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# PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 1983

G.V. Granade and W.C. Johnson<sup>1</sup>

## INTRODUCTION

Soybean variety tests are conducted annually by the Alabama Agricultural Experiment Station. Varieties in the test are produced by both public and private breeders. Maturity groups range from group IV, early, to group IX, late, table 1. The 10 locations used represent the major soil and climatic regions of Alabama. These locations are divided into logical soybean growing regions. The regions and locations are:

<u>Region</u>	<u>Location</u>
Northern	Belle Mina, Crossville
Central	Camden, Prattville, Shorter
Southern	Brewton, Headland, Monroeville
Black Belt Soils	Marion Junction
Baldwin-Mobile	Fairhope

A standard test is grown at each location. In addition, a date of planting test is grown in each region and preliminary tests are grown in the northern, central, and southern regions. The preliminary test contains experimental varieties and released varieties which are new to that particular region. These varieties will be placed in the standard test if their performance warrants.

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## EXPERIMENTAL PROCEDURES

Data were collected on seed yield, moisture, lodging, shattering, plant height, and maturity date. Plot yields were adjusted to 13 percent moisture and converted to bushels (60 pounds) per acre. Lodging was scored on a scale of 1 to 5 follows:

- 1 - almost all plants erect.
- 2 - either all plants leaning slightly (less than  $45^{\circ}$ ) or a few plants down.
- 3 - either all plants leaning moderately (approximately  $45^{\circ}$ ) or 25 to 50 percent of the plants down.
- 4 - either all plants leaning (more than  $45^{\circ}$ ) or 50 to 80 percent of the plants down.
- 5 - all plants down.

Shattering was rated 1 to 5 and was based on performance of the border row 14 days after maturity. A rating of 1 indicates no shattering and a rating of 5 is 20 percent or more shattering. Plant height was determined by measuring from the ground to the top of the plant at maturity. Maturity date was the day 95 percent of the pods were brown. Harvest was approximately 7 to 10 days later.

## RESULTS

Weather conditions were favorable at most test locations for soybean production in 1983. Yields ranged from an average of 48 bushels per acre at Marion Junction to 14 bushels per acre at Belle Mina. Yields were reduced at Belle Mina due to low rainfall during flowering and pod fill. A serious insect problem defoliated the plants late in the growing season at Prattville. An unidentified disease appeared late in Camden, while stem canker was a problem at Marion Junction and Shorter.

Also, soybeans showed symptoms of iron deficiency in the second planting date test on Sumter soil at Marion Junction. Yield and other pertinent data from 1983 standard and date of planting tests are presented in tables 3-9, and summaries of data for those varieties grown for more than 1 year are in tables 9-14. For the 1983 season, data have been combined into the northern, central, southern, Black Belt soils, and Baldwin-Mobile regions of the State to facilitate comparisons. Yields for preliminary tests are presented in table 15. Yields from the preliminary test at Camden are not reported due to excessive variation.

#### COMPARING VARIETIES

A least significant difference (L.S.D.) for seed yield was computed for each test in 1983 and is at the bottom of the yield column for each table. To compare any two varieties with a test, calculate the difference in the yield of the two varieties and compare this difference to the L.S.D. value. If this difference is less than the L.S.D. value, there is probably no real difference between the yields of the two varieties and the observed difference is due to experimental error. It is best to also look at the multi-year averages when comparing varieties. Usually at least 3 years of data are needed before the yield potential of a variety can be properly evaluated. For each location, the coefficient of variation (C.V.) is a measure of the variability in the test and is expressed as a percentage of the test mean.

## ACKNOWLEDGMENTS

The authors express their appreciation for cooperation and collection of data to the individuals at the following units of the Alabama Agricultural Experiment Station.

Black Belt Substation Marion Junction	L.A. Smith H.W. Grimes
Brewton Experiment Field Brewton	J.A. Pitts
Gulf Coast Substation Fairhope	E.L. Carden N.R. McDaniel
Lower Coastal Plain Substation Camden	J.A. Little D.P. Delaney
Prattville Experiment Field Prattville	D.P. Moore
Sand Mountain Substation Crossville	J.T. Eason M.E. Ruf
E.V. Smith Research Center Shorter	J.R. Akridge
Tennessee Valley Substation Belle Mina	W.B. Webster V.H. Calvert, II
Wiregrass Substation Headland	J.G. Starling H.W. Ivey

Appreciation is also expressed to Sally Bagwell, Department of Research Data Analysis, and Dianna L. Shellman, Department of Agronomy and Soils, for their assistance.

Special appreciation is expressed to W.H. Hearn and C.D. Jacks, Department of Research Data Analysis, for updating and programming the computer for printing the tables for the variety report. Also, special appreciation is expressed to Barbara Cosper, Research Associate, Department of Agronomy and Soils, William Gazaway, Extension Plant

Pathologist-Nematologist, and John Henderson, Extension Agronomist-Soybeans, David Weaver, Assistant Professor, Department of Agronomy and Soils, and Paul Backman, Professor, Department of Botany, Plant Pathology, and Microbiology for their research data and assistance in preparing the stem canker report.

Special appreciation is also expressed to the following seed companies for their financial support of the variety testing program:

Asgrow Seed Company  
W.E. Dimond  
Kalamazoo, Michigan

AgraTech Seeds Inc.  
Bob G. Jones  
Ashburn, Georgia

Coker's Pedigreed Seed Co.  
J.J. Stanton, Jr.  
Hartsville, South Carolina

Delta and Pine Land Co.  
Harry B. Collins  
Scott, Mississippi

Eagle Seeds  
George A. Berger  
Weiner, Arkansas

FFR Cooperative  
Michael L. May  
Bells, Tennessee

Helena Chemical Co.  
Bill Washburn  
Memphis, Tennessee

Jacob Hartz Seed Co., Inc.  
Curtis Williams  
Stuttgart, Arkansas

NAPB  
Jimmy L. Barker  
West Memphis, Arkansas

Ring Around Products, Inc.  
J.A. Mullins  
Dallas, Texas

Terral-Norris Seed Co, Inc.  
Ronald E. Hagar  
Lake Providence, Louisiana

Table 1. Entries and Sources for 1983

Source	Brand-variety
AgraTech Seeds, Inc. Ashburn, Georgia	AgraTech 67 GK 21 GK 120
Alabama Crop Improvement Association Auburn, Alabama	Essex Foster Kirby Lee 74 Ransom
Asgrow Seed Company Kalamazoo, Michigan	A 5474 A 5618 A 6520 (X6420) A 7372
Coker's Pedigreed Seed Company Hartsville, South Carolina	Coker 156 Coker 237 Coker 317 Coker 338 Coker 355 Coker 368 Coker 488 Coker 79R-5 (Experimental) Coker 80-764 (Experimental) Coker 80-795 (Experimental) Coker 80-817 (Experimental) Coker 80-846 (Experimental) Coker 80-870 (Experimental) Coker 80-917 (Experimental) Coker 80-926 (Experimental)
Delta and Pine Land Company Scott, Mississippi	Deltapine 105 Deltapine 246 Deltapine 345 Deltapine 417 Deltapine 497 Deltapine 506
Delta Branch Experiment Station Stoneville, Mississippi	Bedford
Edisto Experiment Station Blackville, South Carolina	Govan
FFR Cooperative Bells, Tennessee	FFR 559 FFR 560 FFR 668

(continued on following page)

Table 1. Entries and Sources for 1983

Source	Brand-variety
Georgia Seed Development Commission Athens, Georgia	Cobb Duocrop GaSoy 17 Hutton Wright
Helena Chemical Company Memphis, Tennessee	HB-007-83-5 (Experimental) HB-468-01-6 (Experimental) HB-507-01-7 (Experimental) Shiloh Sumter Wilstar 550 Wilstar 790
Jacob Hartz Seed Company, Inc. Stuttgart, Arkansas	H78-160 (Experimental) H78-168 (Experimental) H79-7817 (Experimental) H79-13403 (Experimental) Hartz 5171 (H78-766) Hartz 5252 (H76-502) Hartz 5370 (H78-143) Hartz 7126 (H76-672-3A)
Mississippi Foundation Seed Stocks Mississippi State, Mississippi	Forrest Tracy M
Missouri Crop Improvement Association Columbia, Missouri	Bradley
Moorer Seed Farm Hardaway, Alabama	Braxton Davis
North American Plant Breeders West Memphis, Arkansas	Agripro AP 70 Agripro AP 71 NAPB 517 NAPB 611 NAPB 705 NS-27-79 (Experimental) NS-340-79 (Experimental)
North Carolina State University Raleigh, North Carolina	Johnston N77-114 (Experimental)
Northrup King Co. Columbus, Mississippi	McNair 700 McNair 770 S69-96 S72-60

(continued on following page)

Table 1. Entries and Sources for 1983

Source	Brand-variety
Pioneer Hi-Bred International, Inc. Tipton, Indiana	Pioneer 5482 Pioneer 9561
Quality Seed and Fertilizer Thompson Station, Alabama	Centennial
Ring Around Products, Inc. Dallas, Texas	Mitchell 450 RA 480 RA 502 RA 580 RA 604 RA 606 RA 680 RA 702 RA 801
Rio Farms Edcouch, Texas	Jupiter R Santa Rosa R
Riverside/Terra Memphis, Tennessee	Yield King 503 Yield King 563 Yield King 593 Yield King 613 Yield King 713
Terral-Norris Seed Company, Inc. Lake Providence, Louisiana	Terra-Vig 505 Terra-Vig 606 Terra-Vig 708 Terra-Vig 808
Texas Crop Improvement Association College Station, Texas	Dowling
University of Arkansas Fayetteville, Arkansas	Jeff
Virginia Crop Improvement Association Holley, Virginia	Bay

Table 2. Cultural Practices for Soybean Variety Tests in 1983

Location	Type test	Date planted	Herbicides used	Fertilizer applied
Belle Mina	Standard	May 11	Treflan, Dyanap	2 tons lime/acre
	Preliminary	May 11	Treflan, Dyanap	2 tons lime/acre
Crossville	Standard	May 10	Surflan, Dyanap	250 lb. 0-24-24/acre
		June 16	Surflan, Dyanap	200 lb. 0-24-24/acre
Prattville	Standard	May 9	Treflan	None recommended by soil test.
		June 17	Treflan	None recommended by soil test
Shorter	Standard	May 25	Treflan, Vernam	250 lb. 3-18-36 + sulfur/acre
Camden	Standard	May 25	Treflan, Vernam	300 lb. 0-20-20/acre 25 lb. sulfur/acre 9 lb ZnSO <sub>4</sub> /acre
	Preliminary	May 27	Treflan, Vernam; Toxaphene	300 lb. 0-20-20/acre  25 lb. sulfur/acre 9 lb. ZnSO <sub>4</sub> /acre
Headland	Standard	May 18	Balan, Dual	None recommended by soil test
Monroeville	Preliminary	May 31	None	1 ton lime/acre
Brewton	Standard	June 10	Paraquat	None recommended by soil test
		July 7	None	300 lb. 0-20-20/acre
Marion Junction	Standard (Sumter)	May 26	Treflan	250 lb. 0-30-15/acre
		July 11	Treflan	250 lb. 0-30-15/acre
	Standard (Vaiden)	May 26	Treflan	200 lb. 0-20-20/acre
		July 11	Treflan	200 lb. 0-20-20/acre
Fairhope	Standard	June 13	Attac	300 lb. 0-14-14/acre
		August 8	Lasso, Fusilade	300 lb. 0-14-14/acre

TABLE 3. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1983

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE								
	BELL		CROSSVILLE	LODGING		SHATTERING		PLANT HEIGHT		MATURITY DATE		
	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.	DATE 1	DATE 2	
<b>EARLY</b>												
A 5474	12.7	24.9	27.6	1.9	1.3	1.0	1.0	33	26	9-22	10-19	
A 5618	15.2	26.4	29.9	1.4	1.0	1.7	1.0	33	26	9-27	10-22	
A 5939	11.8	25.0	28.6	2.0	1.8	1.5	1.0	36	27	10-1	10-19	
BEDFORD	10.7	28.1	26.9	2.3	2.3	1.0	1.0	37	30	9-30	10-20	
COKER 355	12.9	26.6	29.4	1.8	2.0	1.0	1.0	34	27	10-2	10-21	
COKER 79R-5	14.1	28.6	25.4	1.1	1.0	1.3	1.0	27	21	9-18	10-18	
COKER 84-764	16.9	28.5	32.1	1.6	1.5	1.5	1.0	31	26	10-7	10-23	
DELTAPINE 105	19.8	32.3	31.4	2.4	2.3	1.0	1.0	38	29	10-1	10-22	
DELTAPINE 345	14.3	28.4	31.6	1.5	2.5	1.0	1.0	35	29	10-2	10-15	
ESSEX	16.7	24.7	27.0	1.4	1.0	2.0	1.0	27	23	9-18	10-23	
FOPREST	11.5	30.8	30.5	1.8	2.3	1.3	1.0	31	28	9-26	10-20	
HARTZ 5171	13.3	33.0	33.3	2.3	3.8	1.0	1.0	37	29	10-6	10-28	
HARTZ 5370	16.5	30.2	31.9	2.3	1.8	1.5	1.0	36	29	10-2	10-19	
MITCHELL 450	11.3	15.9	25.4	1.1	1.0	2.7	1.8	31	23	9-21	10-24	
NA 480	14.2	21.0	28.3	1.4	1.0	1.0	1.0	32	23	9-20	10-17	
RA 502	12.2	32.1	33.4	1.9	3.0	1.0	1.0	36	29	9-30	10-19	
SHILOH	13.9	26.9	28.7	1.9	2.0	1.0	1.0	36	28	10-7	10-17	
TEPRA-VIG 505	16.9	31.2	27.8	2.8	2.3	1.5	1.0	35	28	10-3	10-18	
WILSTAR 550	13.2	29.6	31.2	2.4	2.3	1.0	1.0	33	26	10-1	10-18	
<b>MEDIUM</b>												
A 6520	13.3	32.3	32.7	1.6	1.8	1.0	1.0	33	24	10-12	10-24	
CENTENNIAL	11.9	33.6	35.0	2.0	2.0	1.0	1.0	35	30	10-15	10-29	
COKER 156	16.8	35.4	34.0	1.5	1.0	1.0	1.0	35	26	10-14	10-27	
DAVIS	10.3	27.4	36.9	1.9	1.3	1.0	1.0	34	27	10-9	10-28	
DELTAPINE 246	11.8	27.5	33.1	1.6	3.8	1.0	1.0	34	27	10-10	10-26	
HARTZ 6383	13.1	35.7	34.9	2.4	3.3	1.0	1.0	37	31	10-14	10-31	
JEFF	12.3	32.4	34.7	2.4	3.0	1.0	1.0	36	31	10-14	10-28	
LEE 74	14.1	30.2	31.5	2.1	3.5	1.0	1.0	34	28	10-12	10-27	
NAPB 611	14.3	35.7	32.9	2.4	3.5	1.0	1.0	34	27	10-14	10-30	
RA 604	11.0	35.4	36.5	1.4	1.3	1.0	1.0	35	27	10-9	10-27	
RA 606	12.5	30.0	34.3	2.5	2.8	1.3	1.5	37	32	10-12	10-29	
SUNTER	13.5	29.7	31.2	2.4	1.3	1.5	1.0	30	26	10-9	10-21	
S64-96	16.8	34.9	36.7	2.4	2.3	1.0	1.0	35	30	10-14	10-30	
TEPRA-VIG 606	13.0	31.6	29.5	2.0	1.8	1.0	1.0	34	28	10-13	10-29	
TRACY 4	14.5	30.6	28.5	2.1	2.8	1.0	1.0	32	28	10-14	10-30	

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TABLE 3. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1983

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE								
	BELE	CROSSVILLE		LOGGING		SHATTERING		PLANT HEIGHT		MATURITY DATE		
	BU.	BU.	BU.	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	
LATE												
MAXIM	13.7	32.2	30.6	1.6	1.0	1.0	1.0	35	31	10-15	10-31	
COKEP 237	11.6	35.9	39.3	1.1	1.0	1.0	1.0	32	25	10-15	10-30	
COKEP 317	11.3	32.2	34.1	1.9	1.5	1.0	1.0	36	28	10-17	11-1	
HW-507-01-7	13.5	32.4	35.6	1.6	1.0	2.0	1.0	33	25	10-13	10-30	
KA 702	11.4	35.7	39.8	2.5	2.0	1.0	1.0	33	28	10-16	10-31	
WILSTAR 790	12.9	32.1	36.0	1.8	1.0	3.0	1.0	36	29	10-14	10-31	
TEST MEANS	13.6	30.2	32.2	1.9	2.0	1.6	1.0	34	27			
L.S.D. (1.05)	2.9	5.9	5.2									
C.V. (%)	15.3	14.0	11.6									

EARLY = MATURITY GROUPS IV AND V; MEDIUM = MATURITY GROUP VI; LATE = MATURITY GROUP VII.

TABLE 4. PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 1981

BRAND-VARIETY	YIELD PER ACRE				REGIONAL AVERAGE								
	CAMDEN	PRAIRIEVILLE		SIMPSON	LOGGING		SPATTERING		PLANT HEIGHT		MATURITY DATE		
		BU.	DATE 1		DATE 2	BU.	DATE 1	DATE 2	DATE 1	DATE 2	IN.	IN.	DATE 1
<b>EARLY</b>													
DELTAPINE 195	21.7	31.4	27.7	17.0	1.0	1.3	1.0	1.3	29	29	9-23	10-5	
DELTAPINE 345	18.4	27.6	23.8	12.3	1.0	1.5	1.0	1.0	28	28	9-24	10-6	
FORREST	16.4	28.5	24.5	13.5	1.0	1.5	1.0	1.0	25	27	9-21	10-7	
HARTZ 5370	20.4	29.2	24.8	16.7	1.0	1.3	1.0	1.3	27	28	9-26	10-6	
RA 480	13.0	17.4	24.7	6.7	1.0	2.3	1.0	1.0	31	31	9-15	9-29	
TERRA-VIG 505	17.4	28.4	22.1	17.1	1.0	2.0	1.1	1.8	28	28	9-25	10-7	
WILSTAR 550	15.0	25.9	27.6	13.2	1.1	1.0	1.0	1.0	25	28	9-23	10-5	
<b>MEDIUM</b>													
AGRATECH 67	26.2	29.8	30.1	24.9	1.7	1.0	1.0	1.0	31	36	10-19	10-15	
CENTENNIAL	28.4	25.0	21.6	25.9	1.0	1.0	1.0	1.3	31	31	10-12	10-15	
COKEE 156	27.2	30.9	27.3	27.3	1.0	1.0	1.0	1.0	28	28	10-13	10-15	
DAVIS	21.2	25.1	25.6	26.4	1.0	1.5	1.3	1.8	32	28	10-7	10-15	
JEFF	14.2	23.7	27.5	14.9	1.0	1.0	1.4	1.3	31	33	10-9	10-16	
RA 604	10.2	27.2	28.4	8.6	1.0	1.5	1.0	1.0	29	30	9-30	10-10	
RA 680	28.4	23.1	24.9	26.7	1.0	1.0	1.1	1.0	32	33	10-11	10-15	
S64-96	22.7	24.7	25.4	25.6	1.1	1.0	1.0	1.0	29	33	10-9	10-16	
TERRA-VIG 606	26.4	27.4	26.3	22.0	1.0	1.0	1.1	1.3	30	31	10-12	10-16	
TRACY M	22.9	28.1	23.2	22.4	1.0	1.3	1.3	1.5	29	30	10-10	10-15	

CONTINUED ON THE FOLLOWING PAGE

TABLE 4. PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 1983

BRAND-VARIETY	YIELD PER ACRE				REGIONAL AVERAGE				PLANT HEIGHT		MATURITY DATE	
	CAM-	PRALIVILLE		SIMR-	LOGGINS		SWAIBRING		DATE 1	DATE 2	DATE 1	DATE 2
	YEN	DATE 1	DATE 2	YEN	DATE 1	DATE 2	DATE 1	DATE 2	IN.	IN.	DATE 1	DATE 2
	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE				
LATE												
AGRIPRO AP 70	27.7	32.8	33.7	24.9	1.0	1.0	1.0	1.0	36	37	10-14	10-18
AGRIPRO AP 71	25.7	32.3	28.7	24.4	1.3	1.5	1.0	1.0	30	32	10-17	10-17
BRAXTON	32.6	38.1	34.3	31.3	1.0	1.3	1.0	1.0	33	33	10-17	10-19
COKEP 237	21.4	25.3	31.8	20.6	1.0	1.0	1.0	1.0	28	28	10-14	10-17
COKEP 317	26.7	25.3	25.5	25.0	1.1	2.0	1.0	1.0	33	31	10-15	10-20
COKEP 368	24.9	29.2	27.3	26.3	1.1	1.3	1.0	1.0	34	34	10-18	10-19
COKEP 488	27.2	32.6	26.1	28.3	1.0	1.8	1.0	1.0	35	35	10-19	10-20
DELTA PINN 497	28.7	26.6	33.3	29.4	1.2	1.5	1.0	1.0	36	35	10-17	10-18
DUCROPP	16.2	25.3	23.9	14.4	1.3	2.0	1.0	1.5	38	40	10-7	10-13
FOSTER	22.4	28.4	26.7	22.7	1.3	2.0	1.0	1.0	33	34	10-15	10-19
GASOY 17	27.2	31.4	36.2	25.4	1.3	1.5	1.0	1.0	34	32	10-14	10-19
GLVAN	23.9	29.1	26.8	26.8	1.0	1.0	1.0	1.0	31	33	10-13	10-16
HARTZ 7126	25.2	30.6	28.5	23.7	1.1	2.0	1.0	1.0	32	36	10-13	10-17
IND-507-D1-7	28.2	31.3	31.5	23.5	1.0	1.3	1.1	1.0	29	29	10-14	10-17
INDIUM	11.5	23.8	28.3	10.4	1.1	2.8	1.0	1.0	31	33	10-14	10-19
KIRBY	22.2	27.9	29.8	24.8	1.0	1.0	1.0	1.0	34	34	10-19	10-21
MENARD 770	24.9	28.4	27.0	25.6	1.0	1.5	1.2	1.0	30	29	10-17	10-16
NAPB 705	26.7	31.5	27.9	26.3	1.2	2.8	1.0	1.0	31	32	10-16	10-19
RA 702	18.4	24.6	31.2	16.3	1.0	1.8	1.1	1.0	30	31	10-13	10-17
RA 801	11.5	24.4	28.8	12.8	1.1	2.3	1.0	1.0	33	34	10-13	10-19
RANSOM	27.4	26.2	30.0	26.3	1.0	1.8	1.0	1.0	30	32	10-14	10-17
TERRA-VIG 708	20.2	26.8	28.0	15.8	1.0	1.5	1.0	1.0	30	32	10-12	10-17
WRIGHT	28.9	31.0	30.4	26.4	1.1	1.8	1.0	1.0	32	33	10-13	10-17
TEST MEANS	22.6	28.1	27.8	21.3	1.1	1.5	1.0	1.1	31	32		
L.S.D. (.05)	8.1	5.4	4.6	8.9								
C.V. (%)	25.5	13.6	11.9	29.8								

EARLY = MATURITY GROUPS IV AND V; MEDIUM = MATURITY GROUP VII; LATE = MATURITY GROUPS VIII AND VIII.

TABLE 5. PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 1983

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE							
	BREXTON		HEAD- LAND	LUDGING		SHAIJERING		PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2		DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU <sub>a</sub>	BU <sub>a</sub>	BU <sub>a</sub>	SCORE	SCORE	SCORE	SCORE	IN <sub>a</sub>	IN <sub>a</sub>		
<b>EARLY</b>											
AGRATECH 67	42.3	19.8	33.9	0.8	1.0	0.5	1.0	29	21	-	-
CENTENNIAL	40.6	21.2	34.4	0.9	1.0	0.5	1.0	31	18	-	-
COKER 156	46.3	6.9	33.9	0.5	1.0	0.5	1.0	26	13	-	-
DAVIS	48.5	23.8	27.5	1.0	1.0	0.5	1.5	31	19	-	-
DELTAPINE 105	41.6	17.8	27.1	0.8	1.0	0.5	1.0	28	19	-	-
DELTAPINE 345	36.8	14.1	25.7	0.5	1.0	0.5	1.0	30	19	-	-
DELTAPINE 506	37.3	17.6	27.1	0.9	1.0	0.5	1.0	31	20	-	-
FURREST	29.3	14.4	25.8	0.5	1.0	0.5	1.0	23	17	-	-
JEFF	42.0	20.7	29.5	0.9	1.0	0.5	1.0	30	20	-	-
NAPH 611	27.9	13.6	32.9	0.5	1.0	0.5	1.0	22	17	-	-
PA 636	45.2	17.6	24.9	0.6	1.0	0.5	1.0	29	19	-	-
PA 680	44.6	22.7	32.6	0.8	1.0	0.5	1.0	32	19	-	-
TEPRA-VIG 606	44.6	12.7	25.3	0.8	1.0	0.6	1.0	29	17	-	-
TRACY H	41.0	19.7	25.8	0.8	1.3	0.5	2.3	30	20	-	-
<b>MEDIUM</b>											
A 7372	44.6	25.7	29.1	0.5	1.0	0.5	1.0	26	18	-	-
AGRIPRO AP 70	46.0	18.2	33.1	0.8	1.0	0.5	1.0	34	20	-	-
BREXTON	53.5	22.9	30.8	0.8	1.0	0.5	1.0	35	21	-	-
COKER 317	40.5	21.4	30.0	1.5	1.5	0.5	1.0	33	21	-	-
DELTAPINE 417	50.6	18.5	28.2	0.9	1.0	0.5	1.0	37	21	-	-
DUCCROIP	37.9	23.5	19.1	2.0	1.0	0.6	1.0	44	22	-	-
GASOY 17	50.7	25.5	33.7	1.0	1.0	0.5	1.0	34	21	-	-
GK 120	46.2	19.5	32.6	0.6	1.0	0.5	1.0	31	18	-	-
HARTZ 7126	41.5	21.7	31.3	1.4	1.0	0.5	1.0	32	19	-	-
MCAIR 700	56.0	23.4	29.3	0.6	1.0	0.5	1.0	28	19	-	-
MCAIR 710	46.8	26.2	29.7	1.0	1.0	0.5	1.0	28	20	-	-
NAPH 705	44.6	22.3	33.3	1.3	1.0	0.5	1.0	32	20	-	-
PA 702	49.1	22.5	34.0	0.5	1.0	0.5	1.0	30	18	-	-
RANSIM	49.4	20.9	27.3	0.9	1.0	0.5	1.0	32	19	-	-
S72-60	49.4	25.2	30.4	1.8	1.3	0.5	1.3	33	22	-	-
TEPRA-VIG 700	44.0	22.3	25.1	0.8	1.0	0.5	1.0	29	22	-	-
WILSTAR 790	46.3	24.6	30.2	1.0	1.0	0.5	1.0	33	21	-	-
WRIGHT	46.8	21.8	30.9	1.1	1.0	0.5	1.0	30	20	-	-

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TABLE 5. PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 1963

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE							
	GREEN		HEAD	LOGGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2	LAND	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
LATE											
COBB	53.2	37.9	32.8	1.4	1.0	0.5	1.0	30	24	-	-
CUKER 338	53.0	19.2	27.4	1.4	1.3	0.5	1.0	35	21	-	-
CUKER 360	46.6	26.3	32.2	1.0	1.3	0.5	1.0	34	22	-	-
DEALING	47.3	27.4	36.2	1.3	1.3	0.5	1.0	39	22	-	-
FOSTER	49.2	20.8	36.4	1.0	1.0	0.5	1.0	33	20	-	-
JHINSTON	53.0	19.7	32.9	0.8	1.0	0.5	1.0	29	17	-	-
KIRBY	45.7	21.3	30.8	0.9	1.3	0.5	1.0	33	24	-	-
NA 801	37.2	22.2	29.3	1.3	1.3	0.5	1.0	34	23	-	-
TEST MEANS	44.9	21.1	30.1	0.9	1.1	0.5	1.0	31	20		
L.S.D. (1.05)	8.5	7.0	5.1								
C.V. (%)	13.5	23.6	12.0								

EARLY = MATURITY GROUPS V AND VI; MEDIUM = MATURITY GROUP VII; LATE = MATURITY GROUP VIII.

TABLE 6. PERFORMANCE OF SOYBEAN VARIETIES ON SANDY SOIL, HATION JUNCTION, ALABAMA, 1983

BRAND-VARIETY	YIELD PER ACRE		LOGGING		SWAITERING		REGIONAL AVERAGE		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
<b>EARLY</b>										
RAY	24.4	10.3	1.0	1.0	1.3	1.0	24	15	9-16	10-23
REDFORD	16.6	8.8	1.0	1.0	1.0	1.0	27	16	10-3	10-25
DELTAPINE 105	23.8	11.0	1.0	1.0	1.0	1.0	23	17	9-22	10-19
DELTAPINE 345	23.5	12.4	1.0	1.0	1.0	1.0	23	17	9-30	10-16
ESSFX	19.6	7.5	1.0	1.0	1.0	1.0	16	13	9-8	10-20
FOPREST	15.2	6.4	1.0	1.0	1.0	1.0	19	13	9-27	10-29
RA 48J	22.5	6.9	1.3	1.0	1.0	1.0	30	15	9-16	10-24
TERRA-VIG 505	23.0	10.5	1.0	1.0	1.0	1.0	23	15	9-29	10-27
<b>MEDIUM</b>										
A 6520	18.3	9.3	1.0	1.0	1.0	1.0	22	14	10-17	10-25
AGRATECH 67	19.6	10.5	1.0	1.0	1.0	1.0	27	18	10-12	10-21
CENTENNIAL	17.9	9.2	1.0	1.0	1.0	1.0	27	17	10-20	11-7
COKER 156	19.6	12.1	1.0	1.0	1.0	1.0	22	14	10-16	10-19
DAVIS	26.7	14.0	1.0	1.0	1.0	1.0	31	17	10-17	10-21
DELTAPINE 506	24.9	12.2	1.0	1.0	1.0	1.0	29	19	10-17	10-22
JEFF	12.4	12.5	1.3	1.0	1.0	1.0	25	18	10-13	10-25
LEE 74	18.3	11.5	1.0	1.0	1.0	1.0	21	16	10-19	10-28
RA 604	12.5	14.4	1.0	1.0	1.0	1.0	22	18	10-2	10-30
RA 680	17.7	12.3	1.0	1.0	1.0	1.0	26	18	10-20	10-28
TERRA-VIG 606	22.7	14.0	1.0	1.0	1.0	1.0	28	17	10-19	10-27
TRACY H	18.5	11.0	1.0	1.0	1.0	1.0	25	16	11-1	10-26

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TABLE 6. PERFORMANCE OF SOYBEAN VARIETIES ON SUIHER SOIL, MARION JUNCTION, ALABAMA, 1981

GRAND-VARIETY	YIELD PER ACRE		LOGGING		SMATTERING		REGIONAL AVERAGE		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
LATE										
AGRIPRO AP 70	26.8	12.1	1.5	1.0	1.0	1.0	35	18	10-19	11-2
BRAXTON	23.8	16.0	1.0	1.0	1.0	1.0	32	19	10-20	10-31
CFBB	22.4	19.3	1.0	1.0	1.0	1.0	34	23	10-20	10-31
COKEP 237	14.6	13.3	1.0	1.0	1.0	1.0	24	16	10-13	10-20
COKEP 317	18.1	10.7	1.0	1.0	1.0	1.0	31	18	10-19	11-12
COKEP 488	18.8	13.5	1.5	1.0	1.0	1.0	32	18	10-22	11-6
DELTAPINE 497	19.2	12.3	1.0	1.0	1.0	1.0	28	16	10-25	11-11
DUNCROP	19.9	10.0	1.3	1.0	1.0	1.0	38	16	10-18	11-14
FQSTFA	15.5	9.3	1.3	1.0	1.0	1.0	28	15	10-27	11-13
GASBY 17	22.6	8.9	1.3	1.0	1.0	1.0	36	17	10-19	11-7
GOVAN	16.2	11.4	1.0	1.0	1.0	1.0	25	19	10-20	11-5
HAFTZ 7126	15.4	5.1	1.0	1.0	1.0	1.0	28	14	10-20	11-11
HR-507-D1-7	25.9	9.8	1.0	1.0	1.0	1.0	27	14	10-18	10-31
INITION	6.3	19.9	1.0	1.0	1.0	1.0	29	20	10-10	10-22
KIPBY	13.7	5.4	1.0	1.0	1.0	1.0	25	15	10-28	11-12
RA 702	12.3	9.0	1.0	1.0	1.0	1.0	27	15	10-14	11-6
RA 801	7.9	15.0	1.0	1.0	1.0	1.0	28	20	10-13	11-6
RANSOM	25.4	10.2	1.0	1.0	1.0	1.0	26	16	10-19	11-5
WILSTAR 790	17.9	14.7	1.0	1.0	1.0	1.0	29	19	10-18	11-7
WRIGHT	27.2	11.2	1.0	1.3	1.0	1.0	32	18	10-21	11-4
TEST MEANS	19.4	11.3	1.1	1.0	1.0	1.0	27	17		
L.S.D. (0.05)	5.4	5.7								
C.V. (%)	28.4	28.1								

EARLY = MATURITY GROUPS IV AND V; MEDIUM = MATURITY GROUP VI; LATE = MATURITY GROUP VII AND VIII.

TABLE 7. PERFORMANCE OF SOYBEAN VARIETIES ON VALDEN SOIL, MARION JUNCTION, ALABAMA, 1983

BRAND-VARIETY	YIELD PER ACRE		LOGGING		SHATTERING		REGIONAL AVERAGE		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
<b>EARLY</b>										
HAY	54.1	33.1	1.0	1.0	1.0	1.0	27	20	9-25	10-17
BEDFORD	49.7	32.7	1.0	1.0	1.0	1.0	31	23	10-4	10-19
DELTAPINE 105	50.3	36.5	1.0	1.0	1.0	1.0	28	27	10-4	10-19
DELTAPINE 345	48.1	26.7	1.0	1.0	1.0	1.0	26	20	10-10	10-18
ESSEX	46.0	27.1	1.0	1.0	1.0	1.0	17	16	9-30	10-19
FORREST	51.5	29.6	1.0	1.0	1.0	1.0	24	20	10-5	10-17
RA 480	47.1	35.3	1.5	1.0	1.0	1.0	38	25	9-26	10-18
TERRA-VIG 505	57.0	28.2	1.0	1.0	1.0	1.0	27	21	10-5	10-18
<b>MEDIUM</b>										
A 6520	51.2	32.0	1.0	1.0	1.0	1.0	27	20	10-12	10-19
AGRATECH 67	53.1	33.1	2.5	1.0	1.0	1.0	35	23	10-15	10-22
CENTENNIAL	53.4	37.9	1.3	1.3	1.0	1.0	34	24	10-16	10-24
CDKER 156	56.9	34.5	1.0	1.0	1.0	1.0	32	21	10-17	10-26
DAVIS	50.6	36.0	1.3	1.3	1.0	1.0	35	21	10-19	10-28
DELTAPINE 506	50.6	34.6	1.3	1.3	1.0	1.0	33	23	10-20	10-26
JEFF	45.1	35.4	2.0	1.3	1.0	1.0	35	24	10-16	10-27
LEE 74	45.2	34.4	1.0	1.0	1.0	1.0	30	20	10-17	10-26
RA 604	36.3	34.5	1.0	1.0	1.0	1.0	29	22	10-10	10-23
RA 680	52.1	37.2	1.0	1.0	1.0	1.0	35	24	10-18	10-25
TERRA-VIG 606	59.3	34.5	1.0	1.0	1.0	1.0	34	23	10-18	10-26
TRACY M	53.1	34.3	1.0	1.0	1.0	1.0	29	21	10-14	10-20

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TABLE 7. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 1983

BRAND-VARIETY	YIELD PER ACRE		REGIONAL AVERAGE							
			LONGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
LATE										
AGRIPRO AP 70	48.2	40.1	1.3	1.0	1.0	1.0	44	24	10-20	11-1
BRAXTON	55.2	39.6	1.3	1.0	1.0	1.0	39	26	10-22	11-2
COBB	45.8	43.6	2.5	1.0	1.0	1.0	46	30	11-2	11-7
COKER 237	48.7	37.5	1.0	1.0	1.0	1.0	34	20	10-17	10-26
COKER 317	43.4	34.3	2.3	1.0	1.0	1.0	39	24	10-19	10-31
COKER 488	46.8	40.0	1.5	1.0	1.0	1.0	41	29	10-22	11-3
DELTAPINE 497	54.8	36.7	1.3	1.0	1.0	1.0	38	22	10-19	11-3
DUNCROF	41.0	31.5	2.0	1.0	1.0	1.0	48	28	10-19	11-4
FOSTER	46.3	38.3	3.0	1.0	1.0	1.0	39	28	10-20	11-2
GASOY 17	47.9	40.9	2.3	1.0	1.0	1.0	40	25	10-20	10-29
GOVAN	48.7	40.1	1.0	1.0	1.0	1.0	37	25	10-20	10-28
HARTZ 7126	50.4	43.5	1.5	1.0	1.0	1.0	37	25	10-21	11-3
HB-507-D1-7	56.5	40.5	1.0	1.0	1.0	1.0	35	19	10-18	10-26
HUTTON	19.9	39.2	2.5	1.0	1.0	1.0	35	25	10-10	11-1
KIRBY	45.3	37.8	1.3	1.0	1.0	1.0	41	25	10-25	11-3
RA 702	29.6	36.9	1.0	1.0	1.0	1.0	33	22	10-13	10-29
RA 801	20.1	39.5	1.8	1.0	1.0	1.0	36	27	10-11	11-1
RANSOM	54.0	40.5	1.0	1.0	1.0	1.0	32	23	10-20	11-2
WILSTAR 790	31.2	39.3	1.5	1.0	1.0	1.0	38	24	10-17	11-2
WRIGHT	54.3	41.8	2.3	1.0	1.0	1.0	37	25	10-21	10-29
TEST MEANS	47.7	36.2	1.4	1.0	1.0	1.0	34	23		
L.S.D. (.05)	6.4	13.2								
C.V. (%)	19.2	11.5								

EARLY = MATURITY GROUPS IV AND V; MEDIUM = MATURITY GROUP VI; LATE = MATURITY GROUP VII AND VIII.

TABLE 8. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 1983

BRAND-VARIETY	YIELD PER ACRE		REGIONAL AVERAGE							
	DATE 1 DATE 2		LOGGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	BU.	BU.	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
			SCORE	SCORE	SCORE	SCORE	IN.	IN.		
<b>EARLY</b>										
AGRATECH 67	24.5	-	0.0	-	0.0	-	24	-	10-16	-
BECFORD	29.7	-	0.0	-	0.0	-	27	-	10-4	-
CENTENNIAL	42.1	-	0.0	-	0.0	-	30	-	10-17	-
COKER 156	41.3	-	0.0	-	0.0	-	26	-	10-16	-
DAVIS	45.6	-	0.3	-	0.0	-	29	-	10-16	-
DELTAPINE 105	44.2	-	0.0	-	0.0	-	27	-	10-5	-
DELTAPINE 506	46.7	-	0.0	-	0.0	-	30	-	10-19	-
FOPREST	24.0	-	0.0	-	0.0	-	20	-	10-3	-
JEFF	45.2	-	0.5	-	0.0	-	31	-	10-17	-
S69-96	50.2	-	0.3	-	0.0	-	29	-	10-19	-
TRACY 4	42.8	-	0.3	-	0.0	-	30	-	8-20	-
<b>MEDIUM</b>										
A 7372	48.9	26.0	0.0	0.0	0.0	0.0	27	19	10-21	11-8
AGHIPRO AP 70	51.1	28.1	0.0	0.0	0.0	0.0	33	24	10-24	11-14
AGHIPRO AP 71	48.6	-	0.5	-	0.3	-	33	-	10-19	-
BRAXTON	50.4	29.1	0.0	0.3	0.0	0.0	34	24	10-24	11-9
COKER 317	46.8	-	0.3	-	0.0	-	36	-	10-20	-
DELTAPINE 417	47.0	-	0.3	-	0.0	-	35	-	10-22	-
DELTAPINE 497	50.1	22.4	0.0	0.0	0.0	0.0	31	20	10-23	11-14
DUOCRIP	38.3	34.0	1.0	1.5	0.5	0.0	44	30	10-16	11-23
GASOY 17	48.9	-	0.3	-	0.0	-	36	-	10-20	-
GK 120	44.4	23.9	0.0	0.8	0.0	0.0	29	22	10-18	11-7
MCAIR 770	51.3	-	0.0	-	0.0	-	28	-	10-18	-
NAPB 705	44.9	-	0.0	-	0.0	-	33	-	10-22	-
RA 702	52.9	26.1	0.0	0.5	0.0	0.0	30	20	10-21	11-0
RANSON	47.5	-	0.0	-	0.0	-	27	-	10-21	-
S72-60	49.7	20.0	0.3	2.3	0.0	0.0	34	23	10-24	11-8
TERRA-VIG 70R	44.0	-	0.0	-	0.0	-	28	-	10-20	-
WRIGHT	50.9	-	0.3	-	0.0	-	30	-	10-20	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 8. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRMORE, ALABAMA, 1963

BRAND-VARIETY	YIELD PER ACRE		REGIONAL AVERAGE							
	DATE 1	DATE 2	LUDGING		SWATHERING		PLANT HEIGHT		MATURITY DATE	
	BU.	BU.	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
LATE										
COAR	50.3	33.9	0.5	0.5	0.0	0.0	40	26	10-31	11-8
COKEA 338	49.3	27.3	0.0	1.0	0.0	0.0	38	24	10-29	11-6
COKEA 368	49.1	21.9	0.0	0.0	0.0	0.0	37	22	10-27	11-11
COKEA 488	51.3	23.4	0.0	0.8	0.0	0.0	38	22	10-27	11-11
DUNLING	52.9	26.8	0.0	0.0	0.0	0.0	35	21	10-31	11-8
FOSTER	47.1	23.7	0.5	1.0	0.0	0.0	34	20	10-23	11-9
HUTTON	47.5	23.5	0.0	0.3	0.0	0.0	33	21	10-25	11-10
JOHNSTON	38.2	18.5	0.0	0.0	0.0	0.0	23	17	10-24	11-11
JUPITER R	39.9	-	3.8	5.0	0.0	0.0	40	34	11-6	12-2
KIRBY	50.4	22.4	0.0	0.3	0.0	0.0	37	20	11-5	11-9
KA 801	50.1	26.0	0.0	2.0	0.0	0.0	38	21	10-24	11-11
SANTA ROSA R	52.8	37.2	3.3	3.5	0.0	0.0	41	27	11-2	11-19
TEST MEANS	45.9	26.0	0.3	1.0	0.0	0.0	32	23		
L.S.D. (.05)	7.3	4.4								
C.V. (%)	14.2	16.8								

EARLY = MATURITY GROUPS V AND VI; MEDIUM = MATURITY GROUP VII; LATE = MATURITY GROUPS VIII AND IX.

TABLE 9. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1963		2-YR. AV.		3-YR. AV.		LOGGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.			
<b>EARLY</b>														
A 5474	18.8	27.6	29.1	36.7	33.5	-	2.1	-	1.1	-	34	-	9-20	-
A 5618	20.8	29.9	32.4	39.3	35.4	-	1.8	-	1.2	-	34	-	9-23	-
A 5939	18.4	28.6	25.2	33.5	28.9	-	2.6	-	1.3	-	36	-	9-28	-
BEUFORD	19.4	26.9	31.6	32.9	36.3	34.3	3.0	2.8	1.0	1.0	39	34	9-20	10-15
COCKER 355	19.7	29.4	27.4	34.4	-	-	-	-	-	-	-	-	-	-
COCKER 798-5	21.4	25.4	25.1	35.2	-	-	-	-	-	-	-	-	-	-
COCKER 80-764	22.7	32.1	32.6	39.3	-	-	-	-	-	-	-	-	-	-
DELTAPINE 105	26.1	31.4	30.7	38.9	42.6	39.5	2.6	2.8	1.0	1.0	37	33	9-33	10-15
DELTAPINE 345	21.3	31.6	31.5	36.7	37.0	38.2	2.2	2.4	1.0	1.0	37	33	9-29	10-12
ESSEX	20.7	27.0	32.6	38.4	34.8	38.9	1.3	1.2	1.4	1.0	25	24	9-18	10-11
FORREST	21.2	30.5	32.6	37.4	38.8	38.7	2.0	2.4	1.1	1.0	34	33	9-25	10-12
HARTZ 5171	23.1	33.3	29.4	36.8	-	-	-	-	-	-	-	-	-	-
HARTZ 5370	23.3	31.9	31.7	35.8	-	-	-	-	-	-	-	-	-	-
MITCHELL 450	13.6	25.4	23.0	28.0	-	-	-	-	-	-	-	-	-	-
RA 400	17.6	28.3	28.8	35.9	33.1	-	2.2	-	1.1	-	37	-	9-15	-
RA 502	22.1	33.4	32.9	35.2	-	-	-	-	-	-	-	-	-	-
SHILOH	20.4	28.7	28.9	33.6	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 505	24.1	27.8	28.8	38.0	33.0	37.5	2.9	2.8	1.3	1.0	36	33	10-2	10-17
WILSTAR 550	21.4	31.2	32.8	35.7	37.7	37.2	2.6	2.5	1.0	1.0	35	37	9-29	10-14
<b>MEDIUM</b>														
A 6520	22.8	32.7	29.8	36.9	-	-	-	-	-	-	-	-	-	-
CENTENNIAL	22.7	35.0	27.9	34.0	32.6	33.6	2.5	2.1	1.0	1.0	38	34	10-12	10-21
COCKER 156	26.1	34.0	32.6	37.0	36.5	37.3	2.0	1.5	1.0	1.1	36	31	10-9	10-20
DAVIS	19.1	36.9	27.7	35.5	33.5	35.8	3.0	2.1	1.0	1.0	37	33	10-7	10-22
DELTAPINE 246	19.7	33.1	27.0	32.9	-	-	-	-	-	-	-	-	-	-
HARTZ 6783	24.4	34.9	29.0	37.7	32.0	-	2.4	-	1.0	-	37	-	10-13	-
JEFF	22.3	34.7	30.4	36.0	-	-	-	-	-	-	-	-	-	-
LEE 74	22.2	31.5	28.0	34.8	33.1	34.9	2.4	3.1	1.0	1.0	33	31	10-8	10-21
NAPA 611	25.0	32.9	29.3	35.0	34.3	-	2.4	-	1.0	-	35	-	10-10	-
RA 604	23.2	36.5	31.3	36.2	36.4	-	2.4	-	1.0	-	38	-	11-6	-
RA 606	21.4	34.3	28.2	35.9	-	-	-	-	-	-	-	-	-	-
SUMNER	21.6	31.2	27.1	35.0	-	-	-	-	-	-	-	-	-	-
S69-56	25.8	36.7	28.9	39.0	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 606	22.3	29.5	30.1	36.1	34.6	-	2.3	-	1.0	-	37	-	10-10	-
TRACY H	22.5	28.5	31.5	33.8	34.4	34.7	2.7	2.3	1.2	1.0	35	32	10-7	10-19

CONTINUED ON THE FOLLOWING PAGE

TABLE 9. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1983		2-YR. AV.		3-YR. AV.		LOGGING		SMALLERING		PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
LATE														
BRAXTON	23.0	30.6	29.7	35.1	33.5	35.2	2.2	1.6	1.0	1.0	40	35	10-14	10-25
COKER 237	23.0	39.3	27.4	37.0	-	30.1	-	1.4	-	1.0	-	30	-	10-25
COKER 317	28.7	34.1	28.1	36.4	-	-	-	-	-	-	-	-	-	-
HB-5J7-D1-7	23.1	35.4	27.9	34.1	-	-	-	-	-	-	-	-	-	-
HA 702	23.8	39.8	-	-	-	-	-	-	-	-	-	-	-	-
WILSIAP 790	22.5	36.3	25.4	36.8	-	-	-	-	-	-	-	-	-	-
TEST MEANS	21.9	32.2	29.6	35.8	34.9	36.7	2.4	2.2	1.1	1.0	36	32		
L.S.D. (.05)	4.1	3.0	6.2	5.3	6.2	4.4								
C.V. (%)	11.1	11.6	9.6	6.0	8.1	5.2								

EARLY = MATURITY GROUPS IV AND V; MEDIUM = MATURITY GROUP VI; LATE = MATURITY GROUP VII.

TABLE 10. PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1983		2-YR. AV.		3-YR. AV.		LOGGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
<b>EARLY</b>														
DELTA PINE 105	23.4	27.7	24.9	24.3	25.8	-	1.1	-	1.1	-	28	-	9-14	-
DELTA PINE 745	19.4	23.8	21.4	21.6	24.2	-	1.1	-	1.0	-	28	-	9-21	-
FURNESI	19.5	24.5	25.0	22.6	24.8	-	1.1	-	1.0	-	26	-	9-14	-
MARTZ 5370	22.1	24.8	24.4	-	-	-	-	-	-	-	-	-	-	-
RA 400	12.3	24.7	17.8	22.6	21.3	-	1.1	-	1.5	-	33	-	9-14	-
TERRA-VIG 505	21.1	22.1	23.8	-	21.8	-	1.3	-	1.1	-	27	-	9-21	-
WILSTAR 550	18.0	27.6	19.2	-	22.9	-	1.0	-	1.1	-	25	-	9-21	-
<b>MEDIUM</b>														
AGRAIFCH 67	26.9	30.1	26.7	26.1	27.4	-	1.0	-	1.0	-	34	-	10-4	-
CENTENNIAL	26.4	21.6	24.2	18.5	24.1	-	1.0	-	1.0	-	30	-	10-9	-
COCKER 156	28.4	27.3	25.6	24.7	24.5	-	1.0	-	1.0	-	29	-	10-5	-
DAVIS	24.2	25.6	24.7	22.4	24.9	-	1.5	-	1.4	-	34	-	9-29	-
JEFF	17.6	27.5	19.4	-	-	-	-	-	-	-	-	-	-	-
RA 604	15.3	28.4	18.0	23.9	21.2	-	1.1	-	1.0	-	30	-	9-27	-
HA 600	26.1	24.9	21.9	21.3	23.4	-	1.0	-	1.1	-	32	-	10-8	-
569-96	24.3	25.4	28.3	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 616	25.3	26.3	21.7	23.9	23.5	-	1.0	-	1.0	-	32	-	10-7	-
TRACY II	24.5	23.2	25.4	24.0	24.8	-	1.1	-	1.1	-	29	-	10-4	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 10. PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1983		2-YR. AV.		3-YR. AV.		LOGGING		SWAITERING		PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
LAIE														
AGRIPRO AP 70	28.4	31.7	22.8	24.3	22.9	-	1.3	-	1.0	-	39	-	10-12	-
AGRIPRO AP 71	27.4	29.7	23.5	22.9	23.7	-	1.4	-	1.0	-	31	-	10-10	-
BPAXTON	34.0	34.3	27.1	26.1	25.6	-	1.1	-	1.0	-	34	-	10-14	-
COKEP 237	22.4	31.8	22.8	26.6	22.7	-	1.1	-	1.0	-	29	-	10-9	-
COKEP 317	25.6	25.5	20.6	19.7	21.4	-	1.3	-	1.1	-	34	-	10-14	-
COKEP 368	26.8	27.3	22.9	-	-	-	-	-	-	-	-	-	-	-
COKEP 488	29.4	26.1	23.1	19.9	23.5	-	1.2	-	1.0	-	37	-	10-17	-
DELTAPINE 497	31.5	33.3	26.2	25.8	24.8	-	1.1	-	1.0	-	38	-	10-14	-
DUNICROP	18.6	23.9	18.3	-	-	-	-	-	-	-	-	-	-	-
FUSTER	24.5	26.7	20.4	21.2	21.2	-	1.4	-	1.0	-	33	-	10-13	-
GASBY 17	28.0	36.2	24.4	26.5	23.8	-	1.5	-	1.0	-	36	-	10-12	-
GEVAN	26.6	26.8	23.7	-	-	-	-	-	-	-	-	-	-	-
HARTZ 7126	26.5	28.5	29.1	-	26.9	-	1.2	-	1.0	-	32	-	10-12	-
HR-507-DL-7	27.7	31.5	27.1	23.1	25.9	-	1.1	-	1.0	-	30	-	10-13	-
INUTTON	15.2	28.3	15.9	20.5	17.5	-	1.4	-	1.0	-	33	-	10-14	-
KIRBY	25.0	29.8	20.8	-	-	-	-	-	-	-	-	-	-	-
MCNAIR 878	27.6	27.0	25.0	22.3	26.1	-	1.1	-	1.1	-	30	-	10-15	-
NAPU 705	28.2	27.9	28.1	-	-	-	-	-	-	-	-	-	-	-
RA 702	19.8	31.2	-	-	-	-	-	-	-	-	-	-	-	-
RA 901	16.2	28.8	-	-	-	-	-	-	-	-	-	-	-	-
RANSOM	26.7	30.0	24.1	25.3	23.1	-	1.1	-	1.0	-	30	-	10-9	-
TENRA-VIG 708	20.6	28.0	22.4	21.2	23.1	-	1.3	-	1.0	-	30	-	10-8	-
WRIGHT	28.8	30.4	24.0	22.9	24.4	-	1.5	-	1.0	-	34	-	10-11	-
TEST MEANS	24.0	27.8	23.3	23.1	23.7	-	1.2	-	1.1	-	32	-		
L.S.D. (0.05)	5.5	3.6	9.2	4.4	8.1	-								
C.V. (%)	20.1	11.9	13.3	9.5	8.6	-								

EARLY = MATURITY GROUPS IV AND V; MEDIUM = MATURITY GROUP VI; LATE = MATURITY GROUPS VII AND VIII.

TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE				PLANT HEIGHT IN.	MATURITY DATE			
	1981		2-YR. AV.		3-YR. AV.		LODGING		SWAITERING						
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2					
	BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.	DATE 1	DATE 2	
EARLY															
AGFATECH 67	30.1	19.8	40.6	-	-	-	-	-	-	-	-	-	-	-	-
CENTENNIAL	37.5	21.2	30.7	27.7	41.1	30.0	1.1	1.1	0.8	1.0	32	23	10-19	10-12	
COKEP 156	40.1	6.9	42.5	14.8	45.2	19.1	0.9	1.1	0.8	1.0	28	17	11-1	10-6	
DAVIS	30.0	23.8	42.1	32.2	44.7	33.6	1.1	1.5	0.8	1.2	31	25	10-15	10-7	
DELTAPINE 105	34.4	17.8	37.0	27.3	40.9	29.7	1.0	1.2	0.9	1.0	30	22	10-13	9-29	
DELTAPINE 345	31.2	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 506	32.2	17.6	34.5	-	37.7	-	1.6	-	0.8	-	29	-	11-3	-	
EMPREST	27.6	14.4	32.4	23.2	34.2	24.9	0.9	1.2	0.8	1.0	26	19	10-13	9-29	
JEFF	35.7	20.7	39.3	29.0	-	-	-	-	-	-	-	-	-	-	-
NAPB 611	30.4	13.6	33.9	23.5	-	-	-	-	-	-	-	-	-	-	-
RA 606	35.0	17.6	37.6	-	-	-	-	-	-	-	-	-	-	-	-
RA 680	38.6	22.7	30.9	29.8	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 606	35.0	12.7	38.4	25.6	40.8	-	0.9	-	1.0	-	31	-	10-19	-	
TRACY H	33.4	19.7	34.6	23.7	37.5	25.3	1.0	1.3	0.9	1.4	31	22	10-15	10-2	
MEDIUM															
A 7372	36.9	25.7	41.6	32.6	-	-	-	-	-	-	-	-	-	-	-
AGRIPRO AP 70	39.6	18.2	42.1	-	45.4	-	1.4	-	0.8	-	35	-	11-1	-	
BRAXTON	42.1	22.9	43.9	31.5	46.3	33.4	1.1	1.2	0.8	1.0	35	25	10-23	10-19	
COKEP 317	35.3	21.4	39.0	22.8	40.6	-	1.6	-	0.8	-	34	-	10-23	-	
DELTAPINE 417	39.4	18.5	42.4	31.4	-	-	-	-	-	-	-	-	-	-	-
DUNCRIE	28.5	23.5	33.6	26.2	-	-	-	-	-	-	-	-	-	-	-
GASBY 17	42.2	25.5	44.3	31.3	47.3	34.4	1.7	1.2	0.8	1.0	33	26	11-23	10-13	
GK 120	39.4	19.5	41.4	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ 7126	36.4	21.7	38.2	27.3	40.4	-	1.8	-	0.8	-	35	-	10-19	-	
MCHAIR 700	42.6	23.4	45.4	27.7	-	-	-	-	-	-	-	-	-	-	-
MCHAIR 770	38.3	26.2	41.3	-	40.8	-	1.2	-	0.8	-	29	-	11-4	-	
NAPB 705	39.0	22.3	42.2	27.1	-	-	-	-	-	-	-	-	-	-	-
RA 702	41.6	22.5	-	-	-	-	-	-	-	-	-	-	-	-	-
PANSUM	38.4	20.9	39.3	27.7	43.1	30.5	1.1	1.3	0.8	1.0	32	21	10-23	10-16	
S12-60	39.9	25.2	41.5	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 708	34.6	22.3	39.1	28.7	42.3	31.7	1.1	1.3	0.8	1.0	33	25	10-21	10-16	
WILSTAR 790	38.2	24.6	40.0	27.1	-	-	-	-	-	-	-	-	-	-	-
WRIGHT	38.9	21.8	40.9	30.9	45.0	32.5	1.8	1.5	0.9	1.0	33	25	10-22	10-11	

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TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1983		2-YR. AV.		3-YR. AV.		LOGGING		SHATTERING		PLANT WEIGHT		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
LATE														
CORB	43.0	37.9	49.8	38.0	48.7	39.9	1.5	1.3	0.8	1.0	37	29	10-30	10-26
CUKER 338	40.4	19.2	42.9	-	44.6	-	1.6	-	0.8	-	35	-	11-2	-
COKEK 368	39.4	26.3	42.6	32.7	-	-	-	-	-	-	-	-	-	-
DOWLING	41.8	27.8	43.7	-	45.8	-	1.4	-	0.8	-	36	-	11-4	-
FUSILL	42.8	20.8	44.1	32.1	45.5	-	1.9	-	0.8	-	33	-	10-25	-
JWINSTON	43.0	19.7	-	-	-	-	-	-	-	-	-	-	-	-
KIRBY	38.3	21.3	36.5	34.2	-	-	-	-	-	-	-	-	-	-
RA 801	33.2	22.2	-	-	-	-	-	-	-	-	-	-	-	-
TEST MEANS	37.5	21.1	40.2	28.2	42.8	30.4	1.3	1.2	0.8	1.0	32	23		
L.S.D. (.05)	7.7	6.8	8.4	7.8	9.9	7.5								
C.V. (%)	10.5	23.6	9.2	16.6	8.5	17.7								

EARLY = MATURITY GROUPS V AND VI; MEDIUM = MATURITY GROUP VII; LATE = MATURITY GROUP VIII.

TABLE 12. PERFORMANCE OF SOYBEAN VARIETIES ON SUMMER SOIL, HARTON JUNCTION, ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1983		2-YR. AV.		3-YR. AV.		LODGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.			
LATE														
AGRIPRO AP 70	26.0	12.1	23.5	-	21.6	-	1.5	-	1.0	-	36	-	10-11	-
BRAXTON	33.0	16.0	33.0	-	27.1	-	1.0	-	1.0	-	31	-	10-15	-
COBB	22.4	19.3	18.0	-	19.4	-	1.0	-	1.5	-	33	-	10-15	-
COKER 237	14.4	13.3	15.7	-	13.5	-	1.0	-	1.0	-	24	-	10-3	-
COKER 317	10.1	10.7	17.6	-	16.7	-	1.3	-	1.0	-	29	-	10-10	-
COKER 400	10.0	13.5	10.0	-	17.9	-	1.2	-	1.0	-	31	-	10-16	-
DELTA PINE 497	19.2	12.3	20.7	-	-	-	-	-	-	-	-	-	-	-
DUNCAN	19.9	10.0	23.3	-	-	-	-	-	-	-	-	-	-	-
FOSTER	15.5	9.3	14.1	-	13.0	-	1.5	-	1.0	-	26	-	10-14	-
GASBY 17	22.6	0.9	19.1	-	10.1	-	1.2	-	1.0	-	33	-	10-10	-
GOVAN	16.2	11.4	16.3	-	-	-	-	-	-	-	-	-	-	-
HARTZ 7126	15.4	5.1	19.3	-	15.4	-	1.0	-	1.0	-	25	-	10-10	-
HA-507-D1-7	25.9	9.0	24.2	-	19.7	-	1.0	-	1.0	-	23	-	10-10	-
HUTTON	6.3	19.9	6.2	-	7.1	-	1.2	-	1.0	-	29	-	10-2	-
KIRBY	13.7	5.4	14.2	-	-	-	-	-	-	-	-	-	-	-
KA 702	12.3	9.0	-	-	-	-	-	-	-	-	-	-	-	-
KA 801	7.9	15.0	-	-	-	-	-	-	-	-	-	-	-	-
RAHSON	25.4	10.2	24.2	-	21.0	-	1.0	-	1.0	-	24	-	10-8	-
WIL STAR 790	17.9	14.7	12.2	-	12.0	-	1.1	-	1.0	-	27	-	10-9	-
WRIGHT	27.2	11.2	23.0	-	23.0	-	1.7	-	1.0	-	28	-	10-12	-
TEST MEANS	19.4	11.3	20.2	-	18.4	-	1.2	-	1.1	-	25	-		
L.S.D. (1.05)	5.4	5.7	5.1	-	5.3	-								
C.V. (%)	28.4	20.1	25.3	-	23.9	-								

EARLY = MATURITY GROUPS IV AND V; MEDIUM = MATURITY GROUP VI; LATE = MATURITY GROUPS VII AND VIII.

TABLE 12. PERFORMANCE OF SOYBEAN VARIETIES ON SUMMER SOIL, MARION JUNCTION, ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1963		2-YR. AV.		3-YR. AV.		LODGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
<b>EARLY</b>														
BAY	24.4	10.3	26.1	-	19.2	-	1.0	-	1.5	-	19	-	9-13	-
BEDFORD	16.6	8.8	16.4	-	13.4	-	1.2	-	1.5	-	25	-	9-26	-
DEL TAPINE 105	23.8	11.0	25.9	-	24.3	-	1.2	-	1.2	-	21	-	9-17	-
DEL TAPINE 345	23.5	12.4	23.3	-	20.1	-	1.1	-	1.0	-	23	-	9-22	-
ESSEX	19.6	7.5	19.3	-	14.5	-	1.0	-	2.1	-	13	-	9-1	-
FORKST	15.2	6.4	18.4	-	15.3	-	1.0	-	1.0	-	18	-	9-20	-
FA 400	22.5	6.9	20.1	-	24.1	-	1.9	-	1.7	-	31	-	9-11	-
TERRA-VIG 505	23.0	10.5	23.3	-	20.3	-	1.0	-	1.5	-	20	-	9-21	-
<b>MEDIUM</b>														
A 6520	18.1	9.3	-	-	-	-	-	-	-	-	-	-	-	-
AGRITECH 67	19.6	10.5	-	-	-	-	-	-	-	-	-	-	-	-
CENTENNIAL	17.9	9.2	18.0	-	17.1	-	1.0	-	1.0	-	24	-	10-9	-
CUKER 156	19.6	12.1	22.4	-	22.6	-	1.0	-	1.0	-	23	-	10-7	-
DAVIS	26.7	14.0	20.5	-	24.9	-	1.8	-	1.2	-	29	-	10-3	-
DEL TAPINE 506	24.9	12.2	23.6	-	21.7	-	1.6	-	1.0	-	27	-	10-7	-
JEFF	12.4	12.5	13.7	-	-	-	-	-	-	-	-	-	-	-
LEE 74	18.3	11.5	18.0	-	17.9	-	1.0	-	1.0	-	18	-	10-7	-
RA 604	12.5	14.4	15.1	-	13.9	-	1.1	-	1.0	-	23	-	9-24	-
4A 600	17.7	12.3	19.5	-	16.2	-	1.0	-	1.0	-	24	-	10-8	-
TERRA-VIG 606	22.7	14.0	19.1	-	18.2	-	1.0	-	1.0	-	24	-	10-7	-
TRACY H	18.5	11.0	24.9	-	20.9	-	1.0	-	1.0	-	23	-	10-11	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 13. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA 3-YEAR SUMMARY<sup>1</sup>

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE				PLANT HEIGHT		MATURITY DATE		
	1981		2-YR. AV.		3-YR. AV.		LOGGING		SWATHERING		DATE 1	DATE 2	DATE 1	DATE 2	
	BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.	DATE 1	DATE 2	
<b>EARLY</b>															
DAY	54.1	33.1	43.6	34.9	-	-	-	-	-	-	-	-	-	-	-
BEDFORD	49.7	32.7	43.6	29.8	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 105	50.3	36.5	51.7	36.9	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 345	40.1	26.7	40.2	27.8	-	-	-	-	-	-	-	-	-	-	-
ESSEX	46.0	27.1	41.5	29.6	-	-	-	-	-	-	-	-	-	-	-
FORREST	51.5	29.6	43.1	31.3	-	-	-	-	-	-	-	-	-	-	-
RA 480	47.1	35.3	42.6	32.5	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 505	57.0	28.2	47.6	28.6	-	-	-	-	-	-	-	-	-	-	-
<b>MEDIUM</b>															
A 6520	51.2	32.0	-	-	-	-	-	-	-	-	-	-	-	-	-
AGRATECH 67	53.1	33.1	-	-	-	-	-	-	-	-	-	-	-	-	-
CENTENNIAL	53.4	37.9	43.9	37.9	-	-	-	-	-	-	-	-	-	-	-
COKER 156	56.9	34.5	50.2	34.9	-	-	-	-	-	-	-	-	-	-	-
DAVIS	50.6	36.0	44.9	34.6	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 506	50.6	34.6	41.7	34.4	-	-	-	-	-	-	-	-	-	-	-
JEFF	45.1	35.4	39.8	32.3	-	-	-	-	-	-	-	-	-	-	-
LEE 74	45.2	34.4	38.2	32.7	-	-	-	-	-	-	-	-	-	-	-
RA 604	36.3	34.5	34.0	29.3	-	-	-	-	-	-	-	-	-	-	-
RA 680	52.1	37.2	46.3	34.6	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 606	59.3	34.5	49.5	33.0	-	-	-	-	-	-	-	-	-	-	-
IPACY M	53.1	34.3	50.6	34.1	-	-	-	-	-	-	-	-	-	-	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 13. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA 3-YEAR SUMMARY<sup>1</sup>

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1983		2-YR. AV.		3-YR. AV.		LOGGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
LAIE														
AGRIPRO AP 70	48.2	40.1	35.1	36.4	-	-	-	-	-	-	-	-	-	-
BRAXTON	55.2	39.6	48.1	41.7	-	-	-	-	-	-	-	-	-	-
COBB	45.8	43.6	32.2	38.0	-	-	-	-	-	-	-	-	-	-
COKER 237	48.7	37.5	36.9	35.6	-	-	-	-	-	-	-	-	-	-
COKER 317	43.4	34.3	35.2	31.0	-	-	-	-	-	-	-	-	-	-
COKER 488	46.8	40.0	36.7	39.6	-	-	-	-	-	-	-	-	-	-
DEL TAPINE 497	54.8	36.7	40.5	37.2	-	-	-	-	-	-	-	-	-	-
DUDCROP	41.0	31.5	34.7	30.3	-	-	-	-	-	-	-	-	-	-
FOSTER	46.3	38.3	38.6	34.6	-	-	-	-	-	-	-	-	-	-
GASOY 17	47.9	40.9	35.5	36.8	-	-	-	-	-	-	-	-	-	-
GOVAN	48.7	48.1	36.6	36.5	-	-	-	-	-	-	-	-	-	-
HARTZ 7126	50.4	43.5	39.1	37.6	-	-	-	-	-	-	-	-	-	-
HA-507-D1-7	56.5	40.5	43.6	39.7	-	-	-	-	-	-	-	-	-	-
HUTTON	19.9	39.2	13.7	30.5	-	-	-	-	-	-	-	-	-	-
KIRBY	45.3	37.8	30.4	36.2	-	-	-	-	-	-	-	-	-	-
RA 702	29.6	36.9	-	-	-	-	-	-	-	-	-	-	-	-
RA 801	20.1	39.5	-	-	-	-	-	-	-	-	-	-	-	-
RANSOM	54.0	40.5	41.6	39.1	-	-	-	-	-	-	-	-	-	-
MIL STAR 790	31.2	39.3	20.3	31.7	-	-	-	-	-	-	-	-	-	-
WRIGHT	54.3	41.8	41.3	37.9	-	-	-	-	-	-	-	-	-	-
TEST MEANS	47.7	36.2	39.8	34.5	-	-	-	-	-	-	-	-	-	-
L.S.D. (.05)	6.4	13.2	6.1	13.2	-	-	-	-	-	-	-	-	-	-
C.V. (%)	19.2	11.5	19.5	10.2	-	-	-	-	-	-	-	-	-	-

EARLY = MATURITY GROUPS IV AND V; MEDIUM = MATURITY GROUP VI; LATE = MATURITY GROUPS VII AND VIII.

<sup>1</sup>Test grown at this site for 2 years only.

TABLE 14. PERFORMANCE OF SOYBEAN VARIETIES IN FAIRHOPE, ALABAMA, 3-YEAR SUMMARY

GRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE				PLANT HEIGHT		MATURITY DATE		
	1983		2-YR. AV.		3-YR. AV.		LOGGING		SHATTERING		DATE 1	DATE 2	DATE 1	DATE 2	
	BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.	DATE 1	DATE 2	
<b>EARLY</b>															
AGRATECH 67	28.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEFORD	29.7	-	36.9	-	38.1	-	0.8	-	0.5	-	34	-	10-3	-	-
CENTENNIAL	42.1	-	44.5	-	40.6	-	0.7	-	0.5	-	33	-	10-15	-	-
COKEE 156	41.3	-	46.1	-	42.8	-	0.7	-	0.5	-	34	-	10-13	-	-
DAVIS	45.6	-	46.9	-	43.8	-	0.9	-	0.5	-	36	-	10-13	-	-
DELTAPINE 105	44.2	-	48.2	-	46.4	-	0.7	-	0.5	-	32	-	10-3	-	-
DELTAPINE 506	46.7	-	49.2	-	43.6	-	0.7	-	0.5	-	35	-	10-15	-	-
FORREST	24.8	-	32.9	-	35.2	-	0.7	-	0.5	-	28	-	9-29	-	-
JEFF	45.2	-	47.1	-	-	-	-	-	-	-	-	-	-	-	-
569-96	50.2	-	52.7	-	-	-	-	-	-	-	-	-	-	-	-
TRACY H	42.8	-	43.5	-	41.2	-	1.1	-	0.5	-	32	-	9-11	-	-
<b>MEDIUM</b>															
A 7372	48.9	26.0	-	-	-	-	-	-	-	-	-	-	-	-	-
AGRIPRO AP 70	51.1	28.1	-	-	-	-	-	-	-	-	-	-	-	-	-
AGRIPRO AP 71	48.6	-	50.5	-	45.0	-	0.8	-	0.6	-	38	-	10-15	-	-
BRAXTON	50.4	29.1	51.2	-	46.1	-	1.0	-	0.5	-	39	-	10-22	-	-
COKEE 317	46.8	-	47.7	-	43.9	-	1.3	-	0.5	-	40	-	10-18	-	-
DELTAPINE 417	47.0	-	50.6	-	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 497	50.1	22.4	51.7	-	47.5	-	0.5	-	0.5	-	40	-	10-20	-	-
DUCROPS	38.3	34.0	41.6	-	-	-	-	-	-	-	-	-	-	-	-
GASOY 17	48.9	-	50.5	-	46.1	-	1.1	-	0.5	-	40	-	10-18	-	-
GK 120	44.4	23.9	47.1	-	-	-	-	-	-	-	-	-	-	-	-
MCHAIR 770	51.3	-	50.2	-	46.9	-	0.5	-	0.5	-	33	-	10-15	-	-
NAPU 705	44.9	-	47.0	-	-	-	-	-	-	-	-	-	-	-	-
RA 702	52.9	26.1	-	-	-	-	-	-	-	-	-	-	-	-	-
RAHSON	47.5	-	48.4	-	43.7	-	0.7	-	0.5	-	32	-	10-18	-	-
S 72-60	49.7	20.0	48.8	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 708	44.0	-	46.5	-	42.5	-	0.7	-	0.5	-	35	-	10-17	-	-
WRIGHT	50.9	-	50.7	-	46.0	-	0.6	-	0.5	-	37	-	10-19	-	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 15. PERFORMANCE OF SOYBEAN VARIETIES IN FAIRHOPE ALABAMA. 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE								
	1983		2-YR. AV.		3-YR. AV.		LOGGING		SHATTERING		PLANT HEIGHT		MATURITY DATE		
	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	
	BU.	BU.	BU.	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.			
LAIE															
CODA	50.3	33.9	48.6	-	42.9	-	0.8	-	0.5	-	44	-	10-29	-	
CUKER 338	49.3	27.3	49.7	-	44.3	-	0.5	-	0.5	-	40	-	10-27	-	
CUKER 368	49.1	21.9	48.1	-	-	-	-	-	-	-	-	-	-	-	
CUKER 488	51.3	23.4	-	-	-	-	-	-	-	-	-	-	-	-	
DOWLING	52.9	26.8	-	-	-	-	-	-	-	-	-	-	-	-	
FOSTER	47.1	23.7	47.0	-	41.8	-	1.4	-	0.5	-	37	-	10-21	-	
HUTTON	47.5	23.5	49.2	-	43.4	-	1.0	-	0.5	-	39	-	10-24	-	
JOHNSTON	38.2	18.5	-	-	-	-	-	-	-	-	-	-	-	-	
JUPITER R	39.9	-	-	-	-	-	-	-	-	-	-	-	-	-	
KIRBY	50.4	22.4	48.7	-	-	-	-	-	-	-	-	-	-	-	
RA 801	50.1	26.0	-	-	-	-	-	-	-	-	-	-	-	-	
SANTA ROSA R	52.8	37.2	-	-	-	-	-	-	-	-	-	-	-	-	
TEST MEANS	45.9	26.0	47.4	-	43.4	-	0.8	-	0.5	-	36	-			
L.S.D. (1.05)	7.3	4.4	7.1	-	6.6	-									
C.V. (%)	14.2	18.8	8.8	-	6.9	-									

EARLY = MATURITY GROUPS V AND VI; MEDIUM = MATURITY GROUP VIII; LATE = MATURITY GROUPS VIII AND IX.

TABLE 15. PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS

BRAND-VARIETY	YIELD PER ACRE	
	NORTHERN (BELLE MINA)	SOUTHERN (MONROVILLE)
	BU.	BU.
<u>GROUP V</u>		
FFR 559	16.5	-
FFR 560	16.5	-
FORREST	14.5	-
HARTZ 5252	17.5	-
HB-007-83-5	16.2	10.6
H78-168	20.9	-
NAP8 517	16.1	-
NS-27-79	21.5	20.9
N77-114	19.5	-
PIONEER 5482	17.1	-
PIONEER 9561	20.0	-
RA 580	15.9	-
SHILOH	-	24.3
WILSTAR 550	-	25.4
YIELD KING 503	17.3	-
YIELD KING 563	18.6	-
YIELD KING 593	21.8	-
<u>GROUP VI</u>		
A 6520	-	30.4
BRADLEY	18.3	21.5
CENTENNIAL	18.4	-
COKER 80-795	18.5	33.8
COKER 80-817	17.2	29.9
COKER 80-846	19.2	31.0
DELTAPINE 246	-	27.4
FFR 668	16.8	30.7
HARTZ 6383	-	32.1
HB-468-01-6	14.0	31.5
H78-160	18.1	16.7
H79-13403	17.0	29.3
H79-7817	20.5	32.4
NS-340-79	17.8	34.9
RA 604	-	31.3
SUMTER	-	31.0
S69-96	-	33.5
YIELD KING 613	14.2	31.0

CONTINUED ON NEXT PAGE

TABLE 15. PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS

BRAND-VARIETY	YIELD PER ACRE	
	NORTHERN (BELLE MINA)	SOUTHERN (MONROEVILLE)
	BU.	BU.
<u>GROUP VII</u>		
A 7372	16.7	-
BRAXTON	-	34.3
COKER 237	-	30.7
COKER 80-870	13.6	33.5
COKER 80-917	15.9	34.1
COKER 80-926	15.6	28.7
DELTAPINE 497	-	34.3
GK 21	-	33.8
HARTZ 7126	17.1	-
HB-507-01-7	-	28.5
NAP8 705	14.7	-
TERRA-VIG 708	21.9	-
YIELD KING 713	-	31.5
<u>GROUP VIII</u>		
KIRBY	-	31.0
TERRA-VIG 808	-	30.1
<u>TEST MEANS</u>	<u>17.5</u>	<u>29.5</u>
L.S.D. (0.05)	5.5	4.6
C.V. (3)	22.6	11.2

FOR STANDARD VARIETIES FOR NORTHERN ARE CENTENNIAL AND FOREST; AND SOUTHERN ARE BRAXTON AND KIRBY.

## STEM CANKER DISEASE REACTIONS AT MARION JUNCTION AND SHORTER, ALABAMA<sup>2</sup>

Stem canker disease of soybeans, caused by the fungal organism Diaporthe phaselorum var. cavlivora, was first recognized in Alabama as a problem in 1977 in isolated areas of the Black Belt region. In 1983, severe levels of stem canker were reported from 19 counties in Alabama, and some stem canker was detected in 17 other counties.

Symptoms of the disease first appear as small, reddish-brown lesions usually located at the base of the petiole on the lower half of the main stem. As the disease progresses, the lesion elongates, becomes black and sunken surrounded by green plant tissue, and may eventually girdle the stem, killing the entire plant. The leaf tissue typically becomes yellow while the veins remain green. Reddish-brown cankers on the stem and leaf yellowing between the veins are a good indication of stem canker, but a definite diagnosis should be made by sending plant samples to the Plant Diagnostic Center, Extension Hall, Auburn University, AL 36849.

It is still unclear how stem canker is spread over long distances. Most pathologists believe that the fungus can be carried on seed, however this has not been proven consistently and further research is needed before this can be definitely established. It is not recommended that growers save or purchase seeds from fields known to be infested with stem canker. Since the disease organism survives in the soil on undecomposed soybean plant residue, hastening the decomposition process

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<sup>2</sup>Prepared by Barbara H. Cospers, Research Associate, Department of Agronomy and Soils.

by shredding the stems at harvest and turning them under will encourage deterioration of the fungus. Once established, it is spread by wind-blown rain and contaminated equipment.

Moist conditions early in the growing season appear to favor stem canker development and severity, while any of numerous factors that may stress the plant, particularly at the pod-filling stage, may enhance losses due to stem canker. Research at Auburn indicates that the normal early pod-set and early pod-fill foliar fungicide sprays will not control stem canker, and that an early season fungicide application may be beneficial. However, more research is needed on fungicide timing and rates before this practice can be recommended.

#### Procedures

Stem canker disease ratings were made on entries in the soybean variety tests located at Marion Junction and Shorter. Varieties were planted at two dates on two soil types at Marion Junction.

Stem canker severity was determined at the pod-filling stage of development using two subjective rating scales. Rating scale A is a 1-5 scale: 1, 0-5 percent of plants dead or dying; 2, 6-10 percent of plants dead or dying; 3, 11-24 percent of plants dead or dying; 4, 25-50 percent of plants dead or dying; 5, over 50 percent of plants dead or dying. Rating scale B is a 0-5 scale, with ratings made to the tenth unit: 0, no visible signs of disease; 1.0, 10 percent of plants dead or dying; 2.0, 35 percent of plants dead or dying; 3.0, 65 percent of plants dead or dying; 4.0, 90 percent of plants dead or dying; 5.0, all plants dead. Rating scale A gives a general indication of varietal susceptibility, while rating scale B more closely approximates the percent dead or dying plants so that observable differences in varieties can be detected.

## Results

Data from varietal evaluations indicate that significant levels of stem canker developed during 1983 in both locations and in 1982 and 1983 at Marion Junction, except for the second planting date in 1983, table 16. Tracy M and Braxton had the highest degree of tolerance to stem canker. Other varieties ranged from moderately tolerant to very susceptible. Planting a tolerant variety should lessen the chance of severe damage from stem canker, however this is no guarantee that stem canker will not be present. Further research is needed before substantial varietal recommendations can be made. Additional information on stem canker disease of soybean and its control may be obtained from the Alabama Cooperative Extension Service.

Table 16. Stem Canker Ratings Made on Soybean Varieties at Marion Junction and Shorter, Alabama

Brand-variety	Marion Junction												Shorter, 1983	
	Sumter Soil						Valden Soil							
	1983		1982		1982-1983 av.		1982		1983		1982			
	Date 1		Date 1		Date 1		Date 2		Date 1		Date 2			
	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale		
A <sup>1</sup>	B <sup>2</sup>	A	B	A	B	A	B	A	B	A	B	A	B	
<b>Early</b>														
Bay	M <sup>3</sup>	M	1	0.3	--	--	3	1.4	1	0.3	M	M	--	--
Bedford	3	1.2	3	1.6	3.0	1.4	3	1.5	3	1.1	M	M	--	--
Deltapine 105	3	1.5	2	0.7	2.5	1.1	3	1.3	2	0.8	M	M	3	1.3
Deltapine 345	3	1.4	-	--	--	--	-	--	2	0.9	M	M	3	1.2
Essex	M	M	M	M	--	--	4	1.7	2	0.6	M	M	--	--
Forrest	3	1.5	2	1.0	2.5	1.3	3	1.4	3	1.1	M	M	3	1.4
Hartz 5370	-	--	--	--	--	--	-	--	-	--	-	-	2	0.8
Terra-Vig 505	4	1.6	-	--	--	--	-	--	2	0.7	M	M	3	1.1
Wilstar 550	-	--	-	--	--	--	-	--	-	--	-	-	2	0.7
<b>Medium</b>														
A 6520	3	1.1	--	--	--	--	--	--	2	0.8	--	--	--	--
AgraTech 67	2	0.9	4	2.0	3.0	1.5	3	1.2	1	0.1	--	--	1	0.3
Centennial	2	0.9	1	0.3	1.5	0.6	1	0.5	1	0.2	3	1.4	1	0.4
Coker 156	3	1.3	2	0.6	2.5	1.0	1	0.4	1	0.1	4	1.9	1	0.3
Davis	2	0.9	2	0.6	2.0	0.8	1	0.5	1	0.3	4	2.1	1	0.1
Deltapine 506	2	0.9	--	--	--	--	--	--	1	0.3	4	1.7	--	--
Hartz 7126	3	1.2	--	--	--	--	--	--	1	0.5	3	1.2	2	0.9
Jeff	4	2.1	2	0.8	3.0	1.5	2	0.7	3	1.3	4	1.6	4	1.6
Lee 74	3	1.4	3	1.2	3.0	1.3	2	1.2	2	0.8	4	2.1	--	--
RA 604	4	2.1	--	--	--	--	--	--	4	1.7	M	M	4	2.5
RA 680	2	0.9	--	--	--	--	--	--	1	0.1	3	1.3	1	0.2
S69-96	-	--	3	1.5	--	--	3	1.3	-	--	--	--	3	1.1
Terra-Vig 606	2	1.0	--	--	--	--	--	--	1	0.0	4	2.3	2	0.7
Tracy M	1	0.0	1	0.0	1.0	0.0	1	0.0	1	0.0	M	M	1	0.0

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Table 16. Stem Canker Ratings Made on Soybean Varieties at Marion Junction and Shorter, Alabama

Brand-variety	Marion Junction												Shorter, 1983		
	Sumter Soil						Vaiden Soil								
	1983		1982		1982-1983 av.		1982		1983		1982				
	Date 1		Date 1		Date 1		Date 2		Date 1		Date 2				
Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	Scale	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Late															
Agripro AP 70	2	0.7	4	2.0	3.0	1.4	3	1.1	1	0.1	3	1.2	2	0.6	
Agripro AP 71	--	--	--	--	--	--	--	--	--	--	--	--	1	0.6	
Braxton	1	0.0	1	0.0	1.0	0.0	2	0.7	1	0.0	2	0.9	1	0.0	
Cobb	2	0.7	4	1.7	3.0	1.2	3	1.1	1	0.2	2	0.9	-	--	
Coker 237	4	2.1	3	1.2	3.5	1.7	3	1.1	3	1.2	4	1.6	3	1.4	
Coker 317	2	1.0	--	--	--	--	--	--	1	0.4	3	1.5	2	0.6	
Coker 368	--	--	--	--	--	--	--	--	--	--	--	--	2	0.6	
Deltapine 497	2	0.6	--	--	--	--	--	--	1	0.2	2	1.0	2	0.6	
Duocrop	3	1.1	4	1.7	3.5	1.4	2	0.6	1	0.4	4	2.3	2	0.6	
Foster	1	0.5	4	1.8	2.5	1.2	3	1.5	1	0.4	3	1.3	3	1.2	
GaSoy 17	2	0.8	3	1.3	2.5	1.1	2	0.7	1	0.5	3	1.2	2	0.7	
Govan	2	0.8	4	1.9	3.0	1.4	3	1.1	1	0.4	3	1.3	1	0.3	
HB 507-D1-7	2	0.8	--	--	--	--	--	--	1	0.2	3	1.4	1	0.3	
Hutton	4	2.5	4	2.2	4.0	2.4	4	1.6	4	2.1	4	2.0	4	2.1	
Kirby	2	0.7	4	1.7	3.0	1.2	3	1.1	2	0.7	2	0.9	1	0.2	
McNair 770	--	--	--	--	--	--	--	--	--	--	--	--	2	0.9	
NAPB 705	--	--	--	--	--	--	--	--	--	--	--	--	2	0.8	
Ransom	2	1.0	3	1.5	2.5	1.3	2	0.7	3	0.8	2	1.2	2	1.0	

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Table 16. Stem Canker Ratings Made on Soybean Varieties at Marion Junction and Shorter, Alabama

Brand-variety	Marion Junction												Shorter, 1983	
	Sumter Soil						Vaiden Soil							
	1983		1982		1982-1983 av.		1982		1983		1982			
	Date 1		Date 1		Date 1		Date 2		Date 1		Date 2			
	Scale A	Scale B	Scale A	Scale B	Scale A	Scale B	Scale A	Scale B	Scale A	Scale B	Scale A	Scale B		
RA 701	--	--	--	--	--	--	--	--	--	--	4	2.1	--	--
RA 702	4	2.2	--	--	--	--	--	--	4	2.0	--	--	4	1.8
RA 800	--	--	--	--	--	--	--	--	--	--	4	1.9	--	--
RA 801	4	2.3	--	--	--	--	--	--	4	2.1	--	--	4	1.9
Terra-Vig 708	--	--	--	--	--	--	--	--	--	--	--	--	3	1.4
Wilstar 790	3	1.6	4	2.2	3.5	1.9	3	1.3	3	1.5	4	1.8	--	--
Wright	2	0.6	3	1.3	2.5	0.9	2	1.0	1	0.1	3	1.3	2	0.6
Test means	2.6	1.16	2.8	1.24	2.67	1.20	2.5	1.03	1.8	0.66	3.3	1.53	2.2	0.86

<sup>1</sup> Rating scale A= 1, 0-5% of plants dead or dying; 2, 6-10% of plants dead or dying; 3, 11-24% of plants dead or dying; 4, 25-50% of plants dead or dying; 5, over 50% of plants dead or dying.

<sup>2</sup> Rating scale B= 0, no visible signs of disease; 1.0, 10% of plants dead or dying; 2.0, 35% of plants dead or dying; 3.0, 65% of plants dead or dying; 4.0, 90% of plants dead or dying; 5.0, all plants dead.

<sup>3</sup> M=mature.

## RECOMMENDED SOYBEAN VARIETIES FOR 1984

The list of recommended varieties was prepared by the authors of this report, D.B. Weaver, soybean breeder, Department of Agronomy and Soils, and J.B. Henderson, Agronomist-Soybeans, Alabama Cooperative Extension Service, based on variety test performance for at least 3 years.

### Northern Alabama

#### Early

Bay  
Bedford  
Deltapine 105  
Deltapine 345  
Essex  
Forrest  
Wilstar 550

#### Medium

Centennial  
Coker 156  
Davis  
Lee 74  
Tracy M

#### Late

Braxton  
Ransom

### Central Alabama

#### Early

Deltapine 105  
Deltapine 345

#### Medium

AgraTech 67  
Centennial  
Coker 156  
Davis  
Tracy M

#### Late

Braxton  
Cobb  
Coker 488  
Deltapine 497  
Hartz 7126  
McNair 770

### Southern Alabama

#### Early

Centennial  
Coker 156  
Davis  
Tracy M

#### Medium

Agripro AP 70  
Braxton  
GaSoy 17  
Ransom  
Wright

#### Late

Cobb  
Coker 488  
Foster  
Kirby

### Black Belt Soils

#### Early

Deltapine 105  
RA 480

#### Medium

Centennial  
Coker 156  
Davis  
RA 680  
Tracy M

#### Late

Braxton  
Cobb  
Coker 488  
Ransom  
Wright

### Baldwin-Mobile

#### Early

Bedford  
Centennial  
Davis  
Deltapine 105  
Coker 156  
S69-96

#### Medium

Braxton  
Deltapine 497  
GaSoy 17  
McNair 770  
Wright

#### Late

Cobb  
Coker 368  
Kirby