	30.0	57.9	42.7
G92-2381	50.9	49.2	22.3	24.1	45.3	16.7	44.1	27.9	65.1	43.6
AU92-916	43.7	49.0	27.2	24.0	42.9	13.3	41.8	22.1	62.1	41.3
AU94-2672	37.8	47.4	22.6	23.3	46.0	12.7	39.5	25.7	60.9	40.0
N94-7441	42.5	46.9	22.8	18.5	46.6	16.0	45.6	26.3	67.6	42.6
SC92-2482	52.4	53.2	21.9	26.3	46.2	10.0	43.4	34.7	65.7	45.4
SC93-2082	53.7	49.7	28.9	30.1	38.9	12.0	41.8	34.7	64.8	44.6
SC94-51	46.2	47.5	19.9	23.6	42.5	10.0	39.7	35.8	64.4	42.3
SC94-1573	48.8	50.2	24.7	28.9	42.5	8.7	41.7	34.1	65.5	43.9
N93-739	45.1	44.8	22.3	25.4	45.4	12.7	45.0	19.1	61.3	40.4
N95-614	46.2	50.1	17.0	29.8	45.2	10.0	44.9	25.6	62.9	41.7
L. S. D. (0.05)	5.0	5.0	4.7	9.6	3.0	0.0	6.8	6.2	8.1	.
C. V. (%)	6.4	6.3	11.6	21.7	5.6	39.0	9.6	15.4	7.7	.

†Not included in Mean

TABLE 55 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1998**OIL PERCENTAGES**

STRAIN/ VARIETY	BLACK-				JACKSON†					WHITE-		MEAN	
	ATHENS GA	VILLE SC	CALHOUN GA	CLEMSON† SC	FAIRHOPE AL	FLORENCE SC	SPRINGS NC	JAY† FL	PLAINS GA	TALLASSEE AL	TIFTON GA		VILLE NC
BENNING	21.4	20.0	.	20.9	19.8	19.8	20.2	22.2	21.0	19.3	.	19.2	20.1
HASKELL	20.8	19.7	.	20.3	20.3	19.3	20.0	21.7	20.3	20.5	.	18.6	19.9
G93-3034	19.9	19.5	.	19.4	19.2	18.2	20.2	20.9	20.2	19.2	.	17.8	19.1
G93-1749	20.1	19.4	.	20.9	18.0	19.1	19.8	20.9	20.0	19.1	.	17.9	19.1
G91-151	21.0	20.2	.	20.1	20.2	20.2	20.6	22.1	20.7	19.5	.	19.5	20.2
G92-2381	20.1	19.3	.	20.0	18.6	17.6	19.3	21.1	20.2	18.7	.	18.2	19.0
AU92-916	21.4	20.6	.	20.5	20.4	20.7	20.6	21.5	20.9	20.3	.	18.7	20.4
AU94-2672	20.9	19.4	.	19.9	19.9	19.2	20.7	21.9	20.8	19.2	.	18.7	19.7
N94-7441	18.9	18.1	.	18.8	17.3	16.7	17.6	19.6	18.9	17.8	.	16.8	17.8
SC92-2482	21.0	19.7	.	19.4	19.7	19.6	20.5	21.3	21.0	20.2	.	18.8	20.0
SC93-2082	21.6	20.6	.	18.7	18.6	18.8	20.5	20.7	21.4	20.2	.	18.1	19.9
SC94-51	21.0	19.7	.	21.2	18.5	18.5	19.7	20.5	20.8	18.9	.	19.1	19.5
SC94-1573	21.0	20.7	.	20.4	20.2	19.3	20.3	21.9	21.3	19.9	.	18.6	20.1
N93-739	20.9	19.9	.	20.6	20.6	19.6	20.2	22.5	21.3	19.6	.	19.5	20.2
N95-614	23.4	22.5	.	22.4	21.7	22.5	21.8	21.9	23.1	22.4	.	21.0	22.4

†Not included in Mean

TABLE 55 - Continued.

PROTEIN PERCENTAGES

STRAIN/ VARIETY	BLACK-		JACKSON†								WHITE-		MEAN
	ATHENS GA	VILLE SC	CALHOUN GA	CLEMSON† SC	FAIRHOPE AL	FLORENCE SC	SPRINGS NC	JAY† FL	PLAINS GA	TALLASSEE AL	TIFTON GA	VILLE NC	
BENNING	40.8	43.1	.	39.9	43.3	43.0	42.4	40.3	41.5	45.0	.	43.1	42.8
HASKELL	40.9	43.0	.	39.6	42.7	42.9	40.1	40.9	42.3	44.0	.	42.2	42.6
G93-3034	41.9	43.8	.	39.3	45.8	43.3	39.6	42.5	43.5	45.8	.	44.1	44.0
G93-1749	42.0	43.5	.	39.5	45.7	42.9	40.5	41.1	42.3	45.4	.	44.5	43.8
G91-151	41.6	43.1	.	38.9	44.1	41.8	39.8	41.3	42.7	45.3	.	42.2	43.0
G92-2381	42.5	43.8	.	40.0	44.7	44.5	42.3	41.6	41.9	45.1	.	43.3	43.7
AU92-916	41.5	42.9	.	40.6	43.2	42.7	41.8	40.6	42.6	44.5	.	43.0	42.9
AU94-2672	42.1	44.6	.	41.1	43.8	43.5	41.8	41.4	42.5	46.5	.	43.1	43.7
N94-7441	42.7	44.8	.	42.2	46.1	44.0	43.0	42.2	43.4	45.9	.	45.4	44.6
SC92-2482	41.8	43.9	.	40.3	44.9	42.9	41.0	42.2	43.0	45.6	.	43.2	43.6
SC93-2082	40.1	41.7	.	42.3	44.9	42.9	39.7	43.1	40.8	45.4	.	43.7	42.8
SC94-51	41.6	44.1	.	38.7	45.8	44.2	42.2	42.7	42.3	45.4	.	42.8	43.7
SC94-1573	40.6	41.8	.	38.9	43.1	40.6	40.7	40.8	41.5	44.1	.	41.4	41.9
N93-739	42.4	44.9	.	40.7	44.3	43.4	42.2	41.2	42.3	45.8	.	43.1	43.7
N95-614	38.8	40.9	.	38.1	42.2	41.0	39.6	41.0	39.6	41.9	.	40.9	40.8

†Not included in Mean

TABLE 55 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	BLACK-				JACKSON†						WHITE-		MEAN
	ATHENS GA	VILLE SC	CALHOUN GA	CLEMSON† SC	FAIRHOPE AL	FLORENCE SC	SPRINGS NC	JAY† FL	PLAINS GA	TALLASSEE AL	TIFTON GA	VILLE NC	
BENNING	16.3	19.3	15	19.4	13.5	15.8	17.6	11.5	15.2	14.2	11	17.5	15.3
HASKELL	14.7	19.5	13	17.9	14.0	13.9	17.9	12.3	16.4	14.6	18	16.6	15.6
G93-3034	12.9	14.6	11	15.8	11.9	12.7	15.1	11.2	12.1	11.5	13	15.2	12.8
G93-1749	13.7	17.3	13	14.9	12.6	12.9	15.4	11.2	14.0	12.1	16	16.1	14.2
G91-151	14.0	15.6	13	15.7	11.9	13.4	15.4	11.1	13.4	11.6	14	15.2	13.6
G92-2381	13.0	16.0	11	15.3	11.9	11.7	14.7	9.8	11.9	10.9	15	13.4	12.8
AU92-916	18.4	22.4	11	20.0	18.2	16.4	19.8	13.2	19.9	15.9	20	18.3	17.8
AU94-2672	15.3	21.3	14	20.5	16.7	17.4	19.7	13.2	17.0	15.0	20	17.1	17.1
N94-7441	8.0	9.8	8	9.5	8.0	7.7	8.8	7.8	8.1	7.3	9	10.1	8.4
SC92-2482	16.9	20.2	15	17.4	12.6	14.6	16.2	11.3	15.6	14.1	18	16.0	15.9
SC93-2082	14.5	15.3	13	14.3	10.4	12.7	14.2	9.4	13.6	11.2	12	13.5	12.9
SC94-51	15.5	17.3	17	16.3	12.5	13.2	16.3	10.6	15.7	12.6	15	14.9	14.9
SC94-1573	14.6	16.7	13	15.4	12.4	13.3	15.7	10.6	13.8	12.8	16	15.7	14.3
N93-739	14.1	17.0	12	15.9	13.6	13.7	15.5	11.4	15.1	12.7	15	14.4	14.2
N95-614	14.0	17.6	13	16.5	12.7	15.3	16.2	9.4	13.9	13.3	13	14.9	14.2

†Not included in Mean

TABLE 56 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN BENNING FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1998

SOUTH

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS†	WHITEVILLE	MEAN
	SC	NC	NC	
BENNING	10/23	11/01	10/26	10/25
HASKELL	-2	0	2	-1
G93-3034	0	0	-3	-2
G93-1749	1	0	2	1
G91-151	-1	-4	-3	-3
G92-2381	-2	-3	-3	-3
AU92-916	0	0	2	1
AU94-2672	-2	-6	-7	-5
N94-7441	-1	-4	-3	-3
SC92-2482	1	0	0	0
SC93-2082	2	0	2	2
SC94-51	1	.	0	0
SC94-1573	-1	0	-3	-2
N93-739	0	-6	-3	-2
N95-614	3	0	4	3

†Not included in Mean

TABLE 56 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CALHOUN GA	CLEMSON† SC	FAIRHOPE AL	JAY† FL	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	10/23	10/25	10/17	10/30	10/12	10/08	.	10/15	10/17	10/18
HASKELL	-5	-1	-1	1	1	-5	.	1	0	-1
G93-3034	-1	-2	-1	1	2	9	.	-2	-4	-1
G93-1749	-3	0	-2	0	1	9	.	0	-1	-1
G91-151	-5	-2	-1	-2	0	1	.	-1	-2	-2
G92-2381	-4	-1	-2	-1	-1	-1	.	-2	-1	-2
AU92-916	-2	0	-1	0	5	2	.	2	2	1
AU94-2672	-6	-3	-8	-3	0	-4	.	-2	-4	-4
N94-7441	-3	0	-8	-1	2	3	.	-1	1	-1
SC92-2482	0	2	3	2	2	1	.	4	4	3
SC93-2082	2	2	2	3	2	2	.	5	2	3
SC94-51	1	0	6	1	3	1	.	1	1	2
SC94-1573	-3	1	3	0	1	0	.	0	0	1
N93-739	-6	0	-6	-1	2	0	.	-2	-1	-2
N95-614	2	2	0	2	3	-2	.	2	1	2

†Not included in Mean

TABLE 57 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1998**EAST**

STRAIN/ VARIETY	FLORENCE		JACKSON SPRINGS†		MEAN
	SC		NC		
BENNING	29		24		29
HASKELL	30		24		30
G93-3034	26		22		26
G93-1749	27		17		27
G91-151	27		20		27
G92-2381	27		17		27
AU92-916	32		23		32
AU94-2672	28		21		28
N94-7441	25		19		25
SC92-2482	31		29		31
SC93-2082	28		23		28
SC94-51	27		19		27
SC94-1573	28		22		28
N93-739	20		13		20
N95-614	29		20		29

†Not included in Mean

TABLE 57 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	CALHOUN GA	CLEMSON† SC	FAIRHOPE AL	JAY† FL	PLAINS GA	TALLASSEE AL	TIFTON GA	MEAN
BENNING	40	36	43	26	36	19	37	38	29	37
HASKELL	40	37	42	29	35	21	40	36	32	37
G93-3034	39	33	42	23	37	22	35	34	32	36
G93-1749	38	37	38	26	35	17	38	37	32	36
G91-151	36	33	42	23	32	20	36	31	29	34
G92-2381	37	29	39	25	29	18	34	28	30	32
AU92-916	41	36	44	27	34	21	42	38	32	38
AU94-2672	37	33	43	26	31	21	36	33	28	34
N94-7441	31	30	35	21	22	15	28	31	24	29
SC92-2482	39	35	42	21	40	22	40	35	34	38
SC93-2082	39	33	42	25	35	23	38	38	32	37
SC94-51	38	37	40	24	31	16	37	37	29	36
SC94-1573	39	38	44	23	40	25	38	35	34	38
N93-739	29	22	34	21	19	14	24	24	17	24
N95-614	37	34	42	24	36	20	36	33	29	35

†Not included in Mean

**TABLE 58 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VII,
1998**

EAST

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS†	WHITEVILLE		MEAN
	SC	NC	NC		
BENNING	1	1	4		2
HASKELL	2	3	4		3
G93-3034	1	2	4		3
G93-1749	1	2	4		3
G91-151	1	2	3		2
G92-2381	1	2	3		2
AU92-916	2	2	4		3
AU94-2672	1	2	4		3
N94-7441	1	2	3		2
SC92-2482	1	2	3		2
SC93-2082	1	2	3		2
SC94-51	1	2	3		2
SC94-1573	1	2	3		2
N93-739	1	2	3		2
N95-614	2	2	3		3

†Not included in Mean

SOUTH

STRAIN/ VARIETY	ATHENS	BLACKVILLE	CALHOUN	CLEMSON†	JAY†	PLAINS	TALLASSEE	TIFTON	MEAN
	GA	SC	GA	SC	FL	GA	AL	GA	
BENNING	3	2	1	1	2	2	1	1	2
HASKELL	3	3	1	1	2	3	1	2	2
G93-3034	2	2	1	1	2	2	1	1	1
G93-1749	3	2	1	1	1	2	1	1	2
G91-151	3	1	1	1	1	1	1	1	1
G92-2381	2	1	1	1	1	1	1	1	1
AU92-916	3	3	1	1	1	2	1	1	2
AU94-2672	4	3	1	1	1	3	1	1	2
N94-7441	2	1	1	1	1	1	1	1	1
SC92-2482	2	1	1	1	1	1	1	1	1
SC93-2082	3	1	1	1	2	1	1	1	1
SC94-51	3	2	1	1	2	1	1	1	2
SC94-1573	2	2	1	1	1	2	1	1	2
N93-739	2	1	1	1	1	1	1	1	1
N95-614	3	2	1	1	1	2	1	1	2

†Not included in Mean

TABLE 59 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VII, 1998**EAST**

STRAIN/ VARIETY	JACKSON SPRINGS†		WHITEVILLE		MEAN
	NC		NC		
BENNING	2		3		3
HASKELL	2		3		3
G93-3034	2		2		2
G93-1749	2		3		3
G91-151	2		3		3
G92-2381	2		2		2
AU92-916	2		2		2
AU94-2672	2		3		3
N94-7441	2		2		2
SC92-2482	2		2		2
SC93-2082	2		2		2
SC94-51	2		3		3
SC94-1573	2		2		2
N93-739	2		3		3
N95-614	2		2		2

†Not included in Mean

SOUTH

STRAIN/ VARIETY	ATHENS	CALHOUN	FAIRHOPE	JAY†	PLAINS	TALLASSEE	TIFTON	MEAN
	GA	GA	AL	FL	GA	AL	GA	
BENNING	2	2	1	2	2	2	1	2
HASKELL	2	2	2	3	2	1	1	2
G93-3034	2	2	2	3	2	1	1	2
G93-1749	2	2	3	2	2	2	1	2
G91-151	2	1	2	3	2	1	1	2
G92-2381	2	2	1	4	2	1	1	2
AU92-916	2	2	1	2	2	2	1	2
AU94-2672	2	3	3	2	3	2	2	2
N94-7441	2	1	1	3	2	1	1	1
SC92-2482	2	3	2	4	2	2	1	2
SC93-2082	2	2	2	3	2	1	1	2
SC94-51	2	2	1	3	2	1	1	2
SC94-1573	2	2	1	4	2	1	1	2
N93-739	2	2	2	3	3	1	1	2
N95-614	2	2	2	5	2	1	1	2

†Not included in Mean

PRELIMINARY GROUP VII

1998

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

TABLE 60 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII, 1998

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. BENNING	HUTCHESON X COKER 6738	F6
2. HASKELL	JOHNSTON X BRAXTON	F5
3. G94-3140	G86-1434 X HAGOOD	F5
4. G94-4532	G83-559 X DOLES	F7
5. G94-1917	G86-1434 X G85-373	F5
6. G94-1633	G86-1434 X G85-373	F5
7. G94-1612	G86-1434 X G85-373	F5
8. AU95-2327	CARVER X COOK	F6
9. AU94-493	DILLON X N85-492	F6
10. AU95-737	N86-7682 X HASKELL	F6
11. AU94-517	DILLON X N85-492	F6
12. AU95-2291	CARVER X COOK	F6
13. N96-6751	N90-7202 X N90-7199	F4
14. N96-7164	HOLLADAY X N91-8006	F4
15. N96-6730	TCPR92-64 X TCPR92-5	F4
16. N96-6485	EBH91-6 X N89-1284	F4
17. N96-6767	N90-7202 X N90-7199	F4
18. SC95-59	S83-30 X BRYAN	F6
19. SC95-984	HAGOOD X G83-198	F5
20. SC95-988	HAGOOD X G83-198	F5
21. SC95-1149	S83-30 X MANOKIN	F5
22. SC95-1447	COOK X MANOKIN	F5
23. N96-752	N87-298 X COOK	F6
24. N96-982	N85-492 X PROLINA	F6
25. N96-697	D87-4371 X PROLINA	F6
26. N96-863	BRIM X SHARKEY	F6
27. N96-7036	N90-7199 X N90-7241	F4

**TABLE 61 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VII,
1998 - MEAN OF 5 LOCATIONS.**

STRAIN/ VARIETY	SEED	MAT.	LOGGING	HEIGHT	QUALITY	SEED	----PERCENT-----		STEM	SCN	SCN	M. i.	M. a.
	YIELD	INDEX				SIZE	PROTEIN	OIL	CANKER	3	14	TN	TN
BENNING	40.0	10/17	2	35	2	15.7	42.5	20.0	R	1.0	4.6	1.3	1.0
HASKELL	37.6	1+	2	33	2	15.6	42.7	19.8	R	4.4	4.4	1.7	1.0
G94-3140	34.3	2-	2	27	2	12.9	44.6+	18.6-	S	1.3	4.0	1.3	1.3
G94-4532	40.5	1-	2	30	2	12.6	44.1+	19.0-	S	1.2	3.6	1.0	1.0
G94-1917	39.6	1-	2	32	2	13.5	43.7	19.2	S	1.0	4.7	2.0	1.0
G94-1633	37.7	3-	2	29	2	12.7	43.1	18.8-	S	1.0	4.5	1.0	1.0
G94-1612	35.1	2-	2	31	2	12.5	42.9	19.6	R	1.0	3.5	1.0	1.0
AU95-2327	37.5	1+	3	38	2	15.2	43.2	20.1	R	4.3	3.3	2.8	1.3
AU94-493	43.9	10-	2	30	2	14.1	41.3	21.0+	S	4.0	4.3	2.2	3.4
AU95-737	37.9	2-	2	32	2	14.1	42.5	20.6	S	2.8	4.4	3.7	1.5
AU94-517	44.2	7-	2	28	2	16.0	42.0	20.5	S	3.0	4.1	2.6	3.2
AU95-2291	38.5	1-	2	34	2	14.5	45.3+	19.5	R	1.1	2.7	3.2	3.5
N96-6751	32.6	4+	2	27	2	13.2	41.4	20.7	S	2.3	4.9	3.8	4.0
N96-7164	32.9	1-	2	28	2	13.9	42.2	20.1	S	1.8	4.6	4.0	3.5
N96-6730	34.1	5-	2	27	2	16.0	42.5	19.9	S	2.3	4.0	3.5	3.7
N96-6485	26.8-	5-	2	20	2	7.8	43.7	18.2-	R	2.7	4.3	2.5	1.3
N96-6767	37.1	2+	3	28	2	13.5	42.5	19.7	S	3.6	4.6	3.8	3.2
SC95-59	36.0	2-	2	37	2	12.9	42.7	20.0	R	1.3	3.0	1.5	1.3
SC95-984	42.5	7-	2	29	2	13.5	43.1	20.4	S	1.0	2.5	2.0	3.0
SC95-988	42.6	3-	2	30	2	13.6	42.7	20.6	S	1.2	3.4	1.2	2.5
SC95-1149	39.4	6-	2	32	2	14.0	41.5	20.6	R	1.0	3.7	1.4	1.3
SC95-1447	39.5	1+	2	38	2	15.4	43.0	19.5	R	2.3	4.3	1.5	1.5
N96-752	44.1	1-	2	36	2	14.5	43.3	19.9	R	2.9	3.8	4.0	3.7
N96-982	39.7	3-	2	36	2	15.5	43.4	20.8	S	3.9	4.0	3.7	2.8
N96-697	34.6	3-	3	31	2	16.3	43.6	19.9	S	3.8	4.6	2.4	2.3
N96-863	36.7	3-	3	38	2	15.6	43.7	19.9	R	3.7	4.7	3.7	3.3
N96-7036	31.0-	2+	2	31	2	14.5	44.0+	19.3	R	4.3	4.6	4.0	3.3
OVERALL MEAN	37.6						43.0	19.9					
L. S. D. (.05)	8.7						1.3	0.9					
C. V.	18%						2%	4%					

TABLE 62 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1998

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JAY† FL	STONEVILLE MS	TALLASSEE AL	WHITEVILLE NC	MEAN
BENNING	42.1	49.6	18.5	30.5	43.3	34.4	40.0
HASKELL	47.6	47.6	16.5-	35.7	27.8-	29.2	37.6
G94-3140	42.3	43.7	14.5-	26.1	34.7-	24.4	34.3
G94-4532	44.6	46.9	16.0-	35.7	35.5-	40.1	40.5
G94-1917	44.8	47.7	30.0+	29.6	35.4-	40.3	39.6
G94-1633	48.5	47.5	24.0+	25.5	33.3-	33.5	37.7
G94-1612	41.2	42.0-	20.0+	33.6	30.2-	28.3	35.1
AU95-2327	41.4	47.8	15.0-	31.1	27.1-	39.8	37.5
AU94-493	45.4	47.7	11.5-	50.6+	30.7-	45.3	43.9
AU95-737	41.1	46.4	19.5+	43.4+	20.6-	37.8	37.9
AU94-517	50.6	45.5	13.5-	50.6+	34.1-	40.5	44.2
AU95-2291	37.1	47.7	16.5-	31.5	34.1-	42.3	38.5
N96-6751	22.1-	47.9	16.5-	29.3	25.0-	38.8	32.6
N96-7164	34.5	39.1-	11.0-	42.8+	22.8-	25.2	32.9
N96-6730	40.1	44.6	6.0-	28.9	17.0-	39.8	34.1
N96-6485	37.5	25.7-	6.0-	35.6	22.7-	12.8-	26.8-
N96-6767	45.1	51.0	13.5-	24.6	26.2-	38.7	37.1
SC95-59	43.1	50.2	14.0-	24.2	33.2-	29.4	36.0
SC95-984	45.8	49.1	19.0+	42.8+	39.2	35.4	42.5
SC95-988	47.8	49.1	14.5-	40.6+	34.5-	41.2	42.6
SC95-1149	43.3	51.1	14.5-	37.0	32.7-	33.1	39.4
SC95-1447	46.8	49.0	7.5-	26.3	33.7-	41.9	39.5
N96-752	51.8+	50.9	14.0-	42.9+	24.8-	50.1+	44.1
N96-982	40.9	39.0-	8.0-	56.4+	22.6-	39.8	39.7
N96-697	44.9	44.5	17.0-	7.3-	37.2	39.4	34.6
N96-863	37.3	37.5-	11.5-	47.2+	24.8-	36.8	36.7
N96-7036	38.9	43.5	20.0+	18.9-	21.2-	32.3	31.0-
L. S. D. (0.05)	9.0	7.6		7.9	6.2	11.3	8.7
C. V. (%)	10.3	8.1	36.1	11.2	12.2	14.1	18.4

†Not included in Mean

TABLE 63 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1998

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JAY† FL	STONEVILLE MS	TALLASSEE AL	WHITEVILLE NC	MEAN
BENNING	21.0	20.7	22.1	18.9	19.6	20.0	20.0
HASKELL	20.6	20.0	22.6	18.9	20.6	19.0	19.8
G94-3140	19.3	18.7	22.7	17.7	18.3	19.2	18.6
G94-4532	19.6	19.7	21.5	18.8	19.2	17.7	19.0
G94-1917	20.4	19.5	21.5	19.0	19.3	18.0	19.2
G94-1633	19.7	19.4	21.7	17.0	19.3	18.8	18.8
G94-1612	20.5	20.3	22.2	18.6	19.7	19.0	19.6
AU95-2327	20.3	20.3	22.8	19.2	20.9	19.7	20.1
AU94-493	21.0	20.9	22.9	21.5	21.6	20.2	21.0
AU95-737	20.6	21.0	22.9	20.6	20.8	20.0	20.6
AU94-517	20.8	19.9	22.2	21.1	20.9	19.6	20.5
AU95-2291	20.3	20.4	22.3	18.0	19.6	19.2	19.5
N96-6751	21.0	21.5	22.8	19.4	21.6	19.9	20.7
N96-7164	20.0	20.5	22.6	19.6	20.2	20.0	20.1
N96-6730	20.7	20.9	21.6	18.4	19.4	20.0	19.9
N96-6485	18.1	18.7	20.6	18.4	18.3	17.3	18.2
N96-6767	20.0	20.4	22.1	19.1	20.0	19.2	19.7
SC95-59	21.1	20.1	21.8	19.5	20.2	19.2	20.0
SC95-984	20.8	20.6	22.3	20.2	20.9	19.7	20.4
SC95-988	21.0	20.4	21.3	20.5	20.9	20.2	20.6
SC95-1149	21.7	20.3	22.6	21.4	20.1	19.6	20.6
SC95-1447	20.4	20.0	22.0	18.5	19.6	19.0	19.5
N96-752	20.8	20.1	21.5	19.6	20.2	18.8	19.9
N96-982	21.2	20.7	22.2	20.8	21.5	19.9	20.8
N96-697	21.1	21.0	23.0	16.1	20.5	20.7	19.9
N96-863	20.2	18.9	22.9	20.2	20.7	19.4	19.9
N96-7036	20.2	20.6	22.5	16.4	20.3	18.9	19.3

†Not included in Mean

TABLE 64 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1998

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JAY† FL	STONEVILLE MS	TALLASSEE AL	WHITEVILLE NC	MEAN
BENNING	41.5	42.8	40.7	43.5	44.0	40.7	42.5
HASKELL	40.7	42.7	39.3	43.8	44.3	42.0	42.7
G94-3140	43.5	45.0	39.3	45.4	46.5	42.4	44.6
G94-4532	43.6	44.7	42.5	44.3	46.3	41.8	44.1
G94-1917	41.5	44.3	42.0	44.3	45.3	42.9	43.7
G94-1633	41.7	43.1	40.8	45.6	44.0	41.1	43.1
G94-1612	41.3	42.9	41.1	44.0	44.7	41.5	42.9
AU95-2327	41.6	43.1	40.6	44.5	44.3	42.7	43.2
AU94-493	39.9	42.0	40.4	40.3	43.2	41.1	41.3
AU95-737	41.8	43.0	40.4	42.1	43.9	41.9	42.5
AU94-517	40.8	43.5	40.4	40.1	43.9	41.6	42.0
AU95-2291	44.0	44.3	40.8	47.1	47.2	44.1	45.3
N96-6751	40.4	40.9	39.2	43.1	40.8	41.6	41.4
N96-7164	41.7	42.6	39.7	42.1	43.3	41.2	42.2
N96-6730	40.6	41.9	39.8	43.9	45.8	40.2	42.5
N96-6485	42.9	43.9	42.9	43.0	44.0	44.7	43.7
N96-6767	41.7	42.1	40.3	43.6	43.0	42.1	42.5
SC95-59	41.0	42.9	40.9	44.5	44.3	40.8	42.7
SC95-984	41.9	44.4	42.1	43.1	44.0	42.3	43.1
SC95-988	41.5	44.1	42.8	42.1	43.4	42.6	42.7
SC95-1149	39.9	41.4	40.1	41.6	44.5	40.3	41.5
SC95-1447	41.1	43.4	40.6	44.9	44.8	40.6	43.0
N96-752	43.3	43.4	41.2	42.2	45.0	42.6	43.3
N96-982	42.2	45.1	42.4	42.1	44.1	43.7	43.4
N96-697	41.7	42.8	41.4	47.3	44.8	41.6	43.6
N96-863	42.4	44.8	40.0	43.7	44.4	43.0	43.7
N96-7036	42.3	43.5	41.8	46.6	44.4	43.4	44.0

†Not included in Mean

TABLE 65 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1998

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JAY† FL	STONEVILLE MS	TALLASSEE AL	WHITEVILLE NC	MEAN
BENNING	17.5	22.0	11.6	10.6	13.1	15.1	15.7
HASKELL	17.2	19.9	12.7	12.9	12.8	15.3	15.6
G94-3140	14.7	16.2	11.5	10.0	12.1	11.7	12.9
G94-4532	13.0	15.1	10.2	9.9	11.5	13.6	12.6
G94-1917	13.4	16.7	12.7	11.4	12.3	13.6	13.5
G94-1633	13.1	15.6	11.6	10.4	11.7	12.8	12.7
G94-1612	13.5	15.5	11.7	10.3	11.1	12.2	12.5
AU95-2327	16.8	19.3	13.3	12.5	12.5	14.7	15.2
AU94-493	13.0	18.3	12.8	12.6	12.4	14.4	14.1
AU95-737	14.5	18.3	11.4	10.7	12.2	14.9	14.1
AU94-517	16.8	19.7	10.7	13.3	13.8	16.3	16.0
AU95-2291	15.9	18.5	10.7	10.9	12.1	15.1	14.5
N96-6751	14.3	14.9	10.7	10.1	12.5	14.1	13.2
N96-7164	14.2	17.8	10.5	11.1	11.8	14.4	13.9
N96-6730	16.0	21.3	12.0	12.0	14.8	16.0	16.0
N96-6485	7.3	8.8	9.0	6.8	7.7	8.4	7.8
N96-6767	14.2	16.4	8.6	10.7	12.5	13.5	13.5
SC95-59	14.7	16.2	9.8	9.5	11.7	12.4	12.9
SC95-984	13.1	17.2	10.5	11.0	12.0	14.1	13.5
SC95-988	14.2	17.1	8.2	11.0	12.4	13.1	13.6
SC95-1149	13.6	17.8	9.7	12.1	12.1	14.6	14.0
SC95-1447	16.4	20.0	11.0	12.9	13.0	14.9	15.4
N96-752	14.6	18.2	10.0	12.8	12.5	14.2	14.5
N96-982	14.8	21.2	10.0	13.1	13.4	15.1	15.5
N96-697	17.9	20.8	12.7	10.6	14.3	17.7	16.3
N96-863	15.1	19.0	11.1	14.7	13.3	15.8	15.6
N96-7036	16.2	16.5	10.9	11.9	12.7	15.3	14.5

†Not included in Mean

**TABLE 66 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII,
1998**

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JAY† FL	STONEVILLE MS	TALLASSEE AL	WHITEVILLE NC	MEAN
BENNING	34	37	19	28	37	37	35
HASKELL	30	39	21	30	37	30	33
G94-3140	31	30	20	26	32	17	27
G94-4532	27	36	21	28	35	26	30
G94-1917	32	35	18	26	36	30	32
G94-1633	30	29	19	26	34	29	29
G94-1612	33	34	19	26	35	27	31
AU95-2327	33	42	24	40	40	36	38
AU94-493	28	29	18	28	35	31	30
AU95-737	31	37	16	28	35	30	32
AU94-517	25	32	17	26	34	24	28
AU95-2291	32	33	18	36	33	36	34
N96-6751	27	26	20	30	28	22	27
N96-7164	26	28	18	26	32	27	28
N96-6730	27	27	13	24	29	27	27
N96-6485	18	10	18	12	20	40	20
N96-6767	28	28	17	28	32	27	28
SC95-59	33	39	20	38	39	35	37
SC95-984	29	31	17	26	36	24	29
SC95-988	28	34	13	26	33	29	30
SC95-1149	29	36	18	28	37	30	32
SC95-1447	33	39	24	44	39	37	38
N96-752	37	35	19	36	38	34	36
N96-982	35	38	17	32	39	34	36
N96-697	28	35	21	26	33	32	31
N96-863	37	45	21	36	36	38	38
N96-7036	33	27	22	34	35	29	31

†Not included in Mean

TABLE 67 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1998

STRAIN/ VARIETY	ATHENS GA	BLACKVILLE SC	JAY† FL	STONEVILLE MS	TALLASSEE AL	WHITEVILLE NC	MEAN
BENNING	2	2	2	2	1	5	2
HASKELL	2	3	1	2	1	4	2
G94-3140	2	1	2	2	1	2	2
G94-4532	2	2	2	2	1	4	2
G94-1917	2	2	1	2	1	4	2
G94-1633	2	1	1	2	1	4	2
G94-1612	2	1	2	2	1	3	2
AU95-2327	2	3	2	3	1	4	3
AU94-493	2	1	1	2	1	3	2
AU95-737	2	3	1	2	1	4	2
AU94-517	2	2	1	2	1	3	2
AU95-2291	2	1	1	2	1	3	2
N96-6751	2	1	2	2	1	3	2
N96-7164	2	1	1	2	1	3	2
N96-6730	2	2	1	2	1	3	2
N96-6485	2	1	1	2	1	3	2
N96-6767	3	3	2	5	1	4	3
SC95-59	2	2	2	2	1	4	2
SC95-984	2	1	2	2	1	3	2
SC95-988	2	1	1	2	1	3	2
SC95-1149	2	1	3	2	1	3	2
SC95-1447	2	2	2	2	1	3	2
N96-752	2	1	2	2	1	3	2
N96-982	2	2	2	2	1	3	2
N96-697	3	3	4	3	1	4	3
N96-863	3	4	3	4	1	4	3
N96-7036	3	2	2	2	1	3	2

†Not included in Mean

TABLE 68 - SEED QUALITY SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VII, 1998

STRAIN/ VARIETY	ATHENS	JAY†	TALLASSEE	WHITEVILLE	MEAN
	GA	FL	AL	NC	
BENNING	2	2	1	2	2
HASKELL	2	4	1	2	2
G94-3140	2	3	1	2	2
G94-4532	3	3	1	3	2
G94-1917	2	2	1	2	2
G94-1633	3	3	1	2	2
G94-1612	2	3	1	2	2
AU95-2327	2	3	1	3	2
AU94-493	2	4	2	3	2
AU95-737	2	3	1	2	2
AU94-517	2	5	2	3	2
AU95-2291	2	4	1	3	2
N96-6751	2	3	1	3	2
N96-7164	2	4	2	3	2
N96-6730	3	4	1	2	2
N96-6485	2	3	1	2	2
N96-6767	2	3	1	2	2
SC95-59	2	2	1	2	2
SC95-984	2	2	1	2	2
SC95-988	2	5	1	2	2
SC95-1149	2	3	1	2	2
SC95-1447	2	3	1	2	2
N96-752	2	5	1	2	2
N96-982	2	5	2	3	2
N96-697	2	3	1	3	2
N96-863	2	4	2	2	2
N96-7036	2	4	1	2	2

†Not included in Mean

UNIFORM GROUP VIII

1998

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

**TABLE 69 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII,
1998**

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. COOK	BRAXTON X YOUNG	F6
2. MAXCY	D76-9665 X JOHNSTON	F6
3. G93-1914	S84-1876 X D84-7174	F5
4. G93-2225	COOK X COKER 6727	F6
5. G90-R1551E	COKER 82-622 X HOWARD	F6
6. G90-1551	COKER 82-622 X HOWARD	F6
7. G92-2388	COKER 82-622 X G83-12	F6
8. G92-2167	COKER 82-622 X BRIM	F6
9. AU94-2471	CARVER X G86-1267	F6
10. AU94-863	Au87-727 X COOK	F6
11. TCPR96-1213	YOUNG X TANBAGURO	F7
12. TCPR96-1215	YOUNG X TANBAGURO	F7
13. SC92-3091	HAGOOD X COKER 6738	F5
14. SC93-1963	COKER 6738 X G83-198	F5
15. SC94-1000	COKER 6847 X G83-198	F5
16. SC94-1577	S83-30 X BRYAN	F5
17. N94-537	COOK X CLIFFORD	F6

TABLE 70 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII, 1998

STRAIN/ VARIETY	YIELD†			PROTEIN			OIL		
	1998	97-98	96-98	1998	97-98	96-98	1998	97-98	96-98
COOK	41.9	39.2	41.1	43.3	43.0	43.2	19.7	19.6	19.9
MAXCY	40.0	38.8	39.9	42.1	41.8	42.1	20.3	20.1	20.4
G93-1914	41.2	.	.	42.5	.	.	20.2	.	.
G93-2225	43.6	.	.	43.3	.	.	19.1	.	.
G90-R1551E	44.6	.	.	43.8	.	.	19.7	.	.
G90-1551	43.6	40.2	.	43.8	43.5	.	19.9	19.6	.
G92-2388	42.6	41.8	.	42.7	42.2	.	19.7	19.7	.
G92-2167	44.6	41.7	.	41.2	41.2	.	20.3	20.2	.
AU94-2471	41.6	.	.	42.3	.	.	20.3	.	.
AU94-863	45.8	.	.	42.8	.	.	20.8	.	.
TCPR96-1213	34.0	.	.	43.7	.	.	21.2	.	.
TCPR96-1215	35.0	.	.	43.5	.	.	20.5	.	.
SC92-3091	43.5	41.0	42.0	44.2	43.5	43.5	19.9	19.8	20.3
SC93-1963	44.4	41.2	.	42.4	42.2	.	20.3	20.2	.
SC94-1000	42.9	.	.	43.0	.	.	20.3	.	.
SC94-1577	40.2	.	.	43.6	.	.	19.2	.	.
N94-537	43.0	39.8	.	41.6	41.3	.	20.1	20.1	.

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

BOTANICAL TRAITS

STRAIN/ VARIETY	FL COLOR	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	PUB. COLOR	POD COLOR
COOK	P	10/21	2	36	2	14.8	T	T
MAXCY	P	1+	2	34	2	14.6	T	T
G93-1914	W	0	2	34	2	13.8	T	T
G93-2225	P	2-	2	32	2	13.6	T	T
G90-R1551E	W	3+	2	32	2	13.7	G	T
G90-1551	W	6+	2	34	2	14.0	G	T
G92-2388	W	0	1	33	2	13.7	G	T
G92-2167	W	0	2	37	2	12.6	G	T
AU94-2471	P	0	1	31	2	14.5	G	T
AU94-863	P	3+	2	34	2	16.1	T	T
TCPR96-1213	W	3+	2	31	2	23.3	G	T
TCPR96-1215	W	4+	2	31	2	27.5	G	T
SC92-3091	P	5+	2	35	2	15.6	T	T
SC93-1963	W	5+	2	34	2	14.1	T	T
SC94-1000	W	1+	2	34	2	15.1	G	T
SC94-1577	W	5+	2	35	2	13.7	G	T
N94-537	P	0	2	35	2	14.9	T	T

TABLE 70 - Continued

PEST REACTIONS

STRAIN/ VARIETY	STEM		SCN		M. i.	M. a.
	CANKER	SMV	3	14	GA	GA
COOK	R	R	5.0	4.9	2.8	3.3
MAXCY	S	R	1.0	4.9	2.5	3.3
G93-1914	S	S	1.0	1.7	1.0	2.3
G93-2225	R	R	1.0	4.7	1.0	3.5
G90-R1551E	R	R	1.0	3.9	1.3	3.0
G90-1551	R	R	1.0	2.6	1.0	4.0
G92-2388	R	S	1.2	4.7	1.0	3.3
G92-2167	S	R	1.1	4.9	1.5	4.3
AU94-2471	S	S	1.0	3.9	1.5	2.8
AU94-863	R	R	1.6	1.4	4.0	3.0
TCPR96-1213	R	R	4.3	4.9	3.8	2.3
TCPR96-1215	R	R	3.7	4.6	4.3	2.8
SC92-3091	S	R	1.0	5.0	1.5	3.8
SC93-1963	R	H	1.0	4.7	1.8	2.8
SC94-1000	S	R	1.2	4.6	1.0	2.5
SC94-1577	S	R	1.2	4.9	1.0	3.0
N94-537	SEG	R	3.8	4.3	1.8	2.8

See Methods section for description of rating scale.

TABLE 71 - SEED YIELD IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1998

STRAIN/ VARIETY	EAST			MEAN
	FLORENCE SC	JACKSON SPRINGS NC	WHITEVILLE† NC	
COOK	28.7	45.8	32.5	37.3
MAXCY	31.5	33.6	35.9	32.6
G93-1914	35.4	40.9	28.0	38.1
G93-2225	30.9	42.9	36.0	36.9
G90-R1551E	35.2	49.7	29.3	42.4
G90-1551	33.7	47.4	30.0	40.6
G92-2388	36.2	38.7	31.9	37.4
G92-2167	33.1	48.6	35.0	40.8
AU94-2471	31.6	37.0	27.2	34.3
AU94-863	33.2	41.8	35.8	37.5
TCPR96-1213	31.3	41.2	26.6	36.3
TCPR96-1215	29.7	36.0	27.0	32.9
SC92-3091	33.7	46.3	36.0	40.0
SC93-1963	33.3	50.0	35.0	41.7
SC94-1000	33.8	46.3	29.9	40.1
SC94-1577	31.1	39.5	27.4	35.3
N94-537	30.8	45.5	28.3	38.1
L. S. D. (0.05)	4.4	13.3	10.7	.
C. V. (%)	8.1	15.1	19.3	.

†Not included in Mean

TABLE 71 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS	CLEMSON†	FAIRHOPE	JAY†	MIDVILLE	PLAINS	TALLASSEE	TALLASSEE	TIFTON	MEAN
	GA	SC	AL	FL	GA	GA	AL	AL(L)	GA	
COOK	48.7	45.3	35.8	18.7	51.9	42.3	25.6	35.1	62.8	43.2
MAXCY	48.1	40.7	36.0	15.0	47.3	42.5	31.4	36.4	53.5	42.2
G93-1914	50.9	30.1	41.0	18.0	46.7	45.0	26.6	28.6	55.4	42.0
G93-2225	51.2	37.2	36.1	12.7	49.1	40.4	38.1	41.2	62.2	45.5
G90-R1551E	51.4	27.0	36.8	14.0	47.3	43.0	32.6	37.0	68.5	45.2
G90-1551	44.1	21.8	35.6	10.7	49.5	37.9	35.4	40.5	68.7	44.5
G92-2388	51.8	27.1	34.2	12.3	50.5	42.9	32.3	38.8	57.6	44.0
G92-2167	50.5	27.5	40.9	10.0	52.2	42.0	34.2	38.8	61.3	45.7
AU94-2471	49.2	38.3	40.2	22.7	48.5	43.6	25.4	35.7	63.2	43.7
AU94-863	54.4	16.2	40.3	13.7	51.6	49.1	33.2	42.6	66.4	48.2
TCPR96-1213	41.9	33.7	27.7	19.3	35.9	33.6	21.4	28.8	44.2	33.3
TCPR96-1215	47.4	24.9	25.5	13.3	40.2	38.7	24.7	27.7	45.3	35.7
SC92-3091	51.0	31.7	34.6	12.7	52.2	39.7	34.6	39.2	59.7	44.4
SC93-1963	53.2	24.1	31.0	15.0	56.9	43.8	35.1	36.7	59.3	45.1
SC94-1000	45.7	22.3	38.0	14.3	52.5	37.9	32.3	34.9	64.3	43.7
SC94-1577	49.4	28.9	33.8	16.0	46.6	37.5	26.9	36.5	60.7	41.6
N94-537	51.8	26.5	36.8	14.7	51.4	41.6	25.8	40.4	63.4	44.5
L. S. D. (0.05)	6.8	12.9	3.4	6.0	6.4	6.3	7.7	8.5	5.3	.
C. V. (%)	8.3	20.6	6.9	24.1	7.9	9.2	18.3	16.8	5.3	.

†Not included in Mean

TABLE 72 - CHEMICAL COMPOSITION AND SEED SIZE FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1998

OIL PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	CLEMSON† SC	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	JAY† FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	WHITEVILLE NC	MEAN
COOK	20.4	19.9	19.5	19.3	18.9	21.0	20.1	20.3	18.7	20.0	.	19.7	19.7
MAXCY	21.4	19.9	19.2	18.5	20.8	20.6	21.1	21.1	19.4	20.7	.	19.8	20.3
G93-1914	21.2	19.1	19.5	19.1	19.9	20.9	21.6	21.2	18.9	19.9	.	19.7	20.2
G93-2225	19.9	18.8	18.5	18.0	18.6	20.9	20.3	20.1	18.2	18.9	.	18.6	19.1
G90-R1551E	21.2	19.2	18.3	18.7	19.3	20.7	21.1	20.1	19.4	19.4	.	18.5	19.7
G90-1551	22.0	19.4	18.2	18.6	19.3	19.8	20.5	20.9	19.6	19.8	.	19.0	19.9
G92-2388	20.5	19.6	19.3	17.9	20.2	20.8	20.7	20.3	18.9	19.6	.	19.0	19.7
G92-2167	21.3	21.4	19.1	18.5	19.9	21.4	21.2	21.2	20.3	21.1	.	19.7	20.3
AU94-2471	21.1	20.0	19.5	19.5	20.3	21.7	21.0	20.4	20.4	19.8	.	19.6	20.3
AU94-863	21.7	21.0	20.5	20.1	20.4	21.4	22.3	20.8	20.1	20.8	.	20.6	20.8
TCPR96-1213	22.2	21.9	20.4	20.6	20.2	21.4	22.4	21.6	21.3	20.8	.	20.4	21.2
TCPR96-1215	21.0	19.2	19.8	19.9	19.6	21.1	21.6	21.3	19.6	20.8	.	20.3	20.5
SC92-3091	21.6	19.6	17.7	18.8	20.1	20.1	21.0	20.8	19.6	19.9	.	19.8	19.9
SC93-1963	21.7	19.0	19.2	18.9	20.2	20.6	21.1	21.5	20.0	20.1	.	20.6	20.3
SC94-1000	21.4	20.7	19.9	19.3	19.4	21.2	21.0	21.2	19.6	20.6	.	20.1	20.3
SC94-1577	20.3	18.4	17.6	17.7	20.4	20.1	20.0	20.1	18.1	19.0	.	18.8	19.2
N94-537	20.8	20.4	19.8	19.2	20.4	21.7	20.7	20.9	19.2	20.1	.	19.6	20.1

†Not included in Mean

TABLE 72 - Continued

PROTEIN PERCENTAGES

STRAIN/ VARIETY	ATHENS GA	CLEMSON† SC	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	JAY† FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	WHITEVILLE NC	MEAN
COOK	41.9	40.6	44.5	43.8	43.8	41.4	42.4	42.0	45.7	42.6	.	41.7	43.3
MAXCY	40.1	39.4	44.7	43.2	39.0	42.7	41.4	41.4	45.0	42.2	.	39.9	42.1
G93-1914	40.9	42.0	44.2	41.8	40.5	41.5	41.3	42.0	45.4	43.5	.	41.2	42.5
G93-2225	42.0	41.4	45.4	43.5	42.3	39.9	40.8	42.0	45.5	44.7	.	41.5	43.3
G90-R1551E	41.1	41.0	46.4	43.7	42.5	42.5	42.2	43.8	45.9	45.0	.	41.8	43.8
G90-1551	41.0	39.4	46.5	44.4	43.1	42.9	43.0	42.3	46.5	43.9	.	42.1	43.8
G92-2388	40.9	40.5	44.3	44.2	40.6	41.6	41.7	41.8	45.2	42.5	.	41.3	42.7
G92-2167	39.8	35.7	45.1	42.1	40.0	40.1	39.1	40.3	43.4	40.1	.	39.0	41.2
AU94-2471	40.3	39.5	45.0	42.1	41.3	41.5	40.8	41.9	43.4	43.7	.	40.3	42.3
AU94-863	41.1	38.8	44.8	43.4	41.0	41.4	40.3	43.1	44.6	43.8	.	40.4	42.8
TCPR96-1213	41.8	40.5	46.3	44.2	44.0	43.7	41.6	42.9	44.0	44.5	.	43.7	43.7
TCPR96-1215	42.3	41.5	45.9	43.8	43.7	44.1	41.0	41.9	45.7	43.9	.	40.6	43.5
SC92-3091	41.6	41.2	47.9	44.7	43.1	42.8	43.2	42.8	46.6	43.9	.	41.2	44.2
SC93-1963	40.8	41.1	44.7	43.3	41.6	42.2	39.6	41.6	44.9	43.0	.	40.1	42.4
SC94-1000	41.3	40.5	45.9	43.2	39.4	43.6	41.1	42.3	46.4	44.0	.	41.6	43.0
SC94-1577	41.2	40.0	46.9	44.5	42.6	42.1	42.2	42.7	45.5	43.0	.	40.3	43.6
N94-537	40.8	39.2	42.3	42.1	40.1	40.5	40.9	41.3	44.1	41.4	.	40.6	41.6

†Not included in Mean

TABLE 72 - Continued

GRAMS PER 100 SEED

STRAIN/ VARIETY	ATHENS GA	CLEMSON† SC	FAIRHOPE AL	FLORENCE SC	JACKSON SPRINGS NC	JAY† FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	WHITEVILLE NC	MEAN
COOK	17.7	16.3	8.6	13.9	17.6	11.1	16.1	15.5	14.1	13.6	16	14.6	14.8
MAXCY	16.6	17.1	12.4	13.2	15.8	11.4	15.8	15.2	13.7	14.2	14	14.1	14.6
G93-1914	15.6	16.3	12.5	13.5	15.1	12.4	13.8	14.7	12.2	13.2	14	14.2	13.8
G93-2225	16.0	15.8	11.9	12.9	15.0	10.3	14.1	13.0	12.9	12.9	14	13.6	13.6
G90-R1551E	15.0	14.0	11.7	12.6	15.3	10.1	14.2	14.3	13.6	12.6	14	13.5	13.7
G90-1551	14.9	13.4	11.8	12.4	15.1	8.6	14.7	14.8	14.3	13.6	14	12.7	14.0
G92-2388	15.6	15.7	11.8	12.6	15.1	10.2	14.2	13.9	13.2	12.6	14	14.2	13.7
G92-2167	14.9	14.0	10.5	11.6	13.1	9.3	12.8	12.0	12.1	12.4	14	11.7	12.6
AU94-2471	15.8	16.5	13.6	13.8	16.7	11.7	15.0	13.9	12.1	13.8	16	14.1	14.5
AU94-863	18.7	15.9	14.1	16.0	17.1	10.5	16.5	17.3	15.2	14.3	16	15.6	16.1
TCPR96-1213	28.2	27.6	17.2	24.4	25.7	14.6	23.1	23.2	24.1	18.7	25	20.7	23.3
TCPR96-1215	34.3	30.1	20.1	26.0	29.0	19.3	26.4	28.5	28.0	26.9	28	23.6	27.5
SC92-3091	18.1	17.8	13.3	14.6	16.7	10.1	15.7	16.7	14.9	14.6	16	14.0	15.6
SC93-1963	17.0	15.4	10.7	12.9	15.4	9.6	14.9	15.1	14.1	14.0	13	14.0	14.1
SC94-1000	17.6	15.8	12.8	13.5	17.0	11.9	15.0	15.1	14.8	14.8	15	13.9	15.1
SC94-1577	15.3	15.7	11.6	12.8	14.6	11.3	14.1	14.0	15.3	12.4	13	11.8	13.7
N94-537	17.9	17.8	11.8	13.6	16.8	11.1	16.2	14.4	13.6	13.5	16	14.5	14.9

†Not included in Mean

TABLE 73 - RELATIVE MATURITY DATA, DAYS EARLIER(-) OR LATER (+) THAN COOK FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1998

EAST

STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	WHITEVILLE†	MEAN
	SC	NC	NC	
COOK	10/24	11/01	10/23	10/28
MAXCY	-1	0	5	-1
G93-1914	0	.	0	-4
G93-2225	-2	.	8	-6
G90-R1551E	0	0	0	0
G90-1551	3	5	0	4
G92-2388	-1	.	0	-5
G92-2167	-2	0	5	-1
AU94-2471	-2	0	0	-1
AU94-863	4	0	3	2
TCPR96-1213	0	0	5	0
TCPR96-1215	2	0	5	1
SC92-3091	5	0	7	3
SC93-1963	5	0	5	3
SC94-1000	0	.	0	-4
SC94-1577	1	0	7	0
N94-537	-1	0	5	0

†Not included in Mean

TABLE 73 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	CLEMSON† SC	FAIRHOPE AL	JAY† FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	10/27	11/01	10/12	10/13	.	.	10/15	10/27	10/14	10/19
MAXCY	0	0	3	-3	.	.	0	-1	3	1
G93-1914	1	1	5	3	.	.	0	0	3	2
G93-2225	-1	-1	-1	-1	.	.	-1	2	0	0
G90-R1551E	-3	-2	5	1	.	.	7	4	4	3
G90-1551	1	1	7	0	.	.	11	6	4	6
G92-2388	-1	-1	4	-1	.	.	0	2	3	2
G92-2167	-3	-2	1	-4	.	.	-1	1	-1	-1
AU94-2471	-4	-2	2	3	.	.	-1	0	0	-1
AU94-863	1	-2	5	0	.	.	0	2	4	2
TCPR96-1213	2	-1	2	5	.	.	3	3	4	3
TCPR96-1215	3	1	4	5	.	.	6	6	5	5
SC92-3091	2	1	6	1	.	.	9	4	6	5
SC93-1963	3	3	5	-2	.	.	10	6	3	5
SC94-1000	1	0	3	-3	.	.	0	4	4	3
SC94-1577	1	1	4	0	.	.	13	5	5	5
N94-537	-1	0	-1	-4	.	.	-1	0	0	-1

†Not included in Mean

TABLE 74 - PLANT HEIGHT FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1998

EAST				
STRAIN/ VARIETY	FLORENCE	JACKSON SPRINGS	WHITEVILLE†	MEAN
	SC	NC	NC	
COOK	34	28	38	31
MAXCY	31	19	34	25
G93-1914	32	8	35	20
G93-2225	30	23	32	26
G90-R1551E	30	20	30	25
G90-1551	29	24	34	27
G92-2388	32	22	32	27
G92-2167	33	27	37	30
AU94-2471	31	15	30	23
AU94-863	34	20	36	27
TCPR96-1213	29	20	24	25
TCPR96-1215	30	17	31	24
SC92-3091	33	22	36	28
SC93-1963	34	19	36	27
SC94-1000	32	23	31	28
SC94-1577	33	20	35	27
N94-537	33	21	28	27

†Not included in Mean

TABLE 74 - Continued

SOUTH

STRAIN/ VARIETY	ATHENS GA	CLEMSON† SC	FAIRHOPE AL	JAY† FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	39	39	39	28	35	41	39	36	38	38
MAXCY	39	38	33	26	31	40	38	37	35	36
G93-1914	41	30	36	21	30	39	41	40	37	38
G93-2225	34	32	32	20	26	38	36	33	34	33
G90-R1551E	37	28	35	27	29	38	35	34	32	34
G90-1551	40	26	34	25	33	40	38	36	34	36
G92-2388	36	27	37	24	31	39	36	32	34	35
G92-2167	37	24	45	30	36	42	40	34	42	39
AU94-2471	35	28	31	25	24	38	36	34	32	33
AU94-863	39	22	39	21	31	37	40	38	32	37
TCPR96-1213	34	33	27	23	30	34	33	34	33	32
TCPR96-1215	35	32	30	29	31	35	32	35	29	33
SC92-3091	38	28	40	25	31	41	39	33	35	37
SC93-1963	41	27	36	23	31	39	40	34	35	37
SC94-1000	38	27	38	22	31	39	37	35	35	36
SC94-1577	38	30	42	24	30	42	39	34	36	37
N94-537	39	30	33	27	33	39	45	39	31	37

†Not included in Mean

**TABLE 75 - LODGING SCORES FOR STRAIN/VARIETY IN UNIFORM GROUP VIII,
1998**

EAST

STRAIN/ VARIETY	FLORENCE SC	JACKSON SPRINGS NC	WHITEVILLE† NC	MEAN
COOK	2	3	4	2
MAXCY	1	2	3	2
G93-1914	2	2	4	2
G93-2225	2	2	4	2
G90-R1551E	2	2	4	2
G90-1551	2	2	4	2
G92-2388	1	2	4	2
G92-2167	1	2	4	2
AU94-2471	1	1	4	1
AU94-863	2	3	3	2
TCPR96-1213	2	3	4	3
TCPR96-1215	2	2	4	2
SC92-3091	2	2	4	2
SC93-1963	1	2	4	2
SC94-1000	2	2	3	2
SC94-1577	1	2	4	2
N94-537	2	2	3	2

†Not included in Mean

SOUTH

STRAIN/ VARIETY	ATHENS GA	CLEMSON† SC	JAY† FL	MIDVILLE GA	PLAINS GA	TALLASSEE AL	TALLASSEE AL(L)	TIFTON GA	MEAN
COOK	2	2	2	2	3	1	1	1	2
MAXCY	3	3	2	2	3	1	1	1	2
G93-1914	2	1	2	2	1	1	1	1	1
G93-2225	2	1	1	2	2	1	1	1	2
G90-R1551E	2	1	2	3	2	1	1	2	2
G90-1551	3	1	1	2	2	1	1	1	2
G92-2388	2	1	1	1	2	1	1	1	1
G92-2167	2	1	2	2	1	1	1	2	2
AU94-2471	3	1	1	1	2	1	1	1	1
AU94-863	3	1	1	2	3	1	1	1	2
TCPR96-1213	4	2	2	2	2	1	1	2	2
TCPR96-1215	4	1	1	3	2	1	1	2	2
SC92-3091	3	1	1	2	1	1	1	1	1
SC93-1963	3	1	1	2	2	1	1	1	2
SC94-1000	2	1	2	2	2	1	1	1	2
SC94-1577	2	1	2	2	3	1	1	2	2
N94-537	3	1	2	2	3	1	1	1	2

†Not included in Mean

TABLE 76 - SEED QUALITY FOR STRAIN/VARIETY IN UNIFORM GROUP VIII, 1998**EAST**

STRAIN/ VARIETY	JACKSON SPRINGS		WHITEVILLE†		MEAN
	NC	NC	NC	NC	
COOK	3		2		3
MAXCY	2		2		2
G93-1914	2		2		2
G93-2225	2		2		2
G90-R1551E	2		2		2
G90-1551	2		2		2
G92-2388	2		2		2
G92-2167	2		2		2
AU94-2471	2		2		2
AU94-863	2		2		2
TCPR96-1213	3		3		3
TCPR96-1215	3		2		3
SC92-3091	2		2		2
SC93-1963	2		2		2
SC94-1000	2		3		2
SC94-1577	2		2		2
N94-537	3		2		3

†Not included in Mean

SOUTH

STRAIN/ VARIETY	ATHENS	FAIRHOPE	JAY†	MIDVILLE	PLAINS	TALLASSEE	TALLASSEE	TIFTON	MEAN
	GA	AL	FL	GA	GA	AL	AL(L)	GA	
COOK	2	2	3	3	2	1	1	1	2
MAXCY	2	1	3	2	2	1	1	1	1
G93-1914	2	2	2	2	2	2	1	1	2
G93-2225	2	2	3	2	2	1	1	1	2
G90-R1551E	2	1	2	2	2	1	1	1	1
G90-1551	2	1	3	2	2	1	1	1	1
G92-2388	2	1	3	2	2	1	1	1	1
G92-2167	2	3	3	2	2	1	1	1	2
AU94-2471	2	2	2	2	2	2	1	1	2
AU94-863	2	2	3	2	2	1	1	1	2
TCPR96-1213	3	2	4	3	2	2	1	1	2
TCPR96-1215	3	2	4	3	2	2	2	1	2
SC92-3091	2	1	3	2	2	1	1	1	1
SC93-1963	2	2	2	2	2	1	1	1	2
SC94-1000	2	2	2	2	2	1	1	1	2
SC94-1577	2	2	2	2	2	1	1	1	2
N94-537	2	2	3	3	3	2	1	1	2

†Not included in Mean

PRELIMINARY GROUP VIII

1998

Preliminary Group VIII nurseries were planted at 6 locations. Data were obtained from all of the locations. The parentage for each strain is reported in Table 77. Table 78 gives a general summary of information for each strain including seed yield, oil and protein percentages, maturity index, and pest reactions. Results from individual locations are summarized in Tables 79 - 85.

TABLE 77 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII, 1998

STRAIN/VARIETY	PARENTAGE	GENERATION COMPOSITED
1. COOK	BRAXTON X YOUNG	F6
2. MAXCY	D76-9665 X JOHNSTON	F6
3. G94-3117	G86-1434 X HAGOOD	F5
4. G94-3070	G86-1434 X HAGOOD	F5
5. G94-2832	DOLES X DPL726	F6
6. G94-1104	G86-1434 X DOLES	F6
7. G94-1004	G86-1434 X DOLES	F6
8. G-HAS-4243	RESLN FROM HASKELL	F11
9. G95-346	G86-1434 X G87-1968	F6
10. AU95-2020	D87-4429 X COOK	F6
11. AU95-757	N86-7682 X HASKELL	F6
12. AU95-571	N86-7682 X HASKELL	F6
13. AU95-1985	D87-4429 X COOK	F6
14. AU95-668	N86-7682 X HASKELL	F6
15. AU95-2066	D87-4429 X COOK	F6
16. N96-7031	N90-7199 X N90-7241	F4
17. N96-6924	N90-7216 X N90-7202	F4
18. N96-6940	N90-7216 X N90-7202	F4
19. N96-7058	N90-7199 X N90-7241	F4
20. N96-6894	N90-7216 X N90-7202	F4
21. N96-7082	N90-7199 X N90-7241	F4
22. N96-7095	N90-7199 X N90-7241	F4
23. SC95-111	HAGOOD X N88-431	F5
24. SC95-151	BRIM X MAXCY	F5
25. SC95-771	COKER 6847 X MANOKIN	F5
26. SC95-994	HAGOOD X G83-198	F5
27. SC95-1008	HAGOOD X G83-198	F5
28. SC95-1351	S83-30 X HARTWIG	F5
29. SC95-1843	N88-480 X HAGOOD	F5
30. N96-6997	N90-7202 X N90-7241	F4
31. N96-7025	N90-7199 X N90-7241	F4
32. N96-7028	N90-7199 X N90-7241	F4
33. N96-7063	N90-7199 X N90-7241	F4
34. N96-6992	N90-7202 X N90-7241	F4

**TABLE 78 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VIII,
1998, MEAN OF 4 LOCATIONS.**

STRAIN/ VARIETY	SEED YIELD	MAT. INDEX	LODGING	HEIGHT	QUALITY	SEED SIZE	----PERCENT----		STEM CANKER	SCN 3	SCN 14	M. i. TN	M. a. TN
							PROTEIN	OIL					
COOK	46.0	10/25	2	38	2	16.3	43.9	19.0	R	1.1	3.7	2.7	1.4
MAXCY	44.3	0	2	37	2	15.5	42.8	20.4+	S	1.1	5.0	1.7	1.3
G94-3117	47.2	0	2	33	2	15.9	45.1+	19.2	S	1.1	4.4	1.3	1.0
G94-3070	45.0	0	2	34	2	15.5	44.3	19.9+	S	1.0	4.4	1.2	1.2
G94-2832	43.4	0	2	33	2	13.3	45.5+	19.0	R	1.0	3.4	1.2	1.3
G94-1104	45.9	1-	1	32	2	12.5	43.8	20.1+	S	1.0	4.2	1.0	1.3
G94-1004	42.6	2+	2	34	2	14.6	43.1	20.0+	S	1.0	4.3	1.5	1.2
G-HAS-4243	41.5	3+	2	35	2	20.0	43.2	19.6	R	3.7	4.1	1.8	1.0
G95-346	47.6	0	2	31	2	15.0	43.4	19.4	R	1.3	4.1	1.3	1.0
AU95-2020	45.7	0	2	33	2	17.4	44.0	20.0+	S	1.7	3.8	1.0	1.2
AU95-757	47.0	1-	1	29	2	16.1	40.0-	21.8+	S	2.9	4.0	1.3	1.6
AU95-571	42.6	1-	1	30	2	19.3	43.8	19.8+	R	4.0	4.7	3.8	3.2
AU95-1985	46.9	3+	2	38	2	18.2	42.9	20.1+	S	1.1	2.4	2.3	2.8
AU95-668	35.2-	8-	1	24	3	17.0	43.2	21.2+	S	2.0	4.0	1.6	1.0
AU95-2066	46.3	1+	2	29	2	16.8	44.1	20.1+	S	2.8	4.0	1.8	1.3
N96-7031	43.5	2+	2	33	2	14.4	41.5-	20.2+	R	3.2	4.3	3.7	3.0
N96-6924	41.6	1+	2	25	2	14.2	41.7-	20.0+	S	4.0	3.7	3.7	2.8
N96-6940	41.6	5+	1	28	2	15.7	42.5-	19.9+	S	3.2	4.0	3.7	2.7
N96-7058	45.2	4+	2	31	2	15.5	43.3	19.5	R	3.7	3.6	4.3	2.8
N96-6894	40.3	1-	2	30	2	15.7	41.9-	20.3+	R	3.8	3.7	3.8	3.5
N96-7082	42.0	5+	2	34	2	15.8	41.7-	20.8+	R	3.7	4.6	4.0	3.2
N96-7095	42.0	0	2	34	2	14.4	41.7-	20.4+	R	3.8	4.3	4.3	3.7
SC95-111	41.9	4+	2	37	2	17.8	44.2	19.5	R	1.0	4.5	1.2	1.7
SC95-151	47.7	1+	2	35	2	15.9	42.8	20.6+	S	1.2	4.2	4.3	3.6
SC95-771	52.0	1+	2	37	2	14.7	43.6	19.6	R	1.0	4.7	3.3	1.0
SC95-994	42.8	0	1	29	2	14.5	43.5	20.7+	S	1.0	4.2	2.7	3.2
SC95-1008	41.9	0	2	38	2	13.8	45.5+	20.3+	S	1.0	4.6	1.5	1.8
SC95-1351	44.3	0	2	32	2	13.6	42.0-	19.9+	R	1.0	4.0	1.5	2.0
SC95-1843	47.3	1+	2	33	2	14.9	40.7-	21.4+	S	1.0	4.2	1.4	2.2
N96-6997	41.6	1+	2	31	2	16.3	44.6	19.2	R	1.3	3.4	4.5	3.0
N96-7025	39.8	4+	2	36	2	16.4	42.8	20.2+	R	1.3	3.9	3.8	3.5
N96-7028	35.9-	2+	2	31	2	15.9	43.9	19.6	R	4.3	4.2	4.2	3.7
N96-7063	41.2	1+	2	31	2	16.0	44.0	19.5	R	4.6	4.5	4.0	2.8
N96-6992	38.4-	3+	2	33	2	15.2	43.9	19.3	S	4.2	4.4	4.3	3.5
OVERALL MEAN	43.5						43.2	20.0					
L. S. D. (.05)	6.4						1.2	0.8					
C. V.	11%						2%	3%					

TABLE 79 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1998

STRAIN/ VARIETY	BLACKVILLE	JACKSON SPRINGS	JAY†	PLAINS	TALLASSEE	WHITEVILLE†	MEAN
	SC	NC	FL	GA	AL	NC	
COOK	53.4	51.1	14.5	44.5	35.2	4.9	46.0
MAXCY	45.6	46.8	10.5	48.8	36.1		44.3
G94-3117	48.6	36.8-	15.0	50.7	52.9+	.	47.2
G94-3070	43.8	41.7	18.0	55.9+	38.8	.	45.0
G94-2832	43.8	42.1	15.0	49.3	38.5	.	43.4
G94-1104	45.7	40.7	14.5	53.2+	44.1	3.8-	45.9
G94-1004	45.1	36.0-	13.0	49.0	40.1		42.6
G-HAS-4243	44.0	46.0	17.5	45.3	30.7		41.5
G95-346	52.0	42.7	23.0+	53.7+	41.9	4.5	47.6
AU95-2020	48.4	41.9	18.0	47.9	44.5	5.1	45.7
AU95-757	48.2	47.3	15.0	49.5	43.0	.	47.0
AU95-571	46.3	41.2	8.0	44.1	38.6		42.6
AU95-1985	48.6	43.9	5.0-	55.5+	39.7	5.0	46.9
AU95-668	34.1-	27.5-	10.5	39.6	39.7	5.0	35.2-
AU95-2066	45.6	49.1	11.0	51.5	39.2	5.0	46.3
N96-7031	46.1	47.4	5.0-	46.9	33.7	4.2	43.5
N96-6924	45.8	35.7-	5.0-	48.7	36.1		41.6
N96-6940	46.3	45.0	8.5	48.0	27.2	4.7	41.6
N96-7058	42.7	46.9	5.5-	53.0+	38.4		45.2
N96-6894	48.1	43.9	6.0-	40.9	28.4	4.8	40.3
N96-7082	45.0	45.0	6.0-	51.4	26.7		42.0
N96-7095	37.1-	49.0	9.5	50.0	31.9	4.1	42.0
SC95-111	47.9	38.6-	10.0	45.6	35.5	5.4	41.9
SC95-151	50.1	49.9	8.5	49.8	41.0	.	47.7
SC95-771	51.0	46.0	20.0	57.2+	53.9+		52.0
SC95-994	36.1-	41.7	11.0	51.5	41.8	.	42.8
SC95-1008	42.5	38.9-	19.0	47.2	39.1	4.1	41.9
SC95-1351	43.1	47.3	12.5	45.6	41.1		44.3
SC95-1843	48.1	45.6	18.5	49.7	45.8+	4.5	47.3
N96-6997	46.5	41.4	8.0	43.8	34.6	4.7	41.6
N96-7025	42.8	43.3	8.5	43.7	29.4	4.5	39.8
N96-7028	47.0	33.6-	10.5	41.1	21.7-	4.4	35.9-
N96-7063	43.1	45.0	7.5	44.6	32.1		41.2
N96-6992	43.5	41.3	11.5	40.6	28.1	4.3	38.4-
L. S. D. (0.05)	13.1	12.1	7.2	8.2	9.3		6.4
C. V. (%)	14.2	13.6	30.0	8.4	14.7		10.6

†Not included in Mean

TABLE 80 - OIL PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1998

STRAIN/ VARIETY	BLACKVILLE SC	JAY† FL	PLAINS GA	TALLASSEE AL	WHITEVILLE† NC	MEAN
COOK	19.2	20.6	19.5	18.3	18.9	19.0
MAXCY	20.6	20.1	20.9	19.7	.	20.4
G94-3117	19.0	20.6	19.6	19.0	.	19.2
G94-3070	19.8	20.9	20.2	19.7	.	19.9
G94-2832	20.1	20.0	19.6	17.2	.	19.0
G94-1104	20.8	21.2	20.0	19.4	19.4	20.1
G94-1004	20.5	20.2	20.6	18.9	.	20.0
G-HAS-4243	19.9	21.5	19.3	19.6	.	19.6
G95-346	19.3	21.2	20.0	19.0	18.0	19.4
AU95-2020	19.3	21.3	20.6	20.1	17.6	20.0
AU95-757	21.0	22.9	22.6	21.7	.	21.8
AU95-571	20.3	8.6	19.9	19.1	.	19.8
AU95-1985	20.3	21.8	20.2	19.7	20.3	20.1
AU95-668	20.6	21.8	21.5	21.6	19.9	21.2
AU95-2066	20.1	20.9	20.3	19.9	18.9	20.1
N96-7031	20.2	20.5	20.8	19.6	19.1	20.2
N96-6924	20.0	21.0	20.7	19.3	.	20.0
N96-6940	19.4	21.0	20.1	20.2	18.4	19.9
N96-7058	19.3	21.4	19.9	19.3	.	19.5
N96-6894	19.7	20.5	20.4	20.7	18.8	20.3
N96-7082	20.6	20.6	21.1	20.8	.	20.8
N96-7095	20.1	21.4	20.9	20.2	19.3	20.4
SC95-111	19.5	21.6	19.8	19.3	18.3	19.5
SC95-151	20.7	21.4	21.3	19.9	.	20.6
SC95-771	19.5	21.3	19.9	19.5	.	19.6
SC95-994	21.4	21.2	21.1	19.6	.	20.7
SC95-1008	20.6	21.2	20.9	19.4	19.7	20.3
SC95-1351	20.2	19.7	20.2	19.2	.	19.9
SC95-1843	21.5	21.2	21.2	21.4	20.7	21.4
N96-6997	19.3	20.5	19.3	19.1	18.8	19.2
N96-7025	19.4	20.5	20.8	20.3	16.5	20.2
N96-7028	20.0	20.1	19.6	19.2	18.9	19.6
N96-7063	19.9	20.1	19.8	18.7	.	19.5
N96-6992	19.3	20.5	19.4	19.2	17.7	19.3

†Not included in Mean

TABLE 81 - PROTEIN PERCENTAGES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1998

STRAIN/ VARIETY	BLACKVILLE SC	JAY† FL	PLAINS GA	TALLASSEE AL	WHITEVILLE† NC	MEAN
COOK	44.3	42.0	42.0	45.3	43.8	43.9
MAXCY	42.8	42.5	41.2	44.4	.	42.8
G94-3117	45.6	43.2	43.9	45.8	.	45.1
G94-3070	44.7	42.0	43.3	44.9	.	44.3
G94-2832	44.4	42.7	44.1	47.9	.	45.5
G94-1104	43.3	42.7	43.0	45.0	42.2	43.8
G94-1004	42.6	43.8	41.1	45.5	.	43.1
G-HAS-4243	42.6	41.5	42.8	44.1	.	43.2
G95-346	43.4	40.2	42.5	44.2	43.4	43.4
AU95-2020	44.6	40.9	42.7	44.7	43.4	44.0
AU95-757	41.4	39.6	38.0	40.7	.	40.0
AU95-571	43.0	41.3	43.2	45.1	.	43.8
AU95-1985	42.4	40.2	42.5	43.8	41.2	42.9
AU95-668	44.0	41.4	41.9	43.7	41.7	43.2
AU95-2066	43.8	41.6	44.6	44.0	43.4	44.1
N96-7031	41.2	41.7	40.1	43.1	41.0	41.5
N96-6924	41.7	41.7	40.2	43.3	.	41.7
N96-6940	43.5	42.0	41.4	42.5	43.8	42.5
N96-7058	43.8	41.6	42.6	43.6	.	43.3
N96-6894	42.8	42.7	41.0	42.0	42.1	41.9
N96-7082	41.5	42.3	40.5	43.0	.	41.7
N96-7095	42.5	40.5	40.5	42.0	41.7	41.7
SC95-111	43.9	41.4	43.3	45.3	42.4	44.2
SC95-151	42.5	41.2	42.0	44.0	.	42.8
SC95-771	43.8	41.4	43.1	44.0	.	43.6
SC95-994	43.1	42.2	42.6	44.9	.	43.5
SC95-1008	45.7	43.4	44.1	46.6	44.7	45.5
SC95-1351	40.9	42.9	41.3	43.9	.	42.0
SC95-1843	40.5	41.9	39.7	42.0	40.5	40.7
N96-6997	44.3	42.9	44.5	45.0	43.3	44.6
N96-7025	43.3	43.4	41.8	43.3	42.9	42.8
N96-7028	43.4	43.4	43.3	44.9	43.9	43.9
N96-7063	43.3	44.0	43.5	45.2	.	44.0
N96-6992	44.0	42.9	44.1	43.5	43.4	43.9

†Not included in Mean

TABLE 82 - SEED SIZE FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1998

STRAIN/ VARIETY	BLACKVILLE SC	JACKSON SPRINGS NC	JAY† FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	20.3	17.3	10.9	14.9	12.6	16.3
MAXCY	17.8	16.1	10.4	15.2	12.8	15.5
G94-3117	18.8	16.4	11.8	15.1	13.2	15.9
G94-3070	16.4	16.0	11.0	15.7	13.8	15.5
G94-2832	15.0	14.3	9.7	12.8	11.1	13.3
G94-1104	14.3	12.7	10.0	11.8	11.1	12.5
G94-1004	16.4	16.4	10.8	14.1	11.6	14.6
G-HAS-4243	21.1	20.5	13.5	20.2	18.2	20.0
G95-346	16.4	16.5	10.6	14.1	12.9	15.0
AU95-2020	20.3	18.2	12.2	15.7	15.2	17.4
AU95-757	20.8	16.7	11.7	13.8	13.2	16.1
AU95-571	21.8	20.0	12.8	18.5	17.0	19.3
AU95-1985	20.3	18.7	11.8	17.9	16.0	18.2
AU95-668	22.0	17.3	11.7	15.3	13.5	17.0
AU95-2066	18.7	17.1	11.4	16.6	14.8	16.8
N96-7031	15.0	16.1	10.1	14.1	12.5	14.4
N96-6924	15.3	15.9	10.7	13.2	12.6	14.2
N96-6940	17.3	17.8	12.1	14.6	13.0	15.7
N96-7058	16.5	16.2	10.0	16.2	13.0	15.5
N96-6894	17.9	17.2	10.4	14.5	13.1	15.7
N96-7082	16.3	17.4	10.6	15.8	13.9	15.8
N96-7095	15.6	15.4	9.6	15.0	11.8	14.4
SC95-111	18.0	20.1	11.7	17.3	15.6	17.8
SC95-151	18.2	16.7	9.4	15.9	12.9	15.9
SC95-771	17.9	15.5	10.3	13.8	11.5	14.7
SC95-994	17.6	15.2	11.8	13.7	11.6	14.5
SC95-1008	16.6	15.4	10.3	12.2	10.9	13.8
SC95-1351	13.7	15.9	9.3	13.1	11.8	13.6
SC95-1843	17.4	15.7	10.4	14.0	12.6	14.9
N96-6997	17.9	17.3	10.3	16.9	13.1	16.3
N96-7025	16.9	17.1	10.9	16.6	14.8	16.4
N96-7028	16.5	18.3	11.4	15.9	13.1	15.9
N96-7063	16.6	17.3	11.2	15.4	14.7	16.0
N96-6992	16.9	16.1	9.9	14.9	13.0	15.2

†Not included in Mean

**TABLE 83 - PLANT HEIGHT FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII,
1998**

STRAIN/ VARIETY	BLACKVILLE SC	JACKSON SPRINGS NC	JAY† FL	PLAINS GA	TALLASSEE AL	MEAN
COOK	44	26	23	41	42	38
MAXCY	41	27	22	36	43	37
G94-3117	36	20	24	35	39	33
G94-3070	38	20	20	39	40	34
G94-2832	37	24	20	36	34	33
G94-1104	36	21	22	36	36	32
G94-1004	37	22	26	37	40	34
G-HAS-4243	36	21	23	42	41	35
G95-346	36	20	21	32	37	31
AU95-2020	38	21	17	35	39	33
AU95-757	32	20	17	32	32	29
AU95-571	34	19	18	33	35	30
AU95-1985	43	24	21	42	44	38
AU95-668	23	14	13	27	34	24
AU95-2066	30	21	16	35	32	29
N96-7031	34	23	20	38	38	33
N96-6924	24	19	18	29	29	25
N96-6940	25	19	9	33	35	28
N96-7058	30	21	17	37	36	31
N96-6894	29	21	23	36	36	30
N96-7082	38	23	24	40	36	34
N96-7095	39	24	22	38	36	34
SC95-111	39	28	21	39	41	37
SC95-151	40	23	18	40	40	35
SC95-771	41	26	16	42	40	37
SC95-994	30	18	19	35	33	29
SC95-1008	42	23	29	43	43	38
SC95-1351	35	14	14	40	39	32
SC95-1843	38	20	19	36	37	33
N96-6997	29	23	19	38	35	31
N96-7025	38	25	19	41	39	36
N96-7028	32	21	19	40	31	31
N96-7063	29	24	23	37	34	31
N96-6992	36	22	21	41	35	33

†Not included in Mean

TABLE 84 - LODGING SCORES FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII, 1998

STRAIN/ VARIETY	BLACKVILLE SC	JACKSON SPRINGS NC	JAY† FL	PLAINS GA	TALLASSEE AL	WHITEVILLE† NC	MEAN
COOK	2	2	2	2	1	2	2
MAXCY	2	2	2	2	2	.	2
G94-3117	2	2	2	3	1	2	2
G94-3070	2	2	2	2	1	2	2
G94-2832	2	2	2	2	2	3	2
G94-1104	1	2	1	2	1	3	1
G94-1004	2	2	2	2	2	.	2
G-HAS-4243	1	2	2	3	1	.	2
G95-346	2	2	2	3	1	3	2
AU95-2020	2	2	2	2	1	3	2
AU95-757	1	2	1	2	1	2	1
AU95-571	1	2	1	2	1	.	1
AU95-1985	2	2	1	3	1	3	2
AU95-668	1	2	1	1	1	2	1
AU95-2066	1	2	2	2	1	2	2
N96-7031	1	2	2	3	1	2	2
N96-6924	1	2	1	3	1	.	2
N96-6940	1	2	1	2	1	2	1
N96-7058	1	2	1	3	1	.	2
N96-6894	1	2	2	2	1	2	2
N96-7082	2	2	2	3	1	.	2
N96-7095	2	2	2	3	1	2	2
SC95-111	2	2	1	1	1	2	2
SC95-151	2	2	1	2	1	2	2
SC95-771	2	2	1	3	2	.	2
SC95-994	1	2	1	2	1	1	1
SC95-1008	1	2	2	3	1	3	2
SC95-1351	2	2	2	3	1	.	2
SC95-1843	2	2	2	2	1	3	2
N96-6997	2	2	2	2	2	2	2
N96-7025	3	2	2	3	1	3	2
N96-7028	2	2	2	4	1	3	2
N96-7063	2	2	2	3	1	.	2
N96-6992	2	2	3	3	1	2	2

†Not included in Mean

**TABLE 85 - SEED QUALITY FOR STRAIN/VARIETY IN PRELIMINARY GROUP VIII,
1998**

STRAIN/ VARIETY	JACKSON SPRINGS		JAY†	PLAINS	TALLASSEE	MEAN
	NC	FL	GA	AL		
COOK	2	2	2	1	2	
MAXCY	2	3	2	1	2	
G94-3117	2	2	2	1	2	
G94-3070	2	2	2	1	2	
G94-2832	2	3	2	1	2	
G94-1104	2	3	2	1	2	
G94-1004	2	3	2	1	2	
G-HAS-4243	2	2	2	1	2	
G95-346	2	2	2	1	2	
AU95-2020	2	2	2	1	2	
AU95-757	2	2	2	1	2	
AU95-571	2	3	2	1	2	
AU95-1985	2	3	2	1	2	
AU95-668	2	4	4	2	3	
AU95-2066	2	2	2	1	2	
N96-7031	2	4	2	1	2	
N96-6924	2	4	2	1	2	
N96-6940	2	3	2	1	2	
N96-7058	2	3	2	1	2	
N96-6894	2	3	2	1	2	
N96-7082	2	3	2	2	2	
N96-7095	3	3	2	1	2	
SC95-111	2	3	2	1	2	
SC95-151	2	3	2	1	2	
SC95-771	2	3	2	1	2	
SC95-994	2	3	2	1	2	
SC95-1008	2	3	3	1	2	
SC95-1351	2	3	2	1	2	
SC95-1843	2	3	2	1	2	
N96-6997	3	3	3	1	2	
N96-7025	2	3	2	1	2	
N96-7028	2	3	2	1	2	
N96-7063	3	4	2	1	2	
N96-6992	3	3	2	1	2	

†Not included in Mean