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PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 1987

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Information contained herein is available to all persons regardless of race, color, sex, or national origin.

PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 1987

D. L. Thurlow and W. C. Johnson¹

INTRODUCTION

Soybean variety tests are conducted annually by the Alabama Agricultural Experiment Station. 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
Southern	Brewton, Headland, Monroeville
Black Belt	Marion Junction (2 soils)
Baldwin-Mobile	Fairhope

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

¹ Respectively, Associate Professor and Professor of Agronomy and Soils.

EXPERIMENTAL PROCEDURES

The standard tests were designed as a randomized complete block with four replications. Plot size was four 30- to 36-inch rows 20 feet long. Sixteen feet of the middle two rows were harvested for yield. Seeding rate was 60 pounds per acre (10 viable seeds per foot of row). The preliminary tests were planted in a randomized complete block design with three replications. The early and late planting date tests were arranged in incomplete lattice square designs, with nine entries per maturity group and four replications.

Two planting dates were used for the standard tests at Crossville, Prattville, Brewton, Marion Junction (Vaiden soil), and Fairhope. An entry must perform well in the early standard test before it is entered in the late date test. Results are reported by planting date in the tables, with date 1 being the standard full season planting and date 2 the later planting at all locations except at Brewton where date 2 is the standard test and date 3 is the later planting test. The Brewton early planting test in 1987 was not planted because of lack of moisture during late April and early May.

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 as follows:

- 1 - almost all plants erect.
- 2 - either all plants leaning slightly (less than 45°) or a few plants down.
- 3 - either all plants leaning moderately (approximately 45°) or 25 to 50 percent of the plants down.

4 - either all plants leaning more than 45° or 50 to 80 percent of the plants down.

5 - more than 80 percent of the plants down.

Shattering was rated on a scale of 1 to 5 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 their mature pod color. Harvest was approximately 7 to 10 days later.

Severe stunting and chlorosis were observed in the varieties planted on the alkaline Sumter soil at the Black Belt Substation. A chlorosis rating was made in early August in 1986 and 1987 with rating of 1 to 10, where 1 was no noticeable change in green color from a normal soybean plant and 10 was plants losing leaves due to necrotic spots in leaves. The yields from areas that showed iron chlorosis are recorded for 1987 and also the 2-year averages, table 17.

SEASONAL CONDITIONS

Lack of rainfall in April resulted in a 2-week delay in planting in north Alabama and not planting the early test in Brewton. Poor stands were also the reason for no test at Monroeville Field. The lack of and poor distribution of rainfall from mid-July through early September resulted in very poor and inconsistent soybean yields in central and north Alabama. Rainfall amounts near Brewton and Fairhope were better in July and August, table 3, resulting in some respectable yields at these locations. In spite of the shortage of rainfall at Marion Junction, very good yields were obtained on the acid prairie soil.

COMPARING VARIETIES

To aid in determining real yield differences, a statistical analysis of variance is performed on the data from each location. The L.S.D. (least significant difference) and C.V. (coefficient of variation) are given for each location's 1987 test, and the location's or region's 2- and 3-year averages. The difference in yield of two varieties must exceed the L.S.D. value for one variety to be considered superior to the others in yield in that particular test. The C.V. is a measure of the variability in an experiment. An increase in its value indicates an increase in the unexplained variability.

Since the performance of varieties varies with location and year, long-term averages from several locations are more reliable than 1-year performance. Three-year regional averages are considered a reliable evaluation of the relative performance of varieties.

A committee comprised of Department of Agronomy and Soils personnel involved in soybean extension and research work reviewed the past 3 years of soybean variety test data to assemble the list of acceptable varieties on page 39. The recommended varieties are not all equal in performance. Some are outstanding in one or more characteristics; while others may not be obviously outstanding, they might possess a satisfactory combination of all characteristics.

ACKNOWLEDGMENTS

Appreciation is expressed to the following station superintendents and their staffs. It is their quality work which makes this report a reliable source of information for farmers in their areas.

Black Belt Substation	H. W. Grimes
Marion Junction	J.L. Holliman
Brewton and Monroeville Experiment Fields Brewton and Monroeville	J. R. Akridge
Gulf Coast Substation Fairhope	E. L. Carden N.R. McDaniel M.D. Pegues
Lower Coastal Plain Substation Camden	J. A. Little
Prattville Experiment Field Prattville	D. P. Moore
Sand Mountain Substation Crossville	J. T. Eason M. E. Ruf
Tennessee Valley Substation Belle Mina	W. B. Webster V. H. Calvert, II
Wiregrass Substation Headland	H. W. Ivey Larry Wells

Appreciation is also expressed to W. H. Hearn, Mien-Huei Tzeng, and Mrs. Sally Bagwell, Research Data Analysis, for the computation and analysis of the data in this report.

Table 1. Entries and Sources for 1987

Alabama Crop Improvement Association Auburn, Alabama	Davis Foster Gordon Kirby
Alabama Farmer's Cooperative Decatur, Alabama	Cobb
Asgrow Seed Company Kalamazoo, Michigan	Asgrow brand varieties
Bragg Farms Toney, Alabama	Braxton Centennial Essex Forrest Ransom
Capehart Seed Service Holland, Missouri	Capehart brand varieties
Coker Pedigreed Seed Co. Hartsville, South Carolina	Coker brand varieties RA brand varieties
Delta and Pine Land Company Scott, Mississippi	Deltapine brand varieties
Delta Branch Experiment Station Stoneville, Mississippi	Bedford Sharkey
Department of Agronomy and Soils Auburn University, Alabama	Au 82-204 Au 82-211 Au 82-589 Hutton Okayoma
Eagle Seed Co. Weiner, Arkansas	Yield King brand varieties
Ellis Brothers Centre, Alabama	Tracy M Wright
FFR Cooperative W. Lafayette, Indiana	FFR brand varieties
Funk Seed International Greenville, Mississippi	Funk's brand varieties
Georgia Seed Development Commission Athens, Georgia	Duocrop GaSoy 17 G81-234 Twiggs

(continued on following page)

Table 1 (continued). Entries and Sources for 1987

HyPerformer Seed Company Memphis, Tennessee	HSC B2J HSC Baldwin Sampson Sanalona Shenandoah Starr Wilstar brand varieties
Jacob Hartz Seed Company, Inc. Stuttgart, Arkansas	Hartz brand varieties
Kansas State University Manhattan, Kansas	K1099
North Carolina State University Raleigh, North Carolina	Johnston N83-375 Young
The New Northrup King Company Laurinburg, North Carolina	N.K. S53-34 N.K. S59-19 N.K. S69-54 N.K. S72-60
Pioneer Hi-Bred International, Inc. Tipton, Indiana	Pioneer brand varieties
Rio Farms Edcouch, Texas	Santa Rosa R
Terral-Norris Seed Company, Inc. Lake Providence, Louisiana	Terra-Vig brand varieties
Texas Crop Improvement Association College Station, Texas	Dowling
University of Arkansas Fayetteville, Arkansas	Jeff Leflore Narrow
University of Missouri Columbia, Missouri	Avery Bradley Pershing
University of Tennessee Knoxville, Tennessee	Epps TN 4-86 TN 5-85
Virginia Crop Improvement Association Holley, Virginia	Bay Stafford Toano Hutcheson

Table 2. Cultural Practices for Soybean Variety Tests in 1987

Location	Type test	Date planted	Row width	Herbicide used	Fertilizer applied
Belle Mina	Standard	May 13	36	Prowl, Scepter, Dual	None recommended by soil test
	Preliminary	May 13	36	Prowl, Scepter, Dual	None recommended by soil test
Crossville	Standard	May 6	30	Scepter, Dual	100 lb. 0-24-24/acre
	Late	June 11	30	Scepter, Dual	None recommended by soil test
Camden	Standard	May 28	36	Lexone, Basalin, Vernam	None recommended by soil test
Prattville	Standard	May 20	30	Treflan	None recommended by soil test
	Preliminary	May 21	30	Treflan	None recommended by soil test
	Late	June 24	30	Treflan, Vernam	None recommended by soil test
Headland	Standard	June 8	36	Lasso	400 lb. 8-24-24/acre
Monroeville	Preliminary	Not harvested due to poor stand			
Brewton	Early	Not planted due to lack of moisture at planting time			
	Standard	June 1	36	Treflan, Vernam	None recommended by soil test
	Late	July 3	36	Dual	None recommended by soil test
Marion Junction	Standard (Sumter)	May 27	36	Treflan	200 lb. 0-20-20/acre
	Standard (Vaiden)	May 29	36	Treflan	200 lb. 0-20-20/acre
	Late	June 25	36	Treflan	200 lb. 0-20-20/acre
Fairhope	Standard	June 26	30	Scepter, Dual, Blazer	300 lb. 0-14-14/acre
	Late	July 13	30	Lorox, Dual	400 lb. 0-14-14/acre

Table 3. Rainfall at Test Locations During Growing Season, 1987

Month	Days	Belle	Cross-	Pratt-	Marion	Cam-
		Mina	ville	ville	Junction	den
		In.	In.	In.	In.	In.
May	1-5	0.06	0.49	0.41	0.45	2.10
	6-10	.03	0	.19	2.00	.75
	11-15	.60	.62	1.97	.75	2.40
	16-20	.39	.03	.74	1.84	.61
	21-25	.07	2.43	.05	1.44	.33
	26-31	.65	.74	0	0	0
		<u>1.80</u>	<u>4.31</u>	<u>3.36</u>	<u>6.48</u>	<u>6.19</u>
June	1-5	.42	.44	0	0	0
	6-10	0	0	0	0	0
	11-15	1.67	.92	.42	1.86	1.38
	16-20	.82	.03	2.48	1.38	1.70
	21-25	2.12	1.39	.42	.08	.49
	26-30	0	0	.88	.02	.38
		<u>5.03</u>	<u>2.78</u>	<u>4.20</u>	<u>3.34</u>	<u>3.95</u>
July	1-5	2.41	1.50	2.52	.43	1.63
	6-10	1.06	.18	0	.03	1.34
	11-15	.64	.23	0	0	0
	16-20	0	0	0	0	0
	21-25	.07	0	.32	.51	.15
	26-31	0	0	.17	0	0
		<u>4.18</u>	<u>1.91</u>	<u>3.01</u>	<u>.97</u>	<u>3.12</u>
August	1-5	.53	.15	.07	.63	.96
	6-10	.04	.78	2.29	1.31	.87
	11-15	.03	.05	.70	1.52	.40
	16-20	.71	1.09	.39	.34	1.30
	21-25	0	0	0	0	0
	26-31	0	0	0	0	0
		<u>1.31</u>	<u>2.07</u>	<u>3.45</u>	<u>3.80</u>	<u>3.53</u>
Sep- tember	1-5	0	.02	0	0	0
	6-10	1.50	0	3.33	.99	.71
	11-15	4.42	.77	.46	.41	.98
	16-20	.77	.10	.65	.16	.45
	21-25	0	0	0	0	0
	26-30	.95	.30	.42	.01	.05
		<u>7.64</u>	<u>1.19</u>	<u>4.86</u>	<u>1.57</u>	<u>2.19</u>
October	1-5	0	0	0	0	0
	6-10	0	0	0	0	0
	11-15	0	0	0	0	0
	16-20	.07	.03	0	0	0
	21-25	.71	.02	0	0	0
	26-31	.42	.59	.52	.65	.26
		<u>1.20</u>	<u>.64</u>	<u>.52</u>	<u>.65</u>	<u>.26</u>

Table 3 (Continued). Rainfall at Test Locations During Growing Season, 1987

Month	Days	Brew- ton <u>In.</u>	Monroe- ville <u>In.</u>	Head- land <u>In.</u>	Fair- hope <u>In.</u>
May	1-5	1.32	0.57	0.45	0
	6-10	1.43	2.00	2.00	2.76
	11-15	1.75	2.89	.78	5.60
	16-20	2.14	.62	2.25	2.84
	21-25	2.17	.30	1.44	1.15
	26-31	.12	0	0	0
		<u>8.93</u>	<u>6.38</u>	<u>6.92</u>	<u>12.35</u>
June	1-5	.86	0	.36	.36
	6-10	0	0	0	0
	11-15	2.48	3.00	1.73	6.41
	16-20	2.20	1.18	2.53	4.47
	21-25	3.64	.97	1.82	4.02
	26-30	0	.40	.24	.32
		<u>9.18</u>	<u>5.55</u>	<u>6.68</u>	<u>15.58</u>
July	1-5	.49	1.33	.10	.77
	6-10	1.38	.65	0	.77
	11-15	0	0	0	.21
	16-20	0	0	0	.03
	21-25	.41	1.12	0	1.47
	26-31	.68	0	0	1.91
		<u>2.96</u>	<u>3.10</u>	<u>.10</u>	<u>5.16</u>
August	1-5	.39	.46	0	.07
	6-10	.07	.27	0	.11
	11-15	8.77	4.54	4.14	10.17
	16-20	.38	2.84	.01	1.32
	21-25	0	0	0	.81
	26-31	0	.04	.52	0
		<u>9.61</u>	<u>8.15</u>	<u>4.67</u>	<u>12.48</u>
Sep- tember	1-5	.06	.16	1.07	.34
	6-10	.31	1.47	.30	.03
	11-15	.31	2.23	1.11	1.75
	16-20	.19	.67	0	.11
	21-25	0	0	0	.02
	26-30	.81	.03	.05	.15
		<u>1.68</u>	<u>4.56</u>	<u>2.53</u>	<u>2.40</u>
October	1-5	0	0	0	0
	6-10	0	0	0	0
	11-15	0	0	0	0
	16-20	0	0	0	0
	21-25	0	.02	0	0
	26-31	.69	.02	.01	.23
		<u>.69</u>	<u>.04</u>	<u>.01</u>	<u>.23</u>

TABLE 4. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE							
	BELLE	CROSSVILLE		LODGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	MINA	DATE 1	DATE 2	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.		
VERY EARLY											
PERSHING	22.0	29.6	-	1.1	-	1.0	-	34	-	8-31	-
STAFFORD	20.2	31.9	-	1.1	-	1.0	-	32	-	8-30	-
TN4-86	18.2	31.8	-	1.8	-	1.0	-	47	-	8-30	-
EARLY											
ASGROW A 5474	16.1	26.9	-	2.0	-	1.0	-	38	-	9-8	-
ASGROW A 5980	17.5	24.6	-	2.5	-	1.0	-	42	-	9-11	-
AVERY	13.8	25.3	-	2.1	-	1.5	-	48	-	9-7	-
BAY	17.9	26.7	18.2	2.4	1.0	1.3	1.0	38	31	9-13	9-28
BEDFORD	18.9	27.8	-	2.3	-	1.0	-	44	-	9-13	-
COKER C082-824	15.7	27.7	-	1.8	-	1.0	-	36	-	9-9	-
COKER 425	16.1	31.8	-	1.0	-	1.0	-	30	-	9-9	-
COKER 485	15.2	27.9	19.8	1.6	1.0	1.0	1.0	37	30	9-13	10-2
DELTAPINE X415	17.8	35.8	-	1.8	-	1.0	-	36	-	9-10	-
DELTAPINE 105	19.2	28.3	21.6	2.3	1.0	1.0	1.0	39	36	9-13	10-3
DELTAPINE 675	11.1	20.1	-	2.1	-	1.3	-	42	-	9-11	-
EPPS	14.1	20.4	-	3.1	-	1.0	-	38	-	9-12	-
ESSEX	21.6	36.6	-	1.6	-	1.0	-	31	-	9-4	-
FFR 560	13.9	23.4	-	2.8	-	1.0	-	45	-	9-14	-
FFR 561	17.4	27.4	-	1.4	-	1.0	-	35	-	9-9	-
FFR 562	17.4	23.2	-	2.4	-	1.3	-	42	-	9-17	-
FFR 565	14.0	28.2	-	2.0	-	1.0	-	37	-	9-10	-
FORREST	18.4	24.1	19.9	2.1	1.0	1.0	1.0	38	34	9-10	9-29
HARTZ H 5171	18.8	23.4	21.4	2.6	1.0	1.0	1.0	40	36	9-17	10-3
HARTZ H 5370	16.8	24.0	21.2	2.4	1.0	1.0	1.0	42	35	9-11	9-30
HARTZ 5164	14.0	24.9	-	2.5	-	1.0	-	40	-	9-16	-
HUTCHESON	20.3	27.4	-	1.4	-	1.0	-	36	-	9-11	-
NAROW	17.4	29.4	-	1.8	-	1.0	-	37	-	9-10	-
PIONEER 9571	16.5	24.0	20.0	2.3	1.0	1.0	1.0	37	35	9-11	9-30
PIONEER 9581	16.8	27.2	-	2.0	-	1.0	-	36	-	9-10	-
PIONEER 9591	15.0	28.9	-	1.1	-	1.0	-	33	-	9-12	-
SHENANDOAH	17.9	23.5	-	1.8	-	1.0	-	39	-	9-13	-
TERRA-VIG 505	13.4	20.7	-	2.1	-	1.0	-	42	-	9-16	-
TERRA-VIG 515	20.9	22.2	22.1	2.0	1.0	1.0	1.0	39	31	9-16	10-2
TERRA-VIG 553	18.1	24.1	-	2.3	-	1.0	-	38	-	9-11	-
TN 5-85	14.9	26.4	-	1.9	-	1.0	-	40	-	9-9	-
WILSTAR 550	12.8	18.9	-	2.0	-	1.0	-	38	-	9-16	-
YIELD KING 503	12.4	23.1	-	2.4	-	1.0	-	48	-	9-7	-
YIELD KING 593	19.3	22.6	23.9	2.3	1.0	1.0	1.0	44	36	9-26	10-8

CONTINUED ON THE FOLLOWING PAGE

TABLE 4. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE							
	BELLE	CROSSVILLE		LODGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	BU.	BU.	BU.	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.	DATE 1	DATE 2
FULL SEASON											
ASGROW A 6242	23.3	20.3	22.2	2.4	1.0	1.3	1.0	39	31	10-5	10-8
ASGROW A 6785	22.0	22.4	-	2.1	-	1.0	-	41	-	10-11	-
AU 82-589	25.4	30.9	-	1.8	-	1.0	-	40	-	10-16	-
BRADLEY	15.9	20.2	23.2	2.5	1.0	1.3	1.0	37	31	9-17	10-3
CENTENNIAL	24.5	21.0	-	1.9	-	1.0	-	40	-	10-14	-
COKER 686	20.6	20.8	21.8	1.9	1.0	1.0	1.0	43	33	10-14	10-14
DELTAPINE 506	21.7	18.0	19.2	2.4	1.0	1.0	1.0	41	36	10-15	10-17
DELTAPINE 566	22.8	21.8	-	1.5	-	1.0	-	42	-	10-15	-
DELTAPINE 726	22.7	17.5	-	2.3	-	1.3	-	43	-	10-15	-
FFR 668	20.4	24.9	-	1.9	-	1.0	-	43	-	10-15	-
FUNKS M82-57120	25.4	24.1	-	1.9	-	1.0	-	39	-	10-14	-
G 81-234	24.2	23.4	-	1.9	-	1.0	-	43	-	10-15	-
HARTZ H 6130	20.0	24.1	-	2.0	-	1.0	-	42	-	10-6	-
HARTZ X6200	19.3	24.6	-	2.6	-	1.0	-	41	-	9-18	-
HARTZ X6372	25.3	17.2	-	2.1	-	1.0	-	40	-	10-14	-
HARTZ 6385	20.1	16.4	-	2.0	-	1.0	-	40	-	10-13	-
JEFF	21.6	17.8	-	2.6	-	1.0	-	43	-	10-15	-
LEFLORE	18.4	20.5	18.2	2.1	1.0	1.3	1.0	42	35	10-13	10-16
N.K. 569-54	22.3	21.6	22.2	2.0	1.0	1.0	1.0	39	31	10-9	10-11
PIONEER 9691	27.6	26.1	21.8	2.4	1.0	1.0	1.0	40	36	10-13	10-16
RA 606	21.7	21.3	19.2	2.6	1.0	1.3	1.3	42	40	10-6	10-8
RA 680	24.9	21.2	-	2.0	-	1.0	-	41	-	10-15	-
SAMPSON	24.2	15.7	-	1.5	-	1.0	-	40	-	10-15	-
SANALONA	16.1	16.0	-	2.3	-	1.0	-	40	-	10-1	-
SHARKEY	22.2	21.4	-	2.3	-	1.0	-	44	-	10-15	-
TERRA-VIG 616	20.0	18.9	-	2.4	-	1.0	-	45	-	10-15	-
TRACY M	19.9	21.5	-	2.3	-	1.5	-	39	-	10-9	-
TWIGGS	21.4	19.4	-	2.1	-	1.0	-	40	-	10-17	-
YIELD KING 613	19.3	21.4	-	2.0	-	1.0	-	43	-	10-13	-
YIELD KING 696	17.6	17.2	-	2.3	-	1.3	-	43	-	10-3	-
YOUNG	19.3	19.7	19.4	2.1	1.0	1.3	1.0	43	35	10-2	10-12
LATE											
BRAXTON	22.4	12.2	16.4	2.0	1.0	1.0	1.0	42	33	10-19	10-19
COKER 6727	-	-	20.7	-	1.0	-	1.0	-	31	-	10-18
DELTAPINE 497	-	-	18.6	-	1.0	-	1.0	-	32	-	10-21
DUOCROP	-	-	20.8	-	1.0	-	1.0	-	34	-	10-10
GORDON	-	-	23.1	-	1.0	-	1.0	-	38	-	10-16
HARTZ H 7126	-	-	21.6	-	1.0	-	1.0	-	39	-	10-20
RANSOM	-	-	19.8	-	1.0	-	1.0	-	33	-	10-19
TERRA-VIG 708	-	-	17.8	-	1.0	-	1.0	-	35	-	10-19
TERRA-VIG 717	-	-	18.3	-	1.0	-	1.0	-	32	-	10-19
TEST MEANS	19.0	23.6	20.5	2.1	1.0	1.1	1.0	40	34		
L.S.D. (.05)	5.0	6.6	2.6								
C.V. (%)	19.0	20.1	9.1								

VERY EARLY = MATURITY GROUP IV; EARLY = MATURITY GROUP V; FULL SEASON = MATURITY GROUP VI;
LATE = MATURITY GROUP VII.

TABLE 5. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1987		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.		
VERY EARLY														
PERSHING	25.8	-	28.8	-	36.1	-	1.1	-	1.0	-	27	-	9-9	-
STAFFORD	26.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TN4-86	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
EARLY														
ASGROW A 5474	21.5	-	30.6	-	38.6	-	1.8	-	1.0	-	34	-	9-16	-
ASGROW A 5980	21.1	-	31.6	-	39.5	-	2.8	-	1.0	-	39	-	9-20	-
AVERY	19.5	-	-	-	-	-	-	-	-	-	-	-	-	-
BAY	22.3	18.2	30.1	32.5	39.6	34.8	1.8	1.3	1.1	1.2	35	31	9-18	10-7
BEDFORD	23.3	-	32.0	-	38.9	-	2.8	-	1.0	-	42	-	9-21	-
COKER C082-824	21.7	-	-	-	-	-	-	-	-	-	-	-	-	-
COKER 425	24.0	-	29.1	-	37.7	-	1.2	-	1.0	-	25	-	9-15	-
COKER 485	21.5	19.8	35.6	-	41.7	-	2.0	-	1.0	-	34	-	9-23	-
DELTAPINE X415	26.8	-	36.5	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 105	23.8	21.6	32.5	37.5	40.7	37.9	2.4	1.4	1.1	1.0	36	33	9-22	10-10
DELTAPINE 675	15.6	-	27.5	-	-	-	-	-	-	-	-	-	-	-
EPPS	17.3	-	30.0	-	-	-	-	-	-	-	-	-	-	-
ESSEX	29.1	-	33.4	-	39.6	-	1.5	-	1.0	-	27	-	9-13	-
FFR 560	18.7	-	29.8	-	-	-	-	-	-	-	-	-	-	-
FFR 561	22.4	-	32.0	-	39.8	-	1.3	-	1.1	-	30	-	9-20	-
FFR 562	20.3	-	28.6	-	-	-	-	-	-	-	-	-	-	-
FFR 565	21.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FORREST	21.2	19.9	32.6	31.5	41.9	32.9	2.3	1.5	1.0	1.0	35	32	9-19	10-7
HARTZ H 5171	21.1	21.4	33.3	33.7	40.9	-	2.8	-	1.1	-	38	-	9-23	-
HARTZ H 5370	20.4	21.2	33.4	36.6	41.0	-	2.3	-	1.0	-	38	-	9-21	-
HARTZ 5164	19.5	-	34.3	-	-	-	-	-	-	-	-	-	-	-
HUTCHESON	23.8	-	-	-	-	-	-	-	-	-	-	-	-	-
NAROW	23.4	-	29.9	-	38.2	-	2.0	-	1.0	-	29	-	9-16	-
PIONEER 9571	20.3	20.0	31.7	34.4	40.5	-	2.3	-	1.0	-	35	-	9-21	-
PIONEER 9581	22.0	-	-	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9591	21.9	-	33.0	-	-	-	-	-	-	-	-	-	-	-
SHENANDOAH	20.7	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 505	17.0	-	27.4	-	36.6	-	2.6	-	1.0	-	38	-	9-23	-
TERRA-VIG 515	21.6	22.1	35.6	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 553	21.1	-	30.9	-	39.1	-	2.3	-	1.0	-	36	-	9-19	-
TN 5-85	20.6	-	-	-	-	-	-	-	-	-	-	-	-	-
WILSTAR 550	15.9	-	26.3	-	34.0	-	2.3	-	1.0	-	35	-	9-23	-
YIELD KING 503	17.8	-	27.7	-	37.0	-	2.6	-	1.0	-	44	-	9-15	-
YIELD KING 593	20.9	23.9	32.3	33.5	39.0	-	2.6	-	1.1	-	40	-	9-30	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 2. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1987		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.		
FULL SEASON														
ASGROW A 6242	21.8	22.2	33.2	-	-	-	-	-	-	-	-	-	-	-
ASGROW A 6785	22.2	-	-	-	-	-	-	-	-	-	-	-	-	-
AU 82-589	28.1	-	-	-	-	-	-	-	-	-	-	-	-	-
BRADLEY	18.0	23.2	29.9	34.4	36.3	35.5	2.7	1.8	1.1	1.0	34	32	9-25	10-11
CENTENNIAL	22.7	-	32.4	-	37.6	-	2.3	-	1.0	-	38	-	10-11	-
COKER 686	20.7	21.8	33.4	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 506	19.8	19.2	27.1	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 566	22.3	-	32.9	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 726	20.1	-	-	-	-	-	-	-	-	-	-	-	-	-
FFR 668	22.7	-	29.6	-	-	-	-	-	-	-	-	-	-	-
FUNKS M82-57120	24.7	-	-	-	-	-	-	-	-	-	-	-	-	-
G 81-234	23.8	-	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 6130	22.1	-	33.3	-	36.9	-	2.0	-	1.0	-	40	-	10-5	-
HARTZ X6200	22.0	-	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ X6372	21.2	-	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ 6385	18.2	-	31.5	-	-	-	-	-	-	-	-	-	-	-
JEFF	19.7	-	31.4	-	35.6	-	3.2	-	1.0	-	40	-	10-10	-
LEFLORE	19.5	18.2	32.2	33.3	36.6	-	2.4	-	1.1	-	40	-	10-9	-
N.K. 569-54	22.0	-	34.6	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9691	26.9	21.8	36.2	-	-	-	-	-	-	-	-	-	-	-
RA 606	21.5	19.2	32.7	34.3	39.1	-	3.1	-	1.1	-	42	-	10-4	-
RA 680	23.1	-	32.0	-	-	-	-	-	-	-	-	-	-	-
SAMPSON	20.0	-	30.1	-	-	-	-	-	-	-	-	-	-	-
SANALONA	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
SHARKEY	21.8	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 616	19.4	-	30.1	-	-	-	-	-	-	-	-	-	-	-
TRACY M	20.7	-	31.0	-	38.2	-	2.5	-	1.1	-	36	-	10-6	-
TWIGGS	20.4	-	31.5	-	-	-	-	-	-	-	-	-	-	-
YIELD KING 613	20.4	-	29.4	-	-	-	-	-	-	-	-	-	-	-
YIELD KING 696	17.4	-	-	-	-	-	-	-	-	-	-	-	-	-
YOUNG	19.5	19.4	28.4	32.6	35.7	-	2.5	-	1.1	-	41	-	10-2	-
LATE														
BRAXTON	17.3	16.4	25.2	34.8	33.5	36.6	2.2	1.3	1.8	1.0	41	35	10-16	10-21
COKER 6727	-	20.7	-	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 497	-	18.6	-	32.0	-	-	-	-	-	-	-	-	-	-
DUOCROP	-	20.8	-	36.7	-	-	-	-	-	-	-	-	-	-
GORDON	-	23.1	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7126	-	21.6	-	35.6	-	-	-	-	-	-	-	-	-	-
RANSOM	-	19.8	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 708	-	17.8	-	35.8	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 717	-	18.3	-	35.1	-	-	-	-	-	-	-	-	-	-
TEST MEANS	21.3	20.5	31.3	34.4	38.3	35.5	2.3	1.5	1.0	1.0	36	32		
L.S.D. (.05)	5.5	3.1	7.4		9.6									
C.V. (%)	18.6	10.6	17.0		18.0									

VERY EARLY = MATURITY GROUP IV; EARLY = MATURITY GROUP V; FULL SEASON = MATURITY GROUP VI; LATE = MATURITY GROUP VII.

THE PLANTING DATE FOR FIRST PLANTING WAS MAY 9, MAY 13, AND MAY 11 FOR 1-YEAR, 2-YEAR, AND 3-YEAR AVERAGES, RESPECTIVELY, AND SECOND PLANTING DATE WAS JUNE 11, JUNE 15, AND JUNE 7, RESPECTIVELY.

TABLE 6. PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE							
	CAM- DEN	PRATTVILLE		LODGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
		BU.	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1	DATE 2	DATE 1
VERY EARLY				SCORE	SCORE	SCORE	SCORE	IN.	IN.		
ASGROW A 5474	13.1	8.5	-	0.6	-	2.6	-	28	-	10-6	-
ASGROW A 5980	15.4	8.1	-	0.6	-	3.0	-	31	-	10-4	-
BAY	9.6	7.9	-	0.6	-	3.5	-	26	-	10-6	-
COKER 425	9.1	11.2	-	0.5	-	3.5	-	21	-	10-5	-
COKER 485	14.0	11.6	-	0.5	-	3.1	-	27	-	10-8	-
DELTAPINE X415	10.8	10.0	-	0.5	-	3.3	-	25	-	10-6	-
DELTAPINE 105	18.6	11.0	-	0.5	-	2.9	-	30	-	10-6	-
FFR 560	15.7	10.9	-	0.9	-	3.1	-	30	-	10-6	-
FFR 561	7.9	7.5	-	0.5	-	3.4	-	22	-	10-4	-
FORREST	14.1	11.3	-	0.5	-	2.5	-	27	-	10-4	-
HARTZ H 5370	13.1	13.1	-	0.5	-	2.8	-	27	-	10-6	-
HARTZ 5164	14.4	10.0	-	0.6	-	2.8	-	28	-	10-7	-
PIONEER 9571	13.8	10.4	-	0.5	-	3.1	-	27	-	10-2	-
TERRA-VIG 505	15.4	9.7	-	0.8	-	3.3	-	27	-	10-9	-
TERRA-VIG 515	19.5	8.7	-	0.6	-	2.9	-	27	-	10-12	-
TN 5-85	7.9	8.5	-	0.5	-	3.3	-	26	-	10-3	-
WILSTAR 550	17.2	9.1	-	0.8	-	2.5	-	27	-	10-6	-
EARLY											
ASGROW A 6242	13.1	8.8	-	0.5	-	2.3	-	26	-	10-14	-
ASGROW A 6785	16.6	9.3	25.4	0.5	1.3	2.0	1.0	29	30	10-16	10-19
BRADLEY	10.0	10.9	-	0.6	-	2.9	-	23	-	10-15	-
CENTENNIAL	17.2	9.3	-	0.5	-	1.4	-	30	-	10-24	-
COKER 686	15.8	9.0	21.0	0.5	1.0	1.5	1.0	31	31	10-24	10-21
DAVIS	14.8	7.8	19.6	0.8	1.0	2.5	1.8	35	31	10-21	10-18
FFR 668	18.7	9.3	-	0.5	-	1.4	-	30	-	10-26	-
HARTZ X6200	14.1	10.6	-	0.5	-	2.1	-	30	-	10-16	-
HARTZ 6385	14.4	9.0	17.9	0.5	1.3	1.5	1.0	27	30	10-22	10-18
LEFLORE	15.4	9.0	21.8	0.5	1.0	1.9	1.3	29	30	10-23	10-21
N.K. 569-54	15.2	9.4	20.2	0.5	1.0	1.5	1.3	27	26	10-22	10-19
PIONEER 9691	18.9	9.9	-	0.5	-	1.3	-	29	-	10-27	-
RA 606	14.6	9.6	19.2	0.8	1.5	3.0	1.5	34	32	10-18	10-20
RA 680	17.5	9.0	-	0.5	-	1.5	-	30	-	10-24	-
SHARKEY	16.1	9.3	-	0.5	-	1.6	-	36	-	10-23	-
TRACY M	17.2	9.3	15.1	0.5	1.3	2.0	1.8	30	29	10-23	10-23
TWIGGS	18.6	9.7	-	0.5	-	1.3	-	30	-	10-23	-
YIELD KING 613	16.7	9.3	-	0.5	-	1.5	-	29	-	10-24	-
YIELD KING 696	14.3	8.4	-	0.5	-	2.5	-	35	-	10-21	-
YOUNG	12.9	9.4	18.1	0.5	1.0	2.6	1.3	33	28	10-18	10-22

CONTINUED ON THE FOLLOWING PAGE

TABLE 6. PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE							
	CAM-	PRATTVILLE		LODGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	DEN	DATE 1	DATE 2	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.		
FULL SEASON											
AU 82-204	15.5	9.3	-	0.5	-	1.6	-	27	-	10-28	-
AU 82-211	17.8	7.8	-	0.5	-	1.3	-	29	-	10-30	-
BRAXTON	16.4	8.7	13.7	0.5	1.0	1.4	1.0	34	29	10-31	10-28
COKER 6727	16.9	9.3	23.3	0.5	1.0	1.3	1.0	29	28	10-30	10-26
COKER 6847	16.4	9.0	-	0.5	-	1.1	-	31	-	10-31	-
DELTAPINE 417	15.7	9.9	14.3	0.6	1.0	1.4	1.0	37	30	10-31	10-27
DELTAPINE 497	20.4	10.2	-	0.5	-	1.3	-	36	-	10-31	-
FFR 771	19.8	9.3	-	0.5	-	1.1	-	35	-	11-1	-
GASOY 17	21.6	8.4	-	0.5	-	1.1	-	34	-	10-31	-
GORDON	14.6	8.4	22.0	0.5	1.5	1.5	1.0	30	32	10-28	10-21
HARTZ H 7110	18.7	8.7	19.5	0.5	1.0	1.3	1.0	31	31	10-28	10-22
HARTZ H 7126	16.9	8.7	20.3	0.5	1.3	1.8	1.0	31	33	10-28	10-23
N.K. S72-60	16.1	9.0	18.0	0.5	2.0	1.5	1.0	33	30	10-28	10-20
PIONEER 9791	17.5	9.7	22.9	0.5	1.0	1.3	1.0	28	27	10-30	10-25
STARR	17.6	9.6	-	0.5	-	1.6	-	32	-	11-1	-
TERRA-VIG 708	19.3	9.0	18.6	0.5	1.0	1.3	1.3	29	30	11-1	10-23
TERRA-VIG 717	21.8	8.6	-	0.5	-	1.0	-	30	-	10-28	-
WILSTAR 790	16.7	9.3	-	0.5	-	1.1	-	32	-	11-1	-
WRIGHT	16.1	9.0	-	0.5	-	1.3	-	30	-	10-29	-
LATE											
COBB	18.4	8.6	12.1	0.5	1.8	1.8	1.3	38	34	10-30	11-2
COKER 368	18.7	8.6	14.9	0.5	1.0	1.4	1.0	35	28	11-2	10-31
COKER 6738	18.6	8.9	20.2	0.5	1.0	1.4	1.0	34	29	11-2	10-30
DOWLING	17.6	9.9	18.7	0.5	1.0	1.3	1.3	34	28	11-3	10-30
FOSTER	16.7	8.7	18.8	0.6	1.3	1.3	1.0	33	29	10-29	10-22
HUTTON	16.0	10.2	12.5	0.6	1.0	1.1	1.0	33	29	11-1	11-4
JOHNSTON	18.6	9.6	22.6	0.8	1.3	1.0	1.0	31	27	10-31	10-28
KIRBY	16.4	9.0	11.5	0.5	1.0	1.4	1.3	35	31	11-4	10-30
SANTA ROSA R	-	-	7.5	-	1.0	-	1.3	-	38	-	11-8
TEST MEANS											
TEST MEANS	15.9	9.4	18.1	0.5	1.2	2.0	1.1	30	30		
L.S.D. (.05)	4.1	1.4	5.9								
C.V. (%)	18.6	10.5	23.1								

VERY EARLY = MATURITY GROUP V; EARLY = MATURITY GROUP VI; FULL SEASON = MATURITY GROUP VII; LATE = MATURITY GROUP VIII.

TABLE 7. PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1987		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.		
VERY EARLY														
ASGROW A 5474	10.8	-	-	-	-	-	-	-	-	-	-	-	-	-
ASGROW A 5980	11.7	-	17.2	-	24.2	-	1.2	-	2.2	-	29	-	9-29	-
BAY	8.7	-	13.4	-	-	-	-	-	-	-	-	-	-	-
COKER 425	10.2	-	14.4	-	-	-	-	-	-	-	-	-	-	-
COKER 485	12.8	-	16.5	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE X415	10.4	-	15.8	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 105	14.8	-	19.2	-	27.0	-	1.1	-	2.2	-	27	-	9-28	-
FFR 560	13.3	-	17.8	-	-	-	-	-	-	-	-	-	-	-
FFR 561	7.7	-	14.7	-	22.3	-	0.8	-	3.0	-	21	-	9-28	-
FORREST	12.7	-	17.6	-	23.9	-	1.1	-	1.9	-	24	-	9-30	-
HARTZ H 5370	13.1	-	17.5	-	23.4	-	1.0	-	1.9	-	25	-	9-30	-
HARTZ 5164	12.2	-	-	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9571	12.1	-	17.2	-	23.6	-	1.1	-	2.3	-	26	-	9-30	-
TERRA-VIG 505	12.5	-	17.2	-	23.8	-	1.4	-	2.6	-	26	-	10-1	-
TERRA-VIG 515	14.1	-	17.5	-	-	-	-	-	-	-	-	-	-	-
TN 5-85	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-
WILSTAR 550	13.1	-	-	-	-	-	-	-	-	-	-	-	-	-
EARLY														
ASGROW A 6242	10.9	-	-	-	-	-	-	-	-	-	-	-	-	-
ASGROW A 6785	13.0	25.4	20.6	-	-	-	-	-	-	-	-	-	-	-
BRADLEY	10.5	-	16.2	-	21.8	-	1.1	-	2.1	-	22	-	10-5	-
CENTENNIAL	13.3	-	17.0	-	23.2	-	0.9	-	1.3	-	29	-	10-14	-
COKER 686	12.4	21.0	-	-	-	-	-	-	-	-	-	-	-	-
DAVIS	11.3	19.6	17.6	-	24.2	-	1.1	-	2.3	-	33	-	10-11	-
FFR 668	14.0	-	17.7	-	22.4	-	1.1	-	1.4	-	28	-	10-17	-
HARTZ X6200	12.4	-	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ 6385	11.7	17.9	19.0	-	-	-	-	-	-	-	-	-	-	-
LEFLORE	12.2	21.8	18.2	-	24.3	-	1.0	-	1.5	-	30	-	10-14	-
N.K. 569-54	12.3	20.2	-	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9691	14.4	-	19.7	-	-	-	-	-	-	-	-	-	-	-
RA 606	12.1	19.2	17.8	-	-	-	-	-	-	-	-	-	-	-
RA 680	13.3	-	19.2	-	24.4	-	1.0	-	1.4	-	29	-	10-14	-
SHARKEY	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-
TRACY M	13.3	15.1	17.6	-	23.6	-	1.2	-	1.8	-	29	-	10-12	-
TWIGGS	14.1	-	19.2	-	-	-	-	-	-	-	-	-	-	-
YIELD KING 613	13.0	-	19.0	-	25.0	-	1.0	-	1.6	-	33	-	10-10	-
YIELD KING 696	11.4	-	-	-	-	-	-	-	-	-	-	-	-	-
YOUNG	11.1	18.1	18.0	-	25.1	-	1.3	-	2.4	-	32	-	10-9	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 7. PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1987		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.		
FULL SEASON														
AU 82-204	12.4	-	16.9	-	-	-	-	-	-	-	-	-	-	-
AU 82-211	12.8	-	-	-	-	-	-	-	-	-	-	-	-	-
BRAXTON	12.5	13.7	17.2	-	24.1	-	0.9	-	1.3	-	34	-	10-22	-
COKER 6727	13.1	23.3	18.5	-	-	-	-	-	-	-	-	-	-	-
COKER 6847	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 417	12.8	14.3	15.8	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 497	15.3	-	21.3	-	26.3	-	1.2	-	1.3	-	37	-	10-22	-
FFR 771	14.5	-	17.2	-	-	-	-	-	-	-	-	-	-	-
GASOY 17	15.0	-	18.5	-	24.5	-	1.1	-	1.2	-	34	-	10-20	-
GORDON	11.5	22.0	17.1	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7110	13.7	19.5	20.8	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7126	12.8	20.3	16.9	-	22.5	-	1.2	-	1.4	-	31	-	10-16	-
N-K. S72-60	12.6	18.0	18.9	-	24.7	-	1.6	-	1.3	-	32	-	10-16	-
PIONEER 9791	13.6	22.9	-	-	-	-	-	-	-	-	-	-	-	-
STARR	13.6	-	15.3	-	20.2	-	1.0	-	1.4	-	30	-	10-20	-
TERRA-VIG 708	14.2	18.6	18.3	-	24.5	-	1.2	-	1.3	-	28	-	10-18	-
TERRA-VIG 717	15.2	-	19.6	-	25.5	-	1.1	-	1.2	-	29	-	10-18	-
WILSTAR 790	13.0	-	-	-	-	-	-	-	-	-	-	-	-	-
WRIGHT	12.6	-	18.8	-	24.5	-	1.3	-	1.3	-	31	-	10-18	-
LATE														
COBB	13.5	12.1	18.7	-	-	-	-	-	-	-	-	-	-	-
COKER 368	13.7	14.9	18.9	-	25.7	-	1.3	-	1.3	-	35	-	10-25	-
COKER 6738	13.8	20.2	-	-	-	-	-	-	-	-	-	-	-	-
DOWLING	13.8	18.7	17.8	-	-	-	-	-	-	-	-	-	-	-
FOSTER	12.7	18.8	19.1	-	-	-	-	-	-	-	-	-	-	-
HUTTON	13.1	12.5	15.6	-	20.1	-	1.3	-	1.2	-	33	-	10-25	-
JOHNSTON	14.1	22.6	18.0	-	-	-	-	-	-	-	-	-	-	-
KIRBY	12.7	11.5	15.1	-	-	-	-	-	-	-	-	-	-	-
SANTA ROSA R	-	7.5	-	-	-	-	-	-	-	-	-	-	-	-
TEST MEANS														
	12.6	18.1	17.7	-	23.9	-	1.1	-	1.7	-	29	-	-	-
L.S.D. (.05)	3.3	4.4	9.8		9.1									
C.V. (%)	18.7	17.2	40.0		27.5									

VERY EARLY = MATURITY GROUP V; EARLY = MATURITY GROUP VI; FULL SEASON = MATURITY GROUP VII; LATE = MATURITY GROUP VIII.

THE PLANTING DATE FOR FIRST PLANTING WAS MAY 24, MAY 21, AND MAY 17 FOR 1-YEAR, 2-YEAR, AND 3-YEAR AVERAGES, RESPECTIVELY, AND SECOND PLANTING DATE WAS JUNE 24, 1987.

TABLE 8. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE BU.	LODGING SCORE	SHATTERING SCORE	AVERAGE	MATURITY DATE
				PLANT HEIGHT IN.	
<u>VERY EARLY</u>					
BAY	10.6	1.0	2.3	18	9-29
BEDFORD	13.4	1.3	1.5	24	10-1
COKER 485	11.9	1.0	1.5	20	10-4
DELTAPINE 105	18.4	1.0	1.3	22	9-26
DELTAPINE 675	16.0	1.0	1.8	23	9-26
FFR 562	14.2	1.0	1.8	20	9-29
FFR 565	17.0	1.0	2.0	20	9-25
FORREST	12.8	1.0	1.3	18	9-30
HARTZ H 5171	10.8	1.0	1.8	21	10-2
HARTZ H 5370	19.8	1.0	1.8	21	9-23
NAROW	20.3	1.0	2.5	18	9-19
PIONEER 9581	11.2	1.0	1.5	19	10-2
TERRA-VIG 505	16.8	1.3	1.5	19	9-29
TERRA-VIG 515	11.9	1.0	1.5	20	10-5
TERRA-VIG 553	12.4	1.0	2.0	21	9-27
WILSTAR 550	18.3	1.0	1.8	19	9-24
<u>EARLY</u>					
ASGROW A 6242	11.5	1.0	2.0	17	10-5
AU 82-589	13.7	1.0	1.3	20	10-10
CENTENNIAL	7.6	1.0	2.0	21	10-12
COKER 686	16.6	1.0	1.3	22	10-11
DAVIS	17.1	1.8	1.5	28	10-4
DELTAPINE 506	17.7	1.5	1.0	26	10-12
DELTAPINE 566	6.6	1.0	2.5	17	10-17
HARTZ H 6130	5.4	1.0	2.5	15	10-11
JEFF	9.8	1.3	2.0	25	10-12
LEFLORE	14.1	1.0	1.5	23	10-11
N.K. 569-54	11.9	1.0	1.5	20	10-14
PIONEER 9691	17.4	1.0	1.3	23	10-16
RA 606	15.2	1.0	1.5	28	9-29
RA 680	8.9	1.0	1.8	22	10-16
SANALONA	13.1	1.3	2.5	24	10-6
SHARKEY	9.9	1.3	2.5	27	10-18
TERRA-VIG 616	13.7	1.0	1.0	25	10-9
TRACY M	15.4	1.0	2.3	23	10-11
TWIGGS	12.4	1.0	1.3	21	10-19
YIELD KING 613	4.4	1.0	1.8	19	10-20
YOUNG	13.8	2.3	2.0	26	10-2

CONTINUED ON THE FOLLOWING PAGE

TABLE 8. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE BU.	AVERAGE			MATURITY DATE
		LODGING SCORE	SHATTERING SCORE	PLANT HEIGHT IN.	
FULL SEASON					
ASGROW A 7986	18.8	1.3	1.0	27	10-21
AU 82-204	16.1	1.0	1.8	25	10-18
AU 82-211	16.9	1.0	1.8	25	10-16
BRAXTON	18.8	1.0	1.0	28	10-19
COKER 6727	18.8	1.3	1.0	23	10-17
COKER 6847	20.1	1.0	1.3	27	10-16
DELTAPINE 417	13.7	1.0	1.8	28	10-16
DELTAPINE 497	13.2	1.0	2.0	26	10-22
DUOCROP	14.9	1.0	1.0	32	10-6
GASOY 17	15.4	1.0	1.0	26	10-14
GORDON	9.8	1.0	1.5	23	10-12
HARTZ H 7110	6.2	1.0	1.8	22	10-31
HARTZ H 7126	14.0	1.0	1.8	25	10-16
N.K. S72-60	15.7	1.8	1.5	27	10-13
PIONEER 9791	9.1	1.0	1.0	22	10-19
RANSOM	17.2	1.0	1.3	28	10-9
STARR	9.0	1.0	2.3	21	10-17
TERRA-VIG 708	10.5	1.0	2.0	23	10-17
TERRA-VIG 717	8.2	1.0	1.8	23	10-20
WILSTAR 790	12.1	1.0	1.3	28	10-20
WRIGHT	12.3	1.0	1.0	25	10-20
LATE					
COBB	14.7	1.5	3.5	31	10-18
COKER 368	6.7	1.0	1.8	23	10-22
COKER 6738	12.6	1.0	1.3	23	10-26
DOWLING	17.1	1.3	2.3	27	10-19
FOSTER	5.4	1.0	1.3	18	10-18
HARTZ H 8112	15.3	1.0	1.0	26	10-15
HUTTON	12.2	1.3	1.3	26	10-16
JOHNSTON	14.5	1.3	1.3	26	10-14
KIRBY	7.3	1.0	1.3	22	10-24
TEST MEANS	13.3	1.1	1.6	23	
L.S.D. (.05)	5.0				
C.V. (%)	29.5				

VERY EARLY = MATURITY GROUP V; EARLY = MATURITY GROUP VI;
 FULL SEASON = MATURITY GROUP VII; LATE = MATURITY GROUP VIII.

TABLE 9. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE			3-YEAR AVERAGE			
	1987 BU _a	2-YR. AV. BU _a	3-YR. AV. BU _a	LODGING SCORE	SHATTERING SCORE	PLANT HEIGHT IN _a	MATURITY DATE
VERY EARLY							
BAY	10.6	12.7	14.4	1.0	1.6	14	-
BEDFORD	13.4	12.2	-	-	-	-	-
COKER 485	11.9	18.2	-	-	-	-	-
DELTAPINE 105	18.4	21.6	23.7	1.0	1.2	19	-
DELTAPINE 675	16.0	19.4	-	-	-	-	-
FFR 562	14.2	19.2	-	-	-	-	-
FFR 565	17.0	-	-	-	-	-	-
FORREST	12.8	9.9	-	-	-	-	-
HARTZ H 5171	10.8	13.4	-	-	-	-	-
HARTZ H 5370	19.8	20.0	22.8	1.0	1.3	19	-
NAROW	20.3	-	-	-	-	-	-
PIONEER 9581	11.2	-	-	-	-	-	-
TERRA-VIG 505	16.8	16.8	18.8	1.1	1.2	17	-
TERRA-VIG 515	11.9	-	-	-	-	-	-
TERRA-VIG 553	12.4	18.4	-	-	-	-	-
WILSTAR 550	18.3	22.5	23.1	1.0	1.3	18	-
EARLY							
ASGROW A 6242	11.5	16.0	-	-	-	-	-
AU 82-589	13.7	-	-	-	-	-	-
CENTENNIAL	7.6	14.4	11.7	1.2	1.3	21	-
COKER 686	16.6	19.4	20.1	1.0	1.1	22	-
DAVIS	17.1	25.5	24.5	1.4	1.3	26	-
DELTAPINE 506	17.7	24.1	22.5	1.3	1.0	25	-
DELTAPINE 566	6.6	12.4	9.0	1.0	1.5	18	-
HARTZ H 6130	5.4	11.4	8.5	1.0	1.5	15	-
JEFF	9.8	15.3	-	-	-	-	-
LEFLORE	14.1	17.2	16.9	1.0	1.2	22	-
N.K. S69-54	11.9	16.8	-	-	-	-	-
PIONEER 9691	17.4	-	-	-	-	-	-
RA 606	15.2	20.2	-	-	-	-	-
RA 680	8.9	15.3	12.6	1.0	1.3	19	-
SANALONA	13.1	-	-	-	-	-	-
SHARKEY	9.9	-	-	-	-	-	-
TERRA-VIG 616	13.7	17.1	-	-	-	-	-
TRACY M	15.4	23.5	19.2	1.2	1.4	22	-
TWIGGS	12.4	16.5	-	-	-	-	-
YIELD KING 613	4.4	17.5	-	-	-	-	-
YOUNG	13.8	21.9	-	-	-	-	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 9. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE			3-YEAR AVERAGE			
	1987 BU.	2-YR. AV. BU.	3-YR. AV. BU.	LODGING SCORE	SHATTERING SCORE	PLANT HEIGHT IN.	MATURITY DATE
FULL SEASON							
ASGROW A 7986	18.8	25.9	-	-	-	-	-
AU 82-204	16.1	20.8	-	-	-	-	-
AU 82-211	16.9	-	-	-	-	-	-
BRAXTON	18.8	24.6	22.4	1.0	1.0	27	-
COKER 6727	18.8	-	-	-	-	-	-
COKER 6847	20.1	-	-	-	-	-	-
DELTAPINE 417	13.7	17.9	15.1	1.1	1.3	25	-
DELTAPINE 497	13.2	18.7	15.2	1.1	1.3	24	-
DUOCROP	14.9	17.7	18.6	1.3	1.0	30	-
GASOY 17	15.4	17.7	15.1	1.0	1.1	24	-
GORDON	9.8	12.1	-	-	-	-	-
HARTZ H 7110	6.2	7.8	-	-	-	-	-
HARTZ H 7126	14.0	11.7	13.6	1.0	1.3	20	-
N.K. 572-60	15.7	19.9	-	-	-	-	-
PIONEER 9791	9.1	16.1	-	-	-	-	-
RANSOM	17.2	24.0	21.0	1.0	1.1	23	-
STARR	9.0	12.0	11.5	1.0	1.4	17	-
TERRA-VIG 708	10.5	17.0	-	-	-	-	-
TERRA-VIG 717	8.2	-	-	-	-	-	-
WILSTAR 790	12.1	15.4	-	-	-	-	-
WRIGHT	12.3	19.4	16.9	1.3	1.0	23	-
LATE							
COBB	14.7	15.8	-	-	-	-	-
COKER 368	6.7	8.6	10.3	1.2	1.3	20	-
COKER 6738	12.6	16.2	-	-	-	-	-
DOWLING	17.1	17.0	18.8	1.2	1.5	25	-
FOSTER	5.4	3.4	-	-	-	-	-
HARTZ H 8112	15.3	17.5	-	-	-	-	-
HUTTON	12.2	15.4	13.0	1.3	1.1	25	-
JOHNSTON	14.5	21.4	-	-	-	-	-
KIRBY	7.3	6.6	-	-	-	-	-
TEST MEANS							
TEST MEANS	13.3	16.9	16.9	1.1	1.2	22	
L.S.D. (.05)	5.0	8.9	7.7				
C.V. (%)	29.7	28.2	28.4				

VERY EARLY = MATURITY GROUP V ; EARLY = MATURITY GROUP VI ; FULL SEASON = MATURITY GROUP VII ;
LATE = MATURITY GROUP VIII.

THE PLANTING DATE FOR 1-YEAR, 2-YEAR, AND 3-YEAR. AVERAGES WAS MAY 27, MAY 31, AND MAY 26,
RESPECTIVELY.

TABLE 10. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE		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
	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
VERY EARLY										
BAY	37.4	-	1.0	-	1.3	-	23	-	9-27	-
BEDFORD	36.9	-	1.0	-	1.0	-	23	-	9-28	-
COKER 485	40.5	-	1.0	-	1.0	-	22	-	9-30	-
DELTAPINE 105	43.9	-	1.0	-	1.3	-	24	-	9-28	-
DELTAPINE 675	32.4	-	1.0	-	1.0	-	24	-	9-28	-
FFR 562	38.2	-	1.0	-	1.0	-	23	-	9-30	-
FFR 565	35.3	-	1.0	-	1.5	-	21	-	9-25	-
FORREST	34.8	-	1.0	-	1.3	-	22	-	9-24	-
HARTZ H 5171	41.6	-	1.0	-	1.3	-	28	-	9-27	-
HARTZ H 5370	44.5	-	1.0	-	1.0	-	23	-	9-26	-
NAROW	41.9	-	1.0	-	1.0	-	18	-	9-24	-
PIONEER 9581	36.1	-	1.0	-	1.3	-	20	-	9-28	-
TERRA-VIG 505	42.2	-	1.0	-	1.0	-	24	-	9-29	-
TERRA-VIG 515	43.2	-	1.0	-	1.3	-	23	-	9-30	-
TERRA-VIG 553	36.0	-	1.0	-	1.8	-	24	-	9-23	-
WILSTAR 550	43.1	-	1.0	-	1.0	-	22	-	9-30	-
EARLY										
ASGROW A 6242	29.9	33.5	1.0	1.0	1.3	1.0	21	32	10-1	10-7
AU 82-589	38.1	-	1.0	-	1.3	-	26	-	10-11	-
CENTENNIAL	42.4	-	1.0	-	1.0	-	31	-	10-7	-
COKER 686	43.0	-	1.5	-	1.0	-	29	-	10-6	-
DAVIS	43.7	36.9	1.3	2.3	1.5	1.0	32	37	10-6	10-14
DELTAPINE 506	40.5	-	1.5	-	1.0	-	30	-	10-11	-
DELTAPINE 566	38.5	36.7	1.0	1.0	1.0	1.0	27	34	10-11	10-13
HARTZ H 6130	40.0	31.2	1.0	2.0	1.0	1.0	26	36	10-5	10-9
JEFF	30.3	-	1.8	-	1.8	-	31	-	10-9	-
LEFLORE	40.3	30.3	1.0	2.0	1.3	1.0	28	34	10-8	10-12
N.K. 569-54	37.1	-	1.3	-	1.5	-	26	-	10-7	-
PIONEER 9691	41.6	-	1.0	-	1.0	-	28	-	10-9	-
RA 606	41.5	34.8	1.0	1.8	1.0	1.0	30	40	10-2	10-13
RA 680	38.6	-	1.0	-	1.0	-	30	-	10-9	-
SANALONA	42.9	-	1.3	-	1.5	-	27	-	10-4	-
SHARKEY	46.2	-	2.8	-	1.0	-	36	-	10-6	-
TERRA-VIG 616	40.0	-	1.0	-	1.0	-	31	-	10-9	-
TRACY M	37.3	28.3	1.5	3.0	1.0	1.0	28	34	10-4	10-7
TWIGGS	32.7	-	1.0	-	1.3	-	27	-	10-16	-
YIELD KING 613	35.4	32.2	1.0	1.3	1.0	1.0	30	33	10-9	10-11
YOUNG	38.9	36.9	1.3	1.8	1.3	1.0	30	37	10-6	10-11

CONTINUED ON THE FOLLOWING PAGE

TABLE 10. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE		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
	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
FULL SEASON										
ASGROW A 7986	36.9	-	1.0	-	1.0	-	31	-	10-17	-
AU 82-204	48.0	-	1.3	-	1.0	-	30	-	10-12	-
AU 82-211	49.6	-	1.0	-	1.0	-	31	-	10-13	-
BRAXTON	45.3	36.3	1.0	1.5	1.0	1.0	33	40	10-13	10-18
COKER 6727	46.8	35.1	1.0	1.8	1.0	1.0	29	34	10-11	10-13
COKER 6847	46.8	-	1.3	-	1.0	-	33	-	10-12	-
DELTAPINE 417	39.8	32.8	1.3	2.0	1.0	1.0	38	40	10-15	10-20
DELTAPINE 497	45.5	-	1.0	-	1.0	-	36	-	10-13	-
DUOCROP	38.4	28.8	2.3	1.3	1.0	1.0	46	42	10-3	10-15
GASOY 17	33.5	-	1.0	-	1.0	-	34	-	10-13	-
GORDON	36.4	33.9	1.0	2.0	1.0	1.3	30	35	10-10	10-15
HARTZ H 7110	45.4	-	1.0	-	1.0	-	33	-	10-14	-
HARTZ H 7126	39.6	32.5	1.0	2.8	1.0	1.3	34	41	10-14	10-18
N.K. 572-60	40.1	-	2.0	-	1.0	-	33	-	10-12	-
PIONEER 9791	42.4	32.1	1.0	1.3	1.0	1.0	28	31	10-11	10-17
RANSOM	40.4	-	1.0	-	1.3	-	27	-	10-13	-
STARR	39.0	31.8	1.3	1.5	1.0	2.0	29	32	10-13	10-14
TERRA-VIG 708	42.3	-	1.3	-	1.3	-	27	-	10-13	-
TERRA-VIG 717	39.3	-	1.0	-	1.0	-	31	-	10-13	-
WILSTAR 790	25.9	-	1.0	-	1.0	-	32	-	10-15	-
WRIGHT	43.0	34.0	1.0	2.5	1.0	1.0	31	36	10-13	10-16
LATE										
COBB	31.0	32.4	1.3	1.3	2.3	1.5	36	41	10-21	10-27
COKER 368	38.2	34.1	1.3	1.3	1.0	1.3	33	36	10-15	10-21
COKER 6738	40.9	-	1.0	-	1.0	-	31	-	10-18	-
DOWLING	38.0	33.6	1.3	1.0	1.8	1.3	34	38	10-21	10-26
FOSTER	35.2	28.9	1.5	2.5	1.0	1.0	31	35	10-16	10-23
HARTZ H 8112	33.6	35.1	1.0	1.5	1.0	1.0	30	39	10-16	10-21
HUTTON	27.1	28.4	1.0	1.3	1.5	1.0	33	32	10-17	10-21
JOHNSTON	42.2	34.7	1.5	2.0	1.0	1.0	27	33	10-14	10-20
KIRBY	34.0	30.2	1.0	1.5	1.0	1.0	33	35	10-18	10-22
SANTA ROSA R	-	-	-	-	-	-	-	-	-	-
TEST MEANS	39.3	32.9	1.2	1.7	1.1	1.1	29	36		
L.S.D. (.05)	6.3	4.4								
C.V. (%)	12.3	8.0								

VERY EARLY = MATURITY GROUP V; EARLY = MATURITY GROUP VI; FULL SEASON = MATURITY GROUP VII; LATE = MATURITY GROUP VIII.

TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1987		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.		
VERY EARLY														
BAY	37.4	-	39.4	-	44.4	-	1.0	-	1.1	-	27	-	9-23	-
BEDFORD	36.9	-	40.9	-	-	-	-	-	-	-	-	-	-	-
COKER 485	40.5	-	46.9	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 105	43.9	-	47.0	-	49.6	-	1.6	-	1.1	-	31	-	9-26	-
DELTAPINE 675	32.4	-	34.7	-	-	-	-	-	-	-	-	-	-	-
FFR 562	38.2	-	44.1	-	-	-	-	-	-	-	-	-	-	-
FFR 565	35.3	-	-	-	-	-	-	-	-	-	-	-	-	-
FORREST	34.8	-	40.8	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 5171	41.6	-	43.7	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 5370	44.5	-	47.1	-	49.7	-	1.0	-	1.0	-	31	-	9-25	-
NAROW	41.9	-	-	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9581	36.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 505	42.2	-	38.4	-	41.0	-	1.6	-	1.0	-	31	-	9-24	-
TERRA-VIG 515	43.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 553	36.0	-	41.4	-	-	-	-	-	-	-	-	-	-	-
WILSTAR 550	43.1	-	41.7	-	44.9	-	1.0	-	1.0	-	30	-	9-28	-
EARLY														
ASGROW A 6242	29.9	33.5	37.1	-	-	-	-	-	-	-	-	-	-	-
AU 82-589	38.1	-	-	-	-	-	-	-	-	-	-	-	-	-
CENTENNIAL	42.4	-	44.9	-	42.0	-	1.3	-	1.0	-	35	-	10-8	-
COKER 686	43.0	-	40.8	-	40.2	-	1.3	-	1.0	-	35	-	10-5	-
DAVIS	43.7	36.9	46.3	-	44.8	-	2.1	-	1.2	-	36	-	10-5	-
DELTAPINE 506	40.5	-	42.6	-	42.0	-	2.2	-	1.0	-	37	-	10-13	-
DELTAPINE 566	38.5	36.7	42.8	-	42.8	-	1.1	-	1.0	-	33	-	10-8	-
HARTZ H 6130	40.0	31.2	43.8	-	43.8	-	1.2	-	1.0	-	33	-	10-4	-
JEFF	30.3	-	34.4	-	-	-	-	-	-	-	-	-	-	-
LEFLORE	40.3	30.3	43.4	-	42.7	-	1.6	-	1.1	-	35	-	10-8	-
N.K. 569-54	37.1	-	39.3	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9691	41.6	-	-	-	-	-	-	-	-	-	-	-	-	-
RA 606	41.5	34.8	41.6	-	-	-	-	-	-	-	-	-	-	-
RA 680	38.6	-	41.2	-	39.4	-	1.0	-	1.0	-	35	-	10-9	-
SANALONA	42.9	-	-	-	-	-	-	-	-	-	-	-	-	-
SHARKEY	46.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 616	40.0	-	35.1	-	-	-	-	-	-	-	-	-	-	-
TRACY M	37.3	28.3	43.4	-	45.9	-	1.6	-	1.0	-	33	-	10-2	-
TWIGGS	32.7	-	38.9	-	-	-	-	-	-	-	-	-	-	-
YIELD KING 613	35.4	32.2	40.0	-	-	-	-	-	-	-	-	-	-	-
YOUNG	38.9	36.9	41.5	-	-	-	-	-	-	-	-	-	-	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1987		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 _a	BU _a	BU _a	BU _a	BU _a	BU _a	SCORE	SCORE	SCORE	SCORE	IN _a	IN _a		
FULL SEASON														
ASGROW A 7986	36.9	-	40.8	-	-	-	-	-	-	-	-	-	-	-
AU 82-204	48.0	-	43.9	-	-	-	-	-	-	-	-	-	-	-
AU 82-211	49.6	-	-	-	-	-	-	-	-	-	-	-	-	-
BRAXTON	45.3	36.3	45.4	-	42.6	-	1.8	-	1.0	-	38	-	10-21	-
COKER 6727	46.8	35.1	-	-	-	-	-	-	-	-	-	-	-	-
COKER 6847	46.8	-	-	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 417	39.8	32.8	38.9	-	37.7	-	2.5	-	1.0	-	40	-	10-18	-
DELTAPINE 497	45.5	-	39.9	-	37.8	-	2.0	-	1.0	-	40	-	10-19	-
DUOCROP	38.4	28.8	36.4	-	36.7	-	2.8	-	1.0	-	47	-	10-3	-
GASOY 17	33.5	-	28.8	-	30.5	-	2.7	-	1.0	-	39	-	10-12	-
GORDON	36.4	33.9	33.3	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7110	45.4	-	42.5	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7126	39.6	32.5	38.2	-	38.5	-	1.7	-	1.0	-	39	-	10-19	-
N.K. 572-60	40.1	-	39.5	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9791	42.4	32.1	43.9	-	-	-	-	-	-	-	-	-	-	-
RANSOM	40.4	-	39.1	-	37.9	-	1.5	-	1.1	-	32	-	10-17	-
STARR	39.0	31.8	37.0	-	35.9	-	2.4	-	1.0	-	34	-	9-28	-
TERRA-VIG 708	42.3	-	39.0	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 717	39.3	-	-	-	-	-	-	-	-	-	-	-	-	-
WILSTAR 790	25.9	-	24.5	-	-	-	-	-	-	-	-	-	-	-
WRIGHT	43.0	34.0	33.5	-	35.7	-	2.8	-	1.0	-	37	-	10-16	-
LATE														
COBB	31.0	32.4	28.4	-	-	-	-	-	-	-	-	-	-	-
COKER 368	38.2	34.1	36.4	-	35.5	-	1.9	-	1.0	-	39	-	10-19	-
COKER 6738	40.9	-	39.6	-	-	-	-	-	-	-	-	-	-	-
DOWLING	38.0	33.6	33.4	-	33.9	-	2.8	-	1.3	-	38	-	10-25	-
FOSTER	35.2	28.9	26.7	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 8112	33.6	35.1	34.0	-	-	-	-	-	-	-	-	-	-	-
HUTTON	27.1	28.4	20.0	-	19.9	-	3.0	-	1.2	-	35	-	10-18	-
JOHNSTON	42.2	34.7	36.6	-	-	-	-	-	-	-	-	-	-	-
KIRBY	34.0	30.2	27.9	-	-	-	-	-	-	-	-	-	-	-
TEST MEANS	39.3	32.9	38.7	-	39.8	-	1.8	-	1.0	-	35	-	-	-
L.S.D. (.05)	6.3	4.4	7.0	-	6.9	-	-	-	-	-	-	-	-	-
C.V. (%)	12.3	8.0	15.0	-	15.4	-	-	-	-	-	-	-	-	-

VERY EARLY = MATURITY GROUP V; EARLY = MATURITY GROUP VI; FULL SEASON = MATURITY GROUP VII;
LATE = MATURITY GROUP VIII.

THE PLANTING DATE FOR FIRST PLANTING WAS MAY 29, MAY 26, AND MAY 21 FOR 1-YEAR, 2-YEAR, AND 3-YEAR AVERAGES, RESPECTIVELY, AND SECOND PLANTING DATE WAS JUNE 25, 1987.

TABLE 12. PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE							
	BREWTON		HEAD- LAND	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
	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
VERY EARLY											
ASGROW A 5980	43.5	-	9.3	1.0	-	3.5	-	24	-	9-23	-
COKER 485	43.0	-	6.7	1.0	-	3.0	-	22	-	9-25	-
FORREST	35.5	-	7.9	1.0	-	4.0	-	22	-	9-23	-
EARLY											
ASGROW A 6242	36.8	25.5	10.0	1.0	1.0	3.5	-	25	24	10-3	10-5
ASGROW A 6785	42.4	-	15.7	1.1	-	3.0	-	26	-	10-6	-
COKER 686	36.1	30.1	16.2	1.0	1.0	1.5	-	23	24	10-5	10-10
DAVIS	43.7	34.6	9.3	1.4	1.0	5.0	-	27	28	10-4	10-15
DELTAPINE 506	37.9	-	14.1	1.1	-	2.5	-	25	-	10-7	-
DELTAPINE 566	36.7	25.0	10.4	1.0	1.0	1.0	-	24	24	10-4	10-11
HARTZ 6385	38.1	32.2	15.3	1.0	1.0	4.0	-	25	25	10-5	10-13
JEFF	33.7	31.4	14.4	1.1	1.0	2.5	-	26	28	10-5	10-14
LEFLORE	46.1	-	14.4	1.0	-	4.0	-	27	-	10-4	-
N.K. S69-54	46.4	29.9	13.0	1.0	1.0	2.0	-	25	24	10-5	10-13
RA 606	44.8	-	11.6	1.0	-	3.5	-	27	-	10-2	-
RA 680	37.1	-	13.7	1.0	-	2.0	-	28	-	10-4	-
SHARKEY	43.2	31.4	14.8	1.8	1.8	3.0	-	30	31	10-4	10-10
TERRA-VIG 616	45.5	-	13.9	1.0	-	3.5	-	27	-	10-7	-
TRACY M	38.8	27.8	13.0	1.1	1.3	3.5	-	27	27	10-3	10-8
TWIGGS	40.0	-	11.8	1.0	-	1.5	-	24	-	10-14	-
FULL SEASON											
ASGROW A 7986	46.8	-	16.9	1.0	-	3.0	-	28	-	10-17	-
AU 82-204	42.8	-	19.0	1.0	-	2.0	-	27	-	10-12	-
AU 82-211	43.2	-	7.2	1.0	-	1.0	-	23	-	10-9	-
BRAXTON	42.8	33.9	20.8	1.0	1.0	1.0	-	28	26	10-12	10-16
COKER 6727	45.3	-	19.7	1.0	-	1.0	-	24	-	10-12	-
COKER 6847	44.4	-	15.0	1.0	-	1.0	-	26	-	10-9	-
DELTAPINE 417	39.0	38.0	17.4	1.1	1.0	3.0	-	32	28	10-14	10-18
DELTAPINE 497	39.2	38.1	18.3	1.0	1.0	1.5	-	29	27	10-15	10-19
DUOCROP	34.4	33.0	10.6	1.9	1.0	2.5	-	34	33	10-2	10-13
FFR 771	37.1	-	18.8	1.0	-	1.0	-	31	-	10-13	-
FUNKS EXP 1409	36.5	-	13.4	1.0	-	2.5	-	26	-	10-7	-
FUNKS M82-72261	41.9	-	11.1	1.0	-	3.0	-	21	-	10-12	-
GASOY 17	43.4	39.9	21.5	1.1	1.0	1.0	-	27	28	10-12	10-18
GORDON	43.0	-	16.2	1.1	-	1.0	-	27	-	10-5	-
HARTZ H 7110	41.2	-	18.7	1.0	-	2.0	-	27	-	10-9	-
HARTZ H 7126	38.8	36.5	16.7	1.1	1.0	1.0	-	26	28	10-13	10-17
N.K. S72-60	39.7	-	18.5	1.3	-	2.0	-	29	-	10-13	-
PIIONEER 9791	46.2	32.8	21.8	1.0	1.0	2.0	-	25	23	10-11	10-18
STARR	38.1	31.8	10.2	1.0	1.0	2.5	-	24	23	10-13	10-17
TERRA-VIG 708	44.5	-	14.8	1.0	-	2.0	-	29	-	10-13	-
TERRA-VIG 717	37.8	36.9	18.7	1.1	1.0	1.5	-	27	26	10-12	10-16
WILSTAR 790	38.9	-	16.0	1.0	-	1.0	-	26	-	10-16	-
WRIGHT	37.0	-	17.8	1.1	-	2.5	-	24	-	10-12	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 12. PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE							
	BREWTON		HEAD-	LODGING		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.		
FULL SEASON, LATE											
COBB	40.4	38.1	19.4	1.5	1.0	1.5	-	29	30	10-18	10-24
COKER 368	41.7	30.6	14.1	1.0	1.0	1.5	-	28	29	10-13	10-19
COKER 6738	41.5	-	11.8	1.0	-	1.0	-	26	-	10-14	-
DOWLING	40.0	38.6	13.7	1.3	1.0	2.0	-	26	26	10-19	10-24
FOSTER	32.5	32.5	16.2	1.4	1.0	2.0	-	26	25	10-13	10-20
HARTZ H 8112	36.3	32.4	14.6	1.0	1.0	1.0	-	26	26	10-15	10-19
HARTZ X8300	33.1	-	17.1	1.0	-	1.0	-	26	-	10-14	-
HUTTON	38.7	28.1	8.8	1.0	1.0	1.0	-	25	24	10-14	10-19
JOHNSTON	38.3	36.3	16.2	1.3	1.0	1.0	-	26	24	10-14	10-20
KIRBY	38.0	33.5	13.7	1.0	1.0	2.0	-	27	28	10-14	10-21
SANTA ROSA R	26.7	20.9	15.5	1.9	2.0	1.0	-	34	36	10-23	10-31
TEST MEANS	40.0	32.6	14.6	1.1	1.1	2.1	.	26	27		
L.S.D. (.05)	5.8	6.4	5.2								
C.V. (%)	10.3	14.0	25.3								

VERY EARLY = MATURITY GROUP V; EARLY = MATURITY GROUP VI; FULL SEASON = MATURITY GROUP VII;
 FULL SEASON, LATE = MATURITY GROUP VIII.

TABLE 13. PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1987		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.		
VERY EARLY														
ASGROW A 5980	26.4	-	-	-	-	-	-	-	-	-	-	-	-	-
COKER 485	24.9	-	-	-	-	-	-	-	-	-	-	-	-	-
FORREST	21.7	-	27.4	-	-	-	-	-	-	-	-	-	-	-
EARLY														
ASGROW A 6242	23.4	25.5	28.5	24.6	31.7	-	1.0	-	2.0	-	28	-	9-29	-
ASGROW A 6785	29.1	-	-	-	-	-	-	-	-	-	-	-	-	-
COKER 686	26.1	30.1	-	-	-	-	-	-	-	-	-	-	-	-
DAVIS	26.5	34.6	33.0	34.8	35.2	-	1.4	-	2.7	-	33	-	10-5	-
DELTAPINE 506	26.0	-	28.5	-	31.1	-	1.2	-	2.0	-	30	-	10-8	-
DELTAPINE 566	23.6	25.0	30.4	-	30.1	-	1.0	-	1.0	-	28	-	10-5	-
HARTZ 6385	26.7	32.2	-	-	-	-	-	-	-	-	-	-	-	-
JEFF	24.0	31.4	29.3	31.2	32.5	-	1.4	-	1.7	-	32	-	10-7	-
LEFLORE	30.2	-	34.9	-	34.4	-	1.1	-	2.2	-	30	-	10-5	-
N.K. 569-54	29.7	29.9	32.9	32.0	33.9	-	1.3	-	1.5	-	28	-	10-6	-
RA 606	28.2	-	33.8	-	35.7	-	1.3	-	1.8	-	33	-	10-2	-
RA 680	25.4	-	30.4	-	32.1	-	1.0	-	1.3	-	30	-	10-5	-
SHARKEY	29.0	31.4	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 616	29.7	-	33.9	-	34.0	-	1.0	-	1.8	-	31	-	10-9	-
TRACY M	25.9	27.8	28.8	26.6	31.5	-	1.2	-	2.3	-	29	-	9-30	-
TWIGGS	25.9	-	31.7	-	-	-	-	-	-	-	-	-	-	-
FULL SEASON														
ASGROW A 7986	31.8	-	30.9	-	-	-	-	-	-	-	-	-	-	-
AU 82-204	30.9	-	34.2	-	-	-	-	-	-	-	-	-	-	-
AU 82-211	25.2	-	-	-	-	-	-	-	-	-	-	-	-	-
BRAXTON	31.8	33.9	35.0	32.0	35.3	28.3	1.0	1.0	1.0	1.0	30	23	10-12	10-15
COKER 6727	32.5	-	35.5	-	-	-	-	-	-	-	-	-	-	-
COKER 6847	29.7	-	33.7	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 417	28.2	38.0	30.2	34.7	33.7	32.4	1.1	1.0	1.7	1.0	37	25	10-13	10-18
DELTAPINE 497	28.7	38.1	-	36.5	34.5	-	1.0	-	1.2	-	33	-	10-14	-
DUOCROP	22.5	33.0	24.3	27.4	-	-	-	-	-	-	-	-	-	-
FFR 771	27.9	-	32.3	-	-	-	-	-	-	-	-	-	-	-
FUNKS EXP 1409	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
FUNKS M82-72261	26.5	-	-	-	-	-	-	-	-	-	-	-	-	-
GASOY 17	32.5	39.9	34.7	36.5	36.6	31.6	1.4	1.0	1.0	1.0	31	24	10-10	10-16
GORDON	29.6	-	31.9	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7110	30.0	-	31.6	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7126	27.7	36.5	29.0	29.5	32.7	-	1.3	2.0	1.0	-	32	-	10-11	-
N.K. 572-60	29.1	-	30.9	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9791	34.0	32.8	37.9	-	-	-	-	-	-	-	-	-	-	-
STARR	24.2	31.8	27.0	31.6	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 708	29.6	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 717	28.3	36.9	32.9	28.6	34.9	-	1.3	-	1.2	-	29	-	10-12	-
WILSTAR 790	27.5	-	30.0	-	32.0	-	1.0	-	1.0	-	30	-	10-15	-
WRIGHT	27.4	-	30.1	-	31.9	-	1.5	-	1.5	-	29	-	10-11	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 13. PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1987		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.		
FULL SEASON, LATE														
COBB	29.9	38.1	28.2	34.9	32.7	30.4	1.6	1.0	1.2	1.0	36	27	10-22	10-25
COKER 368	27.9	30.6	31.9	30.7	33.7	24.8	1.1	1.0	1.2	1.0	32	24	10-15	10-20
COKER 6738	26.7	-	28.8	-	32.6	-	1.0	-	1.0	-	30	-	10-13	-
DOWLING	26.8	38.6	-	30.6	34.6	-	1.3	-	1.3	-	32	-	10-22	-
FOSTER	24.4	32.5	-	29.1	-	-	-	-	-	-	-	-	-	-
HARTZ H 8112	25.5	32.4	25.9	-	-	-	-	-	-	-	-	-	-	-
HARTZ X8300	25.1	-	-	-	-	-	-	-	-	-	-	-	-	-
HUTTON	23.7	28.1	23.0	24.8	28.9	-	1.1	-	1.0	-	29	-	10-15	-
JOHNSTON	27.3	36.3	31.3	35.1	34.4	28.5	1.4	1.0	1.0	1.0	30	22	10-12	10-19
KIRBY	25.8	33.5	28.2	30.4	-	-	-	-	-	-	-	-	-	-
SANTA ROSA R	21.1	20.9	-	14.2	-	-	-	-	-	-	-	-	-	-
TEST MEANS	27.3	32.6	30.9	30.3	33.2	29.3	1.2	1.0	1.5	1.0	31	24		
L.S.D. (.05)	6.3	4.5	6.2		9.0									
C.V. (%)	16.5	9.6	14.3		19.4									

VERY EARLY = MATURITY GROUP V; EARLY = MATURITY GROUP VI; FULL SEASON = MATURITY GROUP VII;
 FULL SEASON, LATE = MATURITY GROUP VIII.

THE PLANTING DATE FOR FIRST PLANTING WAS JUNE 4, MAY 31, AND JUNE 2 FOR 1-YEAR, 2-YEAR, AND 3-YEAR AVERAGES, RESPECTIVELY, AND SECOND PLANTING DATE WAS JULY 3, JULY 3, AND JULY 5, RESPECTIVELY.

TABLE 14. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE		LODGING		SHATTERING		AVERAGE 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 _a	BU _a	SCORE	SCORE	SCORE	SCORE	IN _a	IN _a		
VERY EARLY										
COKER 485	39.4	-	1.5	-	1.5	-	27	-	10-4	-
DELTAPINE 105	35.6	-	2.3	-	2.5	-	29	-	10-5	-
FORREST	37.8	-	1.3	-	1.0	-	25	-	10-4	-
WILSTAR 550	35.6	-	1.5	-	1.3	-	29	-	10-6	-
EARLY										
ASGROW A 6242	39.5	15.2	1.5	1.0	1.3	4.5	28	19	10-6	10-11
DAVIS	34.1	27.9	2.0	1.0	2.0	1.3	33	24	10-13	10-21
DELTAPINE 506	35.6	27.2	2.3	1.0	1.0	1.3	32	22	10-14	10-19
HARTZ H 6130	37.8	23.3	1.8	1.0	1.0	2.3	33	21	10-8	10-14
JEFF	33.7	25.7	2.5	1.0	1.3	1.0	30	22	10-11	10-20
LEFLORE	37.6	23.1	1.3	1.0	1.0	1.8	31	20	10-11	10-14
N.K. S69-54	38.9	22.5	1.5	1.0	1.0	1.3	27	20	10-12	10-18
SHARKEY	38.5	-	2.5	-	3.3	-	34	-	10-10	-
TERRA-VIG 616	34.9	-	1.3	-	1.0	-	31	-	10-16	-
TRACY M	38.5	23.5	1.3	1.0	2.5	5.0	31	23	10-8	10-15
TWIGGS	36.4	20.8	1.3	1.0	1.0	1.0	29	17	10-17	10-24
FULL SEASON										
ASGROW A 7986	37.1	-	1.0	-	1.0	-	34	-	10-18	-
AU 82-204	39.9	-	1.0	-	1.3	-	30	-	10-13	-
AU 82-211	41.1	-	1.3	-	1.0	-	31	-	10-13	-
BRAXTON	41.9	29.7	1.3	1.0	1.0	1.0	35	24	10-16	10-23
COKER 6727	39.0	27.4	1.0	1.0	1.0	1.0	26	18	10-12	10-23
COKER 6847	40.8	-	1.0	-	1.0	-	34	-	10-14	-
DELTAPINE 417	34.9	-	1.0	-	1.0	-	36	-	10-17	-
DELTAPINE 497	35.5	-	1.0	-	1.0	-	35	-	10-18	-
DUOCROP	27.5	26.2	1.0	1.0	1.8	1.0	47	26	10-12	10-21
FFR 771	33.6	-	1.0	-	1.0	-	34	-	10-19	-
FUNKS EXP 1409	35.3	-	1.0	-	1.5	-	32	-	10-12	-
FUNKS M82-72261	36.1	-	1.0	-	1.3	-	27	-	10-16	-
GORDON	34.2	-	1.3	-	1.0	-	30	-	10-14	-
HARTZ H 7110	39.1	25.3	1.3	1.0	1.0	1.0	32	20	10-13	10-20
HARTZ H 7126	36.4	28.2	1.3	1.0	1.0	1.0	31	21	10-15	10-24
N.K. S72-60	34.6	27.7	3.0	1.0	1.0	1.3	30	24	10-12	10-20
PIONEER 9791	44.7	-	1.0	-	1.0	-	28	-	10-16	-
RANSOM	38.5	32.3	1.0	1.0	1.3	1.5	31	22	10-12	10-21
STARR	31.6	-	1.3	-	3.3	-	30	-	10-14	-
TERRA-VIG 708	36.6	28.4	1.5	1.0	1.0	1.0	30	21	10-15	10-20
TERRA-VIG 717	34.5	27.4	2.3	1.0	1.0	1.0	30	19	10-18	10-21
WILSTAR 790	37.6	-	1.0	-	1.3	-	32	-	10-19	-
WRIGHT	36.3	-	1.3	-	1.3	-	32	-	10-15	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 14. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 1987

BRAND-VARIETY	YIELD PER ACRE		AVERAGE				PLANT HEIGHT		MATURITY DATE	
	DATE 1	DATE 2	LODGING		SHATTERING		DATE 1	DATE 2	DATE 1	DATE 2
	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.	DATE 1	DATE 2
FULL SEASON, LATE										
COBB	34.0	29.5	1.0	1.0	1.0	1.0	36	24	10-20	10-30
COKER 368	37.4	23.7	1.0	1.0	1.0	1.0	31	21	10-19	10-24
COKER 6738	39.2	29.6	1.0	1.0	1.0	1.0	32	22	10-19	10-26
DOWLING	35.1	25.8	1.0	1.0	1.3	1.0	34	20	10-21	10-27
FOSTER	36.6	25.4	1.0	1.0	1.0	1.0	33	19	10-19	10-23
HARTZ H 8112	36.4	-	1.5	-	1.0	-	34	-	10-19	-
HARTZ X8300	36.2	-	1.0	-	1.0	-	31	-	10-19	-
HB 15 W7B18	20.8	-	1.8	-	5.0	-	31	-	10-19	-
HUTTON	36.4	19.8	1.0	1.0	1.0	1.0	31	18	10-19	10-27
JOHNSTON	33.9	30.8	1.3	1.0	1.0	1.0	30	21	10-18	10-23
KIRBY	32.4	26.6	1.0	1.0	1.0	1.0	32	21	10-19	10-24
SANTA ROSA R	22.7	26.1	1.5	1.0	1.0	1.0	43	33	10-30	11-2
TEST MEANS	36.0	25.9	1.4	1.0	1.3	1.4	32	21		
L.S.D. (.05)	4.0	3.3								
C.V. (%)	11.3	14.1								

VERY EARLY = MATURITY GROUP V; EARLY = MATURITY GROUP VI; FULL SEASON = MATURITY GROUP VII;
 FULL SEASON, LATE = MATURITY GROUPS VIII AND IX.

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

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1987		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.		
VERY EARLY														
COKER 485	39.4	-	-	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 105	35.6	-	39.8	-	37.6	-	1.9	-	1.5	-	30	-	10-4	-
FORREST	37.8	-	41.6	-	-	-	-	-	-	-	-	-	-	-
WILSTAR 550	35.6	-	38.3	-	34.7	-	1.5	-	1.1	-	28	-	10-4	-
EARLY														
ASGROW A 6242	39.5	15.2	43.3	11.8	40.6	-	1.5	-	1.1	-	27	-	10-4	-
DAVIS	34.1	27.9	37.8	28.4	38.1	-	1.9	-	1.3	-	33	-	10-10	-
DELTAPINE 506	35.6	27.2	36.4	-	35.5	-	1.8	-	1.0	-	32	-	10-12	-
HARTZ H 6130	37.8	23.3	43.6	-	-	-	-	-	-	-	-	-	-	-
JEFF	33.7	25.7	41.2	21.3	38.8	-	2.1	-	1.1	-	31	-	10-11	-
LEFLORE	37.6	23.1	43.9	18.0	41.8	-	1.3	-	1.0	-	32	-	10-9	-
N.K. 569-54	38.9	22.5	45.2	19.0	43.8	-	1.3	-	1.0	-	28	-	10-12	-
SHARKEY	38.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 616	34.9	-	39.9	-	37.7	-	1.6	-	1.0	-	29	-	10-14	-
TRACY M	38.5	23.5	37.8	16.9	37.8	-	1.3	-	1.8	-	27	-	10-6	-
TWIGGS	36.4	20.8	43.6	-	-	-	-	-	-	-	-	-	-	-
FULL SEASON														
ASGROW A 7986	37.1	-	-	-	-	-	-	-	-	-	-	-	-	-
AU 82-204	39.9	-	45.6	-	-	-	-	-	-	-	-	-	-	-
AU 82-211	41.1	-	-	-	-	-	-	-	-	-	-	-	-	-
BRAXTON	41.9	29.7	40.3	25.3	39.4	20.1	1.3	1.0	1.0	1.0	33	18	10-19	10-29
COKER 6727	39.0	27.4	46.4	-	-	-	-	-	-	-	-	-	-	-
COKER 6847	40.8	-	46.5	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 417	34.9	-	36.8	-	37.2	-	1.4	-	1.0	-	36	-	10-17	-
DELTAPINE 497	35.5	-	37.0	-	39.7	-	1.3	-	1.0	-	36	-	10-18	-
DUOCROP	27.5	26.2	29.5	29.8	-	29.3	-	1.0	-	1.0	-	28	-	11-2
FFR 771	33.6	-	29.0	-	-	-	-	-	-	-	-	-	-	-
FUNKS EXP 1409	35.3	-	-	-	-	-	-	-	-	-	-	-	-	-
FUNKS M82-72261	36.1	-	-	-	-	-	-	-	-	-	-	-	-	-
GORDON	34.2	-	39.2	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7110	39.1	25.3	44.1	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7126	36.4	28.2	42.2	25.7	44.1	-	1.5	-	1.0	-	32	-	10-15	-
N.K. 572-60	34.6	27.7	40.4	18.1	39.8	18.0	2.2	1.2	1.0	1.1	33	19	10-12	10-24
PIONEER 9791	44.7	-	44.2	-	-	-	-	-	-	-	-	-	-	-
RANSOM	38.5	32.3	38.9	28.6	40.3	-	1.4	-	1.1	-	28	-	10-14	-
STARR	31.6	-	34.2	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 708	36.6	28.4	35.0	18.2	36.4	-	1.5	-	1.0	-	30	-	10-16	-
TERRA-VIG 717	34.5	27.4	41.1	-	-	-	-	-	-	-	-	-	-	-
WILSTAR 790	37.6	-	37.4	-	-	-	-	-	-	-	-	-	-	-
WRIGHT	36.3	-	40.6	-	39.0	-	1.9	-	1.1	-	31	-	10-17	-

CONTINUED ON THE FOLLOWING PAGE

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

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1987		2-YR. AV.		3-YR. AV.		LDDGING		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.		
FULL SEASON, LATE														
COBB	34.0	29.5	31.2	29.5	34.2	24.2	1.5	1.0	1.0	1.0	35	21	10-26	11-5
COKER 368	37.4	23.7	43.0	20.1	41.9	-	1.7	-	1.0	-	33	-	10-22	-
COKER 6738	39.2	29.6	43.7	-	44.8	-	1.3	-	1.0	-	32	-	10-19	-
DOWLING	35.1	25.8	36.9	-	39.2	-	1.3	-	1.1	-	34	-	10-27	-
FOSTER	36.6	25.4	-	19.5	-	-	-	-	-	-	-	-	-	-
HARTZ H 8112	36.4	-	39.1	-	-	-	-	-	-	-	-	-	-	-
HARTZ X8300	36.2	-	-	-	-	-	-	-	-	-	-	-	-	-
HB 15 W7B18	20.8	-	-	-	-	-	-	-	-	-	-	-	-	-
HUTTON	36.4	19.8	33.2	12.7	33.2	-	1.1	-	1.0	-	29	-	10-22	-
JOHNSTON	33.9	30.8	38.8	21.1	40.8	-	1.8	-	1.0	-	29	-	10-17	-
KIRBY	32.4	26.6	37.9	20.7	36.9	19.0	1.7	1.0	1.0	1.0	32	18	10-22	10-31
SANTA RQSA R	22.7	26.1	26.2	28.5	29.8	26.4	2.4	1.1	1.0	1.0	45	28	11-1	11-6
TEST MEANS	36.0	25.9	39.3	21.7	38.6	22.8	1.6	1.0	1.1	1.0	32	22		
L.S.D. (.05)	4.0	3.3	6.5		6.3									
C.V. (%)	11.3	14.1	12.2		8.9									

VERY EARLY = MATURITY GROUP V; EARLY = MATURITY GROUP VI; FULL SEASON = MATURITY GROUP VII;
 FULL SEASON, LATE = MATURITY GROUPS VIII AND IX.

THE PLANTING DATE FOR FIRST PLANTING WAS JUNE 26, JUNE 16, AND JUNE 19 FOR 1-YEAR, 2-YEAR, AND 3-YEAR AVERAGES, RESPECTIVELY, AND SECOND PLANTING DATE WAS JULY 13, JULY 17, AND JULY 4, RESPECTIVELY.

TABLE 16. PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS, 1987

BRAND-VARIETY	YIELD PER ACRE	
	NORTHERN (BELLE MINA)	CENTRAL (PRATTVILLE)
	BU _a	BU _a
<u>GROUP IV</u>		
ASGROW A4906	15.3	-
FFR 451	21.3	-
K-1099	19.0	-
PERSHING	22.9	-
RA 451	11.8	-
RA 452	16.3	-
<u>GROUP V</u>		
AVERY	-	9.1
CAPEHART 5636	18.1	-
CAPEHART 5646	12.0	-
CAPEHART 5896	15.2	-
COKER 80R-49	21.6	12.6
COKER 82-372	-	9.7
COKER 82-376	19.6	-
COKER 82-824	-	12.1
ESSEX	23.3	-
FFR 565	-	8.2
FORREST	21.4	14.5
FUNK'S M82-572403	16.4	12.0
HUTCHESON	-	11.3
NORTHRUP KING S53-34	16.7	-
NORTHRUP KING S59-19	19.2	-
N83-375	14.2	11.6
PIONEER 9581	-	11.9
PIONEER 9591	-	11.8
SHENANDOAH	-	10.6
TOANA	23.1	13.9
YIELD KING 503	-	8.5
YIELD KING 577	21.1	6.9
<u>GROUP VI</u>		
CAPEHART EXP6140	15.7	10.6
DELTAPINE X1017	16.4	11.8
DELTAPINE X986	24.2	14.7
DELTAPINE 726	24.3	15.0
FUNK'S EXP3305	16.8	13.7
FUNK'S M82-571206	-	12.2
HARTZ X6372	-	16.2
HARTZ 6130	-	12.5
HSC BALDWIN	27.6	14.1
HSC B2J	17.0	12.2
LEFLORE	24.8	11.8
SAMPSON	-	14.3
SANALONA	-	12.5
TERRA-VIG 616	-	13.0
TRACY M	23.2	12.7

CONTINUED ON NEXT PAGE

TABLE 16. PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS, 1987

BRAND-VARIETY	YIELD PER ACRE	
	NORTHERN (BELLE MINA)	CENTRAL (PRATTVILLE)
	BU _a	BU _a
<u>GROUP VII</u>		
BRAXTON	20.0	12.8
DELTAPINE X2106	-	14.0
FUNK'S EXP1409	-	12.5
FUNK'S M82-722611	-	13.7
GORDON	-	15.0
YIELD KING 707	-	16.8
YIELD KING 757	-	14.6
<u>GROUP VIII</u>		
COBB	-	16.7
DELTAPINE X676	-	21.4
HARTZ X8300	-	18.9
HARTZ 8112	-	17.6
HB 15 W7 B18	-	14.5
HUTTON	-	16.5
KIRBY	-	20.1
TEST MEANS	19.2	13.3
L.S.D. (0.05)	4.3	4.8
C.V. (%)	15.9	25.5

CHECK VARIETIES: GROUP V ESSEX AND FORREST; GROUP VI LEFLORE AND TRACY M; GROUP VII BRAXTON AND GORDON; AND GROUP VIII COBB AND KIRBY

Table 17. Iron Chlorosis Rating and Yield of Soybean Varieties Grown on Sumter Soil at Black Belt Substation, 1986-87

Variety	Soybean yield/acre		Iron chlorosis rating ^{1/}		Plant height
	1987	2-yr average	August 1987	August 1986	1987
	Bu.	Bu.	Rating	Rating	In.
<u>Maturity Group 5</u>					
Wilstar 550	18.3	21.1	3.7	3.8	19
Deltapine 105	18.4	19.4	4.1	5.4	22
Deltapine 675	16.0	17.5	3.0	3.4	23
FFR 562	14.2	17.5	5.1	4.2	20
Terra-Vig 553	12.4	17.4	4.6	3.6	21
Hartz H 5370	19.8	17.2	4.1	4.5	21
Coker 485	11.9	15.5	6.3	5.7	20
Terra-Vig 505	16.8	14.6	3.4	7.3	19
Bedford	13.4	11.3	5.6	7.2	24
Hartz H 5171	10.8	9.5	5.7	8.1	21
Bay	10.6	9.4	6.6	6.4	18
Forrest	12.8	7.0	6.6	8.1	18
Narrow	20.3	-	2.1	-	18
FFR 565	17.0	-	3.5	-	20
Terra-Vig 515	11.9	-	6.1	-	20
Pioneer 9581	11.2	-	6.5	-	19
<u>Maturity Group 6</u>					
Davis	17.1	21.2	2.8	5.4	28
Deltapine 506	17.7	20.8	2.7	2.8	26
Tracy M	15.4	16.1	5.3	6.8	23
Young	13.9	15.7	3.5	6.4	26
Terra-Vig 616	13.7	13.0	4.1	6.3	25
Yield King 613	4.4	12.0	8.0	5.4	19
Asgrow A 6242	11.5	11.9	5.9	7.7	17
Jeff	9.8	11.9	5.8	6.6	25
Coker 686	16.6	11.2	4.9	8.0	22
Leflore	14.0	10.5	4.9	7.9	23
N.K. S 69-54	11.9	9.2	6.3	8.1	20
Twiggs	12.4	7.5	5.6	9.3	21
Centennial	7.6	4.6	7.4	8.5	21
Hartz H 6130	5.4	3.9	8.1	8.6	15
Deltapine 566	6.6	3.5	7.6	9.4	17
Pioneer 9691	17.4	-	4.5	-	23
RA 606	15.2	-	2.9	-	28
AU 82-589	13.7	-	6.4	-	20
Sanalona	13.1	-	5.9	-	24
D 79-6162	9.9	-	6.5	-	27
RA 680	8.9	-	7.5	-	22

(Continued on next page)

Table 17 (Continued). Iron Chlorosis Ratings and Yield of Soybean Varieties Grown on Sumter Soil at Black Belt Substation, 1986-87

Variety	Soybean yield/acre		Iron chlorosis rating ^{1/}		Plant height
	1987	2 yr average	August 1987	August 1986	1987
	Bu.	Bu.	Rating	Rating	In.
<u>Maturity Group 7</u>					
Asgrow A 7986	18.8	24.8	3.0	1.4	27
Braxton	18.8	24.8	3.1	1.8	28
Ransom	17.2	22.5	2.4	2.4	28
N.K. S 72-60	15.7	20.2	4.8	4.4	27
Deltapine 497	13.2	16.6	4.6	4.5	26
Duocrop	14.9	16.5	2.9	5.6	32
GaSoy 17	15.4	16.5	5.0	7.4	26
Deltapine 417	13.7	16.2	4.0	5.0	28
AU 82-204	16.1	16.1	5.1	5.4	25
Wright	12.3	15.6	6.4	5.4	25
Wilstar 790	12.1	15.5	2.3	3.0	28
Terra-Vig 708	10.5	14.9	5.9	6.3	23
Starr	9.0	12.0	6.3	6.0	21
Hartz H 7126	14.0	11.7	6.5	7.8	25
Gordon	9.8	6.4	5.5	9.2	23
Hartz H 7110	6.2	3.1	8.0	9.8	22
Coker 6847	20.1	-	2.2	-	27
Coker 6727	18.8	-	4.4	-	23
AU 82-211	16.9	-	4.5	-	25
Pioneer 9791	9.1	-	6.1	-	22
Terra-Vig 717	8.1	-	5.4	-	23
<u>Maturity Group 8</u>					
Johnston	14.5	22.1	4.5	4.5	26
Hartz H 8112	15.3	17.5	4.2	3.5	26
Cobb	14.7	16.4	1.9	5.9	31
Coker 6738	12.6	16.0	7.0	5.4	23
Dowling	17.1	16.0	2.2	5.0	27
Hutton	12.2	15.4	2.3	2.3	26
Coker 368	6.7	8.6	7.1	7.2	23
Kirby	7.3	7.8	6.7	8.1	22
Foster	5.4	3.6	8.0	9.0	18

^{1/} Chlorosis ratings were 1-10, with 1 being no chlorosis and 10 being plants that were losing leaves due to necrotic spots in leaves.

RECOMMENDED SOYBEAN VARIETIES FOR 1988

This list of recommended varieties was prepared by the authors of this report, D. B. Weaver, Assistant Professor 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

<u>Early</u>	<u>Full season</u>	<u>Late</u>
Asgrow A 5474	Bradley	Braxton
Asgrow A 5980	*Centennial	Ransom
Bay	Hartz H 6130	
Bedford	Jeff	
Coker 425	Leflore	
Coker 485	RA 606	
Deltapine 105	Tracy M	
Essex		
FFR 561		
Forrest		
Hartz H 5171		
Hartz H 5370		
Pioneer 9571		

Central Alabama

<u>Very early</u>	<u>Early</u>	<u>Full season</u>	<u>Late</u>
Asgrow A 5980	*Centennial	Braxton	Cobb
Deltapine 105	Davis	Deltapine 497	Coker 368
Forrest	Leflore	GaSoy 17	
Hartz H 5370	RA 680	Hartz H 7126	
Terra-Vig 505	Tracy M	New N.K. S 72-60	
	Yield King 613	Terra-Vig 708	
	Young	Terra-Vig 717	
		Wright	

Black Belt (acid soil)

<u>Very early</u>	<u>Early</u>	<u>Full season</u>	<u>Late</u>
Bay	Centennial	Braxton	Cobb
Deltapine 105	Davis	Deltapine 417	Coker 368
Hartz H 5370	Deltapine 566	Deltapine 497	Dowling
Wilstar 550	Hartz H 6130	Hartz H 7126	
	Leflore	Ransom	
	RA 680		
	Tracy M		

(continued on following page)

Southern Alabama

<u>Very early</u>	<u>Early</u>	<u>Full season</u>	<u>Late</u>
Deltapine 105	Asgrow A6242 Davis Jeff Leflore New N.K. S69-54 RA 606 RA 680 Terra-Vig 616 Tracy M	Braxton Deltapine 417 Deltapine 497 GaSoy 17 Hartz H 7126 Terra-Vig 717	Cobb Coker 368 Dowling Johnston Kirby

Baldwin-Mobile

<u>Very early</u>	<u>Early</u>	<u>Full season</u>	<u>Full season, late</u>
Bedford Deltapine 105 Forrest	Asgrow A 6242 Davis Jeff Leflore New N.K. S69-54	Braxton Deltapine 497 Hartz H 7126 New N.K. S72-60 Terra-Vig 708 Wright	Cobb Coker 368 Coker 6738 Dowling Johnston Kirby

* If present trend continues, these varieties will be dropped from recommended list.

