UNIFORM SOYBEAN TESTS
SOUTHERN STATES
1992

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

UNIFORM SOYBEAN TESTS

SOUTHERN STATES

1992

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INTRODUCTION

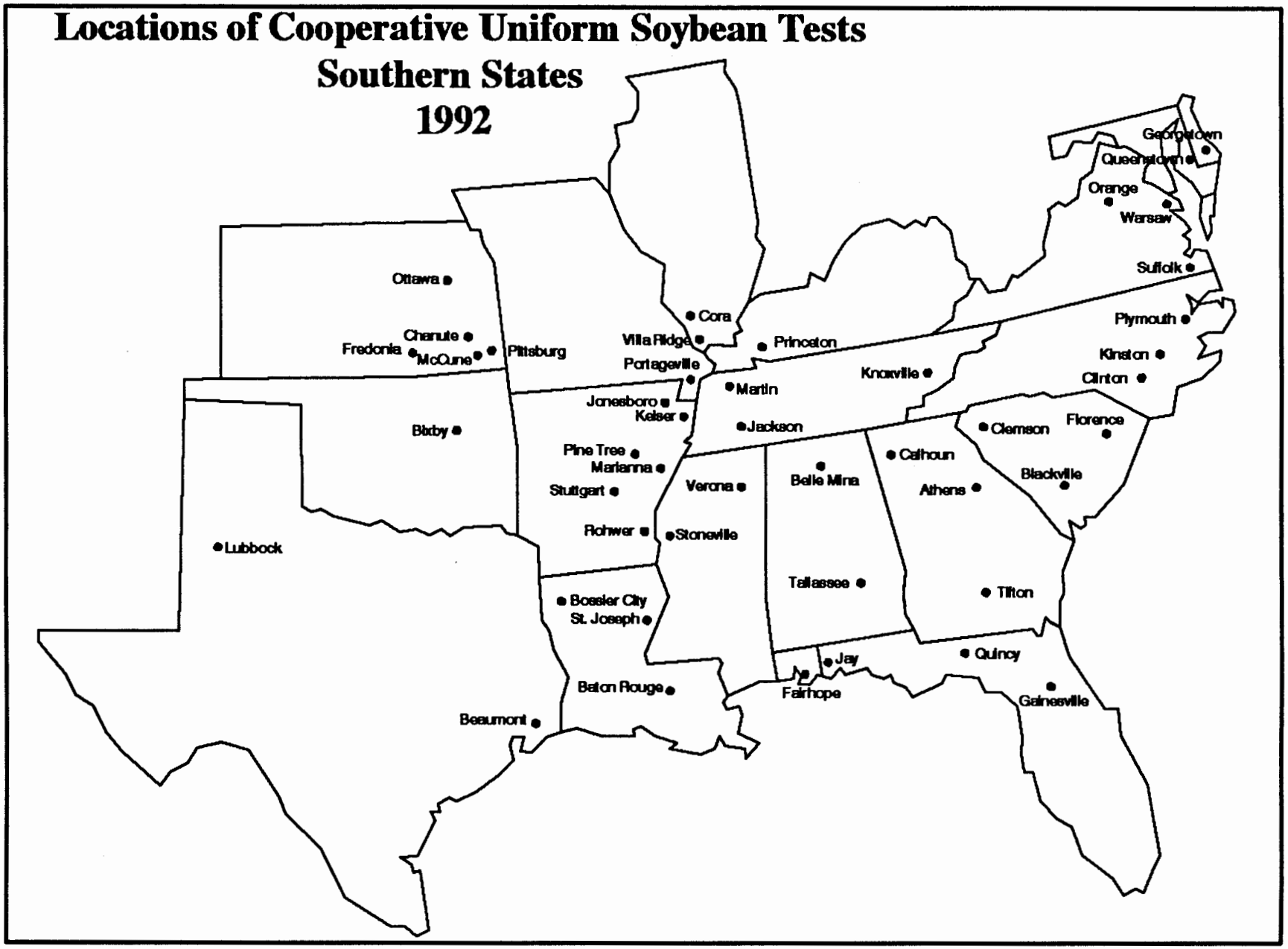
The Uniform Soybean Testing Program has been directed toward the testing of elite breeding lines that ultimately leads to the release of varieties. Breeding lines are developed and evaluated in participating several federal and state research programs. As breeding lines demonstrate specific qualities in the individual programs, they are advanced to the preliminary and southern uniform regional tests, conducted in cooperation with research workers in the southern states. This testing program enables breeders to evaluate new strains under a wide variety of conditions, and permits new strains to be put into production in a minimum amount of time.

Eleven uniform test groups have been established to evaluate the best strains developed in the breeding programs. The groups 00 through IV are adapted in the northern part of the United States, and the groups IV-S through VIII are grown in the southern part. Within their area of adaptation, there is a maturity range of 12 to 18 days within each maturity class. The best standard varieties available of each maturity class are used as check varieties with which to compare new strains as to seed yield, chemical composition, maturity, height, lodging, seed quality, and reaction to diseases and nematodes. For the groups grown in the southern area, the major check varieties are: Manokin, Delsoy 4710, Spry, Essex, Walters, Hartwig, Hutcheson, Bedford, Leflore, Sharkey, Stonewall, Hagood, Perrin and Cook.

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

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

Locations of Cooperative Uniform Soybean Tests
Southern States
1992



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STRAIN DESIGNATION

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

Au	-	Alabama Agricultural Experiment Station, Auburn
D	-	Delta Branch Experiment Station and USDA-ARS
F	-	Florida Agricultural Experiment Station and USDA-ARS
G	-	Georgia Agricultural Experiment Station
K	-	Kansas Agricultural Experiment Station
Ky	-	Kentucky Agricultural Experiment Station
L	-	Illinois Agricultural Experiment Station and USDA-ARS
LS	-	Southern Illinois University, Carbondale
La	-	Louisiana Agricultural Experiment Station
Md	-	Maryland Agricultural Experiment Station and USDA-ARS
N	-	North Carolina Agricultural Experiment Station and USDA-ARS
OK	-	Oklahoma Agricultural Experiment Station
R	-	Arkansas Agricultural Experiment Station
RJ	-	Arkansas State University, Jonesboro
S	-	Missouri Agricultural Experiment Station
SC	-	South Carolina Agricultural Experiment Station, Clemson
Tn	-	Tennessee Agricultural Experiment Station
TsB	-	Texas Agricultural Experiment Station, Beaumont, Texas
V	-	Virginia Agricultural Experiment Station

LOCATION OF SOYBEAN NURSERIES ALONG WITH SOIL TYPE

LOCATION	IV	V	VI	VII	VIII	SOIL
East Coast						
Queenstown, MD	UP	U				Mattapeake silt loam
Georgetown, DE		U				
Warsaw, VA	UP	UP	U			Kempsville loam
Plymouth, NC		UP	UP			Portsmouth silt loam
Kinston, NC			U	U		Norfolk sandy loam
Clinton, NC				UP		Norfolk sandy loam
Florence, SC(A)			U	U	U	Goldsboro sandy loam
Florence, SC(B)				U	U	Wagram sand
Southeast						
Blackville, SC(A)				UP	UP	Marlboro sandy loam
Blackville, SC(B)			U	U	U	Norfolk sandy loam
Tifton, GA			U	U	U	Tifton sandy loam
Tallassee, AL			UP	UP	U	Cahaba s. l.
Gainesville, FL				U	UP	Arredonda fine sand
Quincy, FL			U	U	UP	Orangeburg loamy fine sand
Jay, FL			UP	UP	UP	Red Bay sandy loam
Fairhope, AL			U	U	U	Malbis fine sandy loam
Baton Rouge, LA		U	U	U	U	Olivier silt loam
Upper & Central South						
Orange, VA	U	U				Starr silty clay loam
Clemson, SC		U	U	U		Cecil sandy loam
Calhoun, GA		U	U	U		Rome gravelly clay loam
Athens, GA		U	UP	UP	U	Cecil coarse sand loam
Belle Mina, AL		U	U			Decatur silt loam
Knoxville, TN	U	U				Sequatchie silt loam
Cora, IL	UP	U				Stoy silt loam
Villa Ridge, IL	U	U				
Princeton, KY	UP	U				Crider silt loam
Martin, TN	U	U				Falaja silt loam
Jackson, TN		U	U			Lexington silt loam
Verona, MS	U	U				Tuscumbia silt loam
Suffolk, VA		U	U			Lynchburg fine sandy loam
Delta						
Portageville, MO(A)	UP	UP	U			Tiptonville s.l.
Portageville, MO(B)	U	U	U			Sharkey clay
Keiser, AR	UP	UP	UP			Sharkey clay
Marianna, AR		P				
Jonesboro, AR	U	U	U			Calloway silt loam
Pine Tree, AR	U	U	U			Calloway silt loam
Stoneville, MS(A)	U	UP	UP	UP	U	Boskett f.s.l.
Stoneville, MS(B)	UP	UP	UP	UP	UP	Sharkey clay
Rohwer, AR			U	UP		Perry clay
St. Joseph, LA		U	U	U		Sharkey clay
West						
Fredonia, KS	U					Kenoma silt loam
McCune, KS		U				Parsons silt loam
Ottawa, KS	UP					Woodson s. loam
Pittsburg, KS	U	UP				Parsons silt loam
Chanute, KS	U	U				Parsons silt loam
Bixby, OK	U	U	U			Reinach silt loam
Stuttgart, AR		U	U	U		Crowley silt loam
Bossier City, LA		U	U	U		Moreland silt loam
Beaumont, TX		U	U	UP	UP	Bernard-Morey s. clay loam
Lubbock, TX	U	U				Acuff loam

U Uniform nursery grown
P Preliminary nursery grown

METHODS

Cultural Practices

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

Maturity, Harvest, and Yield

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

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

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

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

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 (60lbs./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

Frogeye leaf spot. Ratings were made on preliminary and uniform tests for Maturity Groups VI, VII, and VIII on August 27, 1992 at Jay, Florida. The ratings were based on percent leaf area affected using the following scale:

1 < 1%; 2 = 1-5%; 3 = 5-10%; 4 = 10-25%; 5 = 25-50%

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 of 1 (< 10 galls per plant) to 5 (> 90 galls per plant) for evaluating the genotypes.

Soybean cyst nematode. The SCN race 3 and 14 ratings reported for UIVS - UVIII were based on screenings made at Jackson, Tennessee in 1991. 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:

R - resistant; MR - moderately resistant; S - susceptible

In some cases a rating of H was assigned when the reaction was considered to be heterozygous.

Stem Canker.

Mississippi. Strains from UIVS-UVIII and PIVS-PVII were evaluated at the Delta Research and Extension Center, Stoneville, Mississippi. Strains were planted in single-row plots 1.8 m long on 2 June in a Boskett fine sandy loam in a randomized complete block design with four replications. A susceptible line (J77-339) was planted every ten plots. Inoculum was produced by aseptically culturing isolate 90-46 of the fungus on autoclaved toothpicks. Twelve plants per plot were inoculated on 8 July by forcing a toothpick through the stem in the upper one-third of the plant. Stem canker lesion development was rated on 26 August, after the susceptible check had been killed by the disease. Strains were assigned a rating based on the mean of four replications using the following scale:

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

Texas. Strains from UVI-UVIII and PVII-PVIII were evaluated under natural inoculum levels at the Texas Agricultural Research and Extension Center, Beaumont, Texas. The uniform test strains were evaluated on 9 September and the preliminary test strains were evaluated on 11 September. The following rating scale was used:

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

Sudden death syndrome. Soybean sudden death syndrome (SDS) was evaluated for UIVS and UV at Cora, Illinois, in three replications of two-row plots 10 foot long. Trials were planted 21 May 1992. Percent of plants with visible leaf symptoms were scored weekly during pod fill, and interpolated to the R6 developmental stage (full seed stage). This interpolated score is abbreviated R6DI. Lattice analysis was used to adjust for positional differences in disease pressure, occasionally resulting in values less than 0 or more than 100. The entry with the lowest DI is marked ** , and those entries not significantly different from it (LSD test, P = 0.1) are marked *.

Statistical Analyses

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

MATURITY

GROUP

IV-S

UNIFORM GROUP IV-S

1992

Uniform Group IV-S nurseries were planted at 22 locations. Data were obtained from 19 of these 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, and protein. Results from individual locations are summarized in Tables 3 - 8.

The cultivar Manokin is the yield and maturity check. It had a mean yield of 45.5 bushels per acre and a mean maturity of October 5 at the 19 locations.

TABLE 1 - PARENTAGE OF THE STRAINS GROWN IN UNIFORM GROUP IV-S, 1992.

	VARIETY OR STRAIN	PARENTAGE	GENERATION COMPOSITED
1.	MANOKIN	L707L-3048 X D78-7424	F5
2.	DELSOY 4710	L77-443 X L77-906	F5
3.	LS82-3646	FORREST X (DORMAN X WILL)	F5
4.	K1170	PERSHING X RIPLEY	F5
5.	V85-3336	ESSEX X R77-576	F5
6.	K1192	SHERMAN X BAY	F5
7.	MD87-5602	PERSHING X D77-5169	F7
8.	K1216	K1099 X PERSHING	F5
9.	K1218	PIONEER 5482 X A3127	F5
10.	Ky88-4080	K1099 X HUTCHESON	F5
11.	LS88-1517	PYRAMID X DOUGLAS	F6
12.	V87-299	ESSEX X V79-2856	F5

Background of lines used as parents:

D74-7424 is a selection from Forrest X D70-3001. D70-3001 is of the same parentage as Centennial.
D77-5169 is a selection from Centennial X J74-47. J74-47 has a parentage similar to Bedford.
K1099 is a selection from K1022 X Essex. K1022 is a selection from Williams X Columbus.
L70L-3048 is a selection from L15 (Wayne Rps) X D64-31146.
L77-443 is a selection from Union X L75-8020. L75-8020 is a Corsoy type resistant to phytophthora rot.
L77-906 is a selection from Williams X PI 209332.
R77-576 is a selection from Forrest X Mack.
V79-2856 is a selection from Hodgson X V73-1899.

TABLE 2 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN UNIFORM GROUP IV-S, 1992.

	YIELD			PROTEIN			OIL		
STRAIN	1992	91-92	90-93	1992	91-92	90-93	1992	91-92	90-93
MANOKIN	45.5	47.8	46.8	39.2	39.2	39.0	20.6	20.9	20.9
DELSOY 4710	41.9	43.7	41.5	39.2	39.2	38.8	20.8	21.0	21.1
LS82-3646	42.4	44.2	43.0	40.7	41.0	40.9	20.7	20.8	20.6
K1170	41.3	43.1	42.7	40.1	40.1	40.0	20.4	20.7	20.6
V85-3336	41.6	44.1	42.9	41.9	41.6	41.5	19.8	20.0	20.0
K1192	44.6	46.8	.	41.5	41.4	.	21.0	21.0	.
MD87-5602	42.2	44.7	.	41.4	41.1	.	20.3	20.4	.
K1216	40.3	.	.	41.2	.	.	20.2	.	.
K1218	39.4	.	.	39.8	.	.	21.0	.	.
Ky88-4080	45.6	.	.	40.5	.	.	21.0	.	.
LS88-1517	44.3	.	.	40.9	.	.	20.8	.	.
V87-299	42.2	.	.	41.1	.	.	20.6	.	.

BOTANTICAL TRAITS

STRAIN	FL. COLOR	HEIGHT	MATURITY DATE	PUB. COLOR	POD WALL	SEED SIZE	SEED QUALITY
MANOKIN	W	27	10/05	T	T	12.9	1.8
DELSOY 4710	P	37	-6	T	T	16.2	2.6
LS82-3646	P	32	-2	T	T	13.3	2.1
K1170	W	26	-1	G	T	16.9	1.7
V85-3336	P	31	-1	T	T	15.1	1.9
K1192	P	35	-4	G	T	12.9	1.9
MD87-5602	W	27	-4	T	T	12.7	1.8
K1216	W	24	-1	G	T	12.8	1.8
K1218	W	24	-5	T	T	12.6	1.7
Ky88-4080	W	24	-3	G	T	13.5	1.7
LS88-1517	P	38	-7	G	Br	17.6	2.5
V87-299	P	36	-13	G	T	15.2	1.9

PEST REACTIONS

STRAIN	M.a.	M.i.	SCN† RACE 3	SCN† RACE 14	STEM CANKER MS	SDS
MANOKIN	2.5	1.8	R	S	1.0	24*
DELSOY 4710	1.8	4.8	R	R	1.0	70
LS82-3646	3.5	5.0	R	S	5.4	90
K1170	3.3	3.3	S	S	4.9	48
V85-3336	3.3	2.3	S	S	4.8	95
K1192	1.5	4.8	S	S	1.0	11*
MD87-5602	4.3	1.3	R	R	4.5	37
K1216	4.0	2.5	S	S	4.4	21*
K1218	2.8	5.0	S	S	1.0	70
Ky88-4080	3.0	2.3	S	S	1.0	26*
LS88-1517	2.5	5.0	R	R	5.5	43
V87-299	2.8	4.4	S	S	5.5	92

* Not significantly different from the resistant check Pharoh (R6DI-5) at P=0.1.
† 1991 evaluations conducted at Jackson, TN

TABLE 3 - SEED YIELD, IN BUSHELS PER ACRE, FOR THE STRAINS IN UNIFORM GROUP IV-S, 1992.

DELTA

STRAIN	JONES-BORO AR	KEISER AR	PINE TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
MANOKIN	45.8	61.1	37.0	49.8	53.1	39.8	39.0	46.5
DELSOY 4710	39.4	47.8	31.7	51.4	54.1	36.7	39.5	42.9
LS82-3646	39.2	50.4	35.1	46.7	51.5	45.0	44.5	44.6
K1170	40.8	52.7	21.8	45.2	51.9	46.5	36.8	42.3
V85-3336	41.7	59.0	33.4	44.1	55.7	40.1	42.1	45.2
K1192	39.5	45.3	28.4	56.3	55.9	44.5	41.1	46.3
MD87-5602	39.3	48.4	29.4	43.9	50.9	45.0	40.6	42.5
K1216	47.7	48.3	16.0	44.0	38.9	39.7	39.2	39.1
K1218	38.1	51.7	20.3	33.5	41.2	38.7	41.9	37.9
Ky88-4080	43.3	49.8	26.7	47.1	51.6	49.2	47.4	45.0
LS88-1517	40.7	53.3	35.0	54.1	56.7	39.4	41.9	45.9
V87-299	33.7	53.3	24.0	44.7	50.3	40.2	42.7	41.3
L.S.D.(0.05)	6.2	5.3	8.9	4.2	5.5	5.8	3.9	
C.V. (%)	9.0	6.0	18.6	5.3	6.3	8.1	5.6	

UPPER AND CENTRAL SOUTH

STRAIN	VILLA RIDGE IL	KNOX-VILLE TN	MARTIN TN	ORANGE VA	PRINCE-TON KY	VERONA MS	CORA IL	MEAN
MANOKIN	25.6	67.8	28.4	47.6	57.2	17.7	48.0	41.7
DELSOY 4710	24.5	43.5	34.1	46.5	52.1	19.3	43.3	37.6
LS82-3646	22.4	53.5	47.6	45.8	57.5	19.1	42.1	41.1
K1170	18.7	53.3	35.3	52.8	56.8	27.7	44.5	41.3
V85-3336	18.1	59.7	35.9	42.5	53.4	26.3	40.3	39.5
K1192	14.4	55.8	36.1	51.5	58.9	32.2	51.6	42.9
MD87-5602	19.2	59.4	42.9	49.0	54.0	16.0	48.6	41.3
K1216	20.3	60.1	25.4	52.3	60.4	22.7	51.6	41.8
K1218	12.8	56.3	26.8	53.6	59.2	16.0	45.6	38.6
Ky88-4080	21.3	64.9	45.6	53.5	63.2	23.2	52.2	46.3
LS88-1517	22.9	54.1	49.6	45.9	51.6	20.3	53.9	42.6
V87-299	22.9	55.6	46.7	51.0	57.5	19.3	41.5	42.1
L.S.D.(0.05)	8.4	8.8	16.3	5.8	7.6	12.3	5.9	
C.V. (%)	24.5	9.1	25.5	6.9	7.9	33.5	7.4	

TABLE 3 - (Continued)

WEST

STRAIN	BIXBY OK	CHANUTE KS†	FRE-DONIA KS	LUBBOCK TX	OTTAWA KS†	PITTS-BURG KS†	MEAN
MANOKIN	55.9	.	37.1	58.1	.	.	50.4
DELSOY 4710	55.7	.	36.2	45.2	.	.	45.7
LS82-3646	45.6	.	31.0	40.9	.	.	39.2
K1170	45.5	.	28.6	35.4	.	.	36.5
V85-3336	46.1	.	32.0	30.0	.	.	36.0
K1192	47.6	.	42.3	32.5	.	.	40.8
MD87-5602	53.5	.	23.1	47.0	.	.	41.2
K1216	42.1	.	29.0	36.5	.	.	35.9
K1218	49.9	.	38.3	28.6	.	.	38.9
Ky88-4080	56.0	.	37.3	35.9	.	.	43.1
LS88-1517	51.6	.	32.1	43.2	.	.	42.3
V87-299	49.4	.	36.5	34.0	.	.	40.0
L.S.D. (0.05)	6.3	.	5.1	9.4	.	.	
C.V. (%)	7.5	.	8.7	14.2	.	.	

EAST COAST

STRAIN	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	47.2	49.1	48.2
DELSOY 4710	48.3	47.0	47.7
LS82-3646	41.2	46.7	43.9
K1170	42.8	47.6	45.2
V85-3336	44.5	45.7	45.1
K1192	50.7	48.8	49.7
MD87-5602	44.3	48.1	46.2
K1216	44.0	47.1	45.6
K1218	47.4	48.0	47.7
Ky88-4080	46.1	51.9	49.0
LS88-1517	47.6	47.8	47.7
V87-299	47.8	50.7	49.2
L.S.D. (0.05)	4.8	5.2	
C.V. (%)	6.1	6.4	

† Unable to harvest plots due to adverse weather conditions.

TABLE 4 - CHEMICAL COMPOSITION AND SEED SIZE FOR THE STRAINS IN UNIFORM GROUP IV-S, 1992.

OIL PERCENTAGE

STRAIN	BIXBY OK	CORA IL	FREDONIA KS	JONESBORO AR	KEISER AR	LUBBOCK TX	ORANGE VA	PINETREE AR
MANOKIN	.	21.4	.	.	22.7	20.9	20.4	.
DELSOY 4710	.	21.9	.	.	22.3	20.5	20.7	.
LS82-3646	.	22.5	.	.	20.7	20.0	21.2	.
K1170	.	20.6	.	.	21.6	20.9	20.6	.
V85-3336	.	20.4	.	.	21.1	20.6	20.0	.
K1192	.	20.6	.	.	21.8	21.4	21.7	.
MD87-5602	.	21.0	.	.	20.4	21.8	20.0	.
K1216	.	20.4	.	.	21.7	21.2	19.9	.
K1218	.	21.9	.	.	22.0	21.1	20.9	.
Ky88-4080	.	22.6	.	.	21.6	21.0	21.5	.
LS88-1517	.	21.7	.	.	21.9	21.0	21.5	.
V87-299	.	22.2	.	.	21.9	21.0	20.2	.

PROTEIN PERCENTAGE

STRAIN	BIXBY OK	CORA IL	FREDONIA KS	JONESBORO AR	KEISER AR	LUBBOCK TX	ORANGE VA	PINETREE AR
MANOKIN	.	36.3	.	.	38.1	40.8	34.0	.
DELSOY 4710	.	36.1	.	.	38.3	40.0	36.7	.
LS82-3646	.	35.9	.	.	42.5	42.6	38.0	.
K1170	.	38.0	.	.	40.3	40.0	37.6	.
V85-3336	.	39.6	.	.	41.5	41.1	40.2	.
K1192	.	41.1	.	.	41.9	40.6	40.8	.
MD87-5602	.	37.9	.	.	42.6	39.8	39.1	.
K1216	.	40.0	.	.	40.9	40.5	40.3	.
K1218	.	36.5	.	.	40.5	39.5	38.1	.
Ky88-4080	.	38.1	.	.	41.0	40.5	38.4	.
LS88-1517	.	39.3	.	.	40.9	38.9	38.7	.
V87-299	.	36.8	.	.	41.4	41.7	40.4	.

GRAMS PER 100 SEED

STRAIN	BIXBY OK	CORA IL	FREDONIA KS	JONESBORO AR	KEISER AR	LUBBOCK TX	ORANGE VA	PINETREE AR
MANOKIN	15.3	10.9	12.8	14.3	.	14.9	13.8	12.7
DELSOY 4710	19.6	16.3	15.1	17.3	.	19.1	18.0	11.7
LS82-3646	16.6	12.0	13.0	14.7	.	14.5	14.2	11.3
K1170	14.3	10.7	11.1	11.7	.	13.7	12.4	10.7
V85-3336	15.0	10.5	11.0	13.0	.	13.6	12.8	12.7
K1192	14.9	12.6	12.9	13.7	.	14.3	13.9	11.3
MD87-5602	15.1	11.4	13.0	13.3	.	11.0	14.1	12.3
K1216	13.9	11.6	13.3	13.7	.	14.7	13.2	11.7
K1218	15.0	11.2	11.1	13.0	.	14.1	14.4	12.0
Ky88-4080	16.5	12.1	.	14.0	.	14.9	13.8	12.7
LS88-1517	21.3	15.9	16.3	18.3	.	18.8	19.1	15.7
V87-299	18.4	13.6	15.9	16.0	.	16.4	16.6	14.0

TABLE 4 - (Continued)

OIL PERCENTAGE

STRAIN	PORTAGE-VILLE MO(A)	PRINCETON KY	QUEENS-TOWN MD	STONE-VILLE MS(B)	VILLA RIDGE IL	WARSAW VA	MEAN
MANOKIN	19.8	20.4	19.9	20.2	.	19.9	20.6
DELSOY 4710	20.2	20.9	20.8	19.4	.	20.5	20.8
LS82-3646	20.0	21.1	19.0	21.8	.	20.2	20.7
K1170	19.7	20.3	19.1	21.1	.	19.8	20.4
V85-3336	19.1	19.4	19.1	20.5	.	18.4	19.8
K1192	20.6	20.8	20.6	20.5	.	20.7	21.0
MD87-5602	.	19.0	19.1	21.5	.	19.2	20.3
K1216	19.3	19.6	19.0	21.0	.	19.7	20.2
K1218	20.3	21.9	20.1	20.3	.	20.9	21.0
Ky88-4080	20.4	21.7	20.0	20.0	.	20.4	21.0
LS88-1517	19.5	20.6	19.9	21.2	.	19.8	20.8
V87-299	19.4	21.2	19.4	20.4	.	20.1	20.6

PROTEIN PERCENTAGE

STRAIN	PORTAGE-VILLE MO(A)	PRINCETON KY	QUEENS-TOWN MD	STONE-VILLE MS(B)	VILLA RIDGE IL	WARSAW VA	MEAN
MANOKIN	41.0	38.6	38.4	43.3	.	42.2	39.2
DELSOY 4710	39.7	37.9	39.8	43.3	.	41.2	39.2
LS82-3646	42.7	40.1	41.9	40.2	.	42.8	40.7
K1170	40.6	39.5	40.6	42.0	.	42.3	40.1
V85-3336	43.3	42.1	42.3	42.3	.	44.9	41.9
K1192	42.2	40.6	40.9	42.7	.	42.9	41.5
MD87-5602	.	42.5	43.2	41.8	.	43.9	41.4
K1216	41.4	40.9	41.8	41.1	.	43.5	41.2
K1218	40.3	39.3	40.0	42.1	.	41.5	39.8
Ky88-4080	40.7	38.8	41.1	42.9	.	43.3	40.5
LS88-1517	42.6	40.7	41.8	40.3	.	44.8	40.9
V87-299	42.2	39.7	42.1	42.9	.	43.0	41.1

GRAMS PER 100 SEED

STRAIN	PORTAGE-VILLE MO(A)	PRINCETON KY	QUEENS-TOWN MD	STONE-VILLE MS(B)	VILLA RIDGE IL	WARSAW VA	MEAN
MANOKIN	12.4	.	11.2	10.6	11.7	12.2	12.7
DELSOY 4710	15.4	.	15.8	13.8	13.4	16.2	16.0
LS82-3646	13.2	.	12.6	12.0	10.6	13.2	13.2
K1170	11.0	.	10.7	10.5	10.0	11.5	11.5
V85-3336	12.3	.	11.6	11.7	13.3	11.6	12.4
K1192	12.1	.	12.9	11.4	11.2	11.8	12.8
MD87-5602	12.6	.	13.2	11.9	11.2	12.7	12.7
K1216	12.8	.	12.3	11.8	11.2	12.8	12.7
K1218	11.3	.	13.0	11.5	10.7	12.6	12.5
Ky88-4080	12.5	.	13.0	12.9	11.7	13.3	13.4
LS88-1517	16.8	.	17.1	14.9	16.1	17.8	17.4
V87-299	14.0	.	15.0	13.1	11.7	15.6	15.0

TABLE 5 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN MANOKIN FOR THE STRAINS IN UNIFORM GROUP IV-S, 1992.

UPPER AND CENTRAL SOUTH

STRAIN	VILLA RIDGE IL	KNOX-VILLE TN	MARTIN TN	ORANGE VA	PRINCE-TON KY	VERONA MS	CORA IL	MEAN
MANOKIN	10/05	10/04	10/15	10/21	10/09	.	10/07	10/10
DELSOY 4710	-3	-11	0	-9	-9	.	-13	-7
LS82-3646	2	-3	0	-2	-2	.	-3	-1
K1170	0	-1	0	0	-2	.	-4	-1
V85-3336	0	-1	0	-1	-2	.	-4	-1
K1192	1	-7	0	-7	-7	.	-5	-4
MD87-5602	-2	1	0	-5	-7	.	-6	-3
K1216	-1	0	0	-2	-4	.	-2	-1
K1218	-2	-6	0	-7	-7	.	-9	-5
Ky88-4080	-2	-1	0	-4	-7	.	-6	-3
LS88-1517	-4	-4	0	-10	-13	.	-13	-7
V87-299	-7	-10	0	-8	-9	.	-15	-22

DELTA

STRAIN	JONES-BORO AR	KEISER AR	PINE TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
MANOKIN	10/05	10/06	09/27	10/01	10/08	09/19	09/24	09/30
DELSOY 4710	-6	-6	-2	-5	-7	-4	-3	-5
LS82-3646	0	-7	-7	0	-4	1	-3	-3
K1170	-2	-4	-2	-1	-1	2	0	-1
V85-3336	0	1	-1	0	-2	2	-1	0
K1192	-10	-9	-7	-4	-2	2	-3	-5
MD87-5602	-3	-7	-7	-5	-6	-4	-3	-5
K1216	-1	-5	-7	-1	-2	1	-1	-2
K1218	-9	-5	-7	-11	-4	-3	-3	-6
Ky88-4080	-4	-7	-7	-6	-2	-3	-2	-4
LS88-1517	-7	-7	-7	-6	-9	-5	-10	-7
V87-299	-10	-9	-7	-13	-8	-5	-10	-9

TABLE 5 - (Continued)

WEST

STRAIN	BIXBY OK	CHANUTE KS†	FREDONIA KS	LUB-BOCK TX	OTTAWA KS†	PITTS-BURG KS†	MEAN
MANOKIN	.	.	.	10/04	.	.	10/04
DELSOY 4710	.	.	.	-9	.	.	-9
LS82-3646	.	.	.	-4	.	.	-4
K1170	.	.	.	-3	.	.	-3
V85-3336	.	.	.	-5	.	.	-5
K1192	.	.	.	-4	.	.	-4
MD87-5602	.	.	.	-5	.	.	-5
K1216	.	.	.	-1	.	.	-1
K1218	.	.	.	-4	.	.	-4
Ky88-4080	.	.	.	-1	.	.	-1
LS88-1517	.	.	.	-10	.	.	-10
V87-299	.	.	.	-8	.	.	-8

EAST COAST

STRAIN	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	10/11	10/08	10/09
DELSOY 4710	-3	-7	-4
LS82-3646	0	0	0
K1170	3	0	2
V85-3336	1	-2	0
K1192	-1	-6	-3
MD87-5602	-3	-4	-3
K1216	1	0	1
K1218	-2	-5	-3
Ky88-4080	1	0	1
LS88-1517	-5	-9	-7
V87-299	-3	-7	-4

† Unable to harvest plots due to adverse weather conditions.

TABLE 6 - PLANT HEIGHT FOR THE STRAINS IN UNIFORM GROUP IV-S, 1992.

UPPER AND CENTRAL SOUTH

STRAIN	VILLA RIDGE IL	KNOX-VILLE TN	MARTIN TN	ORANGE VA	PRINCE-TON KY	CORA IL	MEAN
MANOKIN	25	35	27	33	35	38	32
DELSOY 4710	29	43	41	40	41	46	40
LS82-3646	26	39	35	39	40	43	37
K1170	21	35	29	33	32	37	31
V85-3336	25	39	35	37	36	41	35
K1192	27	44	33	39	40	40	37
MD87-5602	24	35	27	35	34	40	32
K1216	23	32	26	31	31	35	30
K1218	19	33	29	34	34	39	31
Ky88-4080	22	33	26	31	29	33	29
LS88-1517	30	48	36	41	40	46	40
V87-299	30	46	40	42	42	46	41

DELTA

STRAIN	JONES-BORO AR	KEI-SER AR	PINE TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
MANOKIN	34	21	18	29	19	26	26	25
DELSOY 4710	50	38	32	37	33	43	36	38
LS82-3646	40	23	34	32	25	29	27	30
K1170	31	18	17	24	20	25	23	23
V85-3336	38	25	22	29	27	31	27	28
K1192	37	38	29	37	29	39	33	35
MD87-5602	32	22	19	23	18	26	24	23
K1216	31	18	14	22	20	21	20	21
K1218	32	18	15	14	15	24	19	20
Ky88-4080	27	18	15	23	20	21	21	21
LS88-1517	48	35	32	40	33	41	36	38
V87-299	47	31	26	38	27	37	32	34

TABLE 6 - (Continued)

WEST

STRAIN	BIXBY OK	FREDONIA KS	LUBBOCK TX	MEAN
MANOKIN	31	28	23	27
DELSOY 4710	36	35	21	31
LS82-3646	32	31	24	29
K1170	29	22	22	24
V85-3336	32	30	25	29
K1192	33	32	30	32
MD87-5602	31	24	19	25
K1216	24	21	20	22
K1218	25	23	20	23
Ky88-4080	24	22	18	21
LS88-1517	38	33	31	34
V87-299	39	31	28	33

EAST COAST

STRAIN	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	23	25	24
DELSOY 4710	34	34	34
LS82-3646	28	31	30
K1170	23	22	23
V85-3336	29	28	29
K1192	36	27	31
MD87-5602	26	23	25
K1216	23	20	22
K1218	22	20	21
Ky88-4080	22	21	22
LS88-1517	34	33	34
V87-299	32	32	32

TABLE 7 - LODGING SCORES FOR THE STRAINS IN UNIFORM GROUP IV-S, 1992.

UPPER AND CENTRAL SOUTH

STRAIN	VILLA RIDGE IL	KNOX-VILLE TN	MARTIN TN	ORANGE VA	PRINCE-TON KY	CORA IL	MEAN
MANOKIN	2.7	2.3	4.0	4.0	2.7	4.2	3.3
DELSOY 4710	2.5	3.2	3.7	1.3	3.0	3.2	2.8
LS82-3646	2.5	3.2	2.3	2.7	2.3	5.0	3.0
K1170	1.3	1.7	1.7	1.3	1.0	3.0	1.7
V85-3336	1.8	2.8	2.7	2.7	2.0	4.5	2.8
K1192	1.3	2.7	1.7	1.0	1.0	2.2	1.6
MD87-5602	1.7	2.2	2.3	3.0	1.0	3.7	2.3
K1216	1.5	1.5	2.7	1.7	1.0	2.3	1.8
K1218	1.0	1.2	2.0	1.3	1.0	1.8	1.4
Ky88-4080	1.5	1.7	1.7	1.0	1.0	1.8	1.4
LS88-1517	2.7	4.3	3.0	1.0	1.3	3.5	2.6
V87-299	1.5	2.2	2.7	1.3	1.3	1.7	1.8

DELTA

STRAIN	JONES-BORO AR	KEISER AR	PINE TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
MANOKIN	1.3	1.0	1	1	1	2.7	2.7	1.5
DELSOY 4710	1.7	1.2	1	2	1	3.7	3.0	1.9
LS82-3646	1.0	1.0	1	2	1	2.0	2.3	1.5
K1170	1.0	1.0	1	1	1	2.0	2.0	1.3
V85-3336	1.3	1.0	1	1	1	3.0	2.0	1.5
K1192	1.0	1.0	1	1	1	3.0	2.0	1.4
MD87-5602	1.0	1.0	1	1	1	2.3	2.0	1.3
K1216	1.0	1.0	1	1	1	2.0	2.0	1.3
K1218	1.0	1.0	1	1	1	2.7	2.0	1.4
Ky88-4080	1.0	1.0	1	1	1	2.0	2.0	1.3
LS88-1517	1.3	1.5	1	2	1	4.0	3.0	2.0
V87-299	1.0	1.0	1	2	1	3.0	2.0	1.6

TABLE 7 - (Continued)

WEST

STRAIN	BIXBY OK	FREDONIA KS	LUBBOCK TX	MEAN
MANOKIN	2	3.0	2.2	2.4
DELSOY 4710	.	2.3	1.8	2.1
LS82-3646	1	3.3	1.2	1.8
K1170	.	3.3	1.2	2.3
V85-3336	1	2.0	1.5	1.5
K1192	.	1.0	1.5	1.3
MD87-5602	1	3.0	1.2	1.7
K1216	.	2.0	1.7	1.9
K1218	.	1.0	1.0	1.0
Ky88-4080	.	1.0	1.0	1.0
LS88-1517	.	3.0	1.8	2.4
V87-299	1	2.0	1.8	1.6

EAST COAST

STRAIN	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	2.7	1.6	2.1
DELSOY 4710	3.2	1.7	2.4
LS82-3646	3.3	1.6	2.5
K1170	1.5	1.0	1.3
V85-3336	2.5	1.6	2.0
K1192	2.0	1.0	1.5
MD87-5602	2.3	1.1	1.7
K1216	1.5	1.0	1.3
K1218	1.7	1.0	1.3
Ky88-4080	1.5	1.0	1.3
LS88-1517	2.8	1.5	2.2
V87-299	2.3	1.2	1.8

TABLE 8 - SEED QUALITY SCORES FOR THE STRAINS IN UNIFORM GROUP IV-S, 1992.

UPPER AND CENTRAL SOUTH

STRAIN	VILLA RIDGE IL	KNOX-VILLE TN	MARTIN TN	ORANGE VA	PRINCE-TON KY	CORA IL	MEAN
MANOKIN	2.0	1.8	2.0	1.0	2	2.0	1.8
DELSOY 4710	3.7	3.8	4.0	1.0	3	3.0	3.1
LS82-3646	2.3	2.8	2.7	1.0	4	2.0	2.5
K1170	2.3	1.5	2.0	1.0	1	1.7	1.6
V85-3336	1.7	2.3	2.7	1.3	2	1.7	1.9
K1192	3.3	3.0	2.3	1.0	2	2.3	2.3
MD87-5602	3.3	2.2	2.0	1.0	2	2.0	2.1
K1216	2.7	2.0	2.7	1.0	1	2.7	2.0
K1218	3.0	1.7	2.3	1.2	1	2.0	1.9
Ky88-4080	1.7	2.0	2.0	1.0	1	2.0	1.6
LS88-1517	4.7	3.3	3.7	1.2	3	2.7	3.1
V87-299	2.7	2.0	3.0	1.0	1	2.3	2.0

DELTA

STRAIN	JONES-BORO AR	PINE TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
MANOKIN	1.7	2.0	2	2	2.3	2.0	2.0
DELSOY 4710	2.0	2.0	3	3	2.7	2.0	2.4
LS82-3646	2.0	2.0	2	2	2.0	2.0	2.0
K1170	1.3	1.7	2	2	2.0	2.0	1.8
V85-3336	2.0	2.0	2	2	2.0	2.0	2.0
K1192	2.0	1.3	2	2	2.0	2.0	1.9
MD87-5602	2.0	1.7	1	2	2.0	2.0	1.8
K1216	1.3	1.7	2	2	2.0	2.0	1.8
K1218	2.0	1.7	1	2	2.0	2.3	1.8
Ky88-4080	1.3	2.0	2	2	2.0	2.0	1.9
LS88-1517	2.3	2.0	2	3	3.0	3.0	2.6
V87-299	2.3	1.7	2	2	2.0	2.0	2.0

TABLE 8 - (Continued)

WEST

STRAIN	FREDONIA KS	LUBBOCK TX	MEAN
MANOKIN	2	1.5	1.8
DELSOY 4710	2	2.0	2.0
LS82-3646	2	1.2	1.6
K1170	2	1.5	1.8
V85-3336	2	1.2	1.6
K1192	1	2.0	1.5
MD87-5602	2	1.2	1.6
K1216	2	2.0	2.0
K1218	2	1.2	1.6
Ky88-4080	.	1.7	1.7
LS88-1517	2	1.7	1.9
V87-299	2	1.2	1.6

EAST COAST

STRAIN	QUEENSTOWN MD	WARSAW VA	MEAN
MANOKIN	1.5	1.1	1.3
DELSOY 4710	2.2	1.8	2.0
LS82-3646	1.5	1.8	1.7
K1170	1.3	1.1	1.2
V85-3336	1.5	1.9	1.7
K1192	1.0	1.2	1.1
MD87-5602	1.3	1.2	1.3
K1216	1.0	1.2	1.1
K1218	1.2	1.2	1.2
Ky88-4080	1.0	1.1	1.0
LS88-1517	1.5	1.3	1.4
V87-299	1.5	1.4	1.5

PRELIMINARY GROUP IV-S

1992

Preliminary Group IV-S nurseries were planted at 8 locations. Data were obtained from 7 of these 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 stem canker rating. Results from individual locations are summarized in Tables 11 -17.

The cultivar Manokin is the yield and maturity check. It had a mean yield of 49.2 bushels per acre and a mean maturity of October 6 at the 7 locations.

TABLE 9 - PARENTAGE OF THE STRAINS GROWN IN PRELIMINARY GROUP IV-S, 1992.

	VARIETY OR STRAIN	PARENTAGE
1.	MANOKIN	L70L-3048 X D74-7824
2.	DELSOY 4710	L77-443 X L77-906
3.	SPRY	L78-8694 X L78L-494
4.	K1240	HUTCHESON X A3427
5.	K1241	STAFFORD X HUTCHESON
6.	K1242	STAFFORD X HUTCHESON
7.	K1243	HUTCHESON X A2943
8.	K1244	HUTCHESON X A3966
9.	K1245	STAFFORD X COKER 425
10.	K1246	STAFFORD X ELGIN
11.	Ky89-08054	COKER 425 X RA452
12.	Ky89-08137	COKER 425 X RA452
13.	LS87-315	LS77-952 X NATHAN
14.	LS89-1524	LS77-952 X LS77-330
15.	LS89-1529	LS77-952 X LS77-330
16.	LS89-1532	LS77-952 X LS77-330
17.	LS89-2010	Ts76-952 X LS79-330
18.	Md89-5051	K1099 X S82-1443
19.	Md89-5289	MORGAN X Tn83-7
20.	OK88-5420	DOUGLAS X ESSEX
21.	OK89-5927	FORREST X YORK X CLARK
22.	S88-1074	S79-4226 X CUMBERLAND
23.	S89-1015	FORREST(2) X PI437654
24.	S90-1056	FAYETTE X S81-2203
25.	S90-1058	FAYETTE X S81-2203
26.	Tn89-68	A5474 X Tn80-69
27.	Tn89-162	Tn5-85 X A5474
28.	Tn89-206	Tn5-85 X PERSHING
29.	V87-1457	N77-114 X A5474
30.	V88-202	V80-174B X V79-881

TABLE 10 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP IV-S, 1992.

STRAIN	SEED YIELD	MAT. INDEX	PERCENT			STEM CANKER MS
			HT.	OIL	PROTEIN	
MANOKIN	49.2	10/06	28	20.8	39.6	1.0
DELSOY 4710	47.8	8-	40	21.1	39.3	1.0
SPRY	43.9-	10-	30	21.4+	40.8+	5.0
K1240	45.4	5+	41	21.8+	41.1+	5.0
K1241	43.8-	4-	29	21.6+	40.7+	1.0
K1242	50.1	3+	31	21.4+	39.8	1.0
K1243	48.7	2-	36	21.9+	40.5	1.0
K1244	49.6	4+	39	21.7+	40.9+	1.0
K1245	45.9	1+	27	20.6	40.1	.
K1246	49.7	3-	33	21.7+	40.6+	1.0
Ky89-08054	46.4	8-	27	21.0	40.3	.
Ky89-08137	50.8	1-	38	21.2	40.8+	1.0
LS87-315	40.6-	8-	28	19.7-	40.4	1.0
LS89-1524	42.3-	8-	28	19.8-	40.1	1.0
LS89-1529	42.6-	6-	30	19.9-	40.2	1.0
LS89-1532	41.7-	8-	28	19.9-	40.0	1.0
LS89-2010	43.0-	3-	31	20.8	39.3	4.5
Md89-5051	48.3	1-	28	20.7	39.3	4.3
Md89-5289	46.7	6-	40	21.1	42.0+	1.0
OK88-5420	48.7	6+	30	20.4	40.9+	.
OK89-5927	35.0-	5+	35	19.9-	40.6+	1.0
S88-1074	44.1-	9-	39	21.3+	40.8+	1.0
S89-1015	41.8-	2-	31	20.2-	39.3	.
S90-1056	47.6	6-	36	21.1	41.9+	1.0
S90-1058	44.1-	8-	34	21.2	42.3+	1.0
Tn89-68	43.5-	2+	34	19.8-	40.4	4.3
Tn89-162	44.4	3+	33	19.4-	42.1+	4.8
Tn89-206	45.8	3+	32	20.1-	41.9+	4.3
V87-1457	49.1	1+	32	20.7	39.7	4.5
V88-202	41.7-	0	25	21.5+	41.6+	4.0
L.S.D. (.05)	5.0			0.5	0.9	
C.V.(%)	11%			2%	2%	

(+) or (-) designations refer to significant differences to Manokin at the 0.05 probability level.

TABLE 11 - SEED YIELD, IN BUSHELS PER ACRE, FOR THE STRAINS IN PRELIMINARY GROUP IV-S, 1992.

STRAIN	VILLA RIDGE IL	KEISER AR	OTTAWA KS†	PORTAGE-VILLE MO	PRINCE-TON KY	QUEENS-TOWN MD	STONE-VILLE MS(B)	WAR-SAW VA	MEAN
MANOKIN	49.6	64.1	.	48.4	54.0	42.7	40.4	45.4	49.2
DELSOY 4710	48.0	48.3-	.	45.6	54.5	48.3+	38.9	50.7+	47.8
SPRY	37.6-	48.5-	.	31.6-	53.9	44.0	40.6	50.9+	43.9-
K1240	34.4-	46.4-	.	43.7	49.5	48.8+	40.0	55.3+	45.4
K1241	46.4	41.9-	.	38.5	55.8	39.2	38.5	46.7	43.8-
K1242	35.2-	55.4-	.	57.9	62.7	43.8	43.6	52.0+	50.1
K1243	36.0-	57.0-	.	46.6	59.3	49.5+	38.7	53.5+	48.7
K1244	38.4-	56.1-	.	54.8	57.3	49.2+	36.0	55.6+	49.6
K1245	38.4-	49.9-	.	49.0	50.7	43.2	40.4	49.5+	45.9
K1246	35.2-	57.0-	.	43.5	66.9+	49.1+	44.8	51.4+	49.7
Ky89-08054	44.0	44.5-	.	34.9-	63.2+	46.5	41.5	50.2+	46.4
Ky89-08137	36.0-	56.9-	.	53.8	59.2	53.2+	42.0	54.8+	50.8
LS87-315	40.0-	41.9-	.	36.2-	48.0	36.6-	36.2	45.7	40.6-
LS89-1524	40.8	41.1-	.	39.4	50.8	42.1	35.3-	46.7	42.3-
LS89-1529	40.0-	48.5-	.	41.4	50.3	38.5	36.0	43.8	42.6-
LS89-1532	37.6-	45.1-	.	35.0-	51.2	41.8	34.7-	46.4	41.7-
LS89-2010	36.8-	53.8-	.	41.9	48.2	36.2-	38.9	45.5	43.0-
Md89-5051	41.6	55.1-	.	43.3	53.1	49.8+	45.8+	49.6+	48.3
Md89-5289	36.0-	50.7-	.	45.1	53.1	50.2+	35.9	55.6+	46.7
OK88-5420	38.4-	63.8	.	46.8	53.3	43.4	43.7	51.3+	48.7
OK89-5927	24.8-	41.1-	.	40.4	31.0-	39.0	28.5-	40.6-	35.0-
S88-1074	40.0-	46.2-	.	44.2	45.7	43.9	37.2	51.3+	44.1-
S89-1015	36.8-	45.2-	.	46.6	49.9	34.0-	36.0	44.0	41.8-
S90-1056	41.6	54.3-	.	45.2	55.8	46.3	37.0	53.2+	47.6
S90-1058	33.6-	49.3-	.	42.9	47.7	46.3	37.1	52.1+	44.1-
Tn89-68	31.2-	54.9-	.	55.3	47.1	37.5-	35.1-	43.6	43.5-
Tn89-162	29.6-	54.6-	.	55.8	43.5-	40.3	38.3	48.9+	44.4
Tn89-206	25.6-	58.9	.	49.3	49.2	47.0	40.8	49.9+	45.8
V87-1457	32.8-	56.1-	.	47.9	64.9+	44.1	44.6	53.3+	49.1
V88-202	32.8-	39.7-	.	33.9-	54.8	44.6	34.7-	51.2+	41.7-
L.S.D. (0.05)	9.6	6.2	.	9.9	9.2	4.9	4.6	3.4	5.0
C.V. (%)	12.6	6.0	.	10.9	8.5	5.5	5.9	3.3	10.6

(+) or (-) designations refer to significant differences to Manokin at the 0.05 probability level.
† Unable to harvest plots due to adverse weather conditions.

TABLE 12 - OIL PERCENTAGES FOR THE STRAINS IN PRELIMINARY GROUP IV-S, 1992.

STRAIN	CORA IL	KEISER AR	PORTAGE-VILLE MO	QUEENS-TOWN MD	STONE-VILLE MS(B)	WARSAW VA	MEAN
MANOKIN	21.4	22.3	19.9	20.1	20.8	20.1	20.8
DELSOY 4710	22.9	21.9	20.5	20.2	20.9	20.3	21.1
SPRY	22.1	21.4	21.1	20.2	22.0	21.4	21.4
K1240	21.8	22.1	21.6	22.4	21.6	21.0	21.8
K1241	23.4	22.0	21.0	20.4	21.8	21.1	21.6
K1242	22.6	22.2	20.5	20.1	22.0	20.9	21.4
K1243	22.4	22.6	21.8	20.9	22.0	21.8	21.9
K1244	21.9	22.5	21.4	21.1	21.5	21.6	21.7
K1245	21.3	21.1	20.2	19.0	21.3	20.6	20.6
K1246	22.3	22.4	21.3	20.8	21.8	21.8	21.7
Ky89-08054	22.0	21.9	20.0	20.0	21.2	20.7	21.0
Ky89-08137	22.1	21.8	20.7	20.5	21.0	21.1	21.2
LS87-315	21.3	20.4	18.5	18.5	20.2	19.5	19.7
LS89-1524	21.7	20.6	18.7	18.3	20.3	19.3	19.8
LS89-1529	21.4	20.8	19.0	18.7	20.5	19.1	19.9
LS89-1532	21.9	21.3	18.5	18.6	20.1	19.0	19.9
LS89-2010	22.9	21.7	19.6	19.4	21.3	19.6	20.8
Md89-5051	21.6	21.8	20.3	19.1	21.0	20.1	20.7
Md89-5289	21.9	21.9	20.2	20.3	20.7	21.4	21.1
OK88-5420	20.8	21.8	19.5	19.7	20.5	19.9	20.4
OK89-5927	20.6	21.4	19.6	18.9	19.4	19.7	19.9
S88-1074	22.0	22.1	20.9	20.4	21.5	21.0	21.3
S89-1015	21.1	21.2	19.2	18.9	21.0	19.5	20.2
S90-1056	21.9	21.7	20.7	19.9	21.4	21.1	21.1
S90-1058	22.1	22.1	20.5	20.3	21.5	20.7	21.2
Tn89-68	19.5	21.3	19.7	19.0	20.4	18.7	19.8
Tn89-162	19.4	20.6	18.6	18.6	19.9	19.2	19.4
Tn89-206	21.3	20.9	19.4	18.4	19.8	20.8	20.1
V87-1457	21.5	21.4	19.7	20.2	20.7	20.5	20.7
V88-202	23.3	21.4	20.6	20.4	21.6	21.6	21.5

TABLE 13 - PROTEIN PERCENTAGES FOR THE STRAINS IN PRELIMINARY GROUP IV-S, 1992.

STRAIN	CORA IL	KEISER AR	PORTAGE-VILLE MO	QUEENS-TOWN MD	STONE-VILLE MS(B)	WARSAW VA	MEAN
MANOKIN	36.7	38.6	40.6	38.5	42.2	40.8	39.6
DELSOY 4710	35.9	39.1	38.3	40.0	40.3	42.0	39.3
SPRY	38.2	40.7	40.6	41.4	41.2	42.8	40.8
K1240	40.4	41.0	40.4	40.8	42.0	42.1	41.1
K1241	37.7	40.5	40.0	41.9	42.0	42.2	40.7
K1242	37.1	40.1	40.0	40.2	40.0	41.3	39.8
K1243	38.6	40.2	40.3	41.0	41.4	41.3	40.5
K1244	39.7	40.6	41.2	40.0	42.2	41.6	40.9
K1245	38.5	39.9	39.3	40.3	40.8	42.0	40.1
K1246	39.5	40.7	40.0	40.2	41.5	41.5	40.6
Ky89-08054	37.9	40.0	40.2	40.4	41.0	42.2	40.3
Ky89-08137	39.2	41.2	41.0	40.1	41.9	41.4	40.8
LS87-315	35.7	39.9	41.0	41.5	41.4	42.7	40.4
LS89-1524	36.0	39.8	39.7	41.4	41.0	42.8	40.1
LS89-1529	37.0	39.4	40.4	41.1	41.0	42.3	40.2
LS89-1532	35.4	39.3	40.8	41.1	40.8	42.4	40.0
LS89-2010	34.9	39.7	39.7	40.1	40.0	41.5	39.3
Md89-5051	36.6	39.4	38.8	39.7	40.6	40.6	39.3
Md89-5289	39.8	41.2	42.2	42.5	43.8	42.6	42.0
OK88-5420	37.9	40.1	41.3	41.1	42.4	42.7	40.9
OK89-5927	37.0	40.0	40.3	41.1	43.5	41.6	40.6
S88-1074	39.0	40.2	40.4	41.4	41.0	42.5	40.8
S89-1015	35.0	39.5	40.1	40.8	39.9	40.6	39.3
S90-1056	40.0	42.1	41.9	42.7	41.8	42.7	41.9
S90-1058	39.8	41.7	42.1	43.3	42.3	44.3	42.3
Tn89-68	38.8	40.0	40.3	39.6	41.1	42.6	40.4
Tn89-162	39.4	41.6	43.0	41.6	43.2	43.6	42.1
Tn89-206	38.0	41.8	41.4	42.7	44.6	42.6	41.9
V87-1457	36.8	39.6	40.5	39.8	41.1	40.4	39.7
V88-202	37.4	42.8	43.0	41.6	42.0	42.5	41.6

TABLE 14 - SEED SIZE FOR THE STRAINS IN PRELIMINARY GROUP IV-S, 1992.

STRAIN	VILLA RIDGE IL	PORTAGE-VILLE MO	QUEENS-TOWN MD	STONE VILLE MS(B)	WARSAW VA	MEAN
MANOKIN	13.2	11.3	12.0	11.5	11.5	11.9
DELSOY 4710	15.1	15.5	16.4	13.8	16.5	15.5
SPRY	14.5	14.0	15.6	13.9	15.5	14.7
K1240	13.1	13.6	16.3	12.1	16.0	14.2
K1241	12.9	12.1	13.9	12.4	13.5	13.0
K1242	11.6	11.3	11.6	11.6	11.5	11.5
K1243	12.7	14.4	15.9	12.7	16.0	14.3
K1244	15.7	16.1	16.9	12.9	17.0	15.7
K1245	12.2	12.1	12.2	11.1	12.5	12.0
K1246	11.5	11.9	13.2	11.8	12.0	12.1
Ky89-08054	10.6	10.6	12.3	11.6	12.5	11.5
Ky89-08137	13.0	13.5	15.2	12.3	14.5	13.7
S87-315	10.5	10.9	11.6	11.9	11.5	11.3
LS89-1524	10.4	11.4	11.7	10.5	11.0	11.0
LS89-1529	10.7	10.7	11.6	11.0	11.0	11.0
LS89-1532	9.8	11.1	11.2	11.4	10.5	10.8
LS89-2010	9.5	10.6	10.5	9.7	11.0	10.3
Md89-5051	16.1	15.2	16.0	14.1	16.5	15.6
Md89-5289	11.9	12.8	14.6	11.7	14.0	13.0
OK88-5420	11.8	13.2	14.7	12.3	14.0	13.2
OK89-5927	12.7	11.9	13.0	9.8	12.5	12.0
S88-1074	16.1	15.3	17.2	13.8	17.0	15.9
S89-1015	11.7	12.4	12.5	11.6	12.0	12.0
S90-1056	17.1	16.4	18.1	14.8	18.0	16.9
S90-1058	15.7	16.4	17.1	14.7	18.5	16.5
Tn89-68	10.1	12.0	11.9	13.3	12.0	11.9
Tn89-162	9.4	11.0	11.6	10.2	11.5	10.7
Tn89-206	9.3	10.6	12.7	10.7	12.0	11.1
V87-1457	10.0	11.3	12.2	11.5	12.0	11.4
V88-202	9.5	12.9	12.6	12.0	13.0	12.0

TABLE 15 - PLANT HEIGHT FOR THE STRAINS IN PRELIMINARY GROUP IV-S, 1992.

STRAIN	VILLA RIDGE IL	KEISER AR	PORTAGE-VILLE MO	PRINCE-TON KY	QUEENS-TOWN MD	STONE-VILLE MS	WARSAW VA	MEAN
MANOKIN	37	25	30	34	25	19	25	28
DELSOY 4710	47	40	41	42	35	37	38	40
SPRY	43	25	29	36	28	24	26	30
K1240	44	42	47	39	40	37	40	41
K1241	41	21	31	36	25	20	27	29
K1242	43	23	33	37	29	23	30	31
K1243	39	38	32	40	34	33	35	36
K1244	40	42	45	42	35	35	35	39
K1245	39	21	25	35	24	22	27	27
K1246	37	37	34	35	27	32	29	33
Ky89-08054	40	20	22	34	25	21	25	27
Ky89-08137	44	39	33	43	35	39	36	38
LS87-315	42	24	25	33	25	24	27	28
LS89-1524	43	20	29	34	26	21	26	28
LS89-1529	40	23	27	38	29	24	29	30
LS89-1532	40	23	23	34	28	22	26	28
LS89-2010	40	25	28	36	30	27	31	31
Md89-5051	35	22	29	34	26	24	25	28
Md89-5289	48	41	34	43	38	39	37	40
OK88-5420	39	24	28	35	27	28	33	30
OK89-5927	46	29	34	40	33	28	34	35
S88-1074	48	41	35	42	36	37	36	39
S89-1015	42	23	32	38	29	24	31	31
S90-1056	42	36	38	37	33	30	35	36
S90-1058	41	32	32	37	32	32	32	34
Tn89-68	42	27	35	40	27	34	34	34
Tn89-162	44	27	34	40	28	26	31	33
Tn89-206	42	25	30	38	28	30	33	32
V87-1457	45	25	30	42	29	25	32	32
V88-202	42	18	12	31	27	20	25	25

TABLE 16 - LODGING SCORES FOR THE STRAINS IN PRELIMINARY GROUP IV-S, 1992.

STRAIN	VILLA RIDGE IL	KEISER AR	PORTAGE-VILLE MO	PRINCE-TON KY	QUEENS-TOWN MD	STONE-VILLE MS(B)	WARSAW VA	MEAN
MANOKIN	4.5	1.0	2	3.0	3.0	3.0	1.0	2.5
DELSOY 4710	3.3	1.0	2	4.0	3.5	3.0	1.5	2.6
SPRY	3.5	1.0	1	1.5	3.5	2.5	1.5	2.1
K1240	5.0	2.5	3	2.5	3.3	3.0	2.0	3.0
K1241	1.8	1.0	1	1.0	2.8	2.0	1.0	1.5
K1242	4.0	1.0	1	1.5	2.3	2.0	1.0	1.8
K1243	1.5	1.3	1	1.0	2.3	2.5	1.0	1.5
K1244	1.0	1.0	1	1.0	2.0	3.0	1.0	1.4
K1245	2.5	1.0	1	1.0	2.0	2.0	1.0	1.5
K1246	1.5	1.0	2	1.0	2.3	2.0	1.0	1.5
Ky89-08054	2.3	1.0	1	1.0	3.0	2.0	1.0	1.6
Ky89-08137	2.0	1.0	1	1.0	2.3	2.0	1.0	1.5
LS87-315	3.3	1.0	1	1.0	3.8	2.0	1.0	1.9
LS89-1524	2.8	1.0	1	1.5	3.3	2.0	1.0	1.8
LS89-1529	4.3	1.0	1	1.5	3.5	2.0	1.5	2.1
LS89-1532	2.5	1.0	1	1.0	2.8	2.0	1.0	1.6
LS89-2010	3.3	1.0	1	1.0	3.3	2.0	1.0	1.8
Md89-5051	5.0	1.0	1	2.0	2.0	2.0	1.0	2.0
Md89-5289	1.3	1.0	1	1.0	2.8	3.0	1.0	1.6
OK88-5420	2.0	1.0	1	1.0	3.5	2.0	1.0	1.6
OK89-5927	1.5	1.0	1	1.0	2.0	2.0	1.0	1.4
S88-1074	4.5	1.5	1	4.0	2.5	3.0	1.0	2.5
S89-1015	4.0	1.0	2	2.5	3.5	2.0	1.5	2.4
S90-1056	3.0	1.0	2	2.0	3.0	3.0	1.0	2.1
S90-1058	3.5	1.0	1	2.5	2.8	3.0	1.0	2.1
Tn89-68	2.0	1.0	2	1.5	2.8	3.0	1.0	1.9
Tn89-162	4.5	1.0	2	3.0	3.0	2.0	1.0	2.4
Tn89-206	2.8	1.0	1	1.5	2.5	2.0	1.0	1.7
V87-1457	4.3	1.0	1	2.5	3.5	2.0	1.0	2.2
V88-202	2.3	1.0	1	1.0	3.5	2.0	1.0	1.7

TABLE 17 - SEED QUALITY SCORES FOR THE STRAINS IN PRELIMINARY GROUP IV-S, 1992.

STRAIN	VILLA RIDGE IL	PORTAGE-VILLE MO	PRINCE-TON KY	QUEENS-TOWN MD	STONE-VILLE MS(B)	WARSAW VA	MEAN
MANOKIN	2.0	2	3	2.0	2.0	1.3	2.0
DELSOY 4710	4.0	3	4	2.5	2.5	2.1	3.0
SPRY	3.0	2	2	2.0	2.0	1.1	2.0
K1240	2.5	2	2	1.3	2.0	1.4	1.9
K1241	1.0	2	1	1.5	2.0	1.2	1.5
K1242	2.5	2	1	1.0	2.0	1.0	1.6
K1243	2.5	2	2	1.3	2.0	1.4	1.9
K1244	3.0	2	3	1.5	2.5	1.1	2.2
K1245	2.5	1	2	1.3	2.0	1.1	1.6
K1246	2.0	2	2	1.5	2.0	1.2	1.8
Ky89-08054	2.5	1	2	1.8	2.0	1.0	1.7
Ky89-08137	2.5	2	2	1.3	2.0	1.1	1.8
LS87-315	3.0	2	1	2.5	2.0	1.2	2.0
LS89-1524	1.5	2	1	2.8	2.0	1.5	1.8
LS89-1529	2.5	2	3	2.8	2.0	1.5	2.3
LS89-1532	3.5	2	2	2.8	2.0	1.2	2.2
LS89-2010	3.0	2	3	2.5	2.5	1.2	2.4
Md89-5051	2.5	2	4	1.8	2.0	1.7	2.3
Md89-5289	3.0	2	3	1.0	2.5	1.3	2.1
OK88-5420	2.0	2	2	2.3	2.0	1.0	1.9
OK89-5927	3.0	2	3	1.3	2.0	1.1	2.1
S88-1074	3.0	2	3	2.0	2.0	1.4	2.2
S89-1015	3.0	3	5	2.3	2.0	1.7	2.8
S90-1056	4.0	3	4	2.0	2.0	1.1	2.7
S90-1058	2.5	3	3	1.8	2.0	1.4	2.3
Tn89-68	3.0	2	3	2.0	2.5	1.7	2.4
Tn89-162	1.0	2	2	1.0	2.0	1.0	1.5
Tn89-206	3.0	2	2	1.3	2.0	1.0	1.9
V87-1457	3.0	2	2	1.8	2.0	1.0	2.0
V88-202	2.0	2	2	1.0	2.0	1.0	1.7

MATURITY

GROUP

V

UNIFORM GROUP V

1992

Uniform Group V nurseries were planted at 32 locations. Data were obtained from 30 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. Results from individual locations are summarized in Tables 20 - 25.

The cultivar Essex is the yield and maturity check. It had a mean yield of 45.7 bushels per acre and a mean maturity of October 7 at the 30 locations.

TABLE 18 - PARENTAGE OF THE STRAINS GROWN IN UNIFORM GROUP V, 1992.

	VARIETY OR STRAIN	PARENTAGE	GENERATION COMPOSITED
1.	ESSEX	LEE X S55-7075	F5
2.	WALTERS	FORREST X NAROW	F5
3.	HARTWIG	FORREST(3) X PI 437654	F5
4.	Ky85-11020	ESSEX X ELF	F5
5.	N86-7682	N77-114 X PIXIE	F6
6.	D88-5547	D82-3298 X D77-6056	F5
7.	D89-7077	CORDELL X D77-6056	F5
8.	Ky88-1702	FFR561 X K1099	F5
9.	R89-332	PERSHING X NAROW	
10.	S88-1934	FORREST(3) X PI 437654	F5
11.	S88-7166	FORREST(3) X PI 437654	F5
12.	V87-396	ESSEX X LS79-330	F4

Background of lines used as parents:

D77-6056 is a selection from Centennial X J74-47 grown in Uniform Group V in 1982-84.

D82-3298 is a selection from Bedford X sel (Forrest X D75-10169) grown in Uniform Group V in 1985.

K1099 is a selection from K1022 X Essex. K1022 is a selection from Williams X Columbus.

LS79-330 is a selection from Forrest X V71-480. V71-480 is a selection from V63-76 X V66-318 which was grown in Uniform Group V in 1974.

N77-114 is a selection from Essex X N70-2173. N70-2173 was grown in Uniform Group VI in 1980.

S55-7075 is a selection from N48-1248 X Perry which was grown in Uniform Group VI. N48-1248 has the same parentage as Hood.

TABLE 19 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN UNIFORM GROUP V, 1992.

	YIELD			PROTEIN			OIL		
STRAIN	1992	91-92	90-93	1992	91-92	90-93	1992	91-92	90-93
ESSEX	45.7	43.5	43.9	42.7	42.5	42.3	20.3	20.4	20.5
WALTERS	45.4	45.0	45.2	40.1	40.1	39.9	20.1	20.2	20.3
HARTWIG	43.4	42.8	42.4	39.8	39.8	39.6	20.3	20.3	20.3
Ky85-11020	47.3	46.2	46.0	41.2	41.0	40.9	20.8	20.9	20.9
N86-7682	48.0	47.8	.	40.1	39.8	.	21.1	21.4	.
D88-5547	44.7	.	.	41.8	.	.	19.8	.	.
D89-7077	45.2	.	.	39.9	.	.	19.3	.	.
Ky88-1702	46.8	.	.	40.4	.	.	20.5	.	.
R89-332	47.0	.	.	39.8	.	.	20.7	.	.
S88-1934	43.6	.	.	39.3	.	.	19.4	.	.
S88-7166	41.5	.	.	38.9	.	.	20.3	.	.
V87-396	47.0	.	.	42.8	.	.	20.4	.	.

BOTANTICAL TRAITS

STRAIN	FL. COLOR	HEIGHT	MATURITY DATE	PUB. COLOR	POD WALL	SEED SIZE	SEED QUALITY
ESSEX	P	27	10/07	G	T	14.3	1.9
WALTERS	P	34	5	T	T	20.4	1.8
HARTWIG	W	30	4	T	Br	16.8	2.1
Ky85-11020	P	28	2	G	T	15.5	1.9
N86-7682	P	31	3	G	Br	15.9	1.8
D88-5547	W	33	3	T	T	16.7	2.1
D89-7077	W	36	3	T	T	12.5	2.1
Ky88-1702	W	30	1	G	T	14.5	1.8
R89-332	P	27	2	G	T	13.9	1.7
S88-1934	W	36	6	T	T	13.3	2.2
S88-7166	W	32	5	T	Br	14.6	2.1
V87-396	P	31	5	G	T	14.5	1.6

PEST REACTIONS

STRAIN	M.a.	M.i.	SCN† RACE 3	SCN† RACE 14	SBL‡	STEM CANKER MS	SDS
ESSEX	3.8	3.5	S	S	3	5.0	87
WALTERS	3.0	1.5	R	S	3	5.5	72
HARTWIG	4.0	2.6	R	R	4	5.3	9*
Ky85-11020	3.8	4.0	S	S	3	4.5	88
N86-7682	5.0	4.5	S	S	3	4.8	98
D88-5547	2.8	1.8	R	R	2	5.1	2**
D89-7077	4.0	5.0	R	S	4	4.5	16*
Ky88-1702	5.0	4.0	S	S	4	4.3	31
R89-332	3.0	5.0	H§	S	3	4.8	83
S88-1934	3.5	2.5	R	R	5	4.9	36
S88-7166	4.5	2.5	R	R	4	4.9	23
V87-396	3.0	5.0	S	S	3	4.6	99

* Not significantly different from the most desirable score at P=0.1
** Most desirable score obtained
† 1991 evaluations conducted at Jackson, TN
‡ 1991 evaluations conducted in a field cage at Stoneville, MS
§ Signifies a heterozygous reaction

TABLE 20 - SEED YIELD, IN BUSHELS PER ACRE, FOR THE STRAINS IN UNIFORM GROUP V, 1992.

DELTA

STRAIN	BATON ROUGE LA	JONES-BORO AR	KEI-SER AR	PINE TREE AR	POR-TAGE-VILLE MO(A)	POR-TAGE-VILLE MO(B)	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
ESSEX	34.7	31.2	54.4	28.3	56.3	49.7	59.4	42.2	36.5	43.6
WALTERS	36.9	36.1	64.1	46.5	52.3	55.3	59.4	35.6	39.5	47.3
HARTWIG	33.9	29.7	54.8	30.9	57.1	46.3	59.7	37.5	37.0	43.0
Ky85-11020	35.1	38.2	57.9	27.4	59.2	48.5	66.8	45.1	36.0	46.0
N86-7682	38.2	38.8	63.2	25.4	48.5	58.0	64.1	37.7	39.5	45.9
D88-5547	33.1	35.3	59.0	36.4	58.8	52.6	62.4	43.0	37.4	46.5
D89-7077	33.0	34.9	56.3	37.1	62.2	50.8	55.4	41.5	35.3	45.2
Ky88-1702	29.9	32.2	62.2	28.4	57.7	52.6	62.3	37.0	38.4	44.5
R89-332	35.2	36.3	65.4	38.2	58.6	54.9	63.2	36.9	38.0	47.4
S88-1934	32.3	27.8	53.1	35.8	50.8	44.3	55.4	35.2	33.1	40.8
S88-7166	32.8	31.3	53.7	32.4	58.5	45.7	53.0	30.2	32.5	41.1
V87-396	34.0	33.8	58.8	32.7	56.1	55.9	66.1	40.4	44.5	46.9
L.S.D. (0.05)	4.8	7.3	5.7	10.1	5.0	4.8	7.7	4.9	4.8	
C.V. (%)	10.1	12.4	5.8	20.6	5.2	5.5	7.5	7.5	7.6	

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	BELLE MINA AL	CALHOUN GA	CLEMSON SC	JACKSON TN	KNOX-VILLE TN
ESSEX	59.6	60.4	54.4	49.7	55.8	64.2
WALTERS	49.1	64.2	55.0	47.2	55.8	40.0
HARTWIG	51.4	53.1	63.3	47.2	57.3	48.3
Ky85-11020	39.3	66.3	58.5	46.4	59.6	59.7
N86-7682	40.9	70.1	60.9	61.2	55.5	61.9
D88-5547	46.1	62.8	50.8	47.2	58.3	44.1
D89-7077	46.1	61.6	56.7	50.5	58.6	54.4
Ky88-1702	53.0	58.0	52.9	52.7	55.5	55.4
R89-332	35.0	63.3	65.4	54.1	62.9	48.6
S88-1934	51.4	57.2	62.0	48.0	55.5	49.4
S88-7166	41.6	59.8	51.1	55.1	51.2	45.1
V87-396	41.9	69.0	66.7	49.1	58.1	50.7
L.S.D. (0.05)	17.9	10.3	9.6	9.4	7.1	11.7
C.V. (%)	22.0	9.8	9.9	11.0	7.4	13.3

UPPER AND CENTRAL SOUTH

STRAIN	MARTIN TN	ORANGE VA	PRINCE-TON KY	SUFFOLK VA	VERONA MS	CORA IL	MEAN
ESSEX	26.6	51.8	54.2	51.1	22.7	26.1	48.0
WALTERS	35.8	39.1	54.7	52.0	29.9	32.0	46.2
HARTWIG	51.3	38.3	54.1	43.8	22.2	28.4	46.6
Ky85-11020	41.5	53.4	64.6	52.5	21.0	24.3	48.9
N86-7682	40.9	53.6	57.9	52.0	28.9	25.5	50.8
D88-5547	37.2	40.9	48.2	44.2	35.6	26.1	45.1
D89-7077	44.3	40.9	50.9	45.4	30.8	37.3	48.1
Ky88-1702	46.7	49.9	56.9	50.9	25.6	30.2	49.0
R89-332	31.4	50.3	64.4	49.2	27.9	32.6	48.8
S88-1934	47.4	36.3	48.6	48.6	33.0	32.6	47.5
S88-7166	49.6	33.4	48.2	33.8	27.9	31.4	44.0
V87-396	41.3	43.2	54.4	59.4	40.6	24.9	50.0
L.S.D. (0.05)	13.2	6.2	7.4	9.3	8.4	5.8	
C.V. (%)	18.9	8.3	7.9	11.3	12.7	11.7	

TABLE 20 - (Continued)

WEST

STRAIN	BIXBY OK	BOSSIER CITY LA	CHANUTE KS†	LUBBOCK TX	MCCUNE KS	PITTSBURG KS	STUTTGART AR	MEAN
ESSEX	53.0	25.6	.	47.4	48.7	47.4	39.4	43.6
WALTERS	50.7	38.4	.	42.9	32.7	32.4	43.5	40.1
HARTWIG	46.3	37.0	.	45.1	37.8	33.8	32.7	38.8
Ky85-11020	50.0	31.0	.	56.2	46.4	46.5	38.3	44.7
N86-7682	54.4	38.9	.	43.7	50.5	46.8	39.5	45.6
D88-5547	49.7	28.9	.	49.9	43.1	37.3	34.8	40.6
D89-7077	42.6	34.3	.	45.8	41.1	41.3	38.0	40.5
Ky88-1702	56.1	35.3	.	53.9	46.2	48.1	36.3	46.0
R89-332	51.0	30.5	.	46.0	46.1	48.9	35.6	43.0
S88-1934	41.8	41.1	.	41.3	40.3	39.2	36.6	40.0
S88-7166	40.7	37.1	.	41.8	33.8	33.7	34.3	36.9
V87-396	48.8	21.3	.	44.1	45.3	43.5	45.8	41.5
L.S.D. (0.05)	8.5	7.4	.	7.8	4.3	4.3	6.1	
C.V. (%)	10.2	13.1	.	9.9	5.5	5.8	9.5	

EAST COAST

STRAIN	GEORGETOWN DE†	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
ESSEX	.	45.8	44.3	49.4	46.5
WALTERS	.	53.8	41.9	45.8	47.2
HARTWIG	.	44.1	36.1	42.9	41.0
Ky85-11020	.	50.4	46.9	52.9	50.0
N86-7682	.	54.1	42.4	47.2	47.9
D88-5547	.	49.8	43.8	43.5	45.7
D89-7077	.	42.2	40.5	44.9	42.5
Ky88-1702	.	50.3	43.7	47.3	47.1
R89-332	.	47.9	43.8	47.9	46.5
S88-1934	.	49.2	38.1	43.9	43.8
S88-7166	.	45.9	35.7	43.6	41.7
V87-396	.	44.6	44.8	49.5	46.3
L.S.D. (0.05)	.	7.5	4.6	3.4	
C.V. (%)	.	9.2	6.4	4.3	

† Unable to harvest plots due to adverse weather conditions.

TABLE 21 - CHEMICAL COMPOSITION AND SEED SIZE FOR THE STRAINS IN UNIFORM GROUP V, 1992.

OIL PERCENTAGE

STRAIN	ATHENS GA	BIXBY OK	CALHOUN GA	JONES-BORO AR	KEISER AR	LUBBOCK TX	MARTIN TN	MCCUNE KS	ORANGE VA	PINE TREE AR
ESSEX	20.4	.	.	.	20.8	21.3	19.8	.	19.5	.
WALTERS	21.0	.	.	.	21.6	19.7	19.4	.	19.6	.
HARTWIG	20.9	.	.	.	20.6	19.8	20.2	.	20.4	.
Ky85-11020	21.3	.	.	.	21.5	21.4	20.3	.	19.8	.
N86-7682	21.2	.	.	.	22.0	21.6	20.9	.	20.1	.
D88-5547	20.1	.	.	.	21.3	19.2	19.8	.	18.3	.
D89-7077	19.9	.	.	.	20.0	19.0	18.8	.	19.0	.
Ky88-1702	21.4	.	.	.	21.2	20.9	21.2	.	19.2	.
R89-332	20.7	.	.	.	22.0	21.4	20.9	.	20.3	.
S88-1934	19.9	.	.	.	20.3	19.6	19.0	.	18.7	.
S88-7166	21.0	.	.	.	21.5	20.4	20.4	.	19.7	.
V87-396	20.5	.	.	.	21.1	21.1	20.2	.	19.9	.

PROTEIN PERCENTAGE

STRAIN	ATHENS GA	BIXBY OK	CALHOUN GA	JONES-BORO AR	KEISER AR	LUBBOCK TX	MARTIN TN	MCCUNE KS	ORANGE VA	PINE TREE AR
ESSEX	42.9	.	.	.	43.0	40.8	43.8	.	41.0	.
WALTERS	40.3	.	.	.	39.8	41.0	40.1	.	33.8	.
HARTWIG	40.5	.	.	.	40.1	39.6	40.1	.	33.8	.
Ky85-11020	41.8	.	.	.	40.8	39.8	41.2	.	40.2	.
N86-7682	41.0	.	.	.	39.9	39.4	40.5	.	37.5	.
D88-5547	44.4	.	.	.	40.8	41.1	40.6	.	38.7	.
D89-7077	41.3	.	.	.	39.3	39.5	40.8	.	36.0	.
Ky88-1702	40.4	.	.	.	39.9	39.2	40.5	.	40.1	.
R89-332	40.5	.	.	.	38.8	38.3	39.3	.	38.3	.
S88-1934	40.9	.	.	.	38.6	38.5	39.7	.	35.1	.
S88-7166	39.6	.	.	.	38.3	38.2	38.5	.	33.7	.
V87-396	45.2	.	.	.	42.0	41.6	42.1	.	40.5	.

GRAMS PER 100 SEED

STRAIN	ATHENS GA	BIXBY OK	CALHOUN GA	JONES-BORO AR	KEISER AR	LUBBOCK TX	MARTIN TN	MCCUNE KS	ORANGE VA	PINE TREE AR
ESSEX	17.2	16.5	16.0	11.5	.	14.4	14.6	15.0	14.6	13.7
WALTERS	15.4	14.5	16.8	12.3	.	12.8	15.0	9.6	14.0	13.7
HARTWIG	15.1	14.8	18.5	11.3	.	12.7	16.6	14.1	13.3	13.3
Ky85-11020	18.5	17.2	16.1	14.3	.	16.4	13.9	16.5	17.0	14.3
N86-7682	17.3	15.4	16.3	12.3	.	13.6	15.7	14.4	14.5	12.7
D88-5547	15.0	13.9	15.1	12.3	.	13.1	13.8	14.4	13.4	12.3
D89-7077	15.1	14.4	13.3	12.0	.	12.3	13.5	12.3	12.9	12.3
Ky88-1702	19.0	17.2	16.1	12.3	.	15.6	14.4	15.6	14.6	13.7
R89-332	16.2	15.3	15.7	13.0	.	13.8	14.7	15.6	14.9	13.0
S88-1934	16.0	14.2	15.8	12.0	.	13.3	14.6	12.6	13.7	14.0
S88-7166	14.2	14.5	15.7	11.7	.	12.7	13.5	12.3	12.8	13.7
V87-396	16.7	16.3	17.0	13.3	.	14.9	15.7	17.1	15.1	13.0

TABLE 21 - (Continued)

OIL PERCENTAGE

STRAIN	PITTS-BURG KS	PLYMOUTH NC	PORTAGE-VILLE MO(B)	QUEENS-TOWN MD	ST. JOSEPH LA	STONE-VILLE MS(A)	STUTT-GART AR	SUFFOLK VA	VILLA RIDGE IL	WARSAW VA	MEAN
ESSEX	.	19.9	20.1	19.8	20.9	20.3	.	.	.	20.0	20.3
WALTERS	.	20.5	19.2	18.8	21.0	20.6	.	.	.	19.6	20.1
HARTWIG	.	20.9	19.7	19.1	20.6	21.2	.	.	.	19.5	20.3
Ky85-11020	.	20.0	20.6	20.5	21.7	21.2	.	.	.	20.4	20.8
N86-7682	.	21.3	21.3	19.7	21.7	21.8	.	.	.	20.8	21.1
D88-5547	.	20.2	19.5	19.7	20.9	19.3	.	.	.	19.2	19.8
D89-7077	.	19.6	19.0	18.9	20.1	19.2	.	.	.	19.2	19.3
Ky88-1702	.	20.4	20.2	19.6	20.9	20.4	.	.	.	20.0	20.5
R89-332	.	19.6	20.8	19.4	21.0	20.9	.	.	.	20.3	20.7
S88-1934	.	20.2	19.1	18.4	20.4	18.7	.	.	.	19.5	19.4
S88-7166	.	20.6	19.5	19.0	21.2	19.5	.	.	.	20.5	20.3
V87-396	.	19.8	21.0	19.5	21.0	20.7	.	.	.	19.8	20.4

PROTEIN PERCENTAGE

STRAIN	PITTS-BURG KS	PLYMOUTH NC	PORTAGE-VILLE MO(B)	QUEENS-TOWN MD	ST. JOSEPH LA	STONE-VILLE MS(A)	STUTT-GART AR	SUFFOLK VA	VILLA RIDGE IL	WARSAW VA	MEAN
ESSEX	.	44.0	41.8	41.5	42.6	43.8	.	.	.	44.1	42.7
WALTERS	.	41.8	39.3	39.8	40.8	42.5	.	.	.	41.6	40.1
HARTWIG	.	40.8	39.8	40.1	40.7	41.0	.	.	.	41.6	39.8
Ky85-11020	.	43.8	40.3	39.6	39.8	42.9	.	.	.	42.5	41.2
N86-7682	.	41.3	38.9	40.1	40.5	41.0	.	.	.	41.5	40.1
D88-5547	.	43.0	41.6	40.6	41.8	44.5	.	.	.	43.0	41.8
D89-7077	.	41.3	38.8	38.6	40.4	41.9	.	.	.	41.5	39.9
Ky88-1702	.	41.2	39.1	39.8	40.2	41.3	.	.	.	42.2	40.4
R89-332	.	42.6	38.5	39.6	39.5	41.5	.	.	.	41.3	39.8
S88-1934	.	40.1	38.6	37.7	40.4	42.2	.	.	.	40.2	39.3
S88-7166	.	40.6	38.9	38.9	40.3	41.9	.	.	.	39.5	38.9
V87-396	.	45.0	40.8	42.2	43.6	43.7	.	.	.	44.5	42.8

GRAMS PER 100 SEED

STRAIN	PITTS-BURG KS	PLYMOUTH NC	PORTAGE-VILLE MO(B)	QUEENS-TOWN MD	ST. JOSEPH LA	STONE-VILLE MS(A)	STUTT-GART AR	SUFFOLK VA	VILLA RIDGE IL	WARSAW VA	MEAN
ESSEX	15.8	.	12.1	11.9	.	11.8	15.0	15.3	11.6	13.1	14.1
WALTERS	12.5	.	11.4	12.0	.	10.8	13.7	14.7	9.9	12.0	13.0
HARTWIG	12.3	.	12.2	11.4	.	10.7	12.7	13.9	9.6	12.5	13.2
Ky85-11020	14.7	.	13.5	13.9	.	12.7	16.7	17.5	12.0	15.0	15.3
N86-7682	16.3	.	12.6	10.8	.	12.2	14.7	15.5	10.6	12.6	14.0
D88-5547	14.4	.	12.0	11.0	.	10.2	12.7	13.3	10.1	11.6	12.9
D89-7077	12.3	.	11.1	10.6	.	9.6	13.0	12.7	10.5	11.6	12.3
Ky88-1702	14.8	.	12.6	11.9	.	11.5	14.0	15.4	12.3	12.7	14.3
R89-332	14.0	.	12.1	11.4	.	10.9	14.3	14.5	11.4	12.4	13.7
S88-1934	13.3	.	12.2	11.2	.	10.9	13.0	13.5	10.8	12.0	13.1
S88-7166	12.4	.	11.7	11.1	.	9.9	13.3	13.9	10.0	12.3	12.7
V87-396	15.2	.	12.2	12.2	.	11.9	15.0	15.1	11.2	12.7	14.4

TABLE 22 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN ESSEX FOR THE STRAINS IN UNIFORM GROUP V, 1992.

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	BELLE MINA AL	CAL-HOUN GA	CLEM-SON SC	JACK-SON TN	KNOX-VILLE TN	MAR-TIN TN
ESSEX	10/01	10/08	10/16	10/09	09/25	10/07	10/17
WALTERS	-4	3	-1	1	11	6	0
HARTWIG	1	2	-3	2	11	5	0
Ky85-11020	-1	2	-4	1	11	4	-2
N86-7682	2	2	-2	3	11	4	0
D88-5547	-1	2	-4	0	11	-1	-2
D89-7077	-1	0	-4	0	11	1	0
Ky88-1702	0	1	-3	1	7	-2	0
R89-332	-4	1	-3	0	11	0	-2
S88-1934	3	3	0	3	12	7	1
S88-7166	1	4	-1	3	12	4	-2
V87-396	-1	4	1	4	11	8	1

UPPER AND CENTRAL SOUTH

STRAIN	ORANGE VA	PRINCETON KY	SUFFOLK VA	VERONA MS	CORA IL	MEAN
ESSEX	10/22	10/17	10/18	.	10/12	10/11
WALTERS	10	1	4	.	9	4
HARTWIG	7	0	4	.	4	3
Ky85-11020	3	0	1	.	-1	1
N86-7682	3	0	2	.	-4	2
D88-5547	4	0	0	.	5	1
D89-7077	3	-1	0	.	8	2
Ky88-1702	0	-2	-1	.	1	0
R89-332	2	0	-1	.	7	1
S88-1934	10	2	6	.	7	5
S88-7166	10	2	5	.	7	4
V487-396	9	2	4	.	4	4

DELTA

STRAIN	BATON ROUGE LA	JONES-BORO AR	KEI-SER AR	PINE TREE AR	POR-TAGE-VILLE MO(A)	POR-TAGE-VILLE MO(B)	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
ESSEX	.	10/06	10/08	09/25	10/04	10/09	09/27	09/22	09/24	09/30
WALTERS	.	4	3	8	5	6	-3	6	4	5
HARTWIG	.	5	1	6	5	2	-2	3	1	3
Ky85-11020	.	4	0	1	3	1	-2	5	0	2
N86-7682	.	4	2	2	4	4	0	6	1	4
D88-5547	.	4	1	3	4	3	-1	6	0	3
D89-7077	.	5	0	4	3	3	-1	6	4	4
Ky88-1702	.	-1	0	1	2	0	-2	2	-2	1
R89-332	.	3	0	2	2	1	-3	6	1	2
S88-1934	.	5	2	8	7	7	-2	8	7	6
S88-7166	.	5	0	6	6	5	-3	6	3	4
V87-396	.	6	0	4	4	5	1	6	4	4

TABLE 22 - (Continued)

WEST

STRAIN	BEAU-MONT TX	BIXBY OK	BOSSIER CITY LA	CHA-NUTE KS†	LUB-BOCK TX	MC-CUNE KS	PITTS-BURG KS	STUTT-GART AR	MEAN
ESSEX	.	.	.	.	10/08	.	.	10/09	10/09
WALTERS	.	.	.	.	4	.	.	5	4
HARTWIG	.	.	.	.	-2	.	.	5	1
Ky85-11020	.	.	.	.	0	.	.	2	1
N86-7682	.	.	.	.	2	.	.	1	1
D88-5547	.	.	.	.	-1	.	.	2	0
D89-7077	.	.	.	.	2	.	.	2	1
Ky88-1702	.	.	.	.	3	.	.	2	2
R89-332	.	.	.	.	-1	.	.	0	-1
S88-1934	.	.	.	.	4	.	.	7	5
S88-7166	.	.	.	.	-1	.	.	6	2
V87-396	.	.	.	.	4	.	.	3	3

EAST COAST

STRAIN	GEORGETOWN DE†	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
ESSEX	.	10/12	10/15	10/10	10/12
WALTERS	.	6	5	8	7
HARTWIG	.	6	8	7	7
Ky85-11020	.	6	3	4	5
N86-7682	.	8	2	3	5
D88-5547	.	4	5	3	4
D89-7077	.	6	4	4	5
Ky88-1702	.	4	1	1	2
R89-332	.	4	4	2	4
S88-1934	.	6	7	8	8
S88-7166	.	8	8	9	9
V87-396	.	6	5	5	6

† Unable to harvest plots due to adverse weather conditions.

TABLE 23 - PLANT HEIGHT FOR THE STRAINS IN UNIFORM GROUP V, 1992.

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	BELLE MINA AL	CALHOUN GA	CLEM-SON SC	JACK-SON TN	KNOX-VILLE TN
ESSEX	22	28	29	26	32	36
WALTERS	29	36	33	33	36	40
HARTWIG	28	31	33	34	33	37
Ky85-11020	22	25	30	27	30	37
N86-7682	27	33	33	34	37	42
D88-5547	31	33	34	35	35	40
D89-7077	33	38	33	36	41	42
Ky88-1702	25	31	32	31	33	36
R89-332	19	30	30	27	30	37
S88-1934	36	37	30	37	37	45
S88-7166	29	34	31	35	36	39
V87-396	27	33	37	33	36	40

UPPER AND CENTRAL SOUTH

STRAIN	MARTIN TN	ORANGE VA	PRINCE-TON KY	SUF-FOLK VA	CORA IL	MEAN
ESSEX	28	33	34	28	23	29
WALTERS	33	44	41	37	28	36
HARTWIG	31	41	38	30	25	33
Ky85-11020	29	35	34	31	24	30
N86-7682	35	40	40	32	27	34
D88-5547	36	39	38	34	28	35
D89-7077	41	43	41	33	30	37
Ky88-1702	34	39	34	33	31	33
R89-332	27	36	35	27	24	29
S88-1934	39	46	41	32	33	37
S88-7166	35	40	41	31	28	34
V87-396	35	37	38	31	24	34

DELTA

STRAIN	BATON ROUGE LA	JONES-BORO AR	KEI-SER AR	PINE TREE AR	POR-TAGE-VILLE MO(A)	POR-TAGE-VILLE MO(B)	ST. JO-SEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
ESSEX	28	30	22	17	26	23	26	24	22	24
WALTERS	37	41	27	32	36	30	30	29	31	33
HARTWIG	26	36	25	22	32	27	32	26	26	28
Ky85-11020	27	35	22	16	27	27	35	25	25	26
N86-7682	31	34	26	18	34	24	32	25	27	28
D88-5547	30	43	29	27	35	29	35	33	28	32
D89-7077	37	46	33	30	40	31	32	39	35	36
Ky88-1702	31	34	23	21	36	23	28	25	23	27
R89-332	28	29	23	19	29	20	25	24	27	25
S88-1934	36	44	29	31	41	30	40	38	33	36
S88-7166	32	38	27	21	40	23	35	31	29	31
V87-396	32	37	27	20	34	23	34	25	28	29

TABLE 23 - (Continued)

WEST

STRAIN	BIXBY OK	BOSSIER CITY LA	LUBBOCK TX	MCCUNE KS	PITTS-BURG KS	STUTTGART AR	MEAN
ESSEX	30	21	23	34	28	18	26
WALTERS	34	26	30	39	31	24	31
HARTWIG	32	21	27	35	34	19	28
Ky85-11020	27	25	21	33	29	19	26
N86-7682	33	19	27	38	34	20	29
D88-5547	36	23	27	38	32	25	30
D89-7077	38	22	31	42	36	26	33
Ky88-1702	28	24	24	33	29	22	27
R89-332	28	21	22	33	29	15	25
S88-1934	38	25	32	40	37	27	33
S88-7166	36	20	26	35	33	21	28
V87-396	34	24	25	38	33	22	29

EAST COAST

STRAIN	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
ESSEX	32	24	26	27
WALTERS	40	32	37	36
HARTWIG	37	26	32	32
Ky85-11020	34	23	27	28
N86-7682	36	27	30	31
D88-5547	40	32	34	35
D89-7077	39	33	37	36
Ky88-1702	37	29	31	33
R89-332	33	24	27	28
S88-1934	45	32	40	39
S88-7166	39	29	34	34
V87-396	37	27	32	32

TABLE 24 - LODGING SCORES FOR THE STRAINS IN UNIFORM GROUP V, 1992.

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	BELLE MINA AL	CALHOUN GA	CLEMSON SC	JACKSON TN	KNOXVILLE TN
ESSEX	1.5	1.0	3.2	1.0	1.3	1.7
WALTERS	2.2	2.0	3.5	2.0	3.0	3.5
HARTWIG	2.2	1.0	3.8	2.0	2.3	3.0
Ky85-11020	1.5	1.0	3.5	1.3	1.3	2.2
N86-7682	1.5	1.0	3.0	1.0	1.7	1.8
D88-5547	2.7	2.7	4.0	3.0	3.5	5.0
D89-7077	3.0	1.0	2.8	2.3	2.2	3.0
Ky88-1702	1.5	1.0	2.2	1.0	1.5	2.0
R89-332	1.3	1.0	3.3	1.0	1.3	2.0
S88-1934	2.5	1.7	3.8	2.0	2.2	3.0
S88-7166	2.0	2.3	3.3	2.7	3.0	2.8
V87-396	1.8	2.0	2.5	2.3	2.0	2.7

UPPER AND CENTRAL SOUTH

STRAIN	MARTIN TN	ORANGE VA	PRINCE-TON KY	SUFFOLK VA	VILLA RIDGE IL	MEAN
ESSEX	2.3	2.0	1.3	2.3	1.2	1.7
WALTERS	2.3	4.7	3.7	4.0	2.5	3.0
HARTWIG	2.3	3.7	3.7	4.2	2.5	2.8
Ky85-11020	1.7	2.7	2.7	2.3	1.0	1.9
N86-7682	1.7	3.0	1.3	2.8	1.0	1.8
D88-5547	3.3	5.0	4.3	4.5	3.5	3.8
D89-7077	3.0	3.3	1.7	3.2	2.0	2.5
Ky88-1702	1.0	2.3	1.0	2.7	1.0	1.6
R89-332	1.0	1.3	1.3	2.0	1.0	1.5
S88-1934	2.3	5.0	3.0	2.8	2.2	2.8
S88-7166	3.0	4.7	4.7	3.7	2.5	3.2
V87-396	1.7	2.7	2.3	3.2	1.0	2.2

DELTA

STRAIN	BATON ROUGE LA	JONES-BORO AR	KEI-SER AR	PINE TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
ESSEX	3	1.0	1.0	1	1	1	1.3	2.0	2.0	1.5
WALTERS	5	1.3	1.3	1	2	2	1.3	4.0	2.7	2.3
HARTWIG	3	1.0	1.0	1	2	1	1.4	2.7	2.0	1.7
Ky85-11020	3	1.0	1.0	1	1	1	2.0	2.0	2.0	1.6
N86-7682	3	1.0	1.0	1	1	1	1.5	2.0	2.0	1.5
D88-5547	4	2.3	2.3	1	2	2	2.9	3.0	3.0	2.5
D89-7077	5	1.7	1.3	1	2	2	1.5	3.0	3.3	2.3
Ky88-1702	3	1.0	1.0	1	1	1	1.4	2.0	2.0	1.5
R89-332	3	1.0	1.0	1	1	1	1.4	2.0	2.0	1.5
S88-1934	4	1.0	1.0	1	2	1	1.5	3.0	2.7	1.9
S88-7166	4	1.0	1.2	1	2	1	1.7	3.0	2.0	1.9
V87-396	4	1.0	1.3	1	1	1	1.7	3.0	2.0	1.8

TABLE 24 - (Continued)

WEST

STRAIN	BIXBY OK	BOSSIER CITY LA	LUBBOCK TX	MCCUNE KS	PITTS-BURG KS	STUTTGART AR	MEAN
ESSEX	2	1	1.5	1.3	1.2	1	1.3
WALTERS	4	1	2.0	5.0	4.1	1	2.9
HARTWIG	3	1	2.2	4.3	4.0	1	2.6
Ky85-11020	1	1	1.7	2.0	1.5	1	1.4
N86-7682	2	1	1.5	3.3	2.4	1	1.9
D88-5547	4	1	2.2	5.0	4.2	1	2.9
D89-7077	2	1	1.5	3.7	3.0	1	2.0
Ky88-1702	2	1	1.5	2.3	1.9	1	1.6
R89-332	.	1	1.0	2.7	1.2	1	1.2
S88-1934	3	1	2.2	4.0	3.2	1	2.4
S88-7166	4	1	2.0	5.0	4.9	1	3.0
V87-396	3	1	1.3	4.0	4.0	1	2.4

EAST COAST

STRAIN	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
ESSEX	2.7	3.0	1.2	2.3
WALTERS	4.0	3.5	2.1	3.2
HARTWIG	4.0	3.5	2.0	3.2
Ky85-11020	3.3	2.7	1.3	2.4
N86-7682	3.0	3.3	1.3	2.5
D88-5547	4.0	3.9	3.5	3.8
D89-7077	3.7	3.5	1.7	3.0
Ky88-1702	2.3	2.8	1.1	2.1
R89-332	2.0	2.0	1.0	1.7
S88-1934	4.0	3.5	1.7	3.1
S88-7166	4.7	3.2	2.2	3.3
V87-396	3.7	3.5	1.6	2.9

TABLE 25 - SEED QUALITY FOR THE STRAINS IN UNIFORM GROUP V, 1992.

DELTA

STRAIN	JONES-BORO AR	PINE TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
ESSEX	1.0	1.7	2	2	1.9	2	2.0	1.8
WALTERS	2.0	1.0	2	2	1.6	2	2.0	1.8
HARTWIG	2.0	2.0	2	2	1.8	2	2.0	2.0
Ky85-11020	1.3	1.7	2	2	1.6	2	2.0	1.8
N86-7682	1.7	2.0	2	2	2.0	2	2.0	2.0
D88-5547	1.7	2.0	2	2	2.2	2	2.0	2.0
D89-7077	2.0	2.0	2	2	1.9	2	2.0	2.0
Ky88-1702	1.3	1.7	2	2	2.3	2	2.0	1.9
R89-332	1.0	1.7	2	2	1.9	2	2.0	1.8
S88-1934	2.3	2.0	2	2	2.2	2	2.3	2.1
S88-7166	2.0	2.0	2	2	1.9	2	2.0	2.0
V87-396	1.0	1.7	1	2	1.8	2	2.0	1.6

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	CAL-HOUN GA	JACK-SON TN	KNOX-VILLE TN	MAR-TIN TN	ORANGE VA	PRINCE-TON KY	SUF-FOLK VA	CORA IL	MEAN
ESSEX	3.0	2.2	1.3	1.7	3	1.0	3	1.3	1.7	2.0
WALTERS	2.3	2.1	1.8	2.0	3	1.5	3	1.0	1.3	2.0
HARTWIG	2.5	2.0	2.5	3.0	2	1.8	3	1.0	2.3	2.2
Ky85-11020	3.2	2.0	1.8	1.5	3	1.2	2	1.7	2.0	2.0
N86-7682	3.0	1.7	1.8	1.8	2	1.0	2	1.7	1.3	1.8
D88-5547	2.8	2.3	2.2	2.3	3	1.5	3	1.0	2.0	2.2
D89-7077	2.2	2.0	2.3	2.0	2	2.0	5	1.0	1.3	2.2
Ky88-1702	2.3	2.0	1.7	2.3	2	1.0	1	1.7	2.0	1.8
R89-332	2.3	1.5	1.8	1.5	2	1.0	1	1.0	1.7	1.5
S88-1934	2.8	2.0	2.7	2.7	3	1.5	4	1.0	2.7	2.5
S88-7166	2.5	2.0	2.8	2.8	3	2.0	3	1.0	2.3	2.4
V87-396	2.3	1.3	1.5	1.5	2	1.3	2	1.0	1.3	1.6

TABLE 25 - (Continued)

EAST COAST

STRAIN	PLYMOUTH NC	QUEENSTOWN MD	WARSAW VA	MEAN
ESSEX	2.5	1.0	1.2	1.6
WALTERS	2.0	1.2	1.1	1.4
HARTWIG	2.5	1.5	1.2	1.7
Ky85-11020	2.5	1.0	1.0	1.5
N86-7682	2.5	1.0	1.0	1.5
D88-5547	2.5	1.5	1.8	1.9
D89-7077	2.0	1.3	1.8	1.7
Ky88-1702	2.5	1.3	1.6	1.8
R89-332	2.5	1.0	1.1	1.5
S88-1934	2.0	1.5	1.7	1.7
S88-7166	2.0	1.5	1.4	1.6
V87-396	2.0	1.3	1.3	1.6

WEST

STRAIN	LUBBOCK TX	MCCUNE KS	PITTSBURG KS	MEAN
ESSEX	1.5	2	2	1.8
WALTERS	1.2	2	2	1.7
HARTWIG	2.0	2	2	2.0
Ky85-11020	1.7	2	2	1.9
N86-7682	1.5	2	2	1.8
D88-5547	2.0	3	2	2.3
D89-7077	2.0	3	2	2.3
Ky88-1702	1.5	2	2	1.8
R89-332	1.5	2	2	1.8
S88-1934	2.0	2	2	2.0
S88-7166	2.0	2	2	2.0
V87-396	1.2	2	2	1.7

PRELIMINARY GROUP V

1992

Preliminary Group V nurseries were planted at 8 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 stem canker rating. Results from individual locations are summarized in Tables 28 - 34.

The cultivar Hutcheson is the yield and maturity check. It had a mean yield of 50.8 bushels per acre and a mean maturity of October 7 at the 8 locations.

TABLE 26 - PARENTAGE OF THE STRAINS GROWN IN PRELIMINARY GROUP V, 1992.

	VARIETY OR STRAIN	PARENTAGE
1.	HUTCHESON	V68-1034 X ESSEX
2.	MANOKEN	L70L-3048 X D78-7824
3.	D88-5974	D82-3298 X D82-5173
4.	D90-6438	CORDELL X D77-6056
5.	D90-7238	FORREST X D76-8070
6.	K1247	RIPLEY X STAFFORD
7.	K1248	STAFFORD X HUTCHESON
8.	K1249	STAFFORD X HUTCHESON
9.	K1250	STAFFORD X HUTCHESON
10.	Ky89-03147	RA452 X PIONEER 9471
11.	Ky89-04046	STAFFORD X RIPLEY
12.	LS89-413	LS77-952 X NATHAN
13.	LS89-2630	ESSEX X FORREST
14.	LS89-2820	LS77-952 X LS78W-124-1
15.	Md89-5588	K1099 X MORGAN
16.	N89-1166	ESSEX X VANCE
17.	N90-205	BRIM X C1640
18.	N90-403	G81-152 X N83-375
19.	N90-516	HUTCHESON X N83-1014
20.	OK88-5409	FORREST X ESSEX
21.	OK89-5902	ADELPHIA X YORK
22.	OK89-6001	ESSEX X GAIL
23.	R90-115	R82-1145 X R81-824
24.	R90-149S	D83-3349 X A5474
25.	R90-515	LLOYD X NAROW
26.	R90-744	(WALTERS X LLOYD) X NAROW
27.	S88-1854	HUTCHESON X S81-2524
28.	S89-1097	HUTCHESON X S81-2524
29.	S89-1306	S81-2524 X LS79-1914
30.	S90-1818	S87-1466 X PIONEER 9581
31.	SC87-119	N79-491 X FORREST
32.	Tn88-21	Tn80-69 X A5474
33.	Tn88-87	A5474 X Tn83-167
34.	V88-466	COKER 237 X TOANO
35.	V88-590	HUTCHESON X TOANO
36.	V88-1234	D77-6056 X LS79-330

TABLE 27 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP V, 1992.

STRAIN	SEED YIELD	MAT. INDEX	PERCENT HT.	PERCENT OIL	PERCENT PROTEIN	STEM CANKER MS
HUTCHESON	50.8	10/07	31	21.2	41.2	1.0
MANOKIN	49.5	5-	28	21.0	40.6	.
D88-5974	47.4	3+	32	19.4-	43.5+	4.0
D90-6438	46.5-	1+	35	19.6-	41.1	4.5
D90-7238	43.6-	1-	29	17.1-	47.7+	4.8
K1247	47.9	1-	31	21.0	39.8-	1.0
K1248	50.7	1+	30	21.5	40.2-	1.0
K1249	49.6	1-	30	21.6	40.7	1.0
K1250	48.4	4-	32	21.3	40.2-	1.0
Ky89-03147	47.8	4-	44	21.2	41.0	1.0
Ky89-04046	49.1	2-	27	19.9-	41.4	1.0
LS89-413	45.6-	7-	28	20.2-	42.7+	1.0
LS89-2630	46.0-	5-	32	21.3	40.2-	5.0
LS89-2820	52.4	6-	30	19.0-	42.7+	1.8
Md89-5588	47.9	2-	39	21.2	42.9+	5.5
N89-1166	47.7	1-	27	19.7-	43.6+	5.0
N90-205	47.0	3-	45	20.6	42.4+	1.0
N90-403	52.4	3+	33	19.8-	42.9+	2.5
N90-516	53.0	3-	29	21.2	40.5	1.0
OK88-5409	48.3	1-	28	20.1-	42.1	5.3
OK89-5902	39.8-	4+	34	19.0-	41.9	4.8
OK89-6001	48.5	2+	33	20.7	43.1+	1.3
R90-115	45.7-	3-	33	21.3	42.1	5.0
R90-149S	47.3	2+	38	19.4-	41.8	5.0
R90-515	47.6	1+	34	21.0	40.2-	4.5
R90-744	45.6-	1+	35	19.9-	41.3	4.8
S88-1854	51.0	0	32	21.2	41.1	4.3
S89-1097	49.9	2+	32	20.7	40.6	4.3
S89-1306	48.1	3-	31	19.4-	42.8+	3.8
S90-1818	47.8	1+	34	19.2-	43.3+	5.5
SC87-119	49.0	0	34	20.3-	40.9	5.3
Tn88-21	48.6	1-	31	19.9-	41.5	5.5
Tn88-87	51.0	3-	32	19.3-	42.2+	1.0
V88-466	52.6	0	30	20.9	41.2	4.5
V88-590	49.1	2+	29	21.3	41.2	1.0
V88-1234	51.0	1+	32	21.7	40.3	4.3
L.S.D. (0.05)	3.9			0.6	1.0	
C.V.(%)	8%			3%	2%	

(+) or (-) designations refer to significant differences to Hutcheson at the 0.05 probability level.

TABLE 28 - SEED YIELD, IN BUSHELS PER ACRE, FOR THE STRAINS IN PRELIMINARY GROUP V, 1992.

STRAIN	KEISER AR	MARI-ANNA AR	PITTS-BURG KS	PLY-MOUTH NC	PORTAGE-VILLE MO	STONE-VILLE MS(A)	STONE-VILLE MS(B)	WAR-SAW VA	MEAN
HUTCHESON	64.7	53.5	46.8	46.1	59.0	43.1	44.3	49.0	50.8
MANOKIN	58.2	56.1	47.0	43.9	61.1	45.3	37.2-	47.3	49.5
D88-5974	56.7-	57.0	40.7-	39.1	56.8	42.9	42.3	43.7	47.4
D90-6438	60.8	57.7	37.3-	38.2	58.7	38.2	39.6	41.4-	46.5-
D90-7238	55.8-	48.3	34.4-	43.6	57.2	32.6-	33.5-	43.7	43.6-
K1247	61.1	50.8	48.4	57.3+	48.8-	38.2	36.5-	42.4	47.9
K1248	61.1	54.7	51.6	57.2+	57.1	36.9	37.8-	49.5	50.7
K1249	58.1-	51.7	46.3	51.0	57.0	40.0	44.0	48.8	49.6
K1250	50.9-	46.3	44.5	51.2	59.9	44.8	42.2	47.2	48.4
Ky89-03147	57.0-	49.7	38.8-	50.9	53.5	41.3	42.3	48.7	47.8
Ky89-04046	59.5	50.7	47.2	51.0	56.0	42.1	37.4-	48.7	49.1
LS89-413	50.1-	44.5	42.6	42.2	53.4	47.0	39.4	45.3	45.6-
LS89-2630	52.3-	46.9	40.2-	47.7	58.1	40.3	37.3-	45.0	46.0-
LS89-2820	59.0	55.3	45.4	58.3+	61.9	49.1	42.3	47.9	52.4
Md89-5588	52.8-	51.2	52.7+	49.1	56.8	31.6-	39.5	49.5	47.9
N89-1166	61.3	36.8-	47.7	51.8	56.3	40.0	38.6	48.9	47.7
N90-205	55.3-	49.8	42.7	45.4	55.5	38.5	39.4	49.4	47.0
N90-403	67.6	59.3	52.3	55.1	60.1	39.8	35.4-	49.8	52.4
N90-516	60.2	50.2	48.3	52.6	60.6	48.4	54.0+	49.5	53.0
OK88-5409	57.1-	54.6	43.9	48.4	54.6	37.8	41.6	48.6	48.3
OK89-5902	54.6-	46.9	39.0-	48.8	44.2-	21.4-	24.1-	39.4-	39.8-
OK89-6001	64.7	52.5	45.4	42.7	56.1	39.7	37.6-	49.2	48.5
R90-115	56.6-	52.3	40.6-	49.2	55.2	30.5-	38.8	42.7	45.7-
R90-149S	54.4-	58.0	39.6-	49.6	51.8	38.6	42.1	44.3	47.3
R90-515	56.6-	55.5	40.3-	50.0	60.5	36.2-	36.3-	45.8	47.6
R90-744	56.4-	52.1	36.6-	48.7	57.1	32.9-	36.2-	44.5	45.6-
S88-1854	62.6	59.7	47.2	44.7	62.6	45.2	40.7	45.2	51.0
S89-1097	60.5	57.4	46.2	49.4	56.9	41.8	42.5	44.5	49.9
S89-1306	54.5-	56.7	40.7-	48.7	60.4	39.6	39.2	45.0	48.1
S90-1818	56.0-	55.0	39.3-	47.9	52.4	44.3	41.3	46.1	47.8
SC87-119	61.4	59.7	44.7	56.9+	61.4	36.4-	35.7-	36.1-	49.0
Tn88-21	58.8	49.9	40.8-	54.9	54.0	39.5	43.7	47.3	48.6
Tn88-87	58.4	57.8	47.7	49.3	55.6	44.5	46.6	48.1	51.0
V88-466	67.0	53.8	45.5	55.4	58.7	45.4	45.3	49.7	52.6
V88-590	62.7	50.5	44.4	54.4	58.6	32.9-	39.9	49.6	49.1
V88-1234	62.0	59.8	39.8-	51.1	61.1	42.4	40.2	51.4	51.0
L.S.D.(0.05)	6.5	9.2	5.9	9.3	9.4	6.5	5.7	7.0	3.9
C.V. (%)	5.5	8.6	7.8	9.1	8.2	8.0	7.0	7.4	8.2

(+) or (-) designations refer to significant differences to Hutcheson at the 0.05 probability level.

TABLE 29 - OIL PERCENTAGES FOR THE STRAINS IN PRELIMINARY GROUP V, 1992.

STRAIN	KEISER AR	PLYMOUTH NC	PORTAGE-VILLE MO	STONE-VILLE MS(B)	WARSAW VA	MEAN
HUTCHESON	22.9	21.5	21.1	19.2	21.2	21.2
MANOKIN	22.4	21.2	19.9	21.5	19.8	21.0
D88-5974	20.0	18.4	18.8	20.9	19.1	19.4
D90-6438	20.3	20.5	19.4	18.9	18.9	19.6
D90-7238	18.8	16.9	15.5	17.1	17.3	17.1
K1247	22.3	20.4	20.3	21.4	20.5	21.0
K1248	22.5	21.0	21.1	20.8	22.0	21.5
K1249	22.4	20.9	21.4	21.9	21.4	21.6
K1250	22.0	20.8	20.9	21.4	21.2	21.3
Ky89-03147	21.9	20.6	20.6	21.4	21.3	21.2
Ky89-04046	21.3	19.6	19.0	20.0	19.5	19.9
LS89-413	21.0	20.5	19.7	20.3	19.3	20.2
LS89-2630	22.4	21.0	21.4	21.2	20.7	21.3
LS89-2820	19.8	19.0	18.9	19.3	18.1	19.0
Md89-5588	22.4	20.5	21.3	20.7	21.1	21.2
N89-1166	20.6	20.2	19.0	19.4	19.2	19.7
N90-205	21.6	20.1	20.3	20.6	20.5	20.6
N90-403	20.7	19.9	19.2	18.8	20.4	19.8
N90-516	22.0	21.1	20.5	21.6	20.7	21.2
OK88-5409	21.2	19.7	19.8	19.9	19.8	20.1
OK89-5902	20.9	19.4	18.1	17.6	19.0	19.0
OK89-6001	21.7	20.6	20.6	20.6	19.9	20.7
R90-115	22.8	21.0	20.2	21.8	20.8	21.3
R90-149S	20.4	20.0	19.1	18.6	19.0	19.4
R90-515	22.4	20.2	20.8	21.2	20.5	21.0
R90-744	21.5	19.8	19.4	19.6	19.3	19.9
S88-1854	22.2	21.2	20.9	21.4	20.3	21.2
S89-1097	21.7	20.9	20.4	20.7	19.9	20.7
S89-1306	20.4	19.4	19.0	19.6	18.6	19.4
S90-1818	19.9	18.8	18.9	19.9	18.6	19.2
SC87-119	21.4	20.7	19.4	20.4	19.6	20.3
Tn88-21	21.1	19.8	19.9	19.7	19.1	19.9
Tn88-87	20.3	19.8	19.0	19.6	18.0	19.3
V88-466	21.7	19.8	20.7	21.5	20.6	20.9
V88-590	22.1	20.8	20.9	21.2	21.3	21.3
V88-1234	22.3	21.7	21.9	21.7	21.1	21.7

TABLE 30 - PROTEIN PERCENTAGES FOR THE STRAINS IN PRELIMINARY GROUP V, 1992.

STRAIN	KEISER AR	PLYMOUTH NC	PORTAGE-VILLE MO	STONE-VILLE MS(B)	WARSAW VA	MEAN
HUTCHESON	40.7	41.3	39.0	43.5	41.5	41.2
MANOKIN	38.4	41.6	40.0	41.3	41.6	40.6
D88-5974	42.7	45.6	43.0	42.3	43.8	43.5
D90-6438	39.0	41.7	38.9	45.2	40.6	41.1
D90-7238	45.6	49.2	47.7	48.8	47.0	47.7
K1247	38.2	41.4	38.8	39.9	40.7	39.8
K1248	38.8	41.3	38.6	41.2	41.0	40.2
K1249	39.7	42.9	39.2	40.3	41.5	40.7
K1250	39.0	41.8	39.3	39.7	41.0	40.2
Ky89-03147	41.0	42.4	39.2	40.7	41.8	41.0
Ky89-04046	40.2	42.8	40.0	41.7	42.1	41.4
LS89-413	41.9	43.0	41.8	42.8	44.0	42.7
LS89-2630	39.3	41.4	38.1	40.8	41.3	40.2
LS89-2820	41.9	42.9	40.9	43.3	44.4	42.7
Md89-5588	41.6	44.5	41.1	44.1	43.2	42.9
N89-1166	42.8	44.0	42.0	44.5	44.8	43.6
N90-205	41.5	44.2	41.0	42.2	43.2	42.4
N90-403	41.3	44.8	41.1	44.5	42.7	42.9
N90-516	39.5	41.9	39.1	40.5	41.6	40.5
OK88-5409	40.9	43.4	41.3	42.7	42.4	42.1
OK89-5902	40.5	41.2	41.5	44.4	41.7	41.9
OK89-6001	42.0	43.6	41.3	44.3	44.1	43.1
R90-115	39.8	44.4	40.5	43.0	42.6	42.1
R90-149S	39.8	42.6	40.2	44.1	42.2	41.8
R90-515	38.2	42.7	37.9	41.0	41.2	40.2
R90-744	40.2	42.4	39.7	43.0	41.3	41.3
S88-1854	39.8	41.9	39.5	42.1	42.4	41.1
S89-1097	39.7	41.6	39.3	40.8	41.6	40.6
S89-1306	41.6	43.8	41.5	43.9	43.3	42.8
S90-1818	42.8	44.3	42.6	43.3	43.7	43.3
SC87-119	39.2	41.9	40.2	42.2	41.0	40.9
Tn88-21	40.4	42.8	38.9	42.8	42.6	41.5
Tn88-87	41.1	42.6	40.7	43.2	43.6	42.2
V88-466	40.5	43.5	38.6	41.7	41.5	41.2
V88-590	40.1	42.7	39.8	42.0	41.5	41.2
V88-1234	39.7	41.2	37.9	41.8	40.7	40.3

TABLE 31 - SEED SIZE FOR THE STRAINS IN PRELIMINARY GROUP V, 1992.

STRAIN	MARI-ANNA AR	PITTS-BURG KS	PORTAGE-VILLE MO	STONE-VILLE MS(B)	WARSAW VA	MEAN
HUTCHESON	14.0	15.3	12.2	11.6	14.3	13.5
MANOKIN	13.5	15.2	12.1	11.2	12.3	12.8
D88-5974	16.1	15.8	15.4	11.8	15.4	14.9
D90-6438	15.6	13.5	12.1	10.9	12.1	12.8
D90-7238	15.1	15.1	13.5	10.6	13.2	13.5
K1247	11.9	13.1	9.4	8.4	10.9	10.7
K1248	14.9	16.5	13.1	11.6	14.2	14.1
K1249	15.1	16.4	14.0	12.8	15.8	14.8
K1250	11.7	14.0	10.5	10.9	13.0	12.0
Ky89-03147	13.6	15.2	11.7	11.9	14.6	13.4
Ky89-04046	10.9	14.5	9.8	9.0	11.2	11.1
LS89-413	13.4	18.2	13.4	13.5	14.5	14.6
LS89-2630	14.7	16.4	12.6	12.4	13.4	13.9
LS89-2820	12.6	14.6	11.3	11.0	11.6	12.2
Md89-5588	15.4	.	14.5	13.7	16.6	15.0
N89-1166	11.0	12.9	10.2	8.9	11.6	10.9
N90-205	13.5	17.4	13.4	11.3	15.1	14.1
N90-403	13.3	16.2	12.2	10.9	13.9	13.3
N90-516	14.6	17.7	12.9	14.9	14.2	14.8
OK88-5409	11.4	12.3	10.1	9.7	10.6	10.8
OK89-5902	13.4	15.0	11.9	9.4	12.9	12.5
OK89-6001	15.3	19.2	15.4	13.8	17.0	16.1
R90-115	13.0	15.2	11.9	11.5	12.7	12.9
R90-149S	14.4	14.5	12.0	10.6	13.2	12.9
R90-515	14.2	14.3	12.0	11.2	14.0	13.1
R90-744	13.2	15.1	11.6	10.5	12.7	12.6
S88-1854	13.6	15.9	13.3	11.0	13.4	13.4
S89-1097	13.2	12.8	10.7	9.9	12.3	11.8
S89-1306	13.4	12.9	11.9	9.9	11.8	12.0
S90-1818	16.5	16.4	14.3	12.2	14.7	14.8
SC87-119	11.9	12.6	10.7	9.6	10.6	11.1
Tn88-21	12.6	15.5	11.2	11.6	12.8	12.7
Tn88-87	13.2	14.4	11.5	11.3	11.7	12.4
V88-466	15.7	17.8	13.9	14.4	14.3	15.2
V88-590	15.6	12.0	13.9	12.2	15.6	13.9
V88-1234	13.7	14.7	12.5	10.9	13.1	13.0

TABLE 32 - PLANT HEIGHT FOR THE STRAINS IN PRELIMINARY GROUP V, 1992.

STRAIN	KEISER AR	MARI-ANNA AR	PITTS-BURG KS	PLY-MOUTH NC	PORTAGE-VILLE MO	STONE-VILLE MS(A)	STONE-VILLE MS(B)	WARWAW VA	MEAN
HUTCHESON	25	27	30	35	35	34	28	30	31
MANOKIN	21	27	29	35	34	27	25	29	28
D88-5974	24	34	31	37	35	28	29	36	32
D90-6438	27	39	34	41	37	31	36	38	35
D90-7238	28	27	29	32	30	26	27	33	29
K1247	23	27	32	35	36	32	28	36	31
K1248	24	28	33	38	31	32	25	31	30
K1249	22	26	30	38	34	32	27	31	30
K1250	24	29	32	39	38	34	29	31	32
Ky89-03147	40	51	32	44	54	47	42	41	44
Ky89-04046	19	25	28	37	30	29	21	31	27
LS89-413	21	23	32	33	33	26	25	30	28
LS89-2630	23	27	36	43	35	31	26	36	32
LS89-2820	23	25	29	35	32	33	32	30	30
Md89-5588	41	42	30	42	45	43	36	36	39
N89-1166	21	21	30	37	29	24	26	29	27
N90-205	42	50	36	46	53	45	42	48	45
N90-403	29	32	31	41	34	35	29	35	33
N90-516	25	23	30	38	30	30	26	30	29
OK88-5409	22	26	29	34	30	32	24	29	28
OK89-5902	29	32	33	42	40	31	30	36	34
OK89-6001	27	32	35	39	33	35	28	34	33
R90-115	26	32	31	41	37	34	30	35	33
R90-149S	34	43	36	41	45	33	36	36	38
R90-515	26	33	34	39	38	34	32	38	34
R90-744	26	34	33	41	44	32	31	38	35
S88-1854	29	30	33	37	33	33	32	33	32
S89-1097	26	33	32	37	37	33	30	31	32
S89-1306	25	30	27	38	36	33	28	34	31
S90-1818	25	39	32	40	33	33	29	38	34
SC87-119	27	34	32	41	37	34	32	36	34
Tn88-21	22	25	32	39	36	30	28	33	31
Tn88-87	24	30	34	39	35	33	29	36	32
V88-466	20	25	30	40	33	31	29	33	30
V88-590	26	23	29	33	33	31	26	30	29
V88-1234	28	37	40	43	38	34	36	39	32

TABLE 33 - LODGING SCORES FOR THE STRAINS IN PRELIMINARY GROUP V, 1992.

STRAIN	KEISER AR	MARI-ANNA AR	PITTS-BURG KS	PLY-MOUTH NC	PORTAGE-VILLE MO	STONE-VILLE MS(A)	STONE-VILLE MS(B)	WARSAW VA	MEAN
HUTCHESON	1.0	1.0	1.6	3.5	1.0	2.5	2.0	1.7	1.8
MANOKIN	1.0	1.0	3.5	2.5	2.0	2.5	2.5	1.7	2.1
D88-5974	1.0	1.0	4.1	4.5	3.0	3.0	3.0	2.8	2.8
D90-6438	1.3	1.0	3.3	3.0	2.0	3.0	3.0	2.2	2.3
D90-7238	1.8	1.0	4.3	4.0	2.0	3.5	2.5	2.0	2.6
K1247	1.0	1.0	2.0	2.0	1.0	2.5	2.0	1.7	1.6
K1248	1.0	1.0	1.1	2.0	1.0	2.0	2.0	1.4	1.4
K1249	1.0	1.0	1.0	2.5	1.0	2.5	2.0	1.1	1.5
K1250	1.0	1.0	2.3	3.5	1.0	3.0	2.0	1.3	1.9
Ky89-03147	1.0	1.5	1.4	2.5	2.0	3.0	3.0	1.3	2.0
Ky89-04046	1.0	1.0	1.5	3.0	1.0	2.0	2.0	1.1	1.6
LS89-413	1.0	1.0	3.2	2.0	1.0	3.0	2.0	1.6	1.8
LS89-2630	1.0	1.0	2.4	3.0	1.0	2.0	2.0	1.1	1.7
LS89-2820	1.0	1.0	2.3	2.0	1.0	2.0	2.0	1.4	1.6
Md89-5588	1.3	1.5	1.2	2.0	2.0	4.0	3.0	1.4	2.0
N89-1166	1.0	1.0	2.2	3.0	1.0	3.0	2.0	1.4	1.8
N90-205	1.8	1.5	1.8	3.0	3.0	4.0	2.5	1.8	2.4
N90-403	1.0	1.0	2.4	4.0	2.0	2.5	3.0	1.8	2.2
N90-516	1.0	1.0	4.2	3.5	1.0	2.5	2.0	1.5	2.1
OK88-5409	1.0	1.0	2.0	2.0	1.0	2.0	2.0	1.4	1.5
OK89-5902	1.0	1.0	3.2	4.0	2.0	3.0	2.0	1.9	2.3
OK89-6001	1.0	1.0	3.1	3.0	1.0	2.5	2.0	1.8	1.9
R90-115	1.0	1.0	3.4	4.0	2.0	3.0	3.0	1.9	2.4
R90-149S	1.3	0.5	3.1	3.5	2.0	3.5	3.0	1.9	2.3
R90-515	1.0	1.0	2.6	3.5	2.0	3.0	2.5	2.0	2.2
R90-744	1.0	1.0	3.5	4.0	2.0	2.5	2.0	2.3	2.3
S88-1854	1.0	1.0	1.9	3.5	1.0	3.0	2.5	1.4	1.9
S89-1097	1.0	1.0	2.4	4.0	2.0	3.0	2.0	2.0	2.2
S89-1306	1.0	1.0	3.2	3.0	1.0	3.0	2.0	1.7	2.0
S90-1818	1.0	1.5	2.6	4.5	2.0	3.0	2.0	1.8	2.3
SC87-119	1.0	1.0	2.5	3.5	1.0	2.5	2.0	1.6	1.9
Tn88-21	1.0	1.0	2.7	2.5	1.0	2.5	2.0	1.5	1.8
Tn88-87	1.0	1.0	1.3	2.5	1.0	3.0	2.5	1.7	1.7
V88-466	1.0	1.0	2.5	2.5	1.0	2.0	2.0	1.1	1.6
V88-590	1.0	1.0	1.0	2.0	1.0	2.0	2.0	1.5	1.4
V88-1234	1.0	1.0	3.4	4.0	3.8	3.0	3.0	1.9	2.6

TABLE 34 - SEED QUALITY SCORES FOR THE STRAINS IN PRELIMINARY GROUP V, 1992.

STRAIN	PITTS-BURG KS	PLY-MOUTH NC	PORTAGE-VILLE MO	STONE-VILLE MS(A)	STONE-VILLE MS(B)	WARSAW VA	MEAN
HUTCHESON	1	2.5	2	2	2	1.1	1.8
MANOKIN	1	2.5	2	2	2	1.0	1.8
D88-5974	2	2.5	2	2	2	1.5	2.0
D90-6438	2	2.5	2	2	2	1.5	2.0
D90-7238	2	2.0	2	2	2	1.5	1.9
K1247	2	2.0	1	2	2	1.1	1.7
K1248	2	2.0	2	2	2	1.0	1.8
K1249	2	2.5	2	2	2	1.1	1.9
K1250	2	2.5	2	2	2	1.0	1.9
Ky89-03147	1	2.5	1	2	2	1.0	1.6
Ky89-04046	2	2.5	1	2	2	1.2	1.8
LS89-413	2	2.5	2	2	2	1.0	1.9
LS89-2630	2	2.5	2	2	2	1.7	2.0
LS89-2820	2	2.5	2	2	2	1.2	2.0
Md89-5588	.	2.5	2	2	2	1.0	1.9
N89-1166	1	2.5	1	2	2	1.0	1.6
N90-205	2	2.5	2	2	2	1.1	1.9
N90-403	1	2.0	2	2	2	1.1	1.7
N90-516	2	2.5	2	2	2	1.3	2.0
OK88-5409	2	2.0	2	2	2	1.4	1.9
OK89-5902	2	2.0	2	2	2	1.4	1.9
OK89-6001	2	2.5	2	2	2	1.8	2.0
R90-115	3	2.5	2	2	2	1.1	2.1
R90-149S	2	2.0	2	2	2	1.2	1.9
R90-515	1	2.5	2	2	2	1.5	1.8
R90-744	2	2.5	2	2	2	1.2	2.0
S88-1854	2	2.5	2	2	2	1.1	1.9
S89-1097	2	2.5	2	2	2	1.1	1.9
S89-1306	2	2.5	2	2	2	1.4	2.0
S90-1818	2	2.0	2	2	2	1.5	1.9
SC87-119	2	2.0	2	2	2	1.1	1.9
Tn88-21	2	2.5	2	2	2	1.0	1.9
Tn88-87	2	2.0	2	2	2	1.4	1.9
V88-466	2	2.0	2	2	2	1.5	1.9
V88-590	2	2.5	2	2	2	1.0	1.9
V88-1234	2	2.0	2	2	2	1.1	1.9

MATURITY

GROUP

VI

UNIFORM GROUP VI

1992

Uniform Group VI nurseries were planted at 30 locations. Data were obtained from all of the 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. Results from individual locations are summarized in Tables 37 - 42.

The cultivar Leflore is the yield and maturity check. It had a mean yield of 43.2 bushels per acre and a mean maturity of October 15 at the 30 locations.

USDA-ARS and the Mississippi Agricultural and Forestry Experiment Station have proposed the release of D87-5870 in 1993. D87-5870 had a mean yield of 45.2 bushels per acre across all locations in 1992 and a three-year mean yield of 43.6 bushels per acre. D87-5870 is resistant to stem canker, phytophthora rot, SCN race 3, and *Meloidogyne incognita*. It is moderately resistant to *M. arenaria* and has resistance to soybean looper feeding similar to Lamar.

TABLE 35 - PARENTAGE OF THE STRAINS GROWN IN UNIFORM GROUP VI, 1992

	VARIETY OR STRAIN	PARENTAGE	GENERATION COMPOSITED
1.	LEFLORE	CENTENNIAL X J74-47	F5
2.	SHARKEY	TRACY X CENTENNIAL	F5
3.	N86-491	N77-1602 X F77-1797	F5
4.	Au86-888	CO79-760 X N77-114	F5
5.	D87-5870	D82-2218 X LAMAR	F5
6.	D87-4429	SHARKEY X LEFLORE	F5
7.	SC84-931	CENTENNIAL X YOUNG	F5
8.	D88-4380	D82-2218 X SHARKEY	F5
9.	N89-280	YOUNG X NCR84-V233	F6
10.	N89-566	YOUNG X NCR84-V248	F6
11.	RJ85-9116	J77-255 X BEDFORD	F5
12.	R89-131	(R80-437 X LEFLORE) X (JEFF X R80-64K)	F5

Background of lines used as parents:

CO79-760 is a selection from CO73-473 X Centennial grown in Preliminary Group VIII, 1981.
D82-2218 is a selection from Bedford X Tracy-M.
F77-1797 is a selection from (Centennial X Forrest) X (Cobb X D68-216).
J74-47 is a SCN race 4 selection of the same parentage as Bedford.
N77-114 is a selection from Essex X N70-2173. N70-2173 was grown in Uniform Group VI in 1980.
N77-1602 is a selection from Hunter X N70-2205. N70-2205 is a selection from Hampton X Ransom.
R80-437 is a selection from (Centennial X R75-12) X (Picket 71 X PI 90763R).

TABLE 36 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN UNIFORM GROUP VI, 1992.

	YIELD			PROTEIN			OIL		
STRAIN	1992	91-92	90-93	1992	91-92	90-93	1992	91-92	90-93
LEFLORE	43.2	42.7	42.6	42.1	41.9	41.9	19.3	18.9	19.0
SHARKEY	43.0	42.8	42.7	44.0	43.7	43.6	19.3	19.2	19.3
N86-491	45.8	46.5	46.1	41.3	40.8	40.6	19.7	19.8	20.0
Au86-888	44.8	44.6	44.4	40.3	40.0	39.8	21.3	21.2	21.5
D87-5870	45.2	43.8	43.6	41.7	41.3	41.6	20.5	20.4	20.4
D87-4429	48.5	48.5	.	42.0	41.6	.	20.0	19.8	.
SC84-931	48.7	47.7	.	41.7	40.3	.	20.8	20.2	.
D88-4380	44.2	.	.	42.8	.	.	20.3	.	.
N89-280	43.2	.	.	42.2	.	.	20.9	.	.
N89-566	45.4	.	.	42.1	.	.	20.7	.	.
RJ85-9116	44.1	.	.	40.6	.	.	20.7	.	.
R89-131	45.2	.	.	42.5	.	.	20.0	.	.

BOTANTICAL TRAITS

STRAIN	FL. COLOR	HEIGHT	MATURITY DATE	PUB. COLOR	POD WALL	SEED SIZE	SEED QUALITY
LEFLORE	P	37	10/15	T	T	12.4	1.9
SHARKEY	W	40	1	T	T	14.9	2.0
N86-491	P	38	1	T	T	14.0	1.9
Au86-888	P	32	1	G	T	14.3	2.0
D87-5870	W	32	-3	T	T	13.1	1.9
D87-4429	P	32	-1	T	T	15.2	1.8
SC84-931	P	36	-3	G	T	14.3	1.6
D88-4380	W	34	0	T	T	14.3	1.9
N89-280	W	37	-1	G	T	14.7	1.8
N89-566	W	37	0	G	T	13.6	1.8
RJ85-9116	W	33	0	T	T	12.6	2.2
R89-131	W	35	0	T	T	13.2	1.8

PEST REACTIONS

STRAIN	M.a.	M.i.	SCN† RACE 3	SCN† RACE 14	SBL‡	STEM CANKER MS	STEM CANKER TX	FROG EYE
LEFLORE	3.5	1.3	R	R	3	4.1	2	2.2
SHARKEY	4.0	4.8	R	S	4	1.0	0	2.2
N86-491	1.5	1.4	S	S	3	4.8	2	1.0
Au86-888	4.0	4.3	S	S	4	4.1	2	1.0
D87-5870	3.3	1.5	R	S	2.5	1.0	0	2.8
D87-4429	3.3	1.8	R	S	5	1.5	1	2.3
SC84-931	3.8	1.2	S	S	4	2.5	4	1.0
D88-4380	4.3	1.8	R	R	3	1.1	0	2.5
N89-280	5.0	1.2	S	S	4	5.3	6	1.0
N89-566	4.8	2.5	S	S	4	5.0	4	1.7
RJ85-9116	3.8	1.3	R	R	4	4.8	2	2.0
R89-131	3.3	5.0	R	S	3	3.4	2	2.2

† 1991 evaluations conducted at Jackson, TN
‡ 1991 evaluations conducted in a field cage at Stoneville, MS

TABLE 37 - SEED YIELD, IN BUSHELS PER ACRE, FOR THE STRAINS IN UNIFORM GROUP VI, 1992.

EAST COAST

STRAIN	FLORENCE SC	KINSTON NC	PLYMOUTH NC	WARSAW VA	MEAN
LEFLORE	20.7	41.6	47.2	41.3	37.7
SHARKEY	22.9	41.0	43.7	46.1	38.4
N86-491	25.7	44.5	48.2	42.1	40.1
Au86-888	25.4	38.2	47.6	43.6	38.7
D87-5870	17.2	39.8	51.7	48.6	39.3
D87-4429	26.8	45.6	53.7	46.7	43.2
SC84-931	28.9	47.1	54.7	47.9	44.7
D88-4380	25.4	41.4	48.4	46.9	40.5
N89-280	23.8	40.0	46.9	44.9	38.9
N89-566	24.6	41.0	47.4	44.4	39.3
RJ85-9116	19.1	36.6	46.5	42.8	36.2
R89-131	27.3	36.5	50.5	41.6	39.0
L.S.D. (0.05)	7.5	6.9	5.1	5.2	
C.V. (%)	18.4	9.9	6.0	6.9	

SOUTHEAST

STRAIN	BATON ROUGE LA	BLACK-VILLE SC	FAIR-HOPE AL	JAY FL	QUINCY FL	TALLA-SSEE AL	TIF-TON GA	MEAN
LEFLORE	37.5	47.7	42.4	47.7	27.6	49.5	35.6	41.1
SHARKEY	35.3	42.2	42.0	44.4	36.2	46.7	35.4	40.3
N86-491	41.2	53.3	46.3	47.3	33.0	54.3	40.0	45.0
Au86-888	33.7	53.1	48.7	53.9	41.9	51.9	42.2	46.5
D87-5870	35.3	49.4	47.5	42.5	24.5	49.8	34.6	40.5
D87-4429	43.4	50.3	49.0	55.7	43.0	55.1	40.4	48.1
SC84-931	38.5	55.7	47.2	52.8	34.7	57.8	34.1	45.8
D88-4380	36.1	45.1	42.4	41.8	26.6	50.1	36.5	39.8
N89-280	35.3	48.3	46.9	42.9	24.7	51.6	35.4	40.7
N89-566	31.5	51.3	48.7	50.6	32.8	53.2	34.6	43.3
RJ85-9116	28.9	43.2	45.7	48.0	20.6	52.8	27.8	38.1
R89-131	40.0	45.0	45.1	50.2	38.9	57.0	36.5	44.7
L.S.D. (0.05)	7.8	2.9	3.9	8.9	12.1	8.7	6.4	
C.V. (%)	14.9	6.9	5.0	10.9	22.3	9.8	10.5	

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	BELLE-MINA AL	CALHOUN GA	CLEMSON SC	JACK-SON TN	SUF-FOLK VA	MEAN
LEFLORE	46.2	54.0	54.6	53.0	52.7	51.1	51.9
SHARKEY	57.5	56.3	50.9	42.0	55.5	49.2	51.9
N86-491	57.9	59.5	63.5	55.7	49.4	53.7	56.6
Au86-888	59.9	59.2	51.5	52.7	46.1	52.5	53.7
D87-5870	53.9	63.7	53.0	48.9	55.0	52.3	54.5
D87-4429	54.5	68.3	60.4	49.7	56.6	49.3	56.5
SC84-931	61.2	67.8	61.8	54.6	51.7	49.9	57.8
D88-4380	50.4	49.3	45.3	48.0	58.8	52.6	50.8
N89-280	53.9	57.2	43.0	59.0	45.3	54.3	52.1
N89-566	57.6	66.4	57.6	57.9	49.9	46.7	56.0
RJ85-9116	50.0	63.3	57.3	51.9	52.2	42.7	52.9
R89-131	54.5	52.4	57.8	50.8	52.0	49.3	52.8
L.S.D. (0.05)	10.0	14.9	9.8	9.0	5.5	12.0	
C.V. (%)	10.8	14.7	10.6	10.2	6.2	14.0	

TABLE 37 (Continued)

DELTA

STRAIN	JONES-BORO AR	KEI-SER AR	PINE TREE AR	POR-TAGE-VILLE MO(A)	POR-TAGE-VILLE MO(B)	ROH-WER AR	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
LEFLORE	34.1	50.1	37.0	45.3	51.5	44.3	49.9	32.4	37.0	42.4
SHARKEY	27.3	48.4	31.9	45.4	53.8	50.8	63.7	33.2	36.6	43.5
N86-491	33.4	51.6	31.1	42.1	56.1	46.0	57.5	34.3	38.2	43.4
Au86-888	34.4	50.1	32.4	38.8	45.6	53.8	50.6	27.1	35.0	40.9
D87-5870	39.1	53.9	35.9	50.3	60.1	51.5	62.4	33.9	34.8	46.9
D87-4429	37.5	55.7	42.6	49.8	55.3	54.8	54.5	34.8	39.3	47.1
SC84-931	38.2	62.2	30.5	50.9	57.6	56.5	70.1	44.1	38.6	49.9
D88-4380	34.9	52.7	34.4	48.0	54.1	53.2	60.1	43.0	34.3	46.1
N89-280	36.9	52.4	28.6	46.8	53.3	50.8	50.6	32.5	36.5	43.2
N89-566	29.7	54.6	38.2	47.7	55.8	47.0	61.2	41.1	41.2	46.3
RJ85-9116	40.4	53.8	38.5	51.2	53.6	47.3	54.3	43.1	39.9	46.9
R89-131	30.5	53.2	28.9	40.5	51.7	51.2	62.6	29.8	37.4	42.9
L.S.D. (0.05)	5.0	6.0	4.3	6.1	5.9	3.8	8.9	4.3	4.5	
C.V. (%)	8.5	6.6	7.5	7.8	6.5	4.5	9.1	7.2	7.1	

WEST

STRAIN	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	MEAN
LEFLORE	36.0	45.0	47.5	35.2	40.9
SHARKEY	40.5	39.4	31.0	39.7	37.6
N86-491	36.6	46.2	48.7	37.7	42.3
Au86-888	31.4	50.0	52.6	39.1	43.3
D87-5870	35.7	49.6	45.7	34.0	41.2
D87-4429	42.8	52.5	45.5	42.7	45.9
SC84-931	34.4	46.8	43.4	41.1	41.4
D88-4380	40.6	47.5	37.6	39.2	41.2
N89-280	20.5	46.4	42.7	44.0	38.4
N89-566	27.0	44.4	38.4	38.1	37.0
RJ85-9116	32.3	53.3	48.2	37.1	42.7
R89-131	37.5	51.4	52.8	44.7	46.6
L.S.D. (0.05)	4.5	6.7	6.6	6.6	
C.V. (%)	7.6	8.3	8.8	10.0	

TABLE 38 - CHEMICAL COMPOSITION AND SEED SIZE FOR THE STRAINS IN UNIFORM GROUP VI, 1992.

OIL PERCENTAGE

STRAIN	ATHENS GA	BEAU-MONT TX	BIXBY OK	CALHOUN GA	CLEMSON SC	FAIR-HOPE AL	FLORENCE NC	JAY FL	JONES-BORO AR	KEISER AR	KINSTON NC	PINE TREE AR
LEFLORE	19.5	.	.	.	19.4	17.7	20.0	20.6	.	19.9	18.8	.
SHARKEY	18.5	.	.	.	18.6	18.6	19.6	20.4	.	20.2	17.5	.
N86-491	19.4	.	.	.	20.1	18.1	20.4	21.0	.	20.0	18.4	.
Au86-888	21.3	.	.	.	20.7	20.8	21.9	22.1	.	20.7	20.4	.
D87-5870	20.6	.	.	.	20.7	20.1	21.3	21.0	.	21.0	20.1	.
D87-4429	19.1	.	.	.	19.9	19.2	21.0	21.1	.	19.2	19.2	.
SC84-931	21.2	.	.	.	21.2	19.3	21.8	22.0	.	21.7	20.3	.
D88-4380	19.8	.	.	.	20.2	20.9	20.9	21.1	.	21.0	20.0	.
N89-280	21.2	.	.	.	21.3	20.0	21.5	22.0	.	21.4	20.0	.
N89-566	21.1	.	.	.	20.9	18.9	21.3	21.5	.	21.4	19.9	.
RJ85-9116	20.1	.	.	.	21.3	19.8	21.5	21.5	.	20.6	21.0	.
R89-131	19.8	.	.	.	19.6	17.4	20.7	21.0	.	22.2	18.7	.

PROTEIN PERCENTAGE

STRAIN	ATHENS GA	BEAU-MONT TX	BIXBY OK	CALHOUN GA	CLEMSON SC	FAIR-HOPE AL	FLORENCE NC	JAY FL	JONES-BORO AR	KEISER AR	KINSTON NC	PINE TREE AR
LEFLORE	42.2	.	.	.	41.6	46.1	39.6	42.8	.	40.0	44.0	.
SHARKEY	45.3	.	.	.	43.6	47.2	42.4	44.3	.	42.5	46.8	.
N86-491	41.4	.	.	.	40.3	44.6	39.5	41.8	.	40.5	43.1	.
Au86-888	40.2	.	.	.	40.9	42.2	38.2	41.1	.	40.9	41.9	.
D87-5870	40.8	.	.	.	41.5	44.5	38.7	43.9	.	39.9	42.0	.
D87-4429	42.8	.	.	.	41.3	44.4	39.4	43.8	.	42.4	42.9	.
SC84-931	41.1	.	.	.	41.0	44.4	40.1	43.1	.	40.2	42.8	.
D88-4380	43.1	.	.	.	42.2	43.3	40.9	44.9	.	41.2	44.0	.
N89-280	41.8	.	.	.	41.8	45.3	40.9	41.7	.	39.6	44.2	.
N89-566	41.9	.	.	.	42.2	46.4	40.4	43.1	.	39.2	44.3	.
RJ85-9116	41.3	.	.	.	40.8	43.2	39.8	40.7	.	38.0	41.3	.
R89-131	43.0	.	.	.	41.8	48.0	39.9	42.7	.	40.9	44.4	.

GRAMS PER 100 SEED

STRAIN	ATHENS GA	BEAU-MONT TX	BIXBY OK	CALHOUN GA	CLEMSON SC	FAIR-HOPE AL	FLORENCE NC	JAY FL	JONES-BORO AR	KEISER AR	KINSTON NC	PINE TREE AR
LEFLORE	14.0	13.8	14.7	14.6	16.4	13.5	13.4	14.3	14.3	.	.	14.0
SHARKEY	19.1	15.2	17.9	18.1	18.6	14.7	15.4	18.3	15.7	.	.	16.3
N86-491	15.7	15.0	16.5	18.0	17.7	14.3	15.1	18.0	14.0	.	.	14.7
Au86-888	16.4	14.9	16.5	17.9	16.9	15.3	14.8	17.0	15.3	.	.	14.7
D87-5870	15.2	13.9	16.5	16.2	16.2	14.4	12.3	15.7	14.7	.	.	14.0
D87-4429	17.0	16.5	18.9	19.0	19.3	16.4	16.5	17.7	17.0	.	.	17.7
SC84-931	18.1	14.4	16.4	15.6	19.3	14.9	18.1	18.7	15.3	.	.	14.3
D88-4380	16.7	15.6	17.7	17.7	17.6	14.9	14.8	16.7	15.7	.	.	16.0
N89-280	17.8	14.4	16.6	16.1	20.5	16.0	15.7	17.7	15.7	.	.	15.3
N89-566	16.6	15.2	14.7	15.6	18.4	14.0	16.2	16.7	12.0	.	.	14.3
RJ85-9116	14.4	15.0	14.5	15.9	17.2	13.2	13.2	14.0	13.7	.	.	13.7
R89-131	15.6	13.3	17.0	17.1	17.2	13.1	14.1	16.7	13.7	.	.	12.3

TABLE 38 - (Continued)

OIL PERCENTAGE

STRAIN	PLYMOUTH NC	PORTAGE-VILLE MO(A)	QUINCY FL	ROHWER AR	ST. JOSEPH LA	STONE-VILLE MS(B)	STUTT-GART AR	SUF-FOLK VA	TALLA-SSEE AL	TIF-TON GA	WARSAW VA	MEAN
LEFLORE	18.7	18.8	20.2	.	20.0	18.2	.	.	19.4	.	.	19.3
SHARKEY	19.0	18.8	20.7	.	19.7	19.1	.	.	20.1	.	.	19.3
N86-491	19.0	18.4	21.5	.	20.8	19.9	.	.	19.7	.	.	19.7
Au86-888	20.6	20.1	22.7	.	22.3	21.7	.	.	21.4	.	.	21.3
D87-5870	19.6	19.8	21.9	.	20.8	19.1	.	.	20.1	.	.	20.5
D87-4429	19.1	19.5	21.8	.	20.9	19.0	.	.	20.7	.	.	20.0
SC84-931	20.1	18.9	22.0	.	21.4	20.2	.	.	20.9	.	.	20.8
D88-4380	19.6	19.1	21.4	.	20.4	19.5	.	.	20.1	.	.	20.3
N89-280	20.6	19.7	21.5	.	21.9	19.4	.	.	20.9	.	.	20.9
N89-566	20.6	19.7	21.9	.	20.4	19.9	.	.	21.4	.	.	20.7
RJ85-9116	19.9	19.5	21.6	.	21.1	20.7	.	.	21.1	.	.	20.7
R89-131	19.4	18.9	22.1	.	21.3	19.6	.	.	19.5	.	.	20.0

PROTEIN PERCENTAGE

STRAIN	PLYMOUTH NC	PORTAGE-VILLE MO(A)	QUINCY FL	ROHWER AR	ST. JOSEPH LA	STONE-VILLE MS(B)	STUTT-GART AR	SUF-FOLK VA	TALLA-SSEE AL	TIF-TON GA	WARSAW VA	MEAN
LEFLORE	42.7	39.8	42.2	.	40.9	42.7	.	.	42.3	.	.	42.1
SHARKEY	44.6	41.6	42.5	.	44.4	43.3	.	.	44.1	.	.	44.0
N86-491	42.1	39.6	40.9	.	39.4	41.9	.	.	41.8	.	.	41.3
Au86-888	41.5	39.3	39.3	.	38.6	39.4	.	.	41.0	.	.	40.3
D87-5870	42.7	39.4	40.6	.	41.5	43.0	.	.	43.2	.	.	41.7
D87-4429	42.5	40.0	40.6	.	41.1	43.1	.	.	41.9	.	.	42.0
SC84-931	42.6	40.5	41.0	.	40.9	41.7	.	.	42.5	.	.	41.7
D88-4380	44.1	41.3	42.2	.	42.6	42.6	.	.	44.5	.	.	42.8
N89-280	42.6	41.1	41.8	.	40.5	43.2	.	.	43.7	.	.	42.2
N89-566	43.4	40.1	41.5	.	41.1	42.6	.	.	41.5	.	.	42.1
RJ85-9116	40.8	39.6	41.7	.	40.6	39.3	.	.	40.6	.	.	40.6
R89-131	43.3	40.4	39.8	.	40.6	42.9	.	.	45.0	.	.	42.5

GRAMS PER 100 SEED

STRAIN	PLYMOUTH NC	PORTAGE-VILLE MO(A)	QUINCY FL	ROHWER AR	ST. JOSEPH LA	STONE-VILLE MS(B)	STUTT-GART AR	SUF-FOLK VA	TALLA-SSEE AL	TIF-TON GA	WARSAW VA	MEAN
LEFLORE	.	11.9	12.6	11.7	.	10.6	13.0	14.0	14.1	16.1	12.7	13.7
SHARKEY	.	14.5	15.6	14.5	.	12.1	15.7	15.6	16.7	17.4	17.2	16.2
N86-491	.	12.7	16.1	12.8	.	12.7	15.3	14.8	15.7	17.2	13.8	15.3
Au86-888	.	11.8	16.2	14.2	.	12.9	15.3	14.7	18.6	18.6	14.4	15.6
D87-5870	.	12.0	13.3	11.9	.	10.6	14.0	15.6	15.0	16.3	14.5	14.3
D87-4429	.	13.9	15.4	13.4	.	12.3	16.7	15.9	18.1	19.8	15.9	16.7
SC84-931	.	12.4	14.3	12.2	.	10.5	14.3	14.9	16.5	20.2	13.6	15.5
D88-4380	.	13.3	15.2	13.6	.	11.5	15.7	14.4	17.2	18.5	15.3	15.7
N89-280	.	11.9	14.5	14.2	.	10.6	16.0	15.8	18.6	20.6	15.0	15.9
N89-566	.	11.0	14.1	12.9	.	10.4	13.3	13.9	16.2	19.9	12.9	14.6
RJ85-9116	.	12.0	12.1	12.6	.	11.1	12.3	14.4	14.3	15.5	12.6	13.8
R89-131	.	12.0	13.2	11.7	.	11.7	14.3	14.1	16.0	16.7	13.5	14.4

TABLE 39 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN LEFLORE FOR THE STRAINS IN UNIFORM GROUP VI, 1992.

SOUTHEAST

STRAIN	BATON ROUGE LA	BLACK-VILLE SC	FAIR-HOPE AL	JAY FL	QUINCY FL	TALLA-SSEE AL	TIF-TON GA	MEAN
LEFLORE	.	10/16	10/07	10/17	.	10/12	10/02	10/11
SHARKEY	.	2	0	3	.	-2	-1	0
N86-491	.	4	-2	0	.	1	5	1
Au86-888	.	3	0	3	.	3	4	2
D87-5870	.	0	-3	-2	.	-6	-4	-3
D87-4429	.	0	-1	-4	.	-2	-1	-2
SC84-931	.	1	-2	0	.	-5	8	0
D88-4380	.	0	1	2	.	-1	-1	0
N89-280	.	1	-2	3	.	-1	8	1
N89-566	.	2	-3	3	.	0	8	2
RJ85-9116	.	2	-3	3	.	-1	10	2
R89-131	.	0	-2	-1	.	-1	4	0

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	BELLE MINA AL	CAL-HOUN GA	CLEM-SON SC	JACKSON TN	SUFFOLK VA	MEAN
LEFLORE	10/09	10/15	10/20	10/22	10/20	10/25	10/19
SHARKEY	5	0	3	0	0	0	1
N86-491	5	0	-2	1	0	-1	0
Au86-888	5	-1	-1	-2	0	0	0
D87-5870	-1	-1	0	-6	-8	-2	-3
D87-4429	0	0	0	-4	0	0	-1
SC84-931	-3	0	-5	-7	-10	1	-5
D88-4380	2	0	3	-4	-3	1	-1
N89-280	1	1	-7	-3	-5	2	-2
N89-566	1	0	-6	-2	0	0	-2
RJ85-9116	2	1	0	-4	0	2	0
R89-131	2	0	0	-1	0	1	0

EAST COAST

STRAIN	FLORENCE SC	KINSTON NC	PLYMOUTH NC	WARSAW VA	MEAN
LEFLORE	10/17	10/18	10/24	10/21	10/20
SHARKEY	-2	2	-2	1	0
N86-491	4	4	-2	-1	1
Au86-888	3	4	0	-1	2
D87-5870	-5	0	-2	-1	-2
D87-4429	0	4	-4	-1	0
SC84-931	-4	-2	-2	0	-2
D88-4380	-2	0	0	0	-1
N89-280	-3	4	0	2	1
N89-566	2	4	0	0	2
RJ85-9116	-5	4	-2	0	-1
R89-131	0	2	0	-1	0

TABLE 39 - (Continued)

DELTA

STRAIN	JONES-BORO AR	KEI-SER AR	PINE TREE AR	POR-TAGE-VILLE MO(A)	POR-TAGE-VILLE MO(B)	ROH-WER AR	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
LEFLORE	10/18	10/19	10/15	10/20	10/21	10/10	10/09	10/08	10/13	10/15
SHARKEY	-4	0	-5	1	2	-2	-1	2	0	-1
N86-491	-1	-1	-3	-1	2	-2	0	0	0	-1
Au86-888	-1	0	-3	-7	0	2	-1	-2	0	-2
D87-5870	-5	-5	-7	-6	-2	-4	-5	-2	-5	-5
D87-4429	-4	-2	-5	-3	1	-3	-1	-2	0	-2
SC84-931	-7	-5	-8	-5	-2	-4	-9	-2	-10	-6
D88-4380	-2	-1	-4	-1	0	-2	-1	2	-1	-1
N89-280	-5	-2	-7	-2	-1	-3	-10	-1	-10	-5
N89-566	2	-1	-1	-2	0	-2	-7	0	-4	-2
RJ85-9116	-1	-4	-2	-3	-1	2	-4	-2	0	-2
R89-131	1	0	-7	-1	2	1	-3	0	0	-1

WEST

STRAIN	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	MEAN
LEFLORE	10/05	.	.	10/19	10/12
SHARKEY	2	.	.	0	1
N86-491	0	.	.	1	1
Au86-888	-1	.	.	0	-1
D87-5870	-1	.	.	-2	-2
D87-4429	1	.	.	-1	0
SC84-931	-10	.	.	1	-5
D88-4380	1	.	.	-1	0
N89-280	-7	.	.	2	-3
N89-566	-7	.	.	1	-3
RJ85-9116	-5	.	.	3	-1
R89-131	-1	.	.	-1	-1

TABLE 40 - PLANT HEIGHT FOR THE STRAINS IN UNIFORM GROUP VI, 1992.

EAST COAST

STRAIN	FLORENCE SC	KINSTON NC	PLYMOUTH NC	WARSAW VA	MEAN
LEFLORE	23	36	47	37	36
SHARKEY	28	42	44	40	38
N86-491	29	39	39	39	37
Au86-888	22	31	43	34	33
D87-5870	23	32	41	35	33
D87-4429	24	34	39	33	33
SC84-931	28	38	43	37	37
D88-4380	25	37	41	38	35
N89-280	27	39	43	38	37
N89-566	27	38	42	38	37
RJ85-9116	24	34	39	36	33
R89-131	26	32	38	36	33

SOUTHEAST

STRAIN	BATON ROUGE LA	BLACK-VILLE SC	FAIR-HOPE AL	JAY FL	TALLA-SSEE AL	TIF-TON GA	MEAN
LEFLORE	39	32	42	36	43	26	36
SHARKEY	45	37	45	35	44	27	39
N86-491	37	36	42	36	43	29	37
Au86-888	37	29	40	35	38	21	33
D87-5870	35	28	34	29	36	21	31
D87-4429	39	30	35	32	38	22	33
SC84-931	39	32	44	37	40	27	37
D88-4380	37	30	37	30	38	27	33
N89-280	37	33	42	32	42	28	36
N89-566	38	31	41	36	41	26	35
RJ85-9116	32	28	37	37	38	28	33
R89-131	37	28	39	35	39	23	33

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	BELLE MINA AL	CALHOUN GA	CLEMSON SC	JACK-SON TN	SUF-FOLK VA	MEAN
LEFLORE	36	41	47	38	42	34	40
SHARKEY	40	44	41	40	39	37	40
N86-491	38	37	33	41	41	37	38
Au86-888	31	35	37	31	39	35	35
D87-5870	30	35	35	34	34	35	34
D87-4429	33	36	32	36	40	34	35
SC84-931	37	40	36	36	43	34	38
D88-4380	34	37	34	37	37	38	36
N89-280	40	41	33	42	43	32	39
N89-566	39	41	37	40	43	34	39
RJ85-9116	34	37	31	37	35	34	35
R89-131	35	40	31	36	38	32	35

TABLE 40 - (Continued)

DELTA

STRAIN	JONES-BORO AR	KEISER AR	PINE TREE AR	POR-TAGE-VILLE MO(A)	POR-TAGE-VILLE MO(B)	ROH-WER AR	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
LEFLORE	52	40	37	43	40	31	39	37	36	39
SHARKEY	52	43	37	48	41	40	44	40	41	43
N86-491	45	43	34	42	46	40	40	37	39	41
Au86-888	44	35	28	37	30	28	28	34	31	33
D87-5870	42	36	29	34	37	29	29	30	32	33
D87-4429	43	31	28	34	29	28	29	35	34	32
SC84-931	47	32	31	42	36	30	39	39	39	37
D88-4380	44	32	31	36	32	31	32	37	32	34
N89-280	47	38	37	45	39	36	37	39	37	39
N89-566	49	34	32	46	38	30	37	40	36	38
RJ85-9116	43	34	27	36	32	30	35	35	33	34
R89-131	50	39	34	41	34	35	34	39	32	38

WEST

STRAIN	BEAUMONT TX	BIXBY OK	BOSSIER CITY LA	STUTTGART AR	MEAN
LEFLORE	22	38	36	31	32
SHARKEY	28	38	44	37	37
N86-491	26	36	44	35	35
Au86-888	15	28	30	30	26
D87-5870	18	34	29	30	28
D87-4429	19	33	30	29	28
SC84-931	25	37	30	29	30
D88-4380	21	36	32	30	30
N89-280	24	38	35	36	33
N89-566	21	39	38	31	32
RJ85-9116	21	36	35	30	31
R89-131	25	34	35	30	31

TABLE 41 - LODGING SCORES FOR THE STRAINS IN UNIFORM GROUP VI, 1992.

EAST COAST

STRAIN	KINSTON NC	PLYMOUTH NC	WARSAW VA	MEAN
LEFLORE	2.3	4.0	2.3	2.9
SHARKEY	3.0	4.7	3.0	3.6
N86-491	2.0	3.0	2.1	2.4
Au86-888	2.7	3.3	1.8	2.6
D87-5870	2.7	4.0	2.6	3.1
D87-4429	2.0	3.7	2.3	2.7
SC84-931	2.0	3.0	1.8	2.3
D88-4380	2.0	4.0	2.4	2.8
N89-280	2.0	4.0	1.8	2.6
N89-566	2.7	3.3	1.9	2.6
RJ85-9116	2.3	4.0	1.8	2.7
R89-131	2.7	4.0	2.4	3.0

SOUTHEAST

STRAIN	BATON ROUGE LA	FAIRHOPE AL	JAY FL	TALLASSEE AL	TIFTON GA	MEAN
LEFLORE	5	1.0	2.3	1.3	1.2	2.2
SHARKEY	5	2.0	2.7	2.0	2.0	2.7
N86-491	4	1.0	1.3	1.7	1.2	1.8
Au86-888	3	1.0	2.0	1.2	1.0	1.6
D87-5870	4	1.3	2.3	1.5	1.1	2.0
D87-4429	4	1.3	2.3	1.2	1.1	2.0
SC84-931	3	1.3	2.0	1.0	1.0	1.7
D88-4380	5	2.3	2.3	2.2	1.7	2.7
N89-280	4	2.3	2.3	1.7	2.0	2.5
N89-566	3	1.7	2.0	1.8	1.4	2.0
RJ85-9116	4	1.3	2.0	1.5	1.0	2.0
R89-131	5	1.0	2.0	1.5	1.4	2.2

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	BELLE MINA AL	CALHOUN GA	CLEMSON SC	JACKSON TN	SUF-FOLK VA	MEAN
LEFLORE	2.3	1.7	2.5	2.7	2.8	3.3	2.6
SHARKEY	3.0	2.3	2.5	4.0	3.2	3.7	3.1
N86-491	2.0	1.0	2.2	3.0	2.7	3.5	2.4
Au86-888	1.7	1.0	2.7	1.3	3.0	3.2	2.1
D87-5870	2.2	1.7	2.7	3.0	3.2	3.7	2.7
D87-4429	1.8	2.0	2.5	3.0	3.3	3.7	2.7
SC84-931	1.8	1.0	1.8	1.7	1.8	3.2	1.9
D88-4380	2.3	1.7	3.0	2.3	2.7	3.3	2.6
N89-280	2.7	2.0	4.2	4.0	2.8	3.8	3.3
N89-566	2.2	1.7	4.2	2.7	2.7	3.3	2.8
RJ85-9116	2.3	1.3	2.0	2.0	3.0	3.8	2.4
R89-131	2.7	1.0	2.3	4.0	2.8	3.8	2.8

TABLE 41 - (Continued)

DELTA

STRAIN	JONES-BORO AR	KEISER AR	PINE TREE AR	POR-TAGE-VILLE-MO(A)	POR-TAGE-VILLE-MO(B)	ROH-WER AR	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
LEFLORE	2.3	1.0	1.0	2	3	1.0	1.8	3.0	2.3	1.9
SHARKEY	3.0	3.2	1.3	3	3	3.3	3.5	3.0	3.0	2.9
N86-491	2.7	1.7	1.0	2	3	1.0	2.1	3.0	3.0	2.2
Au86-888	2.3	1.0	1.0	2	1	1.0	1.5	2.3	2.0	1.6
D87-5870	3.7	1.0	1.0	3	3	1.0	2.2	3.0	2.7	2.3
D87-4429	3.3	1.0	1.0	3	2	1.0	1.5	2.7	2.0	1.9
SC84-931	1.0	1.0	1.0	1	1	1.0	1.7	2.0	2.0	1.3
D88-4380	2.7	1.0	1.0	3	2	1.7	2.7	3.0	2.7	2.2
N89-280	2.7	1.3	1.0	3	2	1.0	2.9	2.7	2.0	2.1
N89-566	1.0	1.0	1.0	3	3	1.0	2.9	2.7	2.0	2.0
RJ85-9116	2.0	1.0	1.0	2	1	1.0	1.7	3.0	2.0	1.6
R89-131	1.7	1.0	1.0	2	2	1.3	1.6	2.7	2.7	1.8

WEST

STRAIN	BEAUMONT TX	BIXBY OK	BOSSIER-CITY LA	STUTTGART AR	MEAN
LEFLORE	1	3	1.0	1.0	1.5
SHARKEY	1	3	2.3	1.7	2.0
N86-491	1	3	3.0	1.0	2.0
Au86-888	1	3	1.0	1.0	1.5
D87-5870	1	4	1.7	1.0	1.9
D87-4429	1	3	1.0	1.0	1.5
SC84-931	1	2	1.0	1.0	1.3
D88-4380	1	3	1.0	1.0	1.5
N89-280	1	3	1.0	1.0	1.5
N89-566	1	2	1.0	1.0	1.3
RJ85-9116	1	3	1.0	1.0	1.5
R89-131	1	3	1.0	1.0	1.5

TABLE 42 - SEED QUALITY FOR THE STRAINS IN UNIFORM GROUP VI, 1992.

EAST COAST

STRAIN	KINSTON NC	PLYMOUTH NC	WARSAW VA	MEAN
LEFLORE	2.0	2.0	1.1	1.7
SHARKEY	2.0	2.0	1.1	1.7
N86-491	2.0	2.0	1.1	1.7
Au86-888	2.0	2.5	1.3	1.9
D87-5870	2.0	2.5	1.1	1.9
D87-4429	2.0	2.0	1.1	1.7
SC84-931	2.0	2.0	1.0	1.7
D88-4380	2.5	2.5	1.1	2.0
N89-280	2.0	2.5	1.3	1.9
N89-566	2.5	2.5	1.3	2.1
RJ85-9116	2.5	2.0	1.1	1.9
R89-131	2.5	2.0	1.1	1.9

SOUTHEAST

STRAIN	FAIRHOPE AL	JAY FL	QUINCY FL	TALLASSEE AL	TIFTON GA	MEAN
LEFLORE	2	3.0	1.8	2	2.0	2.2
SHARKEY	2	3.3	3.5	2	1.9	2.6
N86-491	2	3.0	1.8	2	2.0	2.2
Au86-888	3	2.7	1.8	3	2.3	2.6
D87-5870	2	3.0	2.2	2	2.1	2.3
D87-4429	2	2.7	2.0	2	1.9	2.1
SC84-931	2	2.0	1.7	1	2.5	1.8
D88-4380	3	3.3	2.3	2	2.0	2.5
N89-280	4	2.0	2.0	2	2.3	2.5
N89-566	2	2.3	2.0	1	2.5	2.0
RJ85-9116	2	4.0	2.3	2	3.1	2.7
R89-131	2	2.3	1.7	1	1.6	1.7

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	CALHOUN GA	JACKSON TN	SUFFOLK VA	MEAN
LEFLORE	1.5	1.5	1.8	1.3	1.5
SHARKEY	1.8	1.3	1.5	1.0	1.4
N86-491	2.0	1.7	2.2	1.0	1.7
Au86-888	2.0	1.8	1.3	1.7	1.7
D87-5870	1.5	1.5	1.7	1.0	1.4
D87-4429	1.5	1.0	1.3	1.0	1.2
SC84-931	1.7	1.0	1.5	1.0	1.3
D88-4380	1.8	2.0	1.5	1.0	1.6
N89-280	1.5	1.5	1.2	1.0	1.3
N89-566	1.5	1.3	1.3	1.3	1.4
RJ85-9116	2.0	2.2	2.3	1.0	1.9
R89-131	1.5	1.5	2.0	1.0	1.5

TABLE 42 - (Continued)

DELTA

STRAIN	JONES-BORO AR	PINE TREE AR	PORTAGE-VILLE MO(A)	PORTAGE-VILLE MO(B)	STONE-VILLE MS(A)	STONE-VILLE MS(B)	MEAN
LEFLORE	2.0	2.0	2	2	2	2	2.0
SHARKEY	1.3	2.0	2	2	2	2	1.9
N86-491	2.0	1.7	2	2	2	2	1.9
Au86-888	1.7	2.0	1	2	2	2	1.8
D87-5870	1.3	1.7	2	2	2	2	1.8
D87-4429	2.0	1.7	1	2	2	2	1.8
SC84-931	1.0	1.0	2	2	2	2	1.7
D88-4380	1.0	1.3	1	1	2	2	1.4
N89-280	1.0	1.7	1	1	2	2	1.4
N89-566	1.0	1.3	2	2	2	2	1.7
RJ85-9116	2.7	1.7	2	2	2	2	2.1
R89-131	2.0	2.0	2	2	2	2	2.0

WEST

STRAIN	BEAUMONT TX	MEAN
LEFLORE	1.5	1.5
SHARKEY	3.3	3.3
N86-491	1.2	1.2
Au86-888	2.0	2.0
D87-5870	1.7	1.7
D87-4429	2.7	2.7
SC84-931	1.7	1.7
D88-4380	2.2	2.2
N89-280	2.7	2.7
N89-566	2.0	2.0
RJ85-9116	2.7	2.7
R89-131	1.7	1.7

PRELIMINARY GROUP VI

1992

Preliminary Group VI nurseries were planted at 7 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 ratings for stem canker and frogeye. Results from individual locations are summarized in Tables 45 - 51.

The cultivar Sharkey is the yield and maturity check. It had a mean yield of 41.3 bushels per acre and a mean maturity of October 15 at the 7 locations.

TABLE 43 - PARENTAGE OF THE STRAINS GROWN IN PRELIMINARY GROUP VI, 1992.

	VARIETY OR STRAIN	PARENTAGE
1.	SHARKEY	TRACY X CENTENNIAL
2.	BEDFORD	FORREST(2) X D68-18 X PI88788
3.	Au89-646	R83-1552 X F88-2048
4.	Au89-1424	G80-1515 X STONEWALL
5.	Au89-2124	G80-1515 X N81-1121
6.	D87-4647	SHARKEY X D81-9776
7.	D87-4877	D81-701 X TRACY BR
8.	D88-5607	D82-3298 X D82-5173
9.	D90-6626	D82-3298 X D80-7279
10.	G88-1675	COKER 368 X LEFLORE
11.	G88-2036	G80-1515 X D77-6056
12.	G88-2264	G80-1515 X D77-6056
13.	G88-2581	G80-1515 X J80-293
14.	G88-9117	HUTCHESON X COKER 6738
15.	N90-478	G81-152 X N83-630
16.	N90-541	HUTCHESON X N83-1014
17.	N90-707	N84-767 X (N85-375 X N85-2176)
18.	N90-810	BRIM X N80-777
19.	N90-1101	BRIM X N80-777
20.	OK89-5618	COKER 156 X ESSEX
21.	OK89-6101	TRACY X CENTENNIAL
22.	OK89-6117	TRACY X CENTENNIAL
23.	R90-637S	R84-150 X LLOYD
24.	R90-844	(WALTERS X LLOYD) X NAROW
25.	R90-1061	(LLOYD X NAROW) X (R82-1145 X R81-824)
26.	R90-1594	HARTZ 6381 X WALTERS
27.	S90-1218	S81-2876 X N81-375
28.	S90-1245	D81-7857 X N83-375
29.	SC89-147	HUTCHESON X LEFLORE
30.	SC89-181	HUTCHESON X LEFLORE
31.	SC89-216	HUTCHESON X LEFLORE
32.	SC89-238	HUTCHESON X LEFLORE
33.	SC89-1672	COKER 673 X LEFLORE
34.	TsB87-168	BRAGG X COKER 156
35.	V88-491	V79-881 X TOANO
36.	V88-494	V79-881 X TOANO

TABLE 44 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VI, 1992.

STRAIN	SEED YIELD	MAT. INDEX	PERCENT			STEM CANKER MS	FROG EYE
			HT.	OIL	PROTEIN		
SHARKEY	41.3	10/15	41	19.4	44.1	1.0	2.0
BEDFORD	42.6	8-	36	20.3+	41.1-	5.3	2.0
Au89-646	44.4	1+	39	21.2+	40.9-	2.5	1.5
Au89-1424	46.9+	3-	37	21.3+	40.5-	4.5	1.0
Au89-2124	44.6	1+	38	20.4+	40.8-	.	2.0
D87-4647	42.6	2-	36	18.6-	44.6	1.0	2.8
D87-4877	40.9	0	33	19.8	44.5	.	2.0
D88-5607	41.0	1+	35	18.7-	45.0	5.8	2.0
D90-6626	44.3	0	39	18.9	44.1	5.0	2.3
G88-1675	45.3	2-	39	20.6+	41.3-	4.3	2.0
G88-2036	43.5	7-	36	20.7+	42.0-	3.5	1.5
G88-2264	45.6	1-	40	20.4+	40.1-	5.3	1.5
G88-2581	44.1	1+	38	20.6+	41.9-	4.5	2.8
G88-9117	41.7	7-	36	21.5+	41.3-	1.0	2.3
N90-478	44.8	4-	38	21.0+	41.7-	5.0	1.0
N90-541	49.7+	7-	34	22.8+	40.8-	1.0	1.0
N90-707	46.4+	5-	36	20.5+	44.4	4.3	1.0
N90-810	44.4	1+	40	20.7+	42.8-	4.3	2.0
N90-1101	49.0+	4-	34	19.9	43.1-	.	1.0
OK89-5618	42.0	4-	36	22.4+	39.8-	4.3	2.5
OK89-6101	46.3+	9-	32	20.5+	44.0	4.5	2.5
OK89-6117	43.7	10-	30	20.5+	43.0-	.	2.5
R90-637S	41.7	1+	41	20.5+	42.6-	.	2.5
R90-844	48.1+	8-	37	21.7+	40.5-	4.8	3.0
R90-1061	40.3	3-	37	20.2+	42.7-	3.5	2.3
R90-1594	45.4	1-	39	19.9	40.6-	5.0	2.8
S90-1218	49.2+	8-	35	21.8+	42.7-	4.8	1.8
S90-1245	47.7+	7-	36	22.0+	41.4-	3.0	2.8
SC89-147	50.0+	1+	37	20.9+	41.7-	1.0	1.5
SC89-181	49.1+	3+	37	20.3+	40.8-	1.0	1.5
SC89-216	52.3+	4-	37	20.4+	41.0-	1.0	2.0
SC89-238	47.2+	2+	41	21.1+	40.4-	3.0	2.3
SC89-1672	45.4	0	39	19.4	42.4-	3.8	2.3
TsB87-168	39.9	0	37	20.2+	42.7-	1.8	2.5
V88-491	46.6+	3-	35	21.0+	42.5-	4.3	4.0
V88-494	47.9+	1-	35	20.9+	41.6-	1.0	1.5
L.S.D. (0.05)	4.5			0.6	0.9		
C.V.(%)	9%			2%	2%		

(+) or (-) designations refer to significant differences to Sharkey at the 0.05 probability level.

TABLE 45 - SEED YIELD, IN BUSHELS PER ACRE, FOR THE STRAINS IN PRELIMINARY GROUP VI, 1992.

STRAIN	ATHENS GA	JAY FL	KEISER AR	PLYMOUTH NC	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLA-SSEE AL	MEAN
SHARKEY	37.0	44.0	50.4	42.9	35.0	31.1	48.7	41.3
BEDFORD	28.5	46.8	49.3	47.4	42.0+	34.1	50.1	42.6
Au89-646	38.8	44.6	49.5	48.8	37.1	33.8	58.2	44.4
Au89-1424	45.1	47.9	52.1	51.1	38.2	35.5	58.6	46.9+
Au89-2124	35.4	44.6	53.6	50.2	37.0	38.3+	53.3	44.6
D87-4647	45.3	39.6	56.7	44.1	29.9	32.0	50.4	42.6
D87-4877	38.7	44.6	55.3	40.7	31.0	29.4	46.6	40.9
D88-5607	32.7	40.2	49.6	49.1	36.7	30.9	48.2	41.0
D90-6626	27.6	43.5	54.9	54.2+	36.8	41.6+	51.6	44.3
G88-1675	38.7	52.3	51.0	45.1	41.7+	40.3+	47.8	45.3
G88-2036	27.7	46.8	57.6	50.8	40.5	32.8	48.1	43.5
G88-2264	45.4	41.3	53.0	46.8	44.8+	38.8+	48.9	45.6
G88-2581	41.5	46.2	48.6	46.4	33.8	37.8+	54.5	44.1
G88-9117	28.6	44.0	54.3	50.1	29.6	35.4	49.6	41.7
N90-478	29.4	45.7	58.9	54.4+	36.7	35.3	53.3	44.8
N90-541	30.9	54.5+	67.0+	50.6	41.9+	46.3+	56.8	49.7+
N90-707	37.4	46.2	58.5	46.9	38.4	43.6+	54.1	46.4+
N90-810	35.7	45.1	54.0	51.7	35.2	40.7+	48.4	44.4
N90-1101	48.5	53.9+	55.8	54.0+	34.0	37.7+	59.1+	49.0+
OK89-5618	41.5	45.1	55.0	48.5	29.4	33.4	41.2	42.0
OK89-6101	34.9	39.6	64.9+	55.1+	38.6	39.1+	51.6	46.3+
OK89-6117	40.5	42.4	60.3+	43.4	36.2	35.7	47.5	43.7
R90-637S	35.6	35.8	50.3	50.2	29.5	36.0+	54.9	41.7
R90-844	39.1	45.7	59.7+	55.0+	42.8+	40.9+	53.7	48.1+
R90-1061	40.0	43.5	46.9	43.5	24.5-	32.6	51.4	40.3
R90-1594	40.9	44.6	52.3	50.2	35.7	40.5+	53.7	45.4
S90-1218	40.0	42.4	66.0+	51.1	45.5+	43.0+	56.5	49.2+
S90-1245	33.3	46.2	64.3+	49.5	46.7+	41.8+	52.0	47.7+
SC89-147	44.5	49.5	58.7	50.5	43.2+	45.4+	58.4	50.0+
SC89-181	45.9	47.9	54.0	53.0+	38.7	40.6+	63.9+	49.1+
SC89-216	51.8+	48.4	59.4+	53.1+	46.4+	45.1+	62.1+	52.3+
SC89-238	45.6	56.7+	53.2	45.8	41.4+	40.9+	47.2	47.2+
SC89-1672	40.4	49.0	52.9	48.9	35.2	36.6+	54.8	45.4
TsB87-168	25.2	47.9	44.4	44.0	32.8	31.4	53.6	39.9
V88-491	40.9	42.9	63.7+	48.1	40.6	39.7+	50.3	46.6+
V88-494	41.1	46.2	63.6+	50.6	36.0	39.1+	59.1+	47.9+
L.S.D. (0.05)	12.9	9.1	8.6	9.1	5.8	4.8	10.0	4.5
C.V. (%)	15.3	9.8	7.6	9.1	7.6	6.3	9.4	9.4

(+) or (-) designations refer to significant differences to Sharkey at the 0.05 probability level.

TABLE 46 - OIL PERCENTAGES FOR THE STRAINS IN PRELIMINARY GROUP VI, 1992.

STRAIN	JAY FL	KEISER AR	PLYMOUTH NC	STONE-VILLE MS(B)	TALLASSEE AL	MEAN
SHARKEY	20.4	19.2	18.4	19.0	19.9	19.4
BEDFORD	20.5	20.8	20.2	19.7	20.4	20.3
Au89-646	22.5	21.6	20.6	20.9	20.5	21.2
Au89-1424	22.2	21.8	20.3	21.2	21.0	21.3
Au89-2124	21.0	21.0	19.6	20.1	20.5	20.4
D87-4647	19.1	20.0	18.0	18.4	17.3	18.6
D87-4877	20.3	20.7	18.9	19.2	20.0	19.8
D88-5607	19.5	19.0	18.0	18.1	19.0	18.7
D90-6626	20.1	19.2	19.2	17.5	18.5	18.9
G88-1675	21.5	20.7	19.5	20.4	20.8	20.6
G88-2036	21.0	21.3	19.9	20.3	21.2	20.7
G88-2264	20.8	20.7	18.9	20.2	21.4	20.4
G88-2581	21.4	21.0	20.1	20.1	20.6	20.6
G88-9117	22.3	22.2	21.0	20.4	21.8	21.5
N90-478	21.4	21.5	20.6	19.7	21.6	21.0
N90-541	23.5	23.4	21.9	22.3	22.9	22.8
N90-707	21.4	21.0	19.4	20.4	20.3	20.5
N90-810	21.5	20.6	19.7	20.4	21.5	20.7
N90-1101	20.8	20.2	18.7	19.5	20.5	19.9
OK89-5618	23.4	22.7	21.4	21.9	22.4	22.4
OK89-6101	20.9	21.1	20.4	19.4	20.7	20.5
OK89-6117	21.3	21.4	19.7	19.6	20.7	20.5
R90-637S	21.6	20.4	19.2	20.4	20.9	20.5
R90-844	22.4	22.0	20.2	21.8	22.0	21.7
R90-1061	21.7	20.6	19.0	19.5	20.1	20.2
R90-1594	21.0	20.5	18.7	19.2	20.1	19.9
S90-1218	23.0	21.6	21.1	21.1	22.1	21.8
S90-1245	23.0	21.9	21.4	21.3	22.4	22.0
SC89-147	21.5	20.4	20.8	20.6	21.3	20.9
SC89-181	21.2	21.2	19.1	19.9	20.0	20.3
SC89-216	21.0	20.9	20.0	20.2	20.0	20.4
SC89-238	22.0	22.0	19.6	20.3	21.5	21.1
SC89-1672	20.6	18.6	19.0	18.4	20.6	19.4
TsB87-168	21.5	20.7	19.4	19.0	20.6	20.2
V88-491	21.4	21.1	19.8	21.1	21.8	21.0
V88-494	21.3	21.1	20.1	21.1	20.8	20.9

TABLE 47 - PROTEIN PERCENTAGES FOR THE STRAINS IN PRELIMINARY GROUP VI, 1992.

STRAIN	JAY FL	KEISER AR	PLYMOUTH NC	STONE-VILLE MS(B)	TALLASSEE AL	MEAN
SHARKEY	44.5	43.7	45.3	43.8	43.4	44.1
BEDFORD	42.0	38.6	41.8	41.2	42.0	41.1
Au89-646	40.4	39.5	41.4	41.0	42.0	40.9
Au89-1424	40.4	38.4	41.5	40.2	42.0	40.5
Au89-2124	41.1	39.5	41.2	40.8	41.5	40.8
D87-4647	45.4	42.5	45.3	44.1	45.7	44.6
D87-4877	45.5	42.3	44.8	44.6	45.3	44.5
D88-5607	45.0	43.5	45.6	45.9	44.9	45.0
D90-6626	43.5	42.7	44.1	45.0	45.3	44.1
G88-1675	41.4	39.7	42.2	40.7	42.5	41.3
G88-2036	42.2	39.2	43.5	42.1	43.0	42.0
G88-2264	41.4	38.5	41.2	39.4	40.0	40.1
G88-2581	42.1	39.8	42.8	41.5	43.4	41.9
G88-9117	41.6	39.6	42.1	41.6	41.5	41.3
N90-478	41.9	40.0	42.7	43.0	40.8	41.7
N90-541	40.9	39.4	42.0	41.1	40.8	40.8
N90-707	45.4	41.5	45.3	43.5	46.5	44.4
N90-810	42.9	42.7	44.0	41.7	42.8	42.8
N90-1101	43.6	41.5	44.9	42.3	43.0	43.1
OK89-5618	40.4	38.0	40.8	39.8	40.0	39.8
OK89-6101	43.8	42.1	44.3	45.2	44.5	44.0
OK89-6117	43.5	40.1	44.1	43.4	43.8	43.0
R90-637S	42.5	41.5	44.1	42.5	42.2	42.6
R90-844	41.1	38.8	42.1	39.7	40.7	40.5
R90-1061	41.6	40.8	44.4	42.7	43.9	42.7
R90-1594	40.7	38.8	41.8	40.6	41.3	40.6
S90-1218	42.5	41.4	43.3	43.3	42.8	42.7
S90-1245	41.1	39.5	41.8	42.5	42.3	41.4
SC89-147	42.2	41.6	42.0	41.0	41.8	41.7
SC89-181	40.6	39.2	42.5	40.1	41.7	40.8
SC89-216	41.1	40.0	42.1	40.1	41.6	41.0
SC89-238	41.2	37.6	42.8	40.8	39.6	40.4
SC89-1672	42.3	42.3	42.7	42.7	41.9	42.4
TsB87-168	42.7	40.6	43.5	43.5	43.2	42.7
V88-491	42.0	41.8	44.8	42.4	41.7	42.5
V88-494	42.3	40.8	43.1	39.8	42.0	41.6

TABLE 48 - SEED SIZE FOR THE STRAINS IN PRELIMINARY GROUP VI, 1992.

STRAIN	ATHENS GA	JAY FL	STONEVILLE MS(B)	TALLASSEE AL	MEAN
SHARKEY	15.6	16.5	12.7	17.6	15.6
BEDFORD	11.2	14.0	10.1	14.2	12.4
Au89-646	12.9	15.5	11.6	15.5	13.9
Au89-1424	16.0	16.5	12.5	17.6	15.6
Au89-2124	10.7	14.5	10.6	14.0	12.4
D87-4647	16.2	15.0	11.4	16.3	14.7
D87-4877	16.6	17.0	13.0	18.8	16.4
D88-5607	13.6	17.0	11.7	15.3	14.4
D90-6626	11.2	13.0	9.8	13.1	11.8
G88-1675	14.0	14.5	11.3	15.5	13.8
G88-2036	10.4	13.0	10.2	14.5	12.0
G88-2264	14.4	16.0	11.6	16.6	14.7
G88-2581	12.8	11.5	11.2	13.3	12.2
G88-9117	12.3	15.0	10.6	15.6	13.4
N90-478	13.7	18.0	12.3	16.3	15.1
N90-541	12.4	18.0	12.8	18.8	15.5
N90-707	14.5	19.0	13.0	18.6	16.3
N90-810	14.1	18.0	11.5	16.5	15.0
N90-1101	12.2	16.5	9.9	16.4	13.7
OK89-5618	16.0	17.5	11.8	18.0	15.8
OK89-6101	18.0	21.5	13.1	19.3	18.0
OK89-6117	14.6	17.0	11.3	17.6	15.1
R90-637S	14.2	15.0	11.2	15.5	14.0
R90-844	13.7	19.0	12.3	16.2	15.3
R90-1061	11.1	13.0	9.7	13.9	11.9
R90-1594	12.8	14.0	10.9	15.6	13.3
S90-1218	15.0	20.0	13.1	17.4	16.4
S90-1245	14.1	18.5	12.6	19.8	16.3
SC89-147	12.7	17.5	11.8	17.8	14.9
SC89-181	12.2	15.0	10.4	15.0	13.2
SC89-216	17.0	17.5	12.8	18.9	16.6
SC89-238	13.5	15.0	10.9	15.0	13.6
SC89-1672	14.3	17.5	11.3	15.5	14.7
TsB87-168	13.2	16.0	11.5	17.3	14.5
V88-491	12.4	15.0	12.1	16.5	14.0
V88-494	14.1	15.5	11.3	16.1	14.3

TABLE 49 - PLANT HEIGHT FOR THE STRAINS IN PRELIMINARY GROUP VI, 1992.

STRAIN	ATHENS GA	JAY FL	KEISER AR	PLYMOUTH NC	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLA-SSEE AL	MEAN
SHARKEY	40	35	44	47	38	39	41	41
BEDFORD	38	36	21	44	41	35	40	36
Au89-646	34	35	43	46	40	36	42	39
Au89-1424	32	31	39	43	37	38	40	37
Au89-2124	35	34	42	42	38	37	38	38
D87-4647	36	28	36	45	36	33	39	36
D87-4877	30	35	37	36	30	21	42	33
D88-5607	31	28	35	43	36	35	38	35
D90-6626	34	31	42	49	38	39	40	39
G88-1675	36	34	38	44	40	42	41	39
G88-2036	34	34	33	42	37	35	40	36
G88-2264	39	35	39	47	39	40	43	40
G88-2581	37	31	39	46	34	39	42	38
G88-9117	30	33	39	40	37	34	38	36
N90-478	38	33	35	44	35	42	42	38
N90-541	27	37	30	37	35	35	35	34
N90-707	32	35	35	43	34	36	38	36
N90-810	39	34	41	46	39	38	43	40
N90-1101	31	32	35	39	35	32	37	34
OK89-5618	30	35	34	41	36	36	37	36
OK89-6101	28	31	30	37	34	32	35	32
OK89-6117	27	29	26	34	32	31	33	30
R90-637S	40	36	44	45	39	40	43	41
R90-844	30	33	42	40	36	36	40	37
R90-1061	32	35	37	43	38	36	42	37
R90-1594	36	32	40	48	38	40	42	39
S90-1218	31	33	33	41	37	35	36	35
S90-1245	36	34	34	46	36	32	38	36
SC89-147	33	33	37	44	36	33	41	37
SC89-181	35	33	40	40	37	36	38	37
SC89-216	34	32	38	43	40	34	43	37
SC89-238	39	36	41	45	40	43	45	41
SC89-1672	34	36	41	46	36	39	42	39
TsB87-168	33	34	40	42	36	37	40	37
V88-491	29	30	37	40	37	34	39	35
V88-494	31	31	34	44	34	34	39	35

TABLE 50 - LODGING SCORES FOR THE STRAINS IN PRELIMINARY GROUP VI, 1992.

STRAIN	ATHENS GA	JAY FL	KEISER AR	PLY-MOUTH NC	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLA-SSEE AL	MEAN
SHARKEY	3.0	0.3	2.5	4.0	3.0	2.0	2.8	2.5
BEDFORD	2.8	0.2	1.0	4.0	3.0	3.0	2.3	2.3
Au89-646	2.0	0.1	2.5	4.5	3.0	2.0	2.0	2.3
Au89-1424	1.8	0.2	1.0	4.0	2.5	2.0	1.5	1.9
Au89-2124	1.5	0.2	1.5	3.5	2.0	2.0	1.5	1.7
D87-4647	2.8	0.3	1.5	5.0	2.5	3.0	2.5	2.5
D87-4877	1.8	0.2	1.8	3.0	2.0	2.0	2.8	1.9
D88-5607	2.5	0.3	2.5	4.5	3.0	3.0	3.0	2.7
D90-6626	3.0	0.3	3.5	4.0	3.0	3.0	3.0	2.8
G88-1675	2.0	0.2	2.3	4.0	3.0	3.0	1.8	2.3
G88-2036	2.3	0.2	1.0	3.0	2.0	2.5	1.8	1.8
G88-2264	3.3	0.3	2.5	4.0	3.0	3.0	2.3	2.6
G88-2581	2.5	0.3	1.5	4.0	2.5	2.5	2.0	2.2
G88-9117	1.5	0.1	1.0	2.5	3.0	2.0	1.3	1.6
N90-478	2.8	0.3	1.5	4.0	3.0	3.0	2.0	2.4
N90-541	1.5	0.1	1.0	3.0	2.0	2.0	1.0	1.5
N90-707	1.5	0.1	1.0	3.0	2.5	2.0	1.5	1.7
N90-810	2.5	0.2	2.5	4.0	2.0	2.5	1.8	2.2
N90-1101	1.5	0.2	1.0	3.5	2.5	2.5	1.5	1.8
OK89-5618	1.5	0.2	1.0	4.0	3.0	2.0	1.5	1.9
OK89-6101	2.0	0.3	1.0	4.0	3.0	2.0	1.5	2.0
OK89-6117	1.5	0.1	1.0	2.5	3.0	2.0	1.5	1.7
R90-637S	2.3	0.2	1.5	3.5	3.0	2.0	2.3	2.1
R90-844	1.8	0.2	1.2	3.0	2.0	2.0	1.3	1.6
R90-1061	1.8	0.2	1.0	3.0	2.5	2.6	1.5	1.8
R90-1594	1.5	0.1	1.0	4.0	3.0	2.0	1.5	1.9
S90-1218	1.5	0.2	1.0	3.0	3.0	2.0	1.0	1.7
S90-1245	2.0	0.2	1.0	4.0	2.5	2.5	1.5	2.0
SC89-147	2.0	0.2	1.0	3.5	2.0	2.0	1.5	1.7
SC89-181	2.0	0.2	1.0	3.0	2.0	2.0	1.5	1.7
SC89-216	2.3	0.2	1.0	3.0	2.0	2.5	1.3	1.7
SC89-238	3.3	0.2	2.5	4.0	3.0	3.0	2.3	2.6
SC89-1672	2.5	0.1	1.0	4.0	2.5	3.0	1.5	2.1
TsB87-168	1.5	0.2	1.0	4.5	3.0	2.5	1.5	2.0
V88-491	1.5	0.1	1.0	3.0	2.0	2.0	1.5	1.6
V88-494	1.8	0.2	1.0	3.5	2.0	2.0	1.3	1.7

TABLE 51 - SEED QUALITY SCORES FOR THE STRAINS IN PRELIMINARY GROUP VI, 1992.

STRAIN	ATHENS GA	JAY FL	PLYMOUTH NC	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLASSEE AL	MEAN
SHARKEY	1.8	0.3	2.0	2	2	2	1.7
BEDFORD	2.0	0.4	2.5	2	2	2	1.8
Au89-646	2.0	0.3	2.0	2	2	1	1.5
Au89-1424	1.8	0.3	2.0	2	2	1	1.5
Au89-2124	1.8	0.3	2.0	2	2	1	1.5
D87-4647	2.5	0.5	2.0	3	3	3	2.3
D87-4877	2.5	0.4	2.0	2	2	2	1.8
D88-5607	2.0	0.3	2.0	2	2	1	1.5
D90-6626	2.0	0.3	2.0	2	2	2	1.7
G88-1675	1.8	0.3	2.0	2	2	1	1.5
G88-2036	2.8	0.4	2.5	2	2	2	1.9
G88-2264	2.0	0.3	2.5	2	2	2	1.8
G88-2581	1.5	0.3	2.0	2	2	2	1.6
G88-9117	1.5	0.3	2.0	2	2	1	1.5
N90-478	2.8	0.4	2.0	2	3	2	2.0
N90-541	1.5	0.2	2.5	2	2	1	1.5
N90-707	2.3	0.4	2.0	2	2	2	1.8
N90-810	1.5	0.2	2.0	2	2	1	1.5
N90-1101	2.0	0.3	2.5	2	2	1	1.6
OK89-5618	1.8	0.2	2.5	2	2	2	1.7
OK89-6101	2.0	0.4	2.5	2	2	2	1.8
OK89-6117	2.3	0.4	2.5	2	2	2	1.9
R90-637S	1.8	0.3	2.0	2	2	2	1.7
R90-844	3.0	0.3	2.5	2	2	1	1.8
R90-1061	1.5	0.2	2.0	2	2	1	1.5
R90-1594	1.5	0.3	2.0	2	2	1	1.5
S90-1218	2.0	0.4	2.5	2	2	1	1.6
S90-1245	2.5	0.3	2.5	2	2	2	1.9
SC89-147	1.5	0.2	2.5	2	2	1	1.5
SC89-181	1.5	0.2	2.5	2	2	1	1.5
SC89-216	1.5	0.3	2.5	2	2	1	1.5
SC89-238	1.5	0.3	2.5	2	2	1	1.5
SC89-1672	1.8	0.2	2.0	2	2	1	1.5
TsB87-168	1.5	0.3	2.0	2	2	2	1.6
V88-491	2.0	0.2	2.0	2	2	3	1.9
V88-494	1.5	0.2	2.0	2	2	1	1.5

MATURITY

GROUP

VII

UNIFORM GROUP VII

1992

Uniform Group VII nurseries were planted at 23 locations. Data were obtained from all of the 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. Results from individual locations are summarized in Tables 54 - 59.

The cultivar Stonewall is the yield and maturity check. It had a mean yield of 45.0 bushels per acre and a mean maturity of October 17 at the 23 locations.

The Georgia Agricultural Experiment Stations have proposed the release of G84-3185 as 'Haskell'. Haskell had a mean yield of 45.1 bushels per acre across all locations in 1992 and a three-year mean yield of 44.3 bushels per acre. Haskell is highly resistant to *Meloidogyne incognita*, *M. arenaria*, and *M. javanica*. Haskell is named after Dr. Haskell Harris, the former soybean and sorghum breeder at the Georgia Station, Griffin, Georgia.

TABLE 52 - PARENTAGE OF THE STRAINS GROWN IN UNIFORM GROUP VII, 1992.

	VARIETY OR STRAIN	PARENTAGE	GENERATION COMPOSITED
1.	STONEWALL	N73-693 X F76-8757	F6
2.	HAGOOD	CENTENNIAL X YOUNG	F6
3.	G84-3185	JOHNSTON X BRAXTON	F5
4.	D87-4389	SHARKEY X LEFLORE	F5
5.	G85-373	GORDON X BRAXTON	F5
6.	Au87-547	J80-293 X N81-1756	F6
7.	G86-1267	D76-9665 X BRAXTON	F6
8.	G86-1434	D79-6058 X TWIGGS	F6
9.	G87-1968	THOMAS X GORDON	F5
10.	R89-18S	GORDON X R82-368	F5
11.	SC88-1568	CO 368 X D77-6056	
12.	SC88-2872	CO 368 X LEFLORE	F5

Background of lines used as parents:

D77-6056 is a selection from Centennial X J74-47. J74-47 is a SCN race 4 selection of the same parentage as Bedford.

D77-9665 is a selection from Forrest X Centennial.

D79-6058 is a selection from Tracy X Centennial. This is the same parentage as Sharkey.

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

J80-293 is a selection from J74-39 X Centennial. J74-39 is of the same parentage as Bedford.

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

N81-1756 is a selection from Ransom X N72-2703.

R82-368 is a selection from Centennial X Ransom.

TABLE 53 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN UNIFORM GROUP VII, 1992.

	YIELD			PROTEIN			OIL		
STRAIN	1992	91-92	90-93	1992	91-92	90-93	1992	91-92	90-93
STONEWALL	45.0	45.5	44.0	42.0	41.5	41.7	21.0	21.0	21.0
HAGOOD	39.7	41.2	40.6	42.5	42.5	42.6	20.4	20.3	20.2
G84-3185	45.1	45.6	44.3	40.1	39.9	39.7	20.6	20.8	21.0
D87-4389	42.8	43.5	42.4	43.4	43.0	43.2	19.5	19.6	19.6
G85-373	41.7	42.9	41.9	41.1	40.6	40.4	19.9	20.3	20.4
Au87-547	42.4	43.8	.	42.4	42.0	.	20.7	20.8	.
G86-1267	43.9	43.8	.	40.1	39.7	.	20.5	20.6	.
G86-1434	42.4	43.4	.	42.0	41.7	.	19.5	19.7	.
G87-1968	41.9	.	.	41.2	.	.	20.1	.	.
R89-18S	42.9	.	.	41.2	.	.	21.0	.	.
SC88-1568	41.8	.	.	39.8	.	.	21.5	.	.
SC88-2872	43.3	.	.	41.4	.	.	20.1	.	.

BOTANTICAL TRAITS

STRAIN	FL. COLOR	HEIGHT	MATURITY DATE	PUB. COLOR	POD WALL	SEED SIZE	SEED QUALITY
STONEWALL	W	33	10/17	T	T	17.4	1.9
HAGOOD	W	37	3	G	T	14.6	1.7
G84-3185	P	34	2	T	T	16.3	2.0
D87-4389	P	35	0	T	T	15.4	1.8
G85-373	W	37	0	T	T	14.1	1.9
Au87-547	W	31	-3	G	T	15.1	1.8
G86-1267	P	33	0	T	T	13.3	1.8
G86-1434	W	36	1	T	T	13.2	1.7
G87-1968	W	33	0	T	T	13.6	2.0
R89-18S	S	37	2	T	T	15.9	2.0
SC88-1568	W	32	0	T	T	14.1	2.0
SC88-2872	W	32	0	G	T	14.1	1.8

PEST REACTIONS

STRAIN	M.a.	M.i.	SCN† RACE 3	SCN† RACE 14	SBL‡	STEM CANKER MS	STEM CANKER TX	FROG EYE
STONEWALL	4.3	4.5	R	S	3	2.3	1	1.0
HAGOOD	3.5	1.3	R	S	4	4.4	4	1.0
G84-3185	1.8	2.5	S	S	3	1.0	0	1.3
D87-4389	3.0	3.0	R	S	3	4.1	1	2.0
G85-373	1.5	2.0	R	S	2.5	1.1	0	1.7
Au87-547	1.5	1.6	R	R	3	3.8	3	1.0
G86-1267	2.0	2.8	R	S	4	1.0	0	2.2
G86-1434	1.5	1.5	R	S	5	4.1	2	2.0
G87-1968	1.8	1.8	R	S	4	1.5	0	2.5
R89-18S	2.0	5.0	S	S	4	4.3	2	1.0
SC88-1568	2.5	1.5	R	R	4	4.8	4	2.8
SC88-2872	3.0	1.5	R	S	4	4.1	2	2.7

† 1991 evaluations conducted at Jackson, TN
‡ 1991 evaluations conducted in a field cage at Stoneville, MS

TABLE 54 - SEED YIELD, IN BUSHELS PER ACRE, FOR THE STRAINS IN UNIFORM GROUP VII, 1992.

DELTA AND WEST

STRAIN	BEAU-MONT TX	BOSSIER CITY LA	ROHWER AR	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	STUTT-GART AR	MEAN
STONEWALL	43.2	56.8	48.7	52.5	37.0	38.5	46.9	46.2
HAGOOD	20.6	50.2	40.5	49.5	31.6	37.4	37.7	38.2
G84-3185	45.4	38.3	52.7	62.1	35.6	39.6	41.1	45.0
D87-4389	39.9	50.0	50.0	58.6	34.8	36.6	42.0	44.6
G85-373	39.2	50.7	45.4	56.6	36.2	37.2	40.3	43.7
Au87-547	33.7	52.8	57.5	60.1	32.2	37.0	47.5	45.8
G86-1267	45.3	50.8	49.6	60.6	32.4	38.1	38.9	45.1
G86-1434	31.8	51.6	47.5	57.2	37.5	39.9	42.3	44.0
G87-1968	36.3	52.0	34.5	49.4	32.8	32.7	39.6	39.6
R89-18S	47.0	45.2	55.8	53.7	26.6	37.2	42.8	44.1
SC88-1568	25.3	61.2	44.1	59.7	33.7	39.0	40.2	43.3
SC88-2872	36.1	60.4	51.7	55.4	32.2	39.1	44.3	45.6
L.S.D. (0.05)	8.6	5.8	4.6	5.9	6.7	4.6	5.9	
C.V. (%)	13.7	6.6	5.6	6.2	11.8	7.3	8.3	

SOUTHEAST

STRAIN	BATON ROUGE LA	BLACK-VILLE SC(A)	BLACK-VILLE SC(B)	FAIR-HOPE AL	GAINES-VILLE FL†	JAY FL	QUIN-CY FL	TALLA-SSEE AL	TIF-TON GA	MEAN
STONEWALL	42.8	50.2	41.2	45.4	17.2	43.6	38.9	51.8	42.8	44.6
HAGOOD	38.3	46.8	42.5	43.6	14.1	33.0	40.2	50.8	36.3	41.4
G84-3185	41.2	55.1	45.1	55.7	22.9	41.4	43.1	49.4	40.7	46.5
D87-4389	39.2	51.2	37.8	45.4	14.6	44.4	38.4	47.7	42.5	43.3
G85-373	38.2	45.9	45.0	40.2	26.8	46.6	38.0	45.0	34.0	41.6
Au87-547	40.9	37.9	31.8	46.6	15.8	53.5	35.4	47.2	35.6	41.1
G86-1267	42.5	56.8	49.2	49.3	33.4	43.3	32.4	47.0	39.8	45.0
G86-1434	37.5	49.0	37.4	43.3	25.3	43.3	36.7	54.8	36.8	42.3
G87-1968	40.7	49.5	42.0	48.1	19.3	40.0	44.1	51.2	40.5	44.5
R89-18S	45.2	46.1	44.9	43.9	15.9	45.5	33.5	53.7	35.1	43.5
SC88-1568	34.8	48.6	43.1	45.1	20.4	37.4	38.0	48.5	34.6	41.3
SC88-2872	38.6	50.8	36.8	47.5	19.5	44.4	37.8	43.3	35.9	41.9
L.S.D. (0.05)	6.3	9.7	9.6	6.1	3.7	12.3	9.1	10.2	6.8	
C.V. (%)	10.7	11.6	13.8	7.8	10.8	16.9	14.1	12.4	11.3	

† This location not included in overall mean.

TABLE 54 - (Continued)

EAST COAST

STRAIN	CLINTON NC	FLORENCE NC(A)	FLORENCE NC(B)	KINSTON NC	MEAN
STONEWALL	50.7	28.9	19.2	52.8	37.9
HAGOOD	41.3	33.6	23.2	41.8	35.0
G84-3185	49.1	30.0	25.4	47.6	38.0
D87-4389	37.7	31.9	22.4	43.9	34.0
G85-373	38.0	27.3	25.7	37.8	32.2
Au87-547	42.4	27.0	25.4	46.7	35.4
G86-1267	43.6	28.9	24.3	45.5	35.6
G86-1434	37.1	33.6	22.7	48.3	35.4
G87-1968	45.3	28.1	26.5	46.4	36.6
R89-18S	40.8	29.2	22.7	45.9	34.6
SC88-1568	46.4	30.6	23.8	51.4	38.0
SC88-2872	45.2	33.9	19.4	50.8	37.3
L.S.D. (0.05)	9.6	5.7	8.9	3.9	
C.V. (%)	12.9	11.0	21.9	5.0	

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	CALHOUN GA	CLEMSON SC	MEAN
STONEWALL	56.6	57.1	44.8	52.8
HAGOOD	49.6	42.8	42.9	45.1
G84-3185	44.0	63.0	46.4	51.1
D87-4389	46.1	54.0	47.5	49.2
G85-373	49.5	56.3	44.0	49.9
Au87-547	46.2	50.6	45.9	47.6
G86-1267	49.5	53.5	43.7	48.9
G86-1434	48.8	49.3	47.2	48.4
G87-1968	43.5	55.6	42.0	47.0
R89-18S	43.6	57.9	47.5	49.7
SC88-1568	43.6	45.5	44.2	44.4
SC88-2872	52.6	51.3	44.5	49.5
L.S.D. (0.05)	7.6	8.5	4.3	
C.V. (%)	9.2	9.5	5.6	

TABLE 55 - CHEMICAL COMPOSITION AND SEED SIZE FOR THE STRAINS IN UNIFORM GROUP VII, 1992.

OIL PERCENTAGE

STRAIN	ATHENS GA	BEAUMONT TX	CAL-HOUN GA	CLEMSON SC	CLINTON NC	FAIR-HOPE AL	FLORENCE SC(A)	GAINES-VILLE FL†	JAY FL
STONEWALL	19.9	.	.	20.2	20.3	21.4	21.4	22.1	22.1
HAGOOD	20.2	.	.	19.9	20.2	18.6	20.3	20.2	22.3
G84-3185	20.0	.	.	19.6	19.9	19.9	20.9	21.6	21.9
D87-4389	18.4	.	.	17.8	18.2	19.3	19.8	19.4	21.2
G85-373	19.1	.	.	19.1	19.4	18.6	20.5	21.4	21.7
Au87-547	20.9	.	.	19.8	19.3	19.9	21.0	22.6	21.7
G86-1267	20.2	.	.	19.7	19.1	20.1	20.6	22.7	21.6
G86-1434	19.0	.	.	18.5	19.1	18.5	20.1	20.9	21.0
G87-1968	19.9	.	.	18.9	19.8	19.2	20.6	21.2	21.1
R89-18S	20.5	.	.	19.8	18.7	20.7	21.7	22.2	22.4
SC88-1568	21.2	.	.	20.7	20.8	20.5	22.3	23.5	22.3
SC88-2872	20.4	.	.	18.8	19.5	19.2	20.9	21.5	21.7

PROTEIN PERCENTAGE

STRAIN	ATHENS GA	BEAUMONT TX	CAL-HOUN GA	CLEMSON SC	CLINTON NC	FAIR-HOPE AL	FLORENCE SC(A)	GAINES-VILLE FL†	JAY FL
STONEWALL	43.0	.	.	41.3	43.2	41.4	40.8	41.8	41.6
HAGOOD	41.9	.	.	40.9	41.9	47.0	41.6	45.4	41.0
G84-3185	39.5	.	.	38.7	40.1	43.3	39.2	41.4	40.0
D87-4389	44.0	.	.	42.3	43.6	45.3	41.7	45.7	43.6
G85-373	40.0	.	.	39.4	41.6	44.3	40.0	40.9	40.7
Au87-547	41.4	.	.	40.3	43.6	44.7	41.5	41.6	42.7
G86-1267	38.6	.	.	39.2	40.7	42.2	39.7	39.8	40.8
G86-1434	42.2	.	.	40.5	42.1	44.9	40.3	41.7	41.4
G87-1968	40.5	.	.	39.8	41.0	44.2	39.3	41.5	41.6
R89-18S	40.5	.	.	39.4	41.3	43.2	40.4	42.0	41.8
SC88-1568	39.1	.	.	39.0	39.4	42.5	38.7	40.2	40.9
SC88-2872	39.9	.	.	39.7	40.8	44.8	39.8	42.1	41.5

GRAMS PER 100 SEED

STRAIN	ATHENS GA	BEAUMONT TX	CAL-HOUN GA	CLEMSON SC	CLINTON NC	FAIR-HOPE AL	FLORENCE SC(A)	GAINES-VILLE FL†	JAY FL
STONEWALL	17.4	16.4	20.2	20.6	.	16.6	16.6	12.2	20.0
HAGOOD	15.1	14.1	16.7	17.0	.	13.2	15.1	9.6	16.0
G84-3185	15.1	16.0	20.9	18.5	.	16.1	15.0	12.8	18.3
D87-4389	15.6	15.8	16.5	18.1	.	14.7	15.2	11.3	16.3
G85-373	13.2	14.8	18.5	17.3	.	13.5	13.0	12.6	14.7
Au87-547	14.0	14.2	18.4	16.1	.	14.6	13.7	10.3	16.7
G86-1267	13.1	12.7	16.6	15.7	.	13.7	12.6	12.2	14.7
G86-1434	12.7	13.6	14.3	15.6	.	12.7	13.4	12.2	14.3
G87-1968	13.8	13.3	16.2	15.6	.	14.3	12.4	10.6	14.7
R89-18S	14.8	16.0	17.5	18.7	.	15.7	15.2	12.0	17.0
SC88-1568	13.8	12.7	17.3	16.4	.	14.8	13.9	11.6	14.0
SC88-2872	14.2	13.8	15.1	16.7	.	14.7	14.1	11.2	14.7

† This location not included in overall mean.

TABLE 55 (Continued)

OIL PERCENTAGE

STRAIN	KINSTON NC	QUINCY FL	ROHWER AR	ST. JOSEPH LA	STONE-VILLE MS(B)	STUTT-GART AR	TALLASSEE AL	TIFTON GA	MEAN
STONEWALL	20.5	23.4	.	20.9	20.4	.	21.0	.	21.0
HAGOOD	19.4	22.4	.	20.8	19.5	.	21.3	.	20.4
G84-3185	20.2	22.6	.	21.2	20.4	.	20.5	.	20.6
D87-4389	18.1	22.0	.	20.5	18.8	.	19.8	.	19.5
G85-373	18.4	22.2	.	20.6	20.2	.	19.5	.	19.9
Au87-547	19.7	22.9	.	21.4	20.2	.	20.7	.	20.7
G86-1267	19.8	22.3	.	21.1	21.0	.	20.3	.	20.5
G86-1434	18.2	21.6	.	19.9	18.7	.	20.1	.	19.5
G87-1968	19.7	21.8	.	20.6	20.0	.	19.8	.	20.1
R89-18S	20.4	23.4	.	21.3	20.8	.	21.5	.	21.0
SC88-1568	20.5	23.6	.	22.9	21.1	.	20.4	.	21.5
SC88-2872	18.5	22.0	.	21.3	19.5	.	18.9	.	20.1

PROTEIN PERCENTAGE

STRAIN	KINSTON NC	QUINCY FL	ROHWER AR	ST. JOSEPH LA	STONE-VILLE MS(B)	STUTT-GART AR	TALLASSEE AL	TIFTON GA	MEAN
STONEWALL	43.2	39.4	.	42.7	42.7	.	42.5	.	42.0
HAGOOD	44.1	40.8	.	43.0	44.7	.	41.0	.	42.5
G84-3185	40.9	38.2	.	39.9	39.8	.	41.6	.	40.1
D87-4389	44.7	41.1	.	42.1	44.6	.	44.1	.	43.4
G85-373	43.1	38.7	.	40.8	41.1	.	42.1	.	41.1
Au87-547	43.2	41.0	.	41.3	43.3	.	43.9	.	42.4
G86-1267	41.5	38.6	.	40.0	38.9	.	41.2	.	40.1
G86-1434	43.4	40.7	.	42.1	42.5	.	42.3	.	42.0
G87-1968	41.8	39.6	.	41.4	41.2	.	43.1	.	41.2
R89-18S	41.7	39.3	.	41.4	41.9	.	41.8	.	41.2
SC88-1568	40.8	37.5	.	37.7	39.8	.	42.3	.	39.8
SC88-2872	42.5	40.1	.	40.0	41.7	.	44.1	.	41.4

GRAMS PER 100 SEED

STRAIN	KINSTON NC	QUINCY FL	ROHWER AR	ST. JOSEPH LA	STONE-VILLE MS(B)	STUTT-GART AR	TALLASSEE AL	TIFTON GA	MEAN
STONEWALL	.	16.7	14.8	.	14.1	16.3	18.3	18.0	17.4
HAGOOD	.	14.2	12.4	.	12.3	14.0	15.1	15.0	14.6
G84-3185	.	16.2	14.6	.	13.0	15.0	16.6	16.3	16.3
D87-4389	.	14.4	13.9	.	13.0	14.7	15.7	16.3	15.4
G85-373	.	14.1	12.2	.	11.9	13.0	13.8	13.4	14.1
Au87-547	.	15.1	14.5	.	11.9	16.0	15.8	15.6	15.1
G86-1267	.	12.5	11.2	.	11.2	12.0	12.7	14.2	13.3
G86-1434	.	13.8	10.7	.	12.0	12.0	13.3	13.6	13.2
G87-1968	.	12.8	11.4	.	12.0	12.7	13.8	14.0	13.6
R89-18S	.	15.4	14.3	.	13.6	15.3	16.7	16.8	15.9
SC88-1568	.	13.4	11.6	.	12.0	13.3	14.7	15.3	14.1
SC88-2872	.	13.8	12.1	.	12.0	14.0	13.7	14.6	14.1

TABLE 56 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN STONEWALL FOR THE STRAINS IN UNIFORM GROUP VII, 1992.

EAST COAST

STRAIN	CLINTON NC	FLORENCE SC(A)	FLORENCE SC(B)	KINSTON NC	MEAN
STONEWALL	10/30	10/18	10/21	10/28	10/24
HAGOOD	2	7	5	0	4
G84-3185	0	3	1	0	1
D87-4389	0	1	-1	0	0
G85-373	4	-1	-3	-2	0
Au87-547	0	-3	-3	-6	-3
G86-1267	6	1	-1	0	2
G86-1434	4	3	0	0	2
G87-1968	4	1	-1	0	1
R89-18S	4	2	4	0	3
SC88-1568	0	2	0	0	1
SC88-2872	0	2	0	0	1

SOUTHEAST

STRAIN	BATON ROUGE LA	BLACK-VILLE SC(A)	BLACK-VILLE SC(B)	FAIR-HOPE AL	GAINES-VILLE FL†	JAY FL	QUINCY FL	TALLA-SSEE AL	TIF-TON GA	MEAN
STONEWALL	.	10/17	10/23	10/07	10/05	10/19	.	10/10	10/09	10/14
HAGOOD	.	2	2	6	7	2	.	9	3	4
G84-3185	.	1	3	6	7	2	.	8	2	4
D87-4389	.	-1	2	4	5	-3	.	3	-1	1
G85-373	.	0	2	1	6	0	.	0	-1	1
Au87-547	.	-1	0	-1	-4	-3	.	0	-6	-2
G86-1267	.	1	0	4	6	-3	.	0	2	1
G86-1434	.	2	2	0	8	-3	.	2	0	1
G87-1968	.	1	0	3	3	-4	.	3	0	1
R89-18S	.	1	2	5	4	2	.	3	1	2
SC88-1568	.	1	1	6	2	-4	.	4	0	2
SC88-2872	.	1	1	6	3	-3	.	4	0	2

† This location not included in overall mean.

TABLE 56 - (Continued)

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	CALHOUN GA	CLEMSON SC	MEAN
STONEWALL	10/16	10/24	10/27	10/22
HAGOOD	4	4	5	5
G84-3185	0	4	0	2
D87-4389	-3	-1	-1	-1
G85-373	-3	1	0	-1
Au87-547	-7	-4	-6	-5
G86-1267	-3	2	-1	0
G86-1434	-2	-4	0	-2
G87-1968	-1	-1	-2	-1
R89-18S	-4	0	0	-1
SC88-1568	-4	1	-1	-1
SC88-2872	-1	-4	0	-1

DELTA AND WEST

STRAIN	BEAU-MONT TX	BOSSIER CITY LA	ROH-WER AR	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	STUTT-GART AR	MEAN
STONEWALL	10/06	.	10/09	10/12	10/14	10/13	10/21	10/12
HAGOOD	1	.	2	3	1	2	4	3
G84-3185	3	.	3	0	1	1	4	3
D87-4389	2	.	3	-3	0	1	-1	1
G85-373	0	.	2	-2	0	0	-1	0
Au87-547	0	.	1	-7	-4	0	-2	-2
G86-1267	0	.	2	-2	0	0	0	1
G86-1434	2	.	3	0	-1	1	1	1
G87-1968	0	.	1	-4	-1	0	0	0
R89-18S	1	.	3	4	-1	1	1	2
SC88-1568	-1	.	1	-3	0	0	-1	0
SC88-2872	0	.	3	-4	0	0	-1	0

TABLE 57 - PLANT HEIGHT FOR THE STRAINS IN UNIFORM GROUP VII, 1992.

EAST COAST

STRAIN	CLINTON NC	FLORENCE SC(A)	FLORENCE SC(B)	KINSTON NC	MEAN
STONEWALL	35	27	27	36	31
HAGOOD	39	36	31	41	37
G84-3185	37	31	26	40	34
D87-4389	35	30	27	35	32
G85-373	38	32	32	37	35
Au87-547	28	27	24	35	29
G86-1267	37	27	26	35	31
G86-1434	40	32	28	43	36
G87-1968	33	27	27	35	31
R89-18S	38	34	31	39	36
SC88-1568	31	29	26	37	31
SC88-2872	31	26	25	32	29

SOUTHEAST

STRAIN	BATON ROUGE LA	BLACK-VILLE SC(A)	BLACK-VILLE SC(B)	FAIR-HOPE AL	GAINES-VILLE FL†	JAY FL	TALLA-SSEE AL	TIF-TON GA	MEAN
STONEWALL	37	30	28	41	27	36	40	24	34
HAGOOD	36	31	28	40	32	36	40	25	34
G84-3185	36	28	27	39	27	33	40	22	32
D87-4389	38	30	30	41	31	37	40	27	35
G85-373	37	31	32	43	32	36	45	25	36
Au87-547	35	24	24	42	23	35	35	19	30
G86-1267	33	26	32	38	25	34	39	25	33
G86-1434	37	32	28	42	29	33	44	23	34
G87-1968	34	26	32	43	25	32	41	22	33
R89-18S	38	34	27	43	30	38	41	26	35
SC88-1568	39	26	33	41	25	33	38	22	33
SC88-2872	34	27	27	43	27	36	41	19	33

† This location not included in overall mean.

TABLE 57 - (Continued)

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	CALHOUN GA	CLEMSON SC	MEAN
STONEWALL	33	34	35	34
HAGOOD	42	35	41	39
G84-3185	36	38	36	37
D87-4389	36	39	36	37
G85-373	42	41	37	40
Au87-547	32	39	35	35
G86-1267	36	33	36	35
G86-1434	39	41	38	39
G87-1968	36	37	36	36
R89-18S	42	37	40	40
SC88-1568	33	38	33	34
SC88-2872	33	36	36	35

DELTA AND WEST

STRAIN	BEAU-MONT TX	BOSSIER CITY LA	ROH-WER AR	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	STUTT-GART AR	MEAN
STONEWALL	21	36	31	36	37	41	29	33
HAGOOD	26	41	41	42	39	41	37	38
G84-3185	27	38	37	35	38	37	32	35
D87-4389	26	40	34	41	40	39	31	36
G85-373	26	45	37	37	43	39	33	37
Au87-547	18	35	31	30	40	36	28	31
G86-1267	23	37	31	36	41	38	33	34
G86-1434	24	41	36	38	41	37	32	36
G87-1968	21	37	30	32	38	38	26	32
R89-18S	26	43	37	36	43	42	37	38
SC88-1568	21	36	29	33	38	35	28	31
SC88-2872	22	35	32	32	39	35	32	32

TABLE 58 - LODGING SCORES FOR THE STRAINS IN UNIFORM GROUP VII, 1992.

EAST COAST

STRAIN	CLINTON NC	KINSTON NC	MEAN
STONEWALL	2.0	2.7	2.3
HAGOOD	2.7	3.0	2.8
G84-3185	3.0	3.0	3.0
D87-4389	2.0	2.7	2.3
G85-373	2.0	3.0	2.5
Au87-547	2.0	2.0	2.0
G86-1267	3.3	3.0	3.2
G86-1434	2.7	3.0	2.8
G87-1968	2.0	2.7	2.3
R89-18S	2.3	3.0	2.7
SC88-1568	2.0	3.0	2.5
SC88-2872	2.3	2.7	2.5

SOUTHEAST

STRAIN	BATON ROUGE LA	FAIR-HOPE AL	GAINES-VILLE FL†	JAY FL	TALLA-SSEE AL	TIF-TON GA	MEAN
STONEWALL	4	1.0	1	1.7	1.5	1.0	1.8
HAGOOD	4	1.3	1	2.3	1.8	1.4	2.2
G84-3185	5	2.0	1	2.3	2.2	1.6	2.6
D87-4389	3	1.0	1	2.0	1.5	1.2	1.7
G85-373	4	1.7	1	2.0	1.7	1.0	2.1
Au87-547	3	1.3	1	1.0	1.0	1.0	1.5
G86-1267	4	2.0	1	2.0	1.8	1.1	2.2
G86-1434	4	1.7	1	2.0	1.7	1.1	2.1
G87-1968	4	1.3	1	1.3	1.5	1.1	1.9
R89-18S	4	1.0	1	2.0	1.5	1.0	1.9
SC88-1568	4	1.0	1	1.7	1.3	1.0	1.8
SC88-2872	4	1.0	1	1.0	1.7	1.0	1.7

† This location not included in overall mean.

TABLE 58 - (Continued)

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	CALHOUN GA	CLEMSON SC	MEAN
STONEWALL	2.7	2.2	3.7	2.8
HAGOOD	2.3	3.2	3.0	2.8
G84-3185	2.5	3.0	4.0	3.2
D87-4389	1.8	1.7	2.0	1.8
G85-373	2.5	2.3	3.0	2.6
Au87-547	1.5	2.3	2.0	1.9
G86-1267	2.0	2.7	3.7	2.8
G86-1434	2.5	3.7	3.0	3.1
G87-1968	2.3	2.3	3.0	2.6
R89-18S	2.2	3.3	3.3	2.9
SC88-1568	2.2	3.0	2.7	2.6
SC88-2872	1.7	2.5	3.0	2.4

DELTA AND WEST

STRAIN	BEAU-MONT TX	BOSSIER CITY LA	ROH-WER AR	ST. JOSEPH LA	STONE-VILLE MS(A)	STONE-VILLE MS(B)	STUTT-GART AR	MEAN
STONEWALL	1	1.0	4.0	1.9	2.3	2.0	1	1.9
HAGOOD	1	1.0	2.3	3.9	3.0	3.0	1	2.2
G84-3185	1	1.7	1.7	2.0	2.7	3.0	1	1.9
D87-4389	1	1.0	1.0	1.7	2.0	2.0	1	1.4
G85-373	1	1.0	1.0	2.1	3.0	2.7	1	1.7
Au87-547	1	1.0	1.0	1.5	2.0	2.0	1	1.4
G86-1267	1	1.0	1.0	2.2	2.7	2.3	1	1.6
G86-1434	1	1.0	1.0	1.8	2.3	2.3	1	1.5
G87-1968	1	1.0	3.7	1.9	2.3	2.0	1	1.8
R89-18S	1	1.0	1.0	2.4	3.0	3.0	1	1.8
SC88-1568	1	1.0	1.0	1.6	2.0	2.0	1	1.4
SC88-2872	1	1.0	1.0	1.6	2.3	2.0	1	1.4

TABLE 59 - SEED QUALITY FOR THE STRAINS IN UNIFORM GROUP VII, 1992.

EAST COAST

STRAIN	CLINTON NC	KINSTON NC	MEAN
STONEWALL	2	2.0	2.0
HAGOOD	2	2.0	2.0
G84-3185	2	2.0	2.0
D87-4389	2	2.0	2.0
G85-373	2	2.0	2.0
Au87-547	2	2.0	2.0
G86-1267	2	2.0	2.0
G86-1434	2	2.0	2.0
G87-1968	2	2.5	2.3
R89-18S	2	2.0	2.0
SC88-1568	2	2.0	2.0
SC88-2872	2	2.0	2.0

SOUTHEST

STRAIN	FAIR-HOPE AL	GAINES-VILLE FL†	JAY FL	QUINCY FL	TALLA-SSEE AL	TIF-TON GA	MEAN
STONEWALL	2	2.7	3.0	1.7	2	1.9	2.1
HAGOOD	3	1.8	2.3	1.2	1	1.4	1.8
G84-3185	3	1.5	3.0	1.3	2	2.0	2.3
D87-4389	1	2.7	3.0	1.2	2	1.6	1.8
G85-373	1	1.5	3.7	1.7	2	2.0	2.1
Au87-547	1	2.5	3.0	1.5	1	2.2	1.7
G86-1267	1	1.0	3.0	1.5	2	2.1	1.9
G86-1434	1	1.3	3.0	1.5	1	2.0	1.7
G87-1968	2	1.5	3.3	1.5	2	2.3	2.2
R89-18S	2	2.2	3.0	1.8	2	2.7	2.3
SC88-1568	1	2.5	3.0	2.2	2	2.0	2.0
SC88-2872	1	1.8	3.0	1.5	2	1.5	1.8

† This location not included in overall mean.

TABLE 59 - (Continued)

UPPER AND CENTRAL SOUTH

STRAIN	ATHENS GA	CALHOUN GA	MEAN
STONEWALL	1.5	2.0	1.8
HAGOOD	1.5	1.3	1.4
G84-3185	1.7	2.0	1.8
D87-4389	1.5	1.5	1.5
G85-373	1.7	1.3	1.5
Au87-547	1.8	1.2	1.5
G86-1267	1.5	1.8	1.7
G86-1434	1.5	1.5	1.5
G87-1968	1.8	2.0	1.9
R89-18S	1.5	1.7	1.6
SC88-1568	2.3	1.7	2.0
SC88-2872	1.8	1.5	1.7

DELTA AND WEST

STRAIN	BEAUMONT TX	STONEVILLE MS(A)	STONEVILLE MS(B)	MEAN
STONEWALL	1.3	2	2	1.8
HAGOOD	1.2	2	2	1.7
G84-3185	1.0	2	2	1.7
D87-4389	1.3	2	2	1.8
G85-373	1.2	2	2	1.7
Au87-547	1.5	2	2	1.8
G86-1267	1.0	2	2	1.7
G86-1434	1.3	2	2	1.8
G87-1968	1.0	2	2	1.7
R89-18S	1.8	2	2	1.9
SC88-1568	1.5	2	2	1.8
SC88-2872	1.5	2	2	1.8

PRELIMINARY GROUP VII

1992

Preliminary Group VII nurseries were planted at 9 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 ratings for stem canker and frogeye. Results from individual locations are summarized in Tables 62 - 68.

The cultivar Stonewall is the yield and maturity check. It had a mean yield of 44.7 bushels per acre and a mean maturity of October 16 at the 9 locations.

TABLE 60 - PARENTAGE OF THE STRAINS GROWN IN PRELIMINARY GROUP VII, 1992.

	VARIETY OR STRAIN	PARENTAGE
1.	STONEWALL	N73-693 X F77-1138
2.	SHARKEY	TRACY X CENTENNIAL
3.	Au89-1263	F82-1739 X N81-1121
4.	Au89-1592	G80-1515 X STONEWALL
5.	Au89-2363	STONEWALL X Co82-645
6.	Au89-2449	STONEWALL X Co82-645
7.	Au89-2540	STONEWALL X Co82-645
8.	D89-9121	SHARKEY X TsB83-5367
9.	D89-9148	LAMAR X TsB83-5367
10.	F90-5055	F85-1108 X F85-7356
11.	F90-6131	A3127 X F87-4018
12.	G88-2313	G80-1515 X D77-6056
13.	G88-2698	G80-1515 X J80-293
14.	G88-3266	HUTCHESON X COKER 6738
15.	G88-3789	COKER 368 X LEFLORE
16.	G88-5111	D79-1049 X D77-6056
17.	G89-9111	HUTCHESON X COKER 6738
18.	N90-804	BRIM X N80-777
19.	N90-845	BRIM X N80-777
20.	N90-1020	N84-767 X (N85-375 X N85-2176)
21.	N90-1026	N84-1299 (3) X NC143
22.	N90-1072	BRIM X N80-777
23.	N90-1082	BRIM X N80-777
24.	N90-1085	BRIM X N80-777
25.	SC89-275	HUTCHESON X LEFLORE
26.	SC89-328	HUTCHESON X LEFLORE
27.	SC89-394	J80-293 X COKER 6738
28.	SC89-983	BRIM X COKER 6738
29.	SC89-1093	BRIM X COKER 6738
30.	SC89-1610	COKER 368 X BRAXTON
31.	SC89-1749	COKER 6738 X LEFLORE
32.	TsB87-162	BRAGG X COKER 156
33.	TsB87-484	COKER 156 X TRACY
34.	TsB88-1266	BRAXTON X N77-889
35.	TsB88-2446	BRAXTON X N77-940
36.	TsB88-3454	TRACY-M X KIRBY(2)

TABLE 61 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VII, 1992.

STRAIN	SEED YIELD	MAT. INDEX	HT.	PERCENT OIL	PERCENT PROTEIN	STEM CANKER MS	STEM CANKER TX	FROG EYE
STONEWALL	44.7	10/16	32	21.0	42.7	3.0	1	1.0
SHARKEY	39.1-	1-	38	19.0-	45.0+	.	0	2.3
Au89-1263	40.0-	0	33	21.0	40.8-	1.0	0	2.0
Au89-1592	41.0	0	36	20.2-	42.9	3.0	1	1.0
Au89-2363	42.5	1+	34	20.8	42.2	1.5	0	1.5
Au89-2449	41.1	1+	36	21.0	41.9	1.0	0	1.0
Au89-2540	41.0	2+	34	21.0	40.7-	1.0	1	1.5
D89-9121	30.3-	2+	32	19.4-	42.1	1.0	0	1.0
D89-9148	34.4-	1+	37	19.7-	41.2-	1.0	0	1.0
F90-5055	33.4-	0	37	19.8-	40.8-	.	4	4.0
F90-6131	33.4-	1-	36	19.7-	43.1	1.0	0	2.0
G88-2313	40.3	2+	37	19.3-	42.4	4.5	2	2.3
G88-2698	39.9-	1-	36	19.6-	42.1	4.8	4	3.0
G88-3266	46.4	1+	35	21.1	41.3-	1.0	0	2.0
G88-3789	40.3	3+	39	20.8	41.7-	4.3	3	3.0
G88-5111	38.7-	1+	37	19.0-	42.5	4.8	2	1.0
G89-9111	43.8	1+	33	21.8+	40.3-	1.0	1	2.5
N90-804	46.0	1+	30	20.2-	42.2	4.3	2	1.0
N90-845	44.6	2+	31	20.1-	42.3	4.3	1	1.0
N90-1020	36.8-	2+	32	20.5-	39.9-	1.0	0	4.3
N90-1026	35.9-	1-	39	21.3	43.6	1.0	1	1.0
N90-1072	44.2	3+	31	19.4-	43.0	4.0	1	1.0
N90-1082	43.0	0	36	21.1	42.0	4.5	1	1.0
N90-1085	46.6	2+	34	20.1-	44.1+	4.8	1	1.0
SC89-275	39.8-	2+	43	20.0-	41.4-	1.0	0	1.0
SC89-328	43.4	0	35	20.2-	41.8-	1.0	0	1.5
SC89-394	38.3-	0	36	21.0	43.8+	1.0	0	2.5
SC89-983	44.8	0	38	20.3-	43.0	4.0	3	2.0
SC89-1093	43.2	1-	33	20.5-	42.7	1.0	0	4.0
SC89-1610	42.5	0	38	20.9	41.4-	5.0	5	2.0
SC89-1749	41.9	1+	37	20.2-	40.7-	4.8	4	2.5
TsB87-162	33.8-	1-	32	20.9	43.4	1.8	1	2.3
TsB87-484	38.0-	1+	32	20.6	42.3	4.5	1	2.3
TsB88-1266	40.2	5+	38	20.9	40.2-	.	0	1.0
TsB88-2446	40.3	1+	34	20.0-	41.1-	1.5	0	1.5
TsB88-3454	39.7-	1+	33	19.9-	41.7-	1.0	0	2.0
L.S.D. (0.05)	4.6			0.5	0.9			
C.V.(%)	12%			2%	2%			

(+) or (-) designations refer to significant differences to Stonewall at the 0.05 probability level.

TABLE 62 - SEED YIELD, IN BUSHELS PER ACRE, FOR THE STRAINS IN PRELIMINARY GROUP VII, 1992.

STRAIN	ATHENS GA	BEAU-MONT TX	BLACK-VILLE SC	CLIN-TON NC	JAY FL	ROH-WER AR	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLA-SSEE AL	MEAN
STONEWALL	53.5	26.7	49.9	52.3	46.2	45.1	38.0	34.7	56.0	44.7
SHARKEY	43.0-	23.8	42.7	39.8-	40.7	52.1+	28.2-	35.1	47.0	39.1-
Au89-1263	36.7-	25.2	49.9	42.3-	36.9	43.3	32.1-	33.7	60.5	40.0-
Au89-1592	44.5	22.4	48.3	42.2-	42.9	47.8	34.9	35.2	51.0	41.0
Au89-2363	44.6	28.3	52.7	39.6-	38.5	47.9	36.9	38.1	56.4	42.5
Au89-2449	44.8	27.0	54.6	43.7-	38.0	36.2-	31.9-	34.6	59.2	41.1
Au89-2540	44.0-	25.0	53.4	44.6	42.9	44.2	34.0	31.3	49.2	41.0
D89-9121	30.0-	12.2-	35.4-	37.9-	41.3	31.1-	23.6-	23.4-	38.2-	30.3-
D89-9148	37.2-	20.0	39.1	31.6-	35.2	34.3-	29.7-	24.6-	57.6	34.4-
F90-5055	29.8-	17.5	38.7	44.5	27.0-	37.4-	29.9-	29.1-	47.2	33.4-
F90-6131	32.9-	16.1	40.9	46.8	31.4-	20.9-	31.0-	29.3	51.7	33.4-
G88-2313	47.2	21.1	40.0	43.7-	32.5-	46.5	35.4	35.4	61.0	40.3
G88-2698	47.7	18.7	44.6	43.7-	33.0-	53.2+	36.9	36.2	45.5	39.9-
G88-3266	47.0	26.0	56.3	44.2	46.8	46.6	42.2	39.8	69.0	46.4
G88-3789	44.5	14.8-	52.1	45.3	36.9	51.6+	35.5	30.5	52.2	40.3
G88-5111	41.9-	22.9	44.0	43.7-	40.7	42.4	31.8-	33.3	47.5	38.7-
G89-9111	53.4	23.4	52.1	43.5-	41.8	47.9	34.3	37.8	60.2	43.8
N90-804	52.8	20.4	53.5	45.6	57.2	39.8	35.0	36.7	73.0+	46.0
N90-845	46.2	24.1	55.2	46.5	55.6	48.4	33.8	34.0	57.5	44.6
N90-1020	29.9-	24.8	52.8	41.1-	26.4-	46.3	36.3	30.3	43.2	36.8-
N90-1026	40.4-	20.8	38.3	35.3-	36.9	42.1	31.1-	36.8	41.8	35.9-
N90-1072	47.3	23.8	52.5	48.9	44.6	48.1	36.2	35.5	60.8	44.2
N90-1082	43.0-	29.1	49.9	51.2	44.0	39.0-	35.7	37.7	57.4	43.0
N90-1085	54.1	22.9	47.1	39.9-	53.9	45.3	41.8	42.4+	72.0+	46.6
SC89-275	42.7-	25.3	48.7	40.7-	29.7-	41.0	32.7-	38.2	59.4	39.8-
SC89-328	55.7	29.6	49.6	42.5-	42.4	44.5	37.4	39.3	50.1	43.4
SC89-394	44.6	15.3-	44.2	40.0-	44.6	40.9	32.3-	32.6	49.9	38.3-
SC89-983	53.8	18.7	49.8	45.7	45.7	54.0+	35.7	35.8	63.8	44.8
SC89-1093	46.3	26.7	52.4	51.2	33.0-	50.5	39.3	39.1	50.7	43.2
SC89-1610	44.1-	8.9-	52.6	53.0	44.0	51.3+	35.6	33.6	59.9	42.5
SC89-1749	50.9	16.6	50.3	46.7	45.7	45.7	34.5	35.4	51.3	41.9
TsB87-162	44.2-	19.0	39.7	27.0-	31.9-	50.0	31.2-	31.1	30.0-	33.8-
TsB87-484	42.0-	20.3	41.1	36.0-	41.3	45.1	34.1	34.6	47.7	38.0-
TsB88-1266	46.2	24.1	49.0	34.7-	47.3	42.9	27.4-	29.9	60.1	40.2
TsB88-2446	39.8-	23.4	50.0	46.4	42.4	47.3	35.3	35.2	43.1	40.3
TsB88-3454	50.3	18.4	48.1	43.6-	33.0-	47.6	32.4-	30.7	53.3	39.7-
L.S.D.(0.05)	9.2	10.9	11.7	8.4	11.8	5.8	5.1	5.5	14.5	4.6
C.V. (%)	9.8	24.4	12.0	9.7	14.5	6.4	7.3	8.0	13.3	12.4

(+) or (-) designations refer to significant differences to Stonewall at the 0.05 probability level.

TABLE 63 - OIL PERCENTAGES FOR THE STRAINS IN PRELIMINARY GROUP VII, 1992.

STRAIN	BLACK-VILLE SC	CLINTON NC	JAY FL	STONE-VILLE MS(B)	TALLASSEE AL	MEAN
STONEWALL	21.5	20.4	22.5	19.5	20.9	21.0
SHARKEY	19.2	17.8	20.1	18.6	19.4	19.0
Au89-1263	21.6	19.6	22.7	20.4	20.5	21.0
Au89-1592	20.6	18.8	21.4	19.5	20.6	20.2
Au89-2363	21.9	19.7	22.0	20.1	20.5	20.8
Au89-2449	22.1	19.9	22.6	19.5	20.9	21.0
Au89-2540	21.7	19.9	22.2	20.2	21.0	21.0
D89-9121	19.9	18.5	20.3	18.4	19.8	19.4
D89-9148	20.3	18.3	21.3	19.4	19.3	19.7
F90-5055	20.9	19.0	19.6	19.0	20.4	19.8
F90-6131	20.8	19.4	20.1	18.4	19.7	19.7
G88-2313	20.5	18.4	19.8	18.5	19.2	19.3
G88-2698	20.4	18.7	20.1	19.1	19.6	19.6
G88-3266	21.6	20.1	22.4	20.5	20.9	21.1
G88-3789	22.0	19.4	21.6	20.3	20.8	20.8
G88-5111	19.6	17.8	19.7	18.4	19.7	19.0
G89-9111	22.8	20.7	22.6	20.9	21.9	21.8
N90-804	21.1	19.4	20.9	19.1	20.5	20.2
N90-845	21.2	19.1	21.4	19.4	19.6	20.1
N90-1020	21.2	19.7	21.7	19.5	20.4	20.5
N90-1026	21.4	18.9	22.9	21.0	22.5	21.3
N90-1072	20.1	18.5	20.4	18.5	19.6	19.4
N90-1082	22.1	19.7	22.4	20.7	20.7	21.1
N90-1085	20.8	19.5	21.0	18.9	20.4	20.1
SC89-275	20.2	18.5	21.3	19.8	20.3	20.0
SC89-328	20.1	19.1	21.9	20.0	20.1	20.2
SC89-394	22.0	20.0	22.6	19.4	21.2	21.0
SC89-983	20.9	18.6	22.0	19.8	20.4	20.3
SC89-1093	21.8	18.7	21.7	20.1	20.1	20.5
SC89-1610	21.5	19.4	22.5	20.0	20.9	20.9
SC89-1749	20.8	18.7	21.9	19.9	19.8	20.2
TsB87-162	21.4	19.4	22.3	19.7	21.7	20.9
TsB87-484	21.0	19.0	22.2	19.8	20.9	20.6
TsB88-1266	21.4	19.3	22.5	20.4	21.0	20.9
TsB88-2446	20.6	18.6	21.5	18.8	20.4	20.0
TsB88-3454	20.5	19.2	21.4	18.9	19.5	19.9

TABLE 64 - PROTEIN PERCENTAGES FOR THE STRAINS IN PRELIMINARY GROUP VII, 1992.

STRAIN	BLACK-VILLE SC	CLINTON NC	JAY FL	STONE-VILLE MS(B)	TALLASSEE AL	MEAN
STONEWALL	41.7	43.6	41.8	43.2	43.1	42.7
SHARKEY	43.8	45.8	45.4	45.0	45.1	45.0
Au89-1263	39.5	41.7	39.5	41.6	41.7	40.8
Au89-1592	42.6	44.1	42.3	42.8	42.8	42.9
Au89-2363	41.0	43.1	40.7	42.8	43.5	42.2
Au89-2449	40.5	43.2	41.0	43.0	42.0	41.9
Au89-2540	39.3	41.9	40.1	41.6	40.8	40.7
D89-9121	40.4	42.5	41.5	43.8	42.3	42.1
D89-9148	40.3	41.7	39.5	42.5	41.8	41.2
F90-5055	40.4	41.0	40.3	41.8	40.5	40.8
F90-6131	42.4	43.4	42.3	44.0	43.4	43.1
G88-2313	40.9	42.6	42.9	42.5	43.0	42.4
G88-2698	41.0	42.9	41.7	42.4	42.4	42.1
G88-3266	39.8	42.5	40.8	41.1	42.2	41.3
G88-3789	39.6	42.4	42.2	41.6	42.7	41.7
G88-5111	41.7	42.5	42.5	43.6	42.0	42.5
G89-9111	38.9	41.3	40.2	40.7	40.6	40.3
N90-804	40.4	44.3	41.8	41.6	42.9	42.2
N90-845	40.1	44.6	41.6	41.8	43.5	42.3
N90-1020	38.9	40.5	39.1	40.6	40.5	39.9
N90-1026	44.0	46.4	42.8	43.1	41.8	43.6
N90-1072	41.1	44.1	43.0	43.5	43.4	43.0
N90-1082	40.4	43.1	41.4	42.1	43.1	42.0
N90-1085	42.9	45.1	43.8	44.6	44.0	44.1
SC89-275	40.7	43.4	41.3	40.5	41.2	41.4
SC89-328	41.3	43.2	40.6	41.0	42.7	41.8
SC89-394	42.4	44.3	43.0	45.5	43.8	43.8
SC89-983	41.4	44.3	42.3	42.6	44.3	43.0
SC89-1093	40.4	44.7	41.5	42.8	43.9	42.7
SC89-1610	40.0	43.6	40.5	41.3	41.4	41.4
SC89-1749	38.9	42.0	39.9	40.5	42.3	40.7
TsB87-162	42.7	45.0	42.8	43.8	42.7	43.4
TsB87-484	41.6	43.4	42.2	42.2	42.2	42.3
TsB88-1266	38.4	41.9	39.9	40.3	40.6	40.2
TsB88-2446	40.2	42.3	40.7	42.1	40.3	41.1
TsB88-3454	40.3	42.0	41.3	42.7	42.2	41.7

TABLE 65 - SEED SIZE FOR THE STRAINS IN PRELIMINARY GROUP VII, 1992.

STRAIN	ATHENS GA	BEAU-MONT TX	BLACK-VILLE SC	JAY FL	ROHWER AR	STONE-VILLE MS(B)	TALLA-SSEE AL	MEAN
STONEWALL	17.5	17.4	17.8	18.5	13.6	13.6	18.1	16.6
SHARKEY	17.7	14.0	16.6	17.5	13.8	12.5	16.5	15.5
Au89-1263	13.8	14.5	14.8	15.5	11.9	12.3	16.6	14.2
Au89-1592	12.4	12.8	13.6	14.0	11.0	11.0	13.9	12.7
Au89-2363	16.3	14.2	17.2	17.0	12.7	14.3	17.2	15.5
Au89-2449	15.8	15.6	17.0	17.0	12.4	14.7	16.1	15.5
Au89-2540	13.6	12.5	15.1	15.0	12.2	11.9	15.6	13.7
D89-9121	11.8	12.7	13.6	14.0	10.9	11.2	15.3	12.8
D89-9148	11.9	15.8	12.4	15.0	10.6	10.1	16.5	13.2
F90-5055	13.4	11.8	11.8	11.0	10.1	9.8	13.4	11.6
F90-6131	13.9	12.3	13.4	11.5	10.3	9.1	14.2	12.1
G88-2313	12.8	11.5	13.6	14.5	11.6	11.1	13.8	12.7
G88-2698	12.7	11.6	13.3	11.0	10.5	10.5	11.9	11.6
G88-3266	13.4	13.4	15.2	17.5	12.3	12.8	17.6	14.6
G88-3789	13.8	11.6	14.9	15.0	11.8	11.0	14.4	13.2
G88-5111	13.3	12.8	14.2	13.5	11.7	11.0	12.8	12.8
G89-9111	13.5	14.1	15.5	14.0	11.3	11.0	16.8	13.7
N90-804	13.1	12.1	14.4	14.0	10.9	10.8	17.0	13.2
N90-845	14.1	12.2	13.7	15.5	10.6	10.7	14.9	13.1
N90-1020	13.4	13.3	16.7	12.0	12.3	12.1	14.4	13.4
N90-1026	17.9	19.2	17.8	19.0	14.7	14.6	18.9	17.4
N90-1072	12.7	11.0	14.2	15.5	12.6	11.5	14.5	13.1
N90-1082	15.5	13.2	17.6	21.5	11.5	13.8	19.6	16.1
N90-1085	14.9	13.6	14.6	15.7	9.9	10.9	16.4	13.7
SC89-275	15.4	15.1	15.6	15.5	12.5	12.5	16.5	14.7
SC89-328	15.4	14.1	14.1	14.5	11.8	10.5	15.2	13.7
SC89-394	14.7	14.9	15.0	14.0	10.0	11.5	14.8	13.5
SC89-983	14.5	11.8	14.2	15.5	11.6	11.2	16.3	13.6
SC89-1093	14.5	15.5	15.9	14.0	12.5	12.6	15.5	14.4
SC89-1610	16.0	14.1	16.4	15.0	10.8	12.4	15.2	14.3
SC89-1749	13.6	12.5	14.3	14.5	8.5	12.8	13.5	12.8
TsB87-162	16.5	14.3	16.5	16.0	12.6	12.4	16.3	14.9
TsB87-484	18.7	16.2	17.3	17.5	4.9	13.5	17.1	15.0
TsB88-1266	14.2	13.7	14.9	15.5	11.2	12.2	18.0	14.2
TsB88-2446	13.4	13.0	13.3	15.0	9.5	10.8	13.3	12.6
TsB88-3454	13.2	11.8	13.0	14.5	11.6	11.1	13.2	12.6

TABLE 66 - PLANT HEIGHT FOR THE STRAINS IN PRELIMINARY GROUP VII, 1992.

STRAIN	ATHENS GA	BEAU-MONT TX	BLACK-VILLE SC	CLIN-TON NC	JAY FL	ROH-WER AR	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLA-SSEE AL	MEAN
STONEWALL	33	24	28	29	34	30	38	35	39	32
SHARKEY	38	31	35	38	36	40	40	42	43	38
Au89-1263	34	23	30	34	34	32	37	40	40	33
Au89-1592	36	28	32	35	36	36	39	45	42	36
Au89-2363	34	26	30	36	33	32	39	41	41	34
Au89-2449	36	28	33	37	36	34	41	39	40	36
Au89-2540	34	27	28	36	35	33	36	39	41	34
D89-9121	34	26	27	34	32	29	38	36	35	32
D89-9148	34	32	31	38	37	34	43	42	41	37
F90-5055	37	30	32	36	37	35	39	44	47	37
F90-6131	37	28	25	35	39	30	46	41	44	36
G88-2313	39	29	29	37	38	37	37	43	43	37
G88-2698	38	26	33	41	35	36	39	41	36	36
G88-3266	36	26	32	36	37	35	38	39	37	35
G88-3789	42	29	33	40	38	40	43	41	47	39
G88-5111	38	30	31	36	34	41	41	41	42	37
G89-9111	33	20	30	34	31	34	38	37	41	33
N90-804	32	18	28	33	28	25	35	36	40	30
N90-845	33	20	23	30	30	28	38	39	38	31
N90-1020	33	25	24	31	32	33	34	36	38	32
N90-1026	45	28	30	41	37	42	36	48	43	39
N90-1072	32	23	27	31	31	26	36	38	37	31
N90-1082	38	28	30	37	34	36	39	41	43	36
N90-1085	36	23	29	35	35	29	41	41	39	34
SC89-275	50	37	39	40	34	42	47	45	55	43
SC89-328	37	30	32	33	35	37	34	39	40	35
SC89-394	39	24	31	35	34	34	42	41	42	36
SC89-983	39	29	29	43	35	40	42	43	45	38
SC89-1093	33	24	28	37	29	31	37	38	40	33
SC89-1610	39	27	32	39	37	41	44	45	43	38
SC89-1749	37	27	32	35	36	38	41	43	44	37
TsB87-162	30	24	28	27	33	33	39	37	34	32
TsB87-484	32	26	28	29	30	33	40	38	37	32
TsB88-1266	40	32	32	39	34	43	41	44	42	38
TsB88-2446	35	27	24	33	32	35	40	42	41	34
TsB88-3454	34	26	24	30	33	35	40	35	38	33

TABLE 67 - LODGING SCORES FOR THE STRAINS IN PRELIMINARY GROUP VII, 1992.

STRAIN	ATHENS GA	BEAU-MONT TX	CLIN-TON NC	JAY FL	ROH-WER AR	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLA-SSEE AL	MEAN
STONEWALL	2.5	1	2.5	1.5	1.0	2.0	2.0	1.8	1.8
SHARKEY	3.5	1	3.5	2.0	3.0	2.5	3.0	2.5	2.6
Au89-1263	1.8	1	3.0	1.0	1.0	2.0	2.0	1.3	1.6
Au89-1592	2.5	1	2.5	2.0	1.0	2.5	3.0	1.8	2.0
Au89-2363	2.3	1	2.0	2.0	1.0	2.5	3.0	1.8	1.9
Au89-2449	2.5	1	3.0	1.5	1.0	3.0	3.0	1.8	2.1
Au89-2540	1.8	1	3.0	1.0	1.0	2.5	2.5	1.3	1.8
D89-9121	1.8	1	3.0	1.5	2.0	2.0	2.5	1.5	1.9
D89-9148	2.0	1	3.5	1.5	2.5	3.0	3.0	2.3	2.3
F90-5055	3.0	1	3.0	3.0	1.0	2.5	3.0	3.0	2.4
F90-6131	2.0	1	3.0	1.5	1.0	2.5	2.0	1.8	1.8
G88-2313	3.3	1	2.5	2.0	1.0	3.0	2.5	1.5	2.1
G88-2698	2.3	1	4.0	2.0	1.0	2.5	2.0	2.0	2.1
G88-3266	2.3	1	2.0	1.0	1.0	2.0	2.0	1.8	1.6
G88-3789	2.8	1	3.5	1.5	2.0	3.0	2.0	1.8	2.2
G88-5111	3.0	1	3.0	2.0	2.0	3.0	2.5	1.8	2.3
G89-9111	1.8	1	2.0	1.0	1.0	2.5	2.0	1.8	1.6
N90-804	2.5	1	3.5	1.5	2.5	2.5	2.0	1.5	2.1
N90-845	3.0	1	3.5	2.0	2.0	2.0	2.0	1.5	2.1
N90-1020	1.8	1	3.0	2.0	2.5	2.0	2.5	2.0	2.1
N90-1026	3.5	1	4.0	2.0	2.5	3.0	3.0	2.0	2.6
N90-1072	2.0	1	3.5	2.0	2.0	2.5	2.0	1.8	2.1
N90-1082	2.0	1	2.5	2.0	3.0	2.0	2.0	1.5	2.0
N90-1085	2.0	1	3.0	1.5	2.0	2.0	2.0	1.5	1.9
SC89-275	3.0	1	4.0	2.0	2.0	3.0	2.5	1.8	2.4
SC89-328	3.8	1	3.5	1.5	2.5	3.0	2.0	1.8	2.4
SC89-394	2.3	1	3.0	1.5	1.0	2.5	2.0	2.0	1.9
SC89-983	3.5	1	2.5	1.0	1.5	3.0	3.0	1.8	2.2
SC89-1093	1.5	1	2.5	1.0	1.0	2.5	2.0	1.3	1.6
SC89-1610	2.0	1	3.0	2.0	1.0	3.0	2.0	2.0	2.0
SC89-1749	2.3	1	1.5	1.0	1.0	2.0	2.0	1.5	1.5
TsB87-162	2.3	1	3.0	1.5	2.0	3.0	3.0	1.5	2.2
TsB87-484	3.3	1	3.5	2.0	2.5	2.5	2.0	1.5	2.3
TsB88-1266	3.5	1	4.0	2.5	3.0	3.0	3.0	2.8	2.8
TsB88-2446	2.8	1	3.0	2.0	2.0	3.0	2.0	1.5	2.2
TsB88-3454	2.0	1	3.0	1.5	1.0	3.0	2.0	1.5	1.9

TABLE 68 - SEED QUALITY SCORES FOR THE STRAINS IN PRELIMINARY GROUP VII, 1992.

STRAIN	ATHENS GA	BEAU-MONT TX	CLINTON NC	JAY FL	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLA-SSEE AL	MEAN
STONEWALL	1.5	1.3	2.5	2.5	2	2	2	2.0
SHARKEY	1.5	3.8	2.5	3.5	2	2	3	2.6
Au89-1263	1.5	1.0	2.0	2.5	2	2	2	1.9
Au89-1592	1.5	2.0	2.5	3.5	2	2	2	2.2
Au89-2363	1.5	1.5	2.5	3.0	2	2	2	2.1
Au89-2449	1.5	1.5	2.0	3.0	2	2	2	2.0
Au89-2540	1.5	1.8	2.5	3.5	2	2	2	2.2
D89-9121	1.5	1.0	2.0	3.0	2	2	2	1.9
D89-9148	1.5	1.5	2.5	2.5	2	2	3	2.1
F90-5055	2.5	2.0	2.5	4.0	2	2	1	2.3
F90-6131	1.5	2.8	2.5	3.5	2	2	2	2.3
G88-2313	1.5	1.3	2.5	3.0	2	2	2	2.0
G88-2698	1.5	1.8	2.5	3.5	2	2	3	2.3
G88-3266	1.5	1.3	2.5	3.0	2	2	2	2.0
G88-3789	1.5	2.5	2.0	3.5	2	2	2	2.2
G88-5111	1.5	1.5	2.0	3.0	2	2	2	2.0
G89-9111	1.5	1.0	2.0	3.0	2	2	2	1.9
N90-804	1.5	1.5	2.0	3.0	2	2	2	2.0
N90-845	1.5	1.3	2.0	3.0	2	2	2	2.0
N90-1020	1.5	1.3	2.0	3.0	2	2	2	2.0
N90-1026	1.5	1.8	2.5	3.0	2	2	3	2.3
N90-1072	1.5	1.0	2.0	3.0	2	2	2	1.9
N90-1082	1.5	1.0	2.5	2.5	2	2	2	1.9
N90-1085	1.5	1.0	2.5	2.5	2	2	2	1.9
SC89-275	1.5	1.3	2.5	3.5	2	2	2	2.1
SC89-328	1.5	1.0	2.5	2.0	2	2	2	1.9
SC89-394	1.5	1.8	2.0	3.0	2	2	2	2.0
SC89-983	1.5	1.3	2.5	2.0	2	2	2	1.9
SC89-1093	1.5	1.5	2.5	3.5	2	2	2	2.1
SC89-1610	1.5	2.3	2.5	3.0	2	2	2	2.2
SC89-1749	1.5	1.5	2.5	2.0	2	2	2	1.9
TsB87-162	1.5	1.3	2.5	3.0	2	2	2	2.0
TsB87-484	1.5	2.3	2.5	4.0	2	2	2	2.3
TsB88-1266	1.5	1.8	2.0	3.5	2	2	1	2.0
TsB88-2446	1.5	1.3	2.5	2.5	2	2	2	2.0
TsB88-3454	1.5	1.5	2.5	3.0	2	2	2	2.1

MATURITY

GROUP

VIII

UNIFORM GROUP VIII

1992

Uniform Group VIII nurseries were planted at 16 locations. Data were obtained from all of the 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. Results from individual locations are summarized in Tables 71 - 76.

The cultivar Perrin is the yield and maturity check. It had a mean yield of 39.7 bushels per acre and a mean maturity of October 25 at the 16 locations.

The South Carolina Agricultural Experiment Station, Georgia Agricultural Experiment Stations and North Carolina Agricultural Research Service announced the release of SC84-679 as 'Maxcy' in 1992. Maxcy had a mean yield of 41.3 bushels per acre across all locations in 1992 and a three-year mean yield of 39.8 bushels per acre. Maxcy is resistant to soybean cyst nematode Race 3, moderately resistant to southern root-knot nematode, and resistant to prevalent races of frogeye leafspot.

TABLE 69 - PARENTAGE OF THE STRAINS GROWN IN UNIFORM GROUP VIII, 1992.

	VARIETY OR STRAIN	PARENTAGE	GENERATION COMPOSITED
1.	PERRIN	COKER 488 X BRAXTON	F5
2.	COOK	BRAXTON X YOUNG	F6
3.	F86-1456	KIRBY(2) X TRACY-M	F5
4.	MAXCY	D76-9665 X JOHNSTON	F5
5.	Au86-2126	BRAXTON X JOHNSTON	F6
6.	F88-8692	KIRBY X F84-1569	F6
7.	F88-9160	F77-2000 X BRAXTON	F6
8.	F88-8626	F83-1969 X F79-6429	F6
9.	F88-8662	F83-1969 X F79-6439	F6
10.	G87-3533	CO 368 X GORDON	F5
11.	SC88-2537	KIRBY X (N79-491 X FORREST)	F5
12.	SC88-2909	CO 368 X LEFLORE	F5

Background of lines used as parents:

D76-9665 is a selection from Forrest X Centennial.
F79-6429 is a selection from Davis X Cobb.
F79-6439 is a selection from Cobb X (Ransom X Davis).
F83-1969 is a selection from Bedford X Kirby.
F84-1569 is a selection from F73-3376 X [Late Giant (2) X (Jupiter X F66-1534)]

TABLE 70 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN UNIFORM GROUP VIII, 1992.

	YIELD			PROTEIN			OIL		
STRAIN	1992	91-92	90-93	1992	91-92	90-93	1992	91-92	90-93
PERRIN	39.7	40.1	.	42.1	42.1	.	20.1	19.8	.
COOK	45.4	45.8	42.7	41.9	42.2	42.1	20.5	20.2	20.2
F86-1456	38.5	39.3	36.2	41.9	42.0	42.1	20.2	20.1	20.1
MAXCY	41.3	42.7	39.8	40.7	40.4	40.6	20.5	20.6	20.7
Au86-2126	40.7	41.3	38.7	40.9	41.1	41.2	21.4	21.4	21.3
F88-8692	40.3	39.7	.	42.1	42.3	.	20.3	20.2	.
F88-9160	39.9	39.8	.	41.6	41.5	.	20.0	20.0	.
F88-8626	40.2	.	.	41.4	.	.	20.3	.	.
F88-8662	36.2	.	.	41.3	.	.	20.2	.	.
G87-3533	40.6	.	.	37.7	.	.	22.1	.	.
SC88-2537	40.5	.	.	41.5	.	.	20.6	.	.
SC88-2909	38.1	.	.	41.5	.	.	20.2	.	.

BOTANTICAL TRAITS

STRAIN	FL. COLOR	HEIGHT	MATURITY DATE	PUB. COLOR	POD WALL	SEED SIZE	SEED QUALITY
PERRIN	P	36	10/25	T	T	17.3	1.8
COOK	P	36	-4	T	T	16.1	1.8
F86-1456	P	37	-5	T	T	13.9	1.8
MAXCY	P	33	-3	T	T	14.7	1.9
Au86-2126	W	31	-5	T	T	14.3	1.8
F88-8692	P	34	4	T	T	17.7	1.9
F88-9160	P	39	5	G	T	15.6	1.5
F88-8626	W	37	-1	T	T	13.7	1.8
F88-8662	W	41	6	T	T	15.0	1.6
G87-3533	W	35	-4	G	T	14.1	1.9
SC88-2537	P	33	-6	G	T	13.4	1.9
SC88-2909	P	34	-6	G	T	13.1	2.0

PEST REACTIONS

STRAIN	M.a.	M.i.	SCN† RACE 3	SCN† RACE 14	SBL‡	STEM CANKER MS	STEM CANKER TX	FROG EYE
PERRIN	1.3	1.5	S	S	4	1.3	0	1.7
COOK	4.5	2.3	S	S	2	1.0	0	1.0
F86-1456	2.0	1.3	R	S	4	1.0	0	1.3
MAXCY	3.0	3.0	R	S	4	4.9	2	1.0
Au86-2126	4.5	3.8	R	S	3	3.1	3	1.0
F88-8692	2.3	2.0	R	S	5	1.0	0	1.0
F88-9160	3.5	1.5	R	S	4	1.0	0	1.0
F88-8626	3.3	1.8	R	H	4	4.1	2	1.0
F88-8662	4.5	2.0	S	S	4	4.3	3	1.0
G87-3533	4.0	1.8	R	S	3	4.6	4	2.0
SC88-2537	2.0	1.5	R	S	4	4.3	2	2.2
SC88-2909	3.3	1.0	R	MR	4	4.9	3	2.5

† 1991 evaluations conducted at Jackson, TN
‡ 1991 evaluations conducted in a field cage at Stoneville, MS

TABLE 71 - SEED YIELD, IN BUSHELS PER ACRE, FOR THE STRAINS IN UNIFORM GROUP VIII, 1992.

STRAIN	ATHENS GA	BATON ROUGE LA	BEAU-MONT TX	BLACK-VILLE SC(A)	BLACK-VILLE SC(B)	CLINTON NC	FAIR-HOPE AL	FLO-RENCE SC(A)	FLO-RENCE SC(B)
PERRIN	56.7	37.0	42.6	39.0	32.8	43.8	51.4	27.8	.
COOK	63.3	47.1	46.7	39.5	39.9	49.6	50.8	32.8	.
F86-1456	49.7	40.8	35.3	34.8	34.2	42.3	47.5	26.8	.
MAXCY	56.5	43.1	32.3	38.5	36.7	40.8	49.9	29.2	.
Au86-2126	56.2	48.0	31.5	36.9	29.7	39.8	47.2	32.2	.
F88-8692	55.2	49.0	36.8	31.8	33.4	40.4	50.8	30.6	.
F88-9160	41.2	39.1	41.1	34.6	34.1	37.6	43.6	33.6	.
F88-8626	38.9	40.1	32.1	39.9	29.6	47.9	47.8	30.6	.
F88-8662	40.4	36.7	25.6	40.0	30.1	38.2	46.6	25.9	.
G87-3533	61.9	42.4	29.6	33.5	26.7	44.6	47.2	32.5	.
SC88-2537	57.8	38.5	34.1	41.4	27.0	38.3	55.7	30.6	.
SC88-2909	52.8	38.9	33.6	30.6	32.1	45.1	53.8	29.2	.
L.S.D. (0.05)	5.8	7.4	11.1	12.5	10.0	7.1	6.2	5.3	.
C.V. (%)	6.5	12.7	18.6	20.2	18.4	10.0	7.4	10.4	.

STRAIN	GAINES-VILLE FL†	JAY FL	QUINCY FL	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLA-SSEE AL	TIF-TON GA	MEAN
PERRIN	26.2	39.6	31.8	33.2	36.2	48.7	34.4	39.7
COOK	27.6	51.7	43.7	38.3	45.6	48.6	37.6	45.4
F86-1456	12.5	43.6	40.5	27.8	34.0	43.2	38.7	38.5
MAXCY	14.8	51.0	44.2	33.0	40.0	52.7	30.9	41.3
Au86-2126	24.9	52.4	41.2	34.3	37.3	46.9	36.3	40.7
F88-8692	5.3	50.2	35.5	28.6	32.1	52.3	37.8	40.3
F88-9160	7.0	52.1	42.3	27.6	33.2	57.7	40.2	39.9
F88-8626	16.9	49.1	42.8	30.1	40.7	51.5	41.5	40.2
F88-8662	10.6	44.4	38.0	25.8	35.7	42.6	36.4	36.2
G87-3533	18.4	48.8	34.2	28.9	39.4	57.3	41.2	40.6
SC88-2537	15.7	44.7	32.8	32.3	39.1	46.7	47.6	40.5
SC88-2909	20.8	37.4	31.2	32.2	41.4	42.0	33.2	38.1
L.S.D. (0.05)	4.2	9.7	10.9	6.7	5.7	11.7	6.6	3.2
C.V. (%)	14.7	12.2	16.9	12.7	8.9	14.1	10.2	10.7

† This location not included in overall mean.

TABLE 72 - CHEMICAL COMPOSITION AND SEED SIZE FOR THE STRAINS IN UNIFORM GROUP VIII, 1992.

OIL PERCENTAGE

STRAIN	ATHENS GA	BEAUMONT TX	BLACKVILLE SC(B)	CLINTON NC	FAIRHOPE AL	FLORENCE SC(A)	GAINESVILLE FL†
PERRIN	19.3	.	18.9	19.7	19.9	20.3	20.6
COOK	19.7	.	20.0	20.0	20.2	20.5	20.8
F86-1456	19.5	.	18.9	20.1	19.2	20.6	20.4
MAXCY	20.3	.	19.5	19.9	20.0	20.6	20.3
Au86-2126	20.6	.	21.2	21.0	19.5	22.1	22.7
F88-8692	19.5	.	19.1	19.9	18.9	20.9	17.7
F88-9160	19.2	.	19.2	18.8	18.9	21.2	17.3
F88-8626	19.9	.	19.4	19.8	19.5	21.1	18.9
F88-8662	19.7	.	19.6	19.0	19.8	20.5	20.2
G87-3533	22.4	.	21.4	21.2	21.0	22.6	22.7
SC88-2537	20.0	.	20.1	20.3	20.0	20.7	21.6
SC88-2909	19.9	.	19.7	19.3	19.9	20.6	20.9

PROTEIN PERCENTAGE

STRAIN	ATHENS GA	BEAUMONT TX	BLACKVILLE SC(B)	CLINTON NC	FAIRHOPE AL	FLORENCE SC(A)	GAINESVILLE FL†
PERRIN	41.5	.	43.7	41.0	43.5	40.5	41.2
COOK	41.6	.	42.8	42.3	42.9	40.7	40.5
F86-1456	42.6	.	43.0	40.8	43.7	40.6	42.3
MAXCY	40.4	.	41.4	40.1	42.6	39.1	43.2
Au86-2126	41.6	.	40.7	40.2	44.8	38.5	40.0
F88-8692	42.3	.	43.3	40.8	45.0	40.4	47.1
F88-9160	41.6	.	41.8	41.3	43.9	39.5	44.8
F88-8626	41.5	.	41.0	41.3	44.1	39.4	43.8
F88-8662	41.1	.	41.2	42.3	43.6	39.4	41.3
G87-3533	36.5	.	37.2	36.5	40.9	35.8	37.1
SC88-2537	42.6	.	41.3	41.4	43.0	40.4	40.8
SC88-2909	41.3	.	41.5	40.7	43.4	40.1	41.8

GRAMS PER 100 SEED

STRAIN	ATHENS GA	BEAUMONT TX	BLACKVILLE SC(B)	CLINTON NC	FAIRHOPE AL	FLORENCE SC(A)	GAINESVILLE FL†
PERRIN	18.2	15.6	.	.	16.9	17.1	13.1
COOK	17.8	14.7	.	.	16.0	15.5	11.9
F86-1456	15.2	12.8	.	.	14.0	14.1	9.5
MAXCY	15.3	12.9	.	.	16.4	13.5	11.0
Au86-2126	15.3	14.0	.	.	13.8	13.9	11.1
F88-8692	18.6	15.4	.	.	16.5	17.5	10.7
F88-9160	15.1	13.5	.	.	15.1	13.7	9.1
F88-8626	12.1	11.1	.	.	14.2	14.4	9.4
F88-8662	15.5	12.2	.	.	15.3	14.6	9.3
G87-3533	14.9	12.4	.	.	15.2	13.6	10.0
SC88-2537	14.0	12.0	.	.	13.8	12.9	9.9
SC88-2909	13.5	12.4	.	.	14.6	12.4	9.6

† This location not included in overall mean.

TABLE 72 - (Continued)

OIL PERCENTAGE

STRAIN	JAY FL	QUINCY FL	STONEVILLE MS(B)	TALLASSEE AL	TIFTON GA	MEAN
PERRIN	21.1	22.4	18.9	20.0	.	20.1
COOK	21.2	22.2	20.0	21.0	.	20.5
F86-1456	21.7	22.2	18.9	20.5	.	20.2
MAXCY	21.9	22.7	19.5	20.0	.	20.5
Au86-2126	22.8	23.5	21.2	21.1	.	21.4
F88-8692	22.1	22.9	19.1	20.3	.	20.3
F88-9160	20.9	22.8	19.2	20.0	.	20.0
F88-8626	21.4	22.4	19.4	20.1	.	20.3
F88-8662	21.0	22.3	19.6	20.4	.	20.2
G87-3533	23.0	23.4	21.4	22.2	.	22.1
SC88-2537	21.3	22.4	20.1	20.6	.	20.6
SC88-2909	20.8	21.8	19.7	20.0	.	20.2

PROTEIN PERCENTAGE

STRAIN	JAY FL	QUINCY FL	STONEVILLE MS(B)	TALLASSEE AL	TIFTON GA	MEAN
PERRIN	42.4	40.2	43.7	42.1	.	42.1
COOK	42.5	40.2	42.8	40.9	.	41.9
F86-1456	41.1	40.7	43.0	41.5	.	41.9
MAXCY	40.4	38.8	41.4	41.9	.	40.7
Au86-2126	40.9	39.1	40.7	41.8	.	40.9
F88-8692	40.3	40.0	43.3	43.8	.	42.1
F88-9160	41.8	39.5	41.8	43.1	.	41.6
F88-8626	41.9	39.7	41.0	42.7	.	41.4
F88-8662	41.7	40.3	41.2	41.1	.	41.3
G87-3533	38.0	37.9	37.2	39.0	.	37.7
SC88-2537	41.9	40.1	41.3	41.9	.	41.5
SC88-2909	42.1	40.6	41.5	42.0	.	41.5

GRAMS PER 100 SEED

STRAIN	JAY FL	QUINCY FL	STONEVILLE MS(B)	TALLASSEE AL	TIFTON GA	MEAN
PERRIN	19.3	17.8	16.4	18.0	15.2	17.2
COOK	19.0	14.0	14.6	16.5	15.5	16.0
F86-1456	14.0	14.0	10.6	14.9	12.0	13.5
MAXCY	16.7	14.6	11.7	14.9	13.0	14.3
Au86-2126	15.3	14.5	12.6	15.0	12.2	14.1
F88-8692	18.7	18.9	13.9	19.4	16.2	17.2
F88-9160	17.7	17.6	10.9	18.9	13.5	15.1
F88-8626	14.7	13.8	11.1	16.1	13.5	13.4
F88-8662	17.3	15.5	11.7	17.0	13.0	14.7
G87-3533	15.3	13.9	11.9	14.4	13.0	13.8
SC88-2537	15.0	12.4	10.6	13.2	13.7	13.1
SC88-2909	14.3	11.9	11.1	13.2	12.6	12.9

TABLE 73 - RELATIVE MATURITY DATA, DAYS EARLIER (-) OR LATER (+) THAN PERRIN, FOR THE STRAINS IN UNIFORM GROUP VIII, 1992.

STRAIN	ATHENS GA	BATON ROUGE LA	BEAU-MONT TX	BLACK-VILLE SC(A)	BLACK-VILLE SC(B)	CLINTON NC	FAIR-HOPE AL	FLORENCE SC(A)
PERRIN	10/24	.	10/14	10/24	10/30	11/06	10/22	10/27
COOK	0	.	-4	3	-5	-7	-7	-2
F86-1456	-2	.	-4	0	-4	-10	-6	-5
MAXCY	2	.	-2	-1	-2	-7	-2	-4
Au86-2126	-1	.	-4	0	-3	-7	-7	-5
F88-8692	9	.	4	5	1	2	0	5
F88-9160	7	.	9	12	3	8	0	7
F88-8626	0	.	-3	3	0	-4	-2	2
F88-8662	6	.	5	12	3	12	3	7
G87-3533	0	.	-4	0	-4	-7	-4	-5
SC88-2537	-5	.	-5	1	-6	-7	-9	-7
SC88-2909	-5	.	-4	0	-4	-10	-7	-6

STRAIN	FLORENCE SC(B)	GAINES-VILLE FL†	JAY FL	QUINCY FL	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLA-SSEE AL	TIF-TON GA	MEAN
PERRIN	.	10/16	10/29	.	10/22	10/29	10/21	10/16	10/25
COOK	.	-1	-1	.	-3	-6	-5	-3	-4
F86-1456	.	-3	-6	.	-3	-9	-3	-4	-5
MAXCY	.	-2	3	.	-3	-6	-1	-2	-3
Au86-2126	.	-2	-8	.	-3	-9	-4	-4	-5
F88-8692	.	-1	6	.	2	0	8	7	4
F88-9160	.	-1	6	.	-1	0	8	9	5
F88-8626	.	-1	0	.	-3	-6	3	4	-1
F88-8662	.	5	6	.	3	1	8	9	6
G87-3533	.	-2	-4	.	-7	-9	-1	-2	-4
SC88-2537	.	-5	-6	.	-8	-9	-3	-3	-6
SC88-2909	.	-3	-8	.	-7	-9	-3	-5	-6

† This location not included in overall mean.

TABLE 74 - PLANT HEIGHT FOR THE STRAINS IN UNIFORM GROUP VIII, 1992.

STRAIN	ATHENS GA	BATON ROUGE LA	BEAU-MONT TX	BLACK-VILLE SC(A)	CLINTON NC	FAIR-HOPE AL	FLORENCE SC(A)
PERRIN	44	35	29	32	30	46	35
COOK	45	36	27	28	34	41	35
F86-1456	45	39	27	30	32	44	39
MAXCY	44	34	22	26	27	40	30
Au86-2126	37	35	19	25	25	39	27
F88-8692	39	33	26	25	31	38	29
F88-9160	50	42	29	29	36	47	35
F88-8626	47	36	28	32	34	41	37
F88-8662	52	37	37	34	38	48	38
G87-3533	43	35	23	24	31	40	32
SC88-2537	41	34	23	25	27	38	32
SC88-2909	45	34	24	25	33	44	30

STRAIN	GAINES-VILLE FL†	JAY FL	STONE-VILLE MS(A)	STONE VILLE MS(B)	TALLASSEE AL	TIFTON GA	MEAN
PERRIN	37	38	45	35	43	25	36
COOK	30	31	44	38	43	27	36
F86-1456	35	36	41	39	42	32	37
MAXCY	29	38	41	35	38	21	33
Au86-2126	25	36	37	34	36	21	31
F88-8692	28	38	43	35	38	32	34
F88-9160	35	38	45	37	48	29	39
F88-8626	36	36	42	39	42	33	37
F88-8662	49	42	43	45	49	32	41
G87-3533	29	38	43	38	42	30	35
SC88-2537	28	34	41	37	40	28	33
SC88-2909	29	38	40	35	41	24	34

† This location not included in overall mean.

TABLE 75 - LODGING SCORES FOR THE STRAINS IN UNIFORM GROUP VIII, 1992.

STRAIN	ATHENS GA	BATON ROUGE LA	BEAUMONT TX	CLINTON NC	FAIRHOPE AL	FLORENCE SC(A)	GAINES-VILLE FL†
PERRIN	2.7	5	1	2.3	1.0	1.0	1.7
COOK	3.2	3	1	2.7	2.0	1.0	1.2
F86-1456	3.0	4	1	2.3	1.0	1.7	1.3
MAXCY	3.3	5	1	2.3	2.3	1.0	1.0
Au86-2126	4.3	5	1	3.3	1.0	1.0	1.0
F88-8692	2.7	4	1	2.3	1.0	1.7	1.0
F88-9160	2.5	3	1	3.7	2.0	1.0	2.0
F88-8626	4.3	4	1	3.3	3.0	2.0	2.0
F88-8662	2.5	5	1	4.0	2.3	2.0	2.0
G87-3533	3.7	4	1	2.3	1.0	1.0	1.0
SC88-2537	2.3	3	1	2.3	1.0	1.0	1.0
SC88-2909	2.7	3	1	2.3	1.0	1.0	1.0

STRAIN	JAY FL	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLASSEE AL	TIFTON GA	MEAN
PERRIN	2.0	2.7	2.0	1.5	1.0	2.0
COOK	2.3	2.0	2.3	1.3	1.1	2.0
F86-1456	3.0	3.0	2.7	1.5	1.5	2.2
MAXCY	2.3	3.0	2.3	1.3	1.0	2.3
Au86-2126	2.0	3.0	4.0	1.8	1.1	2.5
F88-8692	1.3	2.7	2.3	1.2	1.2	1.9
F88-9160	2.7	2.0	2.0	1.5	1.2	2.0
F88-8626	2.7	3.0	2.7	1.8	2.8	2.8
F88-8662	2.3	2.7	2.7	1.7	1.4	2.5
G87-3533	2.0	3.0	2.7	1.3	1.5	2.1
SC88-2537	2.3	2.7	2.0	1.3	1.1	1.8
SC88-2909	2.0	3.0	2.0	1.3	1.2	1.9

† This location not included in overall mean.

TABLE 76 - SEED QUALITY FOR THE STRAINS IN UNIFORM GROUP VIII, 1992.

STRAIN	ATHENS GA	BEAUMONT TX	CLINTON NC	FAIRHOPE AL	GAINESVILLE FL†	JAY FL
PERRIN	1.7	1.0	2	2	1.5	3.3
COOK	1.5	1.0	2	2	2.0	3.0
F86-1456	1.5	1.2	2	2	1.8	3.0
MAXCY	1.8	1.3	2	2	2.0	3.0
Au86-2126	1.5	1.7	2	2	1.2	2.7
F88-8692	1.5	1.2	2	2	2.7	3.0
F88-9160	1.5	1.0	2	1	2.0	2.3
F88-8626	1.5	1.0	2	2	1.7	3.0
F88-8662	1.5	1.3	2	1	1.7	2.7
G87-3533	1.5	1.5	2	1	2.3	3.3
SC88-2537	1.5	1.2	2	1	2.2	4.0
SC88-2909	1.5	1.5	2	2	1.8	3.0

STRAIN	QUINCY FL	STONE-VILLE MS(A)	STONE-VILLE MS(B)	TALLASSEE AL	TIFTON GA	MEAN
PERRIN	1.2	2	2	1.0	1.6	1.8
COOK	1.0	2	2	1.0	2.1	1.8
F86-1456	1.7	2	2	1.0	2.0	1.8
MAXCY	1.7	2	2	1.0	1.9	1.9
Au86-2126	1.3	2	2	1.0	1.5	1.8
F88-8692	1.3	2	2	2.0	1.8	1.9
F88-9160	1.0	2	2	1.0	1.6	1.5
F88-8626	1.0	2	2	1.3	1.9	1.8
F88-8662	1.0	2	2	1.0	1.6	1.6
G87-3533	1.5	2	2	2.0	1.8	1.9
SC88-2537	1.7	2	2	2.0	1.9	1.9
SC88-2909	1.8	2	2	2.0	2.1	2.0

† This location not included in overall mean.

PRELIMINARY GROUP VIII

1992

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 ratings for stem canker and frogeye. Results from individual locations are summarized in Tables 79 - 85.

The cultivar Perrin is the yield and maturity check. It had a mean yield of 40.2 bushels per acre and a mean maturity of October 22 at the 6 locations.

TABLE 77 - PARENTAGE OF THE STRAINS GROWN IN PRELIMINARY GROUP VIII, 1992.

	VARIETY OR STRAIN	PARENTAGE
1.	PERRIN	COKER 488 X BRAXTON
2.	COOK	BRAXTON X YOUNG
3.	Au89-736	R83-1552 X F83-2048
4.	Au89-1479	G80-1515 X STONEWALL
5.	Au89-2256	STONEWALL X Co82-645
6.	Au89-2463	STONEWALL X Co82-645
7.	Au89-2465	STONEWALL X Co82-645
8.	Au89-2511	STONEWALL X Co82-645
9.	F88-8902	F83-2129 X (KIRBY X TRACY-M)
10.	F89-394	F83-1969 X (KIRBY X TRACY-M)
11.	F89-1018	GORDON X F82-3668
12.	F90-2556	F83-1960 X F76-1514
13.	F90-3307	F83-2129 X (KIRBY X TRACY-M)
14.	F90-3530	F85-1333 X F83-4658
15.	F90-4727	GORDON X F85-1138
16.	F90-5057	F85-1108 X F85-7356
17.	F90-6218	FAYETTE X F87-4853
18.	F90-7284	PI417479 X F87-4039
19.	G88-1336	COKER 368 X LELFORE
20.	G88-1700	COKER 368 X LEFLORE
21.	G88-1830	COKER 368 X LEFLORE
22.	G88-3129	HUTCHESON X COKER 6738
23.	G88-3315	HUTCHESON X COKER 6738
24.	G88-5234	N80-50232 X LAMAR
25.	SC89-527	A6785 X COKER 6738
26.	SC89-551	A6785 X COKER 6738
27.	SC89-579	A6785 X COKER 6738
28.	SC89-1018	BRIM X COKER 6738
29.	SC89-1109	BRIM X COKER 6738
30.	S89-1117	BRIM X COKER 6738
31.	SC89-1226	COKER 6738 X N81-1121
32.	TsB88-1216	BRAXTON X N77-940
33.	TsB88-1858	COKER 368 X THOMAS
34.	TsB88-1949	R82-368 X BRAXTON
35.	TsB88-2434	BRAXTON X N77-940
36.	TsB88-3422	TRACY M X KIRBY(2)

TABLE 78 - GENERAL SUMMARY OF PERFORMANCE FOR THE STRAINS GROWN IN PRELIMINARY GROUP VIII, 1992†.

STRAIN	SEED YIELD	MAT. INDEX	PERCENT			STEM CANKER	FROG EYE
			HT.	OIL	PROTEIN		
PERRIN	40.2	10/22	32	20.8	41.5	1	2.0
COOK	48.2+	1-	29	20.8	41.2	1	1.0
Au89-736	37.1	0	32	20.9	41.1	0	2.0
Au89-1479	43.5	2-	29	20.5	39.6-	2	1.5
Au89-2256	42.0	1+	30	21.3	40.8	1	1.0
Au89-2463	36.4	2-	31	22.4+	39.6-	5	1.0
Au89-2465	41.3	1-	33	21.3	40.6	0	1.0
Au89-2511	42.9	0	31	21.2	40.1-	0	1.5
F88-8902	31.9-	5+	32	20.2	40.8	3	2.3
F89-394	34.4	0	34	19.7-	42.6+	0	2.5
F89-1018	35.9	3-	32	21.8+	39.2-	2	1.0
F90-2556	32.6-	3+	33	20.0-	42.1	3	1.0
F90-3307	37.4	6+	35	21.4	38.5-	0	2.0
F90-3530	29.9-	1-	33	20.1	41.0	6	1.8
F90-4727	31.0-	6-	31	20.4	39.9-	4	2.3
F90-5057	27.8-	4-	29	20.7	40.5	7	2.3
F90-6218	31.8-	4-	29	20.2	41.6	4	2.0
F90-7284	28.1-	5-	27	19.7-	42.6+	8	1.0
G88-1336	38.9	3-	31	20.9	39.2-	3	2.0
G88-1700	33.8	4-	30	20.7	41.5	3	3.0
G88-1830	41.4	5-	30	20.9	41.4	2	2.3
G88-3129	43.6	1-	30	21.9+	41.1	1	2.0
G88-3315	39.2	4-	28	22.6+	39.3-	0	3.3
G88-5234	38.0	4-	28	20.3	40.7	0	2.3
SC89-527	39.7	2+	33	21.3	41.6	0	1.5
SC89-551	40.0	1+	32	21.7+	39.7-	0	1.5
SC89-579	37.5	0	34	20.1	41.9	3	3.3
SC89-1018	36.2	4-	32	21.0	42.0	5	2.0
SC89-1109	42.6	2-	38	21.7+	41.0	1	1.5
S89-1117	36.7	1-	31	20.5	42.5	0	3.5
SC89-1226	38.6	1-	30	22.6+	39.7-	0	2.5
TsB88-1216	37.2	1-	31	20.4	41.0	0	2.0
TsB88-1858	33.9	2+	30	21.3	40.1-	1	1.0
TsB88-1949	38.3	5+	28	21.6+	40.8	0	1.0
TsB88-2434	38.5	0	29	20.7	41.6	0	2.5
TsB88-3422	35.3	1-	27	20.4	42.3	0	2.0
L.S.D. (0.05)	7.0			0.7	1.1		
C.V. (%)	15%			2%	2%		

(+) or (-) designations refer to significant differences to Perrin at the 0.05 probability level.
† Gainesville, FL not included in the means.

TABLE 79 - SEED YIELD, IN BUSHELS PER ACRE, FOR THE STRAINS IN PRELIMINARY GROUP VIII, 1992.

STRAIN	BEAU-MONT TX	BLACK-VILLE SC	GAINES-VILLE FL†	JAY FL	QUINCY FL	STONE-VILLE MS(B)	MEAN
PERRIN	27.8	53.0	25.1	43.5	37.3	39.3	40.2
COOK	28.1	49.7	21.3	68.2+	44.8	50.3+	48.2+
Au89-736	40.3+	42.9-	14.6-	39.6	30.9	31.6-	37.1
Au89-1479	33.9	49.9	12.7-	46.8	50.9	36.0	43.5
Au89-2256	24.4	45.4-	10.5-	53.9	55.3+	30.9-	42.0
Au89-2463	11.8-	49.7	7.4-	45.7	43.4	31.5-	36.4
Au89-2465	34.6	51.4	13.5-	49.5	35.8	35.2	41.3
Au89-2511	28.4	52.3	14.8-	47.3	50.8	35.8	42.9
F88-8902	13.3-	43.5-	14.7-	40.7	43.0	19.0-	31.9-
F89-394	32.2	44.4-	23.1	36.3	36.5	22.7-	34.4
F89-1018	27.1	40.1-	7.1-	40.2	41.9	30.5-	35.9
F90-2556	19.3	39.4-	10.7-	45.1	32.1	27.3-	32.6
F90-3307	27.1	41.7-	17.7-	45.7	45.3	27.2-	37.4
F90-3530	10.8-	37.9-	18.0-	33.6	37.4	29.8-	29.9-
F90-4727	15.5-	44.0-	16.3-	34.1	32.6	29.1-	31.0-
F90-5057	12.3-	36.8-	24.2	29.2-	28.8	31.8-	27.8-
F90-6218	18.0-	35.3-	12.9-	38.5	38.9	28.1-	31.8-
F90-7284	8.7-	36.6-	18.3-	38.5	28.8	27.7-	28.1-
G88-1336	18.9-	51.5	16.4-	46.8	35.5	41.8	38.9
G88-1700	22.6	44.2-	9.0-	36.9	35.9	29.4-	33.8
G88-1830	27.6	49.8	21.9	46.2	39.0	44.3	41.4
G88-3129	32.6	51.9	9.0-	46.2	47.5	40.0	43.6
G88-3315	27.3	54.5	18.0-	38.0	37.0	39.4	39.2
G88-5234	32.9	47.6	13.5-	41.3	32.8	35.4	38.0
SC89-527	30.3	49.9	15.8-	43.5	46.9	28.0-	39.7
SC89-551	24.1	51.7	15.4-	41.8	50.4	31.9-	40.0
SC89-579	24.5	43.5-	16.3-	40.7	45.9	32.7	37.5
SC89-1018	14.9-	52.3	12.3-	38.5	33.9	41.6	36.2
SC89-1109	29.4	47.1	31.4	51.2	37.3	48.0+	42.6
SC89-1117	39.4+	42.9-	14.4-	34.1	33.8	33.1	36.7
SC89-1226	30.3	50.4	11.2-	39.1	37.1	36.2	38.6
TsB88-1216	28.6	43.6-	15.2-	38.5	42.3	33.1	37.2
TsB88-1858	29.5	42.5-	11.8-	36.9	31.8	29.0-	33.9
TsB88-1949	27.1	45.7-	3.6-	46.8	43.5	28.8-	38.3
TsB88-2434	24.3	47.1	21.9	42.9	39.5	38.6	38.5
TsB88-3422	28.7	42.1-	11.2-	42.4	28.0	35.5	35.7
L.S.D. (0.05)	8.6	7.0	6.8	11.4	14.6	7.1	7.0
C.V. (%)	16.9	7.6	21.8	13.2	18.3	10.4	15.0

(+) or (-) designations refer to significant differences to Perrin at the 0.05 probability level.
† This location not included in overall mean.

TABLE 80 - OIL PERCENTAGES FOR THE STRAINS IN PRELIMINARY GROUP VIII, 1992.

STRAIN	BLACK-VILLE SC	GAINES-VILLE FL†	JAY FL	QUINCY FL	STONE-VILLE MS(B)	MEAN
PERRIN	20.7	21.5	21.2	22.0	19.2	20.8
COOK	20.4	19.7	21.6	21.6	19.6	20.8
Au89-736	21.0	19.0	21.8	22.4	18.4	20.9
Au89-1479	20.2	20.0	21.9	21.5	18.6	20.5
Au89-2256	21.6	19.7	21.9	22.7	18.8	21.3
Au89-2463	22.2	21.9	23.6	23.7	20.0	22.4
Au89-2465	21.0	21.9	21.4	22.7	20.0	21.3
Au89-2511	22.2	20.7	20.9	22.7	19.1	21.2
F88-8902	20.9	19.9	20.8	21.4	17.6	20.2
F89-394	20.6	20.5	20.4	20.8	16.8	19.7
F89-1018	21.3	20.5	22.5	23.4	19.9	21.8
F90-2556	19.2	20.4	20.1	22.3	18.4	20.0
F90-3307	21.0	21.2	22.0	23.1	19.3	21.4
F90-3530	19.9	20.7	20.6	20.9	18.9	20.1
F90-4727	20.4	21.1	20.1	21.6	19.4	20.4
F90-5057	20.5	21.2	20.7	22.3	19.1	20.7
F90-6218	20.7	19.3	20.0	21.0	19.0	20.2
F90-7284	20.4	20.1	20.3	20.8	17.1	19.7
G88-1336	20.7	20.6	21.7	22.3	19.1	20.9
G88-1700	20.8	18.4	21.4	21.9	18.6	20.7
G88-1830	21.5	21.6	21.5	21.8	18.9	20.9
G88-3129	21.3	21.2	22.3	23.4	20.7	21.9
G88-3315	23.6	23.6	23.2	22.5	21.3	22.6
G88-5234	20.2	20.5	20.6	21.0	19.2	20.3
SC89-527	21.3	20.4	21.8	22.6	19.4	21.3
SC89-551	21.3	21.1	22.5	22.9	19.9	21.7
SC89-579	20.2	20.2	20.4	21.1	18.6	20.1
SC89-1018	20.6	20.2	21.9	22.2	19.4	21.0
SC89-1109	21.2	23.3	22.3	22.6	20.7	21.7
SC89-1117	20.9	19.6	20.4	21.6	19.1	20.5
SC89-1226	22.3	23.2	22.9	24.1	21.3	22.6
TsB88-1216	20.1	19.0	21.0	21.4	19.0	20.4
TsB88-1858	21.5	21.4	21.9	22.6	19.0	21.3
TsB88-1949	21.1	20.1	22.1	22.9	20.3	21.6
TsB88-2434	20.7	21.0	20.9	21.8	19.3	20.7
TsB88-3422	20.3	19.1	20.9	21.8	18.4	20.4

† This location not included in overall mean.

TABLE 81 - PROTEIN PERCENTAGES FOR THE STRAINS IN PRELIMINARY GROUP VIII, 1992.

STRAIN	BLACK-VILLE SC	GAINES-VILLE FL†	JAY FL	QUINCY FL	STONE-VILLE MS(B)	MEAN
PERRIN	40.2	39.4	41.8	41.0	42.8	41.5
COOK	41.1	41.8	41.3	40.5	42.0	41.2
Au89-736	39.6	43.7	41.0	39.9	44.0	41.1
Au89-1479	39.0	41.2	39.5	38.8	41.2	39.6
Au89-2256	39.4	42.1	41.2	39.3	43.1	40.8
Au89-2463	38.4	39.5	39.9	38.7	41.5	39.6
Au89-2465	39.6	40.1	41.1	39.2	42.5	40.6
Au89-2511	38.8	42.3	40.7	38.8	42.0	40.1
F88-8902	39.6	41.0	40.5	40.0	43.3	40.8
F89-394	41.1	41.6	42.4	41.1	45.7	42.6
F89-1018	39.9	41.9	38.8	37.4	40.5	39.2
F90-2556	42.7	41.2	42.8	39.3	43.5	42.1
F90-3307	37.6	39.8	38.1	37.5	41.0	38.5
F90-3530	41.6	41.8	40.5	39.8	42.2	41.0
F90-4727	39.4	40.8	39.8	39.3	41.1	39.9
F90-5057	41.0	40.8	40.5	39.5	41.2	40.5
F90-6218	41.6	44.6	42.8	40.0	42.2	41.6
F90-7284	42.0	43.6	43.0	41.0	44.5	42.6
G88-1336	38.1	40.1	40.0	38.1	40.8	39.2
G88-1700	40.1	46.1	41.5	41.3	43.1	41.5
G88-1830	40.7	40.6	42.2	40.5	42.1	41.4
G88-3129	40.8	41.3	41.9	39.7	41.9	41.1
G88-3315	37.9	36.8	39.8	40.4	38.9	39.3
G88-5234	39.9	41.0	41.0	41.4	40.6	40.7
SC89-527	40.5	41.1	42.4	40.5	43.0	41.6
SC89-551	38.3	39.5	39.4	39.6	41.6	39.7
SC89-579	41.2	42.4	42.8	41.3	42.4	41.9
SC89-1018	41.5	43.0	42.3	41.5	42.8	42.0
SC89-1109	40.9	39.2	41.3	40.0	41.7	41.0
SC89-1117	40.9	42.6	43.5	41.6	44.0	42.5
SC89-1226	38.6	38.9	41.1	38.8	40.2	39.7
TsB88-1216	40.6	44.1	41.3	40.0	42.2	41.0
TsB88-1858	38.4	38.9	40.6	39.7	41.6	40.1
TsB88-1949	39.8	44.0	41.7	39.8	41.9	40.8
TsB88-2434	40.9	41.8	42.1	40.8	42.8	41.6
TsB88-3422	40.6	44.2	42.7	41.6	44.2	42.3

† This location not included in overall mean.

TABLE 82 - SEED SIZE FOR THE STRAINS IN PRELIMINARY GROUP VIII, 1992.

STRAIN	BEAU-MONT TX	BLACK-VILLE SC	GAINES-VILLE FL†	JAY FL	QUINCY FL	STONE-VILLE MS(B)	MEAN
PERRIN	15.3	17.8	14.2	19.5	17.3	15.3	17.0
COOK	15.2	15.6	10.7	19.0	15.1	13.9	15.8
Au89-736	14.2	15.1	10.1	17.0	15.2	13.0	14.9
Au89-1479	13.7	14.5	10.6	15.5	14.2	11.7	13.9
Au89-2256	14.4	14.8	10.4	17.0	15.6	11.6	14.7
Au89-2463	13.0	15.4	9.8	17.5	15.1	12.1	14.6
Au89-2465	15.8	16.5	11.3	18.0	15.6	13.2	15.8
Au89-2511	13.9	15.5	10.0	16.0	16.4	11.9	14.7
F88-8902	12.3	14.2	8.9	14.0	13.7	10.4	12.9
F89-394	12.0	14.8	10.8	12.5	12.8	10.2	12.4
F89-1018	11.7	13.9	9.1	15.0	12.2	9.6	12.5
F90-2556	9.9	11.3	17.7	11.5	10.2	8.6	10.3
F90-3307	13.7	17.2	10.5	16.0	15.8	12.0	14.9
F90-3530	14.0	14.9	9.7	12.5	13.5	10.5	13.1
F90-4727	14.2	14.2	10.7	13.0	14.1	10.9	13.3
F90-5057	11.8	13.7	11.0	11.0	12.5	9.6	11.7
F90-6218	13.3	12.3	9.0	13.0	12.5	11.2	12.5
F90-7284	10.3	12.6	9.5	14.5	12.1	9.9	11.9
G88-1336	12.9	13.2	9.4	13.5	12.4	9.5	12.3
G88-1700	14.5	15.2	9.2	14.5	13.1	11.0	13.7
G88-1830	13.2	15.0	11.4	14.5	13.5	11.8	13.6
G88-3129	13.9	15.4	9.9	17.5	15.3	11.9	14.8
G88-3315	14.5	16.1	11.5	15.0	13.4	11.5	14.1
G88-5234	10.2	11.9	8.9	12.0	10.8	10.3	11.0
SC89-527	11.4	13.8	9.0	15.5	13.7	10.9	13.1
SC89-551	12.2	16.2	9.6	15.0	14.1	11.4	13.8
SC89-579	12.1	12.8	8.9	13.0	12.6	10.0	12.1
SC89-1018	12.7	15.3	9.5	16.0	14.9	12.2	14.2
SC89-1109	14.7	16.1	13.3	17.5	15.0	12.9	15.2
SC89-1117	12.6	15.1	9.4	15.0	13.2	11.2	13.4
SC89-1226	14.4	16.4	10.4	16.0	15.7	12.2	14.9
TsB88-1216	11.0	13.4	8.7	13.0	12.2	10.8	12.1
TsB88-1858	15.9	18.0	10.6	19.0	16.9	14.5	16.9
TsB88-1949	14.9	20.0	12.1	21.5	19.5	13.5	17.9
TsB88-2434	17.5	18.5	12.3	17.0	16.2	14.1	16.7
TsB88-3422	16.3	15.4	10.3	15.5	14.8	12.8	14.9

† This location not included in overall mean.

TABLE 83 - PLANT HEIGHT FOR THE STRAINS IN PRELIMINARY GROUP VIII, 1992.

STRAIN	BEAU-MONT TX	BLACK-VILLE SC	GAINES-VILLE FL†	JAY FL	STONE-VILLE MS(B)	MEAN
PERRIN	33	35	33	23	37	32
COOK	29	33	34	18	37	29
Au89-736	33	35	32	23	37	32
Au89-1479	31	33	33	21	33	29
Au89-2256	27	34	27	21	36	30
Au89-2463	30	33	27	23	37	31
Au89-2465	34	37	31	21	41	33
Au89-2511	30	36	31	22	38	31
F88-8902	35	37	38	20	35	32
F89-394	38	38	46	21	39	34
F89-1018	33	37	38	24	37	32
F90-2556	38	38	39	22	35	33
F90-3307	39	40	45	20	42	35
F90-3530	36	38	40	20	38	33
F90-4727	30	35	41	22	38	31
F90-5057	32	30	38	22	34	29
F90-6218	30	34	38	19	35	29
F90-7284	27	31	33	18	31	27
G88-1336	29	33	31	21	40	31
G88-1700	32	31	32	22	36	30
G88-1830	29	35	29	19	38	30
G88-3129	31	33	29	21	36	30
G88-3315	27	30	26	22	35	28
G88-5234	28	30	26	21	33	28
SC89-527	34	35	37	22	40	33
SC89-551	29	39	27	22	36	32
SC89-579	33	39	35	22	41	34
SC89-1018	32	37	30	22	38	32
SC89-1109	37	43	40	21	50	38
SC89-1117	30	35	26	22	37	31
SC89-1226	29	33	28	21	38	30
TsB88-1216	34	34	34	22	35	31
TsB88-1858	29	29	31	23	40	30
TsB88-1949	31	32	36	17	33	28
TsB88-2434	34	28	26	21	32	29
TsB88-3422	25	27	34	20	36	27

† This location not included in overall mean.

TABLE 84 - LODGING SCORES FOR THE STRAINS IN PRELIMINARY GROUP VIII, 1992.

STRAIN	BEAU-MONT TX	BLACK-VILLE SC	GAINES-VILLE FL†	JAY FL	STONE-VILLE MS(B)	MEAN
PERRIN	1.0	1.0	1.0	1.7	2.5	1.5
COOK	1.0	1.0	1.8	2.2	2.5	1.7
Au89-736	1.0	1.0	1.3	1.2	2.0	1.3
Au89-1479	1.0	1.0	1.5	1.7	2.5	1.5
Au89-2256	1.0	1.0	1.0	1.2	2.0	1.3
Au89-2463	1.0	1.0	1.0	1.7	2.0	1.4
Au89-2465	1.0	1.0	1.3	1.7	2.5	1.5
Au89-2511	1.0	1.0	1.3	1.7	2.0	1.4
F88-8902	1.8	1.0	3.0	3.7	3.0	2.4
F89-394	1.8	2.5	3.0	2.7	3.0	2.5
F89-1018	1.5	3.0	3.0	2.2	3.0	2.4
F90-2556	1.3	2.0	2.3	2.7	2.0	2.0
F90-3307	1.3	2.5	3.0	3.1	2.5	2.3
F90-3530	2.3	2.5	3.5	2.7	3.5	2.7
F90-4727	1.3	1.0	2.8	2.7	3.0	2.0
F90-5057	1.0	1.0	2.0	3.2	3.0	2.0
F90-6218	1.0	1.0	2.3	3.7	3.0	2.2
F90-7284	1.0	1.0	2.5	3.2	2.5	1.9
G88-1336	1.0	1.0	1.0	2.2	2.0	1.5
G88-1700	1.0	1.0	1.3	2.2	2.5	1.7
G88-1830	1.0	1.0	1.3	3.2	2.5	1.9
G88-3129	1.0	1.0	1.0	1.7	2.0	1.4
G88-3315	1.0	1.0	1.0	1.2	2.0	1.3
G88-5234	1.0	1.0	1.0	1.7	2.0	1.4
SC89-527	1.0	1.0	1.8	2.2	3.0	1.8
SC89-551	1.0	1.0	1.0	1.2	3.0	1.5
SC89-579	1.0	1.0	1.5	1.7	2.0	1.4
SC89-1018	1.0	1.0	1.0	3.2	2.0	1.8
SC89-1109	1.0	1.5	1.3	2.2	3.0	1.9
SC89-1117	1.0	1.0	1.0	1.6	2.0	1.4
SC89-1226	1.0	1.0	1.0	1.2	2.0	1.3
TsB88-1216	1.0	1.0	1.8	1.7	3.0	1.7
TsB88-1858	1.0	1.0	1.0	1.2	2.0	1.3
TsB88-1949	1.0	1.0	1.8	1.7	3.0	1.7
TsB88-2434	1.0	1.0	1.0	1.2	2.0	1.3
TsB88-3422	1.0	1.0	1.8	1.7	2.0	1.4

† This location not included in overall mean.

TABLE 85 - SEED QUALITY SCORES FOR THE STRAINS IN PRELIMINARY GROUP VIII, 1992.

STRAIN	BEAU-MONT TX	GAINES-VILLE FL†	JAY FL	QUINCY FL	STONE-VILLE MS(B)	MEAN
PERRIN	1.5	1.5	3.0	1.0	2.5	2.0
COOK	1.0	2.3	2.5	1.0	2.0	1.6
Au89-736	1.3	1.8	3.0	1.3	2.0	1.9
Au89-1479	1.3	2.5	3.0	1.3	2.0	1.9
Au89-2256	1.5	2.3	3.0	1.0	2.0	1.9
Au89-2463	2.0	2.8	3.5	1.5	2.0	2.3
Au89-2465	1.5	2.3	3.5	1.0	2.0	2.0
Au89-2511	1.5	1.5	4.0	1.5	2.0	2.3
F88-8902	2.3	1.5	4.0	1.0	2.0	2.3
F89-394	1.0	1.0	3.5	1.3	2.0	1.9
F89-1018	1.5	4.0	3.5	1.8	2.0	2.2
F90-2556	1.5	1.8	3.5	1.8	2.0	2.2
F90-3307	1.8	1.3	3.0	1.0	2.0	1.9
F90-3530	2.5	1.8	3.0	1.0	2.0	2.1
F90-4727	2.5	2.8	3.5	1.0	2.0	2.3
F90-5057	2.8	2.0	4.0	1.0	2.0	2.4
F90-6218	2.8	2.5	4.0	1.0	2.0	2.4
F90-7284	1.8	1.8	3.5	1.0	2.0	2.1
G88-1336	1.5	1.8	4.0	1.5	2.0	2.3
G88-1700	1.3	2.3	4.0	1.8	2.0	2.3
G88-1830	1.3	2.0	4.0	1.5	2.0	2.2
G88-3129	1.0	2.8	3.0	1.5	2.0	1.9
G88-3315	1.0	1.8	3.5	1.8	2.0	2.1
G88-5234	1.3	2.0	4.0	1.8	2.0	2.3
SC89-527	1.0	1.3	3.5	1.0	2.0	1.9
SC89-551	1.5	1.5	3.0	1.0	2.0	1.9
SC89-579	1.3	2.3	4.0	1.0	2.0	2.1
SC89-1018	1.5	2.5	3.5	1.3	2.0	2.1
SC89-1109	2.8	1.8	3.0	2.0	2.0	2.4
SC89-1117	1.0	2.0	3.5	1.3	2.0	1.9
SC89-1226	1.3	1.8	3.0	1.8	2.0	2.0
TsB88-1216	1.0	2.3	4.0	1.0	2.0	2.0
TsB88-1858	1.3	2.0	3.5	1.5	2.0	2.1
TsB88-1949	1.5	2.8	2.5	1.5	2.0	1.9
TsB88-2434	1.5	1.8	3.5	1.5	2.0	2.1
TsB88-3422	1.5	2.3	3.0	1.8	2.0	2.1

† This location not included in overall mean.