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PERFORMANCE
OF
SOYBEAN
VARIETIES
IN
ALABAMA
1989

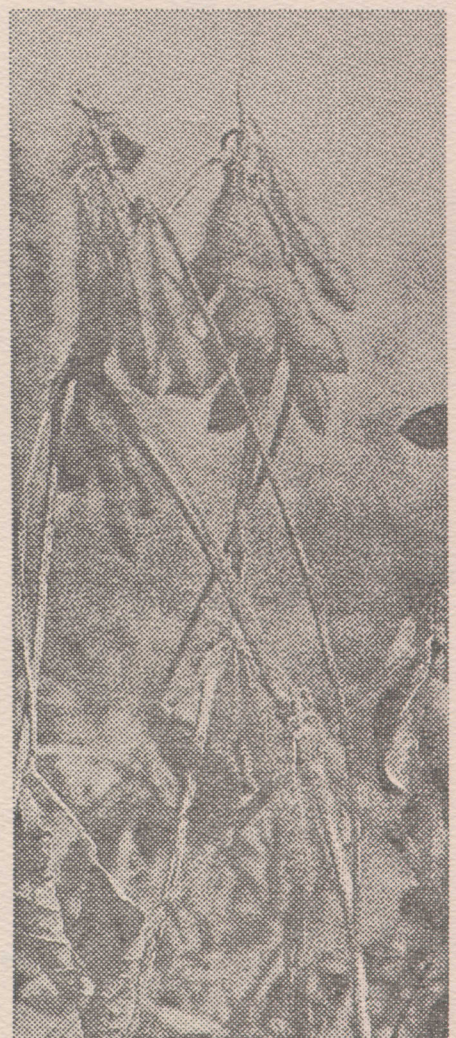


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Information contained herein is available to all persons regardless of race,
color, sex, or national origin.

PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 1989

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 16 and 9 entries per maturity group and four replications, respectively.

Two planting dates were used for the 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. The Marion Junction (Vaiden soil) regular planting test in 1988 was not harvested because of poor stand due to lack of moisture during the planting period. The late date of planting tests were not planted at Marion Junction (Vaiden soil) and Fairhope locations in 1989 due to excessive rainfall in June and July.

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, a rating of 3 indicates 4 to 8 percent 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 1987, September 1988, and August 1989 with a 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 1989, along with the 1988-89 averages, table 18.

SEASONAL CONDITIONS

Rainfall (table 3) in April and May 1989 was such that all but one standard tests were planted for optimum growth. The only exception was Camden, planted June 13, approximately 3 weeks late. The late planting tests at Marion Junction and Fairhope were not planted due to heavy rainfall in June and July at both locations. The normal planting dates for full season plantings in the regular tests are the first week in May, May 15-25, and May 25 to June 5 for north, central, and southern Alabama locations, respectively.

The higher than normal rainfall in June and July resulted in some severe disease problems at some locations, tables 19, 20, and 21. Some of the central and southern areas were short on moisture in late August and early September, resulting in low yields for almost all entries at Prattville, Marion Junction (Sumter), Camden, Monroeville, and Headland.

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 1989 test, and for 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 reviewed the past 3 years of soybean variety test data to assemble the list of recommended varieties on page 46. The acceptable 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 Marion Junction	J.L. Holliman M.D. Pegues
Brewton and Monroeville Experiment Fields Brewton and Monroeville	J.R. Akridge
Gulf Coast Substation Fairhope	E.L. Carden N.R. McDaniel
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 Ellis Burgess
Wiregrass Substation Headland	H.W. Ivey Larry Wells Brian Gamble

Appreciation is also expressed to 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 1989

AgraTech Seed Inc. Atlanta, Georgia	AgraTech brand varieties
Alabama Farmer's Cooperative Decatur, Alabama	Cobb FFR brand varieties
Bragg Farms Toney, Alabama	Bragg Braxton Centennial Davis Essex Ransom
Delta and Pine Land Company Scott, Mississippi	Deltapine brand varieties
Department of Agronomy & Soils Auburn University, Alabama	Au82-211 Au82-589 F83-1648 F83-1918 Foster Stonewall
Eagle Seed Company Weiner, Arkansas	Cajun Riverside brand varieties
Elysian Seed, Inc. Gallion, Alabama	Leflore Tracy M
Escambia Farm and Seed Co. Atmore, Alabama	Gordon Kirby Wright
FFR Cooperative W. Lafayette, Indiana	Stone
Georgia Seed Development Commission Athens, Georgia	Colquitt Duocrop GaSoy 17 G81-234 (Bryan) G83-198 Thomas Twiggs

(Continued on following page)

Table 1 (continued). Entries and Sources for 1989

H.J. Underwood Co., Inc. Clinton, North Carolina	E.H.J.U. brand varieties
HyPerformer Seed Company Memphis, Tennessee	HyPerformer brand varieties HSC Baldwin Sampson Shenandoah Shiloh Starr Wilstar 550 Wilstar 790
Jacob Hartz Seed Company, Inc. Stuttgart, Arkansas	Hartz brand varieties
Louisiana State University Baton Rouge, Louisiana	LA 79-11123
Mississippi State University Mississippi State, Mississippi	Lamar Sharkey
New Northrup King Co. Highland, Illinois	Coker brand varieties RA brand varieties S 69-54
North Carolina State University Raleigh, North Carolina	Johnston N83-375 N84-507 Young
Pioneer Hi-Bred International, Inc. Tipton, Indiana	Pioneer brand varieties
Southern Illinois University Carbondale, Illinois	Egyptian
Terral-Norris Seed Company, Inc. Lake Providence, Louisiana	Terra-Vig brand varieties
Texas A&M University College Station, Texas	Dowling
University of Arkansas Fayetteville, Arkansas	Bedford Lloyd Narrow R83-1342
University of Maryland College Park, Maryland	Morgan

(Continued on following page)

Table 1. (continued) Entries and Sources for 1989

University of Missouri Columbia, Missouri	Avery Bradley Pershing
University of Tennessee Knoxville, Tennessee	TN 4-86 TN 5-85
Virginia Crop Improvement Association Holley, Virginia	Hutcheson Stafford Toano
White Seed Cleaners Dutton, Alabama	Bay Forrest

Table 2. Cultural Practices for Soybean Variety Tests in 1989

Location	Type test	Date planted	Row width	Herbicide used	Fertilizer applied
Belle Mina	Standard	May 9	36	Treflan	None recommended by soil test
	Preliminary	May 16	36	Treflan	None recommended by soil test
Crossville	Standard	May 3	30	Scepter, Dual	150 lb. 0-24-24/acre
	Late	June 30	30	Scepter, Lasso	200 lb. 8-24-24/acre
Camden	Standard	June 13	36	Treflan, Vernam Lorox	200 lb. 0-20-20/acre
Prattville	Standard	May 13	30	Vernam	None recommended by soil test
	Preliminary	May 11	30	Vernam	120 lb. 0-0-60/acre
	Late	June 7	30	Vernam	120 lb. 0-0-60/acre
Headland	Standard	June 6	36	Treflan, Vernam	None recommended by soil test
Monroeville	Preliminary	June 26	36	Treflan, Vernam	200 lb. 0-20-20/acre
Brewton	Early	April 26	36	Treflan, Vernam	300 lb. 0-20-20/acre
	Standard	May 17	36	Treflan, Vernam	None recommended by soil test
	Late	June 23	24	Dual, Lorox	300 lb. 0-20-20/acre
Marion Junction	Standard (Sumter)	May 12	36	Squadron Dual, Sceptor	200 lb. 0-25-25/acre
	Standard (Vaiden) Late *	May 16	36	Sceptor	200 lb. 0-20-20/acre
Fairhope	Standard	May 31	30	Dual, Classic, Reflex	200 lb. 0-20-20/acre
	Late *				

* No test due to wet conditions in June and July test was not planted.

Table 3. Rainfall at Test Locations During Growing Season, 1989

Month	Days	Belle Mina	Crossville	Prattville	Marion Junction	Camden
		In.	In.	In.	In.	In.
May	1-5	0.64	0.74	0.60	0.51	0.83
	6-10	1.26	1.62	0.31	0.45	0.05
	11-15	0.59	0.15	0.04	0.28	T
	16-20	T	0.06	0.01	0.27	0.30
	21-25	1.07	0.79	2.21	0.35	0.88
	26-31	<u>0.33</u>	<u>0</u>	<u>0.05</u>	<u>0</u>	<u>0</u>
		3.89	3.36	3.22	1.86	2.06
June	1-5	1.20	0.47	0.72	0.31	0.11
	6-10	4.15	1.56	1.22	0.81	1.98
	11-15	2.61	1.76	2.91	1.86	1.21
	16-20	2.45	2.41	4.07	1.82	4.40
	21-25	3.00	2.03	1.38	3.81	T
	26-30	<u>0.05</u>	<u>.04</u>	<u>0.36</u>	<u>0.72</u>	<u>2.56</u>
		13.46	8.27	10.66	9.33	10.26
July	1-5	2.02	4.59	4.45	1.78	2.23
	6-10	0.41	0.70	0.94	1.36	0.18
	11-15	1.37	1.01	0.57	1.27	3.08
	16-20	1.08	1.87	0.57	0.14	0.61
	21-25	0.23	0.31	0.31	0.99	0.50
	26-31	<u>0.03</u>	<u>0.59</u>	<u>1.24</u>	<u>0.20</u>	<u>0.75</u>
		5.14	9.07	8.08	5.74	7.35
August	1-5	1.38	0.89	0.77	0.73	0.01
	6-10	0.35	0.02	0	0.24	T
	11-15	T	0	0.07	0	0.31
	16-20	0.50	0.20	0.14	0.18	0.73
	21-25	0.08	0.31	0	0	0
	26-31	<u>0.46</u>	<u>0.34</u>	<u>0.01</u>	<u>0.10</u>	<u>0.86</u>
		2.77	1.76	0.99	1.25	1.91
September	1-5	0.09	0.94	0.23	0	0.22
	6-10	0.30	0.03	0	0	0
	11-15	2.05	0.35	0.27	0.41	0.06
	16-20	T	0.08	0	0	0.01
	21-25	0.78	2.62	0.85	0.30	0.26
	26-30	<u>2.41</u>	<u>4.88</u>	<u>0.62</u>	<u>0.74</u>	<u>.73</u>
		5.63	8.90	1.97	1.45	1.28
October	1-5	1.70	1.48	1.28	0.72	0.64
	6-10	0	T	0.06	0	0
	11-15	0	0.75	0	0	0
	16-20	0.91	0	2.47	3.28	2.07
	21-25	0	0	0	0.01	0
	26-31	<u>0.04</u>	<u>T</u>	<u>0</u>	<u>0</u>	<u>T</u>
		2.65	2.23	3.81	4.01	2.71

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Table 3. (continued). Rainfall at Test Locations During Growing Season, 1989

Month	Days	Brewton	Monroeville	Headland	Fairhope
		In.	In.	In.	In.
May	1-5	2.11	0.10	2.07	1.33
	6-10	0.68	0.41	0.86	T
	11-15	0.04	0.11	0	0.23
	16-20	0.96	1.10	0	2.30
	21-25	4.14	1.91	2.65	3.14
	26-31	<u>0.08</u>	<u>0</u>	<u>0</u>	<u>0</u>
		8.01	3.63	5.58	7.00
June	1-5	0.42	3.29	0	0.08
	6-10	3.22	2.95	3.96	10.39
	11-15	0.95	2.49	1.70	1.69
	16-20	4.11	2.09	5.61	2.35
	21-25	0.26	0.01	0.06	0.93
	26-30	<u>2.35</u>	<u>2.61</u>	<u>0.24</u>	<u>3.08</u>
		11.31	13.44	11.57	18.52
July	1-5	0.97	1.69	2.86	2.36
	6-10	0.39	1.18	0.34	0.17
	11-15	0.21	0.99	0.65	0.19
	16-20	0.81	1.39	1.00	1.76
	21-25	2.39	2.07	1.71	3.30
	26-31	<u>0.05</u>	<u>0.49</u>	<u>0</u>	<u>1.14</u>
		4.82	7.81	6.56	8.92
August	1-5	0.25	0	0	0.37
	6-10	0.18	0	0.25	0.24
	11-15	0	0.23	0.51	0.52
	16-20	0.82	0	0.07	0.16
	21-25	0.02	0.17	0	0.11
	26-31	<u>0.87</u>	<u>1.31</u>	<u>0.26</u>	<u>0.77</u>
		2.14	1.71	1.09	2.17
September	1-5	0.42	0.48	3.61	0.17
	6-10	0	0	0	0.04
	11-15	0	0.07	0	0.62
	16-20	0.97	0	0.27	0.65
	21-25	0.53	2.16	0.41	0.74
	26-30	<u>2.47</u>	<u>1.75</u>	<u>0.77</u>	<u>2.27</u>
		4.39	4.46	5.06	4.49
October	1-5	3.10	0	6.11	0.80
	6-10	0.03	0.13	0	0.02
	11-15	0.72	0.18	0	0.55
	16-20	0.62	0.50	0.90	0.91
	21-25	0	0	0	0
	26-31	<u>T</u>	<u>0</u>	<u>0</u>	<u>0</u>
		4.47	0.81	7.01	2.28

TABLE 4. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1989

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
	BV.	BV.	BV.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
<u>VERY EARLY</u>											
MORGAN	16.8	40.1	-	1.4	-	0.5	-	25	-	9-17	-
PERSHING	29.7	38.8	-	1.1	-	0.5	-	23	-	9-23	-
RIVERSIDE 477	31.3	36.4	-	2.3	-	0.5	-	40	-	9-25	-
RIVERSIDE 499	46.1	38.7	-	1.6	-	0.5	-	38	-	9-22	-
STAFFORD	26.9	34.5	-	1.0	-	0.5	-	23	-	9-22	-
TN4-86	33.3	45.8	-	1.6	-	0.5	-	35	-	9-22	-
<u>EARLY</u>											
AVERY	28.8	36.7	-	1.6	-	0.5	-	40	-	9-23	-
BAY	10.8	44.4	23.8	1.0	1.0	0.5	1.0	26	21	9-28	-
BEDFORD	33.0	39.3	-	2.0	-	0.5	-	33	-	10-5	-
COKER 425	16.3	35.5	-	1.0	-	0.5	-	18	-	9-24	-
COKER 485	35.1	47.3	33.5	1.1	1.5	0.5	1.0	26	27	10-4	-
COKER 6955	22.2	46.2	-	1.0	-	0.5	-	26	-	9-28	-
COKER 6995	27.6	41.7	-	1.6	-	0.5	-	30	-	10-6	-
DELTAPINE 105	31.0	40.4	31.9	1.3	1.5	0.5	1.0	29	32	10-4	-
DELTAPINE 415	39.8	45.4	35.2	1.4	1.3	0.5	1.0	28	27	9-27	-
ESSEX	11.9	38.6	-	1.0	-	0.5	-	19	-	9-23	-
FFR 561	27.9	38.6	-	1.0	-	0.5	-	26	-	9-28	-
FFR 562	28.8	37.1	-	1.4	-	0.5	-	32	-	10-4	-
FFR 565	28.4	45.0	33.0	1.1	1.5	0.5	1.0	29	30	9-30	-
FORREST	34.0	42.5	33.0	1.5	1.3	0.5	1.0	30	29	10-1	-
HARTZ 5164	44.1	46.4	-	1.5	-	0.5	-	31	-	10-5	-
HARTZ 5171	37.3	43.7	30.8	2.4	2.0	0.5	1.0	30	32	10-5	-
HARTZ 5252	26.9	43.8	-	1.4	-	0.5	-	29	-	10-1	-
HARTZ 5370	35.1	42.7	34.8	1.5	1.8	0.5	1.0	30	30	10-5	-
HUTCHESON	29.7	47.3	32.8	1.0	1.0	0.5	1.0	26	21	9-29	-
HYPERFORMER SHILOH	30.0	38.3	-	1.3	-	0.5	-	29	-	10-1	-
NAROW	18.2	41.8	-	1.0	-	0.5	-	24	-	9-27	-
PIONEER 9581	32.6	44.7	-	1.1	-	0.5	-	25	-	10-2	-
PIONEER 9591	16.4	41.4	-	1.0	-	0.5	-	20	-	10-2	-
RIVERSIDE 577	35.4	42.6	-	1.9	-	0.5	-	29	-	10-5	-
SHENANDOAH	22.0	35.2	-	1.4	-	0.5	-	28	-	10-2	-
STONE	24.0	38.3	-	1.0	-	0.5	-	30	-	10-4	-
TERRA-VIG 505	34.6	31.7	-	1.3	-	0.5	-	28	-	10-3	-
TERRA-VIG 515	44.3	46.9	-	1.5	-	0.5	-	29	-	10-6	-
TERRA-VIG 553	18.2	43.4	-	1.3	-	0.5	-	27	-	9-30	-
TN 5-85	21.6	42.6	-	1.0	-	0.5	-	24	-	10-1	-
TDANA	21.3	38.3	-	1.1	-	0.5	-	24	-	9-28	-
WILSTAR 550	22.2	39.1	-	1.3	-	0.5	-	29	-	10-4	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 4 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1989

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE				Maturity Date			
	BELLE	CROSSVILLE		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	DATE 2
FULL SEASON											
AUB2-589	30.2	37.9	-	2.4	-	0.5	-	31	-	10-11	-
BRADLEY	22.2	38.6	-	1.5	-	0.5	-	24	-	10-7	-
CENTENNIAL	36.6	35.9	-	1.8	-	0.5	-	30	-	10-13	-
COKER 686	44.7	38.8	30.8	1.1	1.0	0.5	1.0	31	25	10-9	-
DELTAPINE DPX 3623	22.6	45.3	-	1.4	-	0.5	-	26	-	10-7	-
DELTAPINE 506	35.2	32.1	-	2.5	-	0.5	-	30	-	10-13	-
DELTAPINE 566	28.0	38.7	29.9	1.1	1.0	0.5	1.0	30	24	10-14	-
DELTAPINE 726	39.2	30.5	-	2.0	-	0.5	-	35	-	10-13	-
EHJU 7	35.1	34.8	-	1.6	-	0.5	-	36	-	10-13	-
FFR 646	18.3	43.0	-	1.4	-	0.5	-	28	-	10-10	-
FFR 668	29.4	32.5	-	1.5	-	0.5	-	30	-	10-11	-
G 81-234 (BRYAN)	39.4	42.0	36.3	1.3	1.3	0.5	1.0	32	28	10-14	-
HARTZ 6130	25.1	35.2	29.0	1.0	1.5	0.5	1.0	28	28	10-9	-
HARTZ 6200	41.0	40.7	-	1.5	-	0.5	-	31	-	10-5	-
HARTZ 6372	38.3	32.6	-	1.6	-	0.5	-	29	-	10-14	-
HARTZ 6686	33.3	43.1	32.6	1.4	1.0	0.5	1.0	31	26	10-12	-
HYPERFORMER BALDWIN	37.6	40.1	-	1.3	-	0.5	-	30	-	10-13	-
HYPERFORMER HSC B2J	33.1	37.3	-	1.0	-	0.5	-	28	-	10-6	-
HYPERFORMER SAMPSON	33.2	30.3	-	1.8	-	0.5	-	28	-	10-15	-
LEFLORE	36.4	36.0	-	1.1	-	0.5	-	29	-	10-11	-
LLOYD	36.1	30.4	-	1.9	-	0.5	-	33	-	10-13	-
N. K. S69-54	32.6	41.9	30.9	1.5	1.3	0.5	1.0	27	23	10-11	-
PIONEER 9641	33.2	39.5	-	1.1	-	0.5	-	28	-	10-7	-
PIONEER 9691	36.6	36.6	30.9	1.4	1.8	0.5	1.0	31	27	10-13	-
RA 606	35.5	37.8	-	2.9	-	0.5	-	31	-	10-10	-
RA 680	42.9	35.7	-	1.1	-	0.5	-	31	-	10-12	-
RIVERSIDE CAJUN	34.9	44.4	-	1.3	-	0.5	-	26	-	10-11	-
RIVERSIDE 696	34.7	36.0	-	1.4	-	0.5	-	31	-	10-13	-
SHARKEY	50.3	42.6	33.5	2.8	2.3	0.5	1.0	35	31	10-12	-
TERRA-VIG 616	32.4	36.0	-	2.0	-	0.5	-	33	-	10-15	-
TRACY M	35.2	37.3	-	2.3	-	0.5	-	28	-	10-6	-
TWIGGS	36.0	37.9	-	1.1	-	0.5	-	30	-	10-5	-
YOUNG	35.2	32.4	33.8	2.0	1.8	0.5	1.0	33	31	10-8	-
LATE											
BRAXTON	31.3	25.4	31.6	1.1	1.0	0.5	1.0	31	25	10-16	-
COKER 6727	-	-	33.3	-	1.0	-	1.0	-	24	-	-
FFR 771	-	-	30.7	-	1.8	-	1.0	-	31	-	-
GORDON	-	-	32.1	-	1.5	-	1.0	-	27	-	-
HARTZ 7126	-	-	34.3	-	2.3	-	1.0	-	30	-	-
PIONEER 9791	-	-	34.4	-	1.0	-	1.0	-	24	-	-
RANSOM	-	-	30.2	-	1.0	-	1.0	-	25	-	-
STONEWALL	-	-	35.7	-	1.3	-	1.0	-	27	-	-
TERRA-VIG 717	-	-	31.8	-	2.5	-	1.0	-	27	-	-
TEST MEANS	31.1	39.2	32.2	1.5	1.4	0.5	1.0	29	27		
L. S. D. (.05)	12.4	7.0	4.2								
C. V. (%)	28.5	12.7	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, 1987-89

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														
TN4-86	39.5	-	34.9	-	31.6	-	1.5	-	0.9	-	39	-	9-15	-
PERSHING	34.2	-	32.3	-	30.2	-	1.1	-	0.9	-	26	-	9-19	-
STAFFORD	30.7	-	28.7	-	27.8	-	1.0	-	0.8	-	26	-	9-16	-
RIVERSIDE 499	42.4	-	-	-	-	-	-	-	-	-	-	-	-	-
RIVERSIDE 477	33.9	-	-	-	-	-	-	-	-	-	-	-	-	-
MORGAN	28.4	-	-	-	-	-	-	-	-	-	-	-	-	-
EARLY														
DELTAPINE 415	42.6	35.2	41.9	39.8	36.8	-	1.4	-	0.8	-	31	-	9-25	-
TERRA-VIG 515	45.6	-	43.6	-	36.2	-	1.6	-	0.8	-	33	-	10-4	-
COKER 485	41.2	33.5	42.8	38.3	35.7	32.1	1.3	1.3	0.8	1.0	32	29	10-1	10-12
HARTZ 5164	45.3	-	42.4	-	34.8	-	1.8	-	0.8	-	34	-	10-2	-
HARTZ 5171	40.5	30.8	41.1	35.6	34.4	30.9	2.3	1.6	0.8	1.0	35	33	10-3	10-14
HUTCHESON	38.5	32.8	39.0	39.4	33.9	-	1.2	-	0.9	-	29	-	9-27	-
HARTZ 5370	38.9	34.8	40.7	39.1	33.9	33.1	1.8	1.5	0.8	1.0	35	33	9-29	10-12
FFR 565	36.7	33.0	39.4	-	33.3	-	1.5	-	0.8	-	33	-	9-28	-
FORREST	38.2	33.0	39.1	37.4	33.1	31.6	1.6	1.3	0.8	1.0	34	31	9-27	10-11
DELTAPINE 105	35.7	31.9	37.3	36.9	32.8	31.8	1.6	1.3	0.8	1.0	34	33	9-30	10-13
PIONEER 9581	38.6	-	38.2	-	32.8	-	1.4	-	0.8	-	32	-	9-29	-
COKER 6955	34.2	-	36.7	-	31.7	-	1.3	-	0.8	-	30	-	9-27	-
FFR 561	33.2	-	35.8	-	31.4	-	1.1	-	0.9	-	30	-	9-27	-
BEDFORD	36.1	-	35.2	-	31.3	-	2.0	-	0.8	-	37	-	10-2	-
FFR 562	33.0	-	36.5	-	31.1	-	1.7	-	0.8	-	36	-	10-2	-
TERRA-VIG 553	30.8	-	35.9	-	31.0	-	1.6	-	0.8	-	32	-	9-27	-
NARROW	30.0	-	33.9	-	30.4	-	1.3	-	0.8	-	29	-	9-25	-
TN 5-85	32.1	-	35.2	-	30.4	-	1.5	-	0.8	-	32	-	9-27	-
PIONEER 9591	28.9	-	33.0	-	29.3	-	1.0	-	0.8	-	26	-	9-30	-
COKER 425	25.9	-	31.6	-	29.1	-	1.0	-	0.8	-	24	-	9-23	-
ESSEX	25.2	-	28.6	-	28.7	-	1.2	-	1.0	-	25	-	9-21	-
BAY	27.6	23.8	31.2	33.2	28.2	28.2	1.5	1.1	1.0	1.0	32	28	9-27	10-11
AVERY	32.8	-	32.2	-	28.0	-	1.7	-	1.3	-	42	-	9-19	-
SHENANDOAH	28.6	-	29.6	-	26.7	-	1.4	-	0.8	-	32	-	9-29	-
WILSTAR 550	30.6	-	31.8	-	26.5	-	1.5	-	0.8	-	33	-	10-1	-
RIVERSIDE 577	39.0	-	40.7	-	-	-	-	-	-	-	-	-	-	-
COKER 6995	34.6	-	37.5	-	-	-	-	-	-	-	-	-	-	-
HARTZ 5252	35.4	-	37.4	-	-	-	-	-	-	-	-	-	-	-
STONE	31.1	-	33.5	-	-	-	-	-	-	-	-	-	-	-
TOANA	29.8	-	32.7	-	-	-	-	-	-	-	-	-	-	-
HYPERFORMER SHILOH	34.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 505	33.2	-	-	-	-	-	-	-	-	-	-	-	-	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 5 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 3-YEAR SUMMARY, 1987-89

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1989		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														
SHARKEY	46.4	33.5	45.3	-	37.4	-	2.5	-	0.8	-	39	-	10-17	-
Ø B1-234 (BRYAN)	40.7	36.3	43.1	-	36.6	-	1.5	-	0.8	-	37	-	10-18	-
PIONEER 9691	36.6	30.9	40.5	36.1	36.0	31.3	1.8	1.5	0.8	1.0	35	33	10-16	10-22
HARTZ 6686	38.2	32.6	40.5	-	35.3	-	1.5	-	0.8	-	34	-	10-17	-
COKER 686	41.7	30.8	42.4	35.7	35.2	31.1	1.6	1.1	0.8	1.0	36	31	10-14	10-20
RA 606	36.6	-	41.1	-	34.6	-	2.5	-	0.8	-	37	-	10-12	-
HARTZ 6200	40.8	-	40.4	-	34.3	-	1.8	-	0.8	-	35	-	10-3	-
N. K. 569-54	37.3	30.9	39.9	35.3	33.9	31.0	1.8	1.5	0.8	1.0	32	29	10-14	10-20
AUB2-589	34.0	-	36.4	-	33.6	-	1.9	-	0.8	-	35	-	10-17	-
RA 680	39.3	-	38.8	-	33.5	-	1.6	-	0.8	-	36	-	10-16	-
HARTZ 6372	35.5	-	39.6	-	33.5	-	1.9	-	0.8	-	34	-	10-17	-
CENTENNIAL	36.3	-	38.6	-	33.3	-	1.6	-	0.8	-	35	-	10-16	-
TRACY M	36.3	-	39.5	-	33.2	-	2.0	-	0.9	-	34	-	10-12	-
LEFLORE	36.2	-	39.7	-	33.0	-	1.7	-	0.8	-	35	-	10-15	-
TWIGGS	37.0	-	38.4	-	32.4	-	1.5	-	0.8	-	34	-	10-12	-
HARTZ 6130	30.1	29.0	36.5	-	31.7	-	1.5	-	0.8	-	35	-	10-12	-
YOUNG	33.8	33.8	37.2	37.3	31.3	31.3	1.9	1.5	0.8	1.0	37	34	10-10	10-20
HYPERFORMER SAMPSON	31.8	-	36.9	-	31.3	-	1.5	-	0.8	-	34	-	10-19	-
DELTAPINE 726	34.8	-	36.6	-	31.1	-	2.0	-	0.8	-	38	-	10-17	-
DELTAPINE 566	33.3	29.9	35.3	35.5	31.0	-	1.3	-	0.8	-	36	-	10-18	-
RIVERSIDE 696	35.3	-	37.7	-	30.9	-	1.6	-	0.8	-	36	-	10-12	-
TERRA-VIG 616	34.2	-	36.2	-	30.6	-	2.0	-	0.8	-	37	-	10-18	-
DELTAPINE 506	33.6	-	35.8	-	30.5	-	2.3	-	0.8	-	36	-	10-18	-
FFR 66B	30.9	-	34.0	-	30.2	-	1.7	-	0.8	-	36	-	10-17	-
BRADLEY	30.4	-	35.7	-	29.8	-	2.1	-	0.8	-	31	-	10-5	-
HYPERFORMER BALDWIN	38.8	-	39.7	-	-	-	-	-	-	-	-	-	-	-
RIVERSIDE CAJUN	39.6	-	-	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9641	36.4	-	-	-	-	-	-	-	-	-	-	-	-	-
HYPERFORMER HSC B2J	35.2	-	-	-	-	-	-	-	-	-	-	-	-	-
EHJU 7	34.9	-	-	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE DPX 3623	33.9	-	-	-	-	-	-	-	-	-	-	-	-	-
LLOYD	33.3	-	-	-	-	-	-	-	-	-	-	-	-	-
FFR 646	30.7	-	-	-	-	-	-	-	-	-	-	-	-	-
LATE														
BRAXTON	28.4	31.6	33.8	35.2	28.3	28.9	1.5	1.1	0.8	1.0	36	31	10-21	10-27
COKER 6727	-	33.3	-	36.6	-	31.3	-	1.2	-	1.0	-	29	-	10-24
FFR 771	-	30.7	-	-	-	-	-	-	-	-	-	-	-	-
GORDON	-	32.1	-	33.3	-	29.9	-	1.5	-	1.0	-	34	-	10-24
HARTZ 7126	-	34.3	-	37.7	-	32.3	-	1.8	-	1.0	-	36	-	10-26
PIONEER 9791	-	34.4	-	38.9	-	-	-	-	-	-	-	-	-	-
RANSOM	-	30.2	-	34.7	-	29.8	-	1.2	-	1.0	-	30	-	10-25
STONEWALL	-	35.7	-	38.0	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 717	-	31.8	-	-	-	-	-	-	-	-	-	-	-	-
TEST MEANS	35.1	32.2	37.2	36.7	32.1	31.0	1.6	1.4	0.8	1.0	34	32		
L. S. D. (.05)	9.9	4.2	8.5		7.6									
C. V. (%)	20.3	9.1	16.4		17.1									

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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 6, MAY 11, AND MAY 11 FOR 1-YEAR, 2-YEAR, AND 3-YEAR AVERAGES, RESPECTIVELY, AND SECOND PLANTING DATE WAS JUNE 30, JUNE 29, AND JUNE 23, RESPECTIVELY.

TABLE 6. PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 1989

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE							
	CAM- DEN	PRATTVILLE		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											
BAY	9.9	12.3	-	1.0	-	1.8	-	13	-	10-13	-
BEDFORD	10.7	13.2	-	1.0	-	1.0	-	20	-	10-14	-
COKER 425	11.2	11.4	-	1.0	-	1.8	-	14	-	10-14	-
COKER 485	12.2	7.9	-	1.0	-	1.8	-	17	-	10-21	-
DELTAPINE 105	14.9	10.0	-	1.0	-	1.3	-	20	-	10-14	-
DELTAPINE 415	11.8	7.4	-	1.0	-	1.0	-	16	-	10-14	-
FFR 561	10.4	10.8	-	1.0	-	1.9	-	15	-	10-15	-
FFR 565	11.7	8.1	-	1.0	-	1.1	-	18	-	10-14	-
FORREST	10.7	12.7	-	1.0	-	1.1	-	15	-	10-11	-
HARTZ 5164	12.2	9.5	-	1.0	-	1.5	-	16	-	10-16	-
HARTZ 5171	11.4	12.3	-	1.0	-	1.3	-	19	-	10-13	-
HARTZ 5370	11.7	13.1	-	1.0	-	1.3	-	17	-	10-16	-
HUTCHESON	11.2	10.7	-	1.0	-	1.6	-	13	-	10-14	-
HYPERFORMER SHILOH	7.4	5.2	-	1.0	-	1.1	-	15	-	10-15	-
PIONEER 9581	11.4	11.4	-	1.0	-	1.3	-	15	-	10-13	-
STONE	12.2	11.0	-	1.0	-	1.1	-	18	-	10-13	-
TERRA-VIG 505	12.2	6.8	-	1.0	-	1.1	-	22	-	10-15	-
TERRA-VIG 515	12.3	10.3	-	1.0	-	1.5	-	18	-	10-18	-
TN 5-85	11.0	12.1	-	1.0	-	1.3	-	16	-	10-13	-
WILSTAR 550	11.2	7.8	-	1.0	-	1.0	-	17	-	10-9	-
EARLY											
COKER 686	13.4	7.9	16.9	1.0	1.0	1.0	1.0	20	25	10-17	11-10
DAVIS	10.4	6.2	15.3	1.0	1.0	1.0	2.3	23	32	10-19	11-5
DELTAPINE DPX 3623	10.1	12.4	-	1.0	-	1.0	-	17	-	10-22	-
DELTAPINE 506	13.6	8.5	-	1.0	-	1.1	-	20	-	10-25	-
DELTAPINE 566	13.1	10.0	18.1	1.0	1.0	1.0	1.0	17	29	10-26	11-12
DELTAPINE 726	11.8	10.3	18.5	1.0	1.0	1.0	1.0	23	30	10-25	11-5
FFR 668	13.1	9.3	-	1.0	-	1.8	-	20	-	10-27	-
HARTZ 6130	10.9	7.9	-	1.1	-	1.0	-	19	-	10-17	-
HARTZ 6200	11.4	11.1	-	1.0	-	1.3	-	20	-	10-18	-
HARTZ 6372	13.1	11.8	-	1.0	-	1.0	-	22	-	10-22	-
HARTZ 6686	11.0	10.1	-	1.0	-	1.1	-	20	-	10-26	-
HYPERFORMER BALDWIN	11.4	10.7	-	1.0	-	1.0	-	21	-	10-24	-
HYPERFORMER SAMPSON	11.8	9.1	-	1.0	-	1.1	-	20	-	10-25	-
LEFLORE	11.8	10.1	17.7	1.0	1.0	1.3	1.5	21	25	10-24	11-5
LLOYD	11.8	13.6	-	1.0	-	1.1	-	23	-	10-24	-
N.K. S69-54	10.2	10.7	17.9	1.0	1.0	1.0	1.0	18	24	10-24	11-9
PIONEER 9691	11.0	11.4	-	1.0	-	1.1	-	19	-	10-23	-
RA 606	10.6	11.1	14.1	1.0	1.0	1.1	2.0	20	27	10-16	11-4
RA 680	10.2	10.0	-	1.0	-	1.1	-	20	-	10-24	-
RIVERSIDE CAJUN	12.6	10.0	-	1.0	-	1.3	-	16	-	10-20	-
RIVERSIDE 696	12.8	12.3	19.3	1.0	1.0	1.0	1.0	19	29	10-23	11-5
SHARKEY	8.8	10.0	-	1.0	-	1.6	-	25	-	10-26	-
TERRA-VIG 616	12.6	14.4	-	1.0	-	1.0	-	23	-	10-29	-
TRACY M	11.7	7.8	-	1.0	-	1.4	-	20	-	10-21	-
TWIGGS	10.1	9.4	-	1.0	-	1.4	-	16	-	10-14	-
YOUNG	11.2	7.2	13.0	1.0	1.0	1.3	2.5	23	28	10-9	11-4

CONTINUED ON THE FOLLOWING PAGE

TABLE 6 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 1989.

BRAND-VARIETY	YIELD PER ACRE			REGIONAL AVERAGE							
	CAM- DEN	PRATTVILLE		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.		
<u>FULL SEASON</u>											
BRAXTON	13.1	11.7	21.5	1.0	1.0	1.0	1.0	22	29	11-6	11-12
COKER 6727	13.0	10.6	19.4	1.0	1.0	1.1	1.0	19	27	10-28	11-8
COKER 6847	12.3	11.6	21.1	1.0	1.0	1.0	1.0	22	30	11-3	11-15
DELTAPINE 417	13.1	12.7	19.7	1.0	1.0	1.3	1.0	24	36	11-4	11-10
FFR 771	15.5	12.7	20.6	1.0	1.0	1.0	1.0	23	32	11-4	11-9
GASOY 17	15.3	13.8	-	1.0	-	1.0	-	24	-	11-3	-
GORDON	13.8	15.6	-	1.0	-	1.0	-	21	-	10-28	-
HARTZ H 7110	10.4	12.0	-	1.1	-	1.3	-	22	-	11-2	-
HARTZ 7126	11.4	14.5	20.4	1.0	1.0	1.0	1.0	21	33	10-24	11-3
PIONEER 9751	13.9	13.5	-	1.0	-	1.1	-	20	-	10-31	-
PIONEER 9791	16.5	14.7	22.6	1.0	1.0	1.1	1.0	17	25	10-30	11-11
RIVERSIDE 707	16.0	14.3	-	1.1	-	1.0	-	26	-	11-3	-
STARR	15.2	11.8	-	1.0	-	1.3	-	22	-	10-31	-
STONEWALL	13.8	10.3	17.7	1.0	1.0	1.0	1.0	19	28	10-31	11-12
TERRA-VIG 708	12.8	9.4	-	1.0	-	1.3	-	19	-	10-29	-
TERRA-VIG 717	16.5	13.2	17.1	1.0	1.0	1.0	1.0	22	29	11-3	11-12
THOMAS	14.1	13.2	-	1.1	-	1.1	-	22	-	11-2	-
WILSTAR 790	14.4	11.8	-	1.0	-	1.0	-	24	-	11-5	-
WRIGHT	15.7	11.5	-	1.0	-	1.0	-	23	-	10-31	-
<u>LATE</u>											
COBB	10.7	14.9	22.4	1.1	1.0	1.1	1.0	27	36	11-7	11-13
COKER 368	12.0	18.5	22.7	1.0	1.0	1.0	1.0	24	31	11-9	11-10
COKER 6738	13.0	17.6	25.3	1.0	1.0	1.0	1.0	23	29	11-12	11-12
DELTAPINE 878	-	-	21.4	-	1.0	-	1.0	-	32	-	11-14
DOWLING	13.3	13.8	22.8	1.1	1.0	1.0	1.0	25	32	11-7	11-14
FOSTER	13.6	12.2	22.5	1.0	1.0	1.0	1.0	24	32	10-31	11-4
HARTZ 8112	-	-	21.5	-	1.0	-	1.0	-	31	-	11-9
JOHNSTON	12.5	11.6	20.3	1.1	1.0	1.1	1.0	22	32	11-4	11-11
KIRBY	10.1	13.6	20.9	1.0	1.0	1.0	1.0	25	34	11-7	11-8
TEST MEANS	12.2	11.2	19.6	1.0	1.0	1.2	1.2	20	30		
L. S. D. (.05)	3.0	4.5	3.0								
C. V. (%)	17.8	28.8	10.8								

VERY EARLY = MATURITY GROUP V; EARLY = MATURITY GROUP VI; FULL SEASON = MATURITY GROUP VII;
 LATE = MATURITY GROUP VIII.
 MATURITY DATE DATA ONLY FROM PRATTVILLE FIELD.

TABLE 7. PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 3-YEAR SUMMARY, 1987-89

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1989		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														
TERRA-VIG 515	11.3	-	20.5	-	18.4	-	0.9	-	2.0	-	22	-	10-13	-
DELTAPINE 105	12.4	-	18.4	-	17.2	-	0.9	-	2.3	-	24	-	10-8	-
COKER 485	10.0	-	16.6	-	15.4	-	0.9	-	2.3	-	23	-	10-11	-
FORREST	11.7	-	16.5	-	15.2	-	0.9	-	2.0	-	21	-	10-5	-
HARTZ 5370	12.4	-	15.9	-	15.0	-	0.8	-	2.1	-	22	-	10-8	-
HARTZ 5164	10.8	-	16.3	-	15.0	-	0.9	-	2.2	-	22	-	10-9	-
WILSTAR 550	9.5	-	14.0	-	13.7	-	0.9	-	2.0	-	22	-	10-6	-
DELTAPINE 415	9.6	-	14.7	-	13.3	-	0.8	-	2.3	-	20	-	10-6	-
BAY	11.1	-	15.1	-	13.0	-	0.9	-	2.8	-	20	-	10-6	-
FFR 561	10.6	-	15.4	-	12.8	-	0.8	-	2.7	-	19	-	10-6	-
COKER 425	11.3	-	14.4	-	12.7	-	0.8	-	2.3	-	18	-	10-5	-
TN 5-85	11.6	-	13.8	-	11.9	-	0.9	-	2.4	-	21	-	10-5	-
HARTZ 5171	11.8	-	17.2	-	-	-	-	-	-	-	-	-	-	-
FFR 565	9.9	-	16.0	-	-	-	-	-	-	-	-	-	-	-
BEDFORD	11.9	-	15.8	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9581	11.4	-	15.8	-	-	-	-	-	-	-	-	-	-	-
STONE	11.6	-	-	-	-	-	-	-	-	-	-	-	-	-
HUTCHESON	11.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 505	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-
HYPERFORMER SHILOH	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-
EARLY														
RIVERSIDE 696	12.6	19.3	24.0	-	19.8	-	0.9	-	1.6	-	27	-	10-21	-
FFR 668	11.2	-	21.7	-	19.2	-	0.8	-	1.5	-	25	-	10-26	-
COKER 686	10.7	16.9	22.3	25.4	19.0	24.0	0.8	1.0	1.3	1.0	25	28	10-20	10-29
LEFLORE	11.0	17.7	22.4	25.4	19.0	24.2	0.8	1.0	1.5	1.3	26	28	10-23	10-27
PIONEER 9691	11.2	-	20.5	-	18.5	-	0.8	-	1.2	-	24	-	10-24	-
RA 606	10.8	14.1	21.6	24.1	18.4	22.5	0.9	1.2	2.0	1.5	27	30	10-16	10-26
N.K. S69-54	10.4	17.9	20.5	26.9	17.8	24.7	0.9	1.3	1.3	1.1	23	27	10-22	10-28
RA 680	10.1	-	20.0	-	17.7	-	0.8	-	1.4	-	26	-	10-22	-
TRACY M	9.7	-	19.4	-	17.3	-	0.8	-	2.0	-	26	-	10-21	-
YOUNG	9.2	13.0	19.6	24.9	16.8	22.6	0.8	1.1	2.2	1.8	27	29	10-12	10-27
TWIGGS	9.8	-	18.0	-	16.7	-	0.8	-	1.5	-	23	-	10-14	-
SHARKEY	9.4	-	18.7	-	16.7	-	0.9	-	1.7	-	31	-	10-24	-
DAVIS	8.3	15.3	19.2	23.6	16.6	22.2	0.9	1.2	2.0	1.9	28	31	10-19	10-26
HARTZ 6200	11.3	-	18.2	-	16.2	-	0.8	-	1.7	-	25	-	10-13	-
DELTAPINE 726	11.1	18.5	22.7	-	-	-	-	-	-	-	-	-	-	-
HYPERFORMER BALDWIN	11.0	-	21.4	-	-	-	-	-	-	-	-	-	-	-
HARTZ 6130	9.4	-	20.9	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 506	11.0	-	19.6	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 566	11.6	18.1	19.1	27.8	-	-	-	-	-	-	-	-	-	-
TERRA-VIG 616	13.5	-	-	-	-	-	-	-	-	-	-	-	-	-
LLOYD	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ 6372	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-
RIVERSIDE CAJUN	11.3	-	-	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE DPX 3623	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ 6686	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-
HYPERFORMER SAMPSON	10.5	-	-	-	-	-	-	-	-	-	-	-	-	-

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CONTINUED ON THE FOLLOWING PAGE

TABLE 7 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES IN CENTRAL ALABAMA, 3-YEAR SUMMARY, 1987-89

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1989		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														
TERRA-VIG 717	14.8	17.1	24.9	28.5	21.7	-	1.0	-	1.1	-	26	-	10-30	-
FFR 771	14.1	20.6	23.9	-	20.8	-	0.8	-	1.1	-	29	-	11-1	-
HARTZ 7126	13.0	20.4	23.7	29.7	20.1	26.5	1.0	1.3	1.3	1.0	27	33	10-25	10-28
GORDON	14.7	-	22.6	-	18.9	-	0.9	-	1.3	-	26	-	10-27	-
PIONEER 9791	15.6	22.6	21.4	29.2	18.8	27.1	0.8	1.0	1.3	1.0	24	26	10-29	10-31
COKER 6727	11.8	19.4	21.5	28.4	18.7	26.7	0.8	1.0	1.2	1.0	24	27	10-28	10-30
QASOY 17	14.6	-	20.6	-	18.7	-	0.9	-	1.1	-	29	-	10-31	-
COKER 6847	12.0	21.1	21.7	-	18.7	-	0.8	-	1.1	-	27	-	10-31	-
STONEWALL	12.0	17.7	21.6	28.2	18.5	-	0.8	-	1.4	-	24	-	10-28	-
TERRA-VIG 708	11.1	-	20.3	-	18.3	-	0.9	-	1.2	-	25	-	10-30	-
WRIGHT	13.6	-	21.0	-	18.2	-	0.9	-	1.2	-	28	-	10-29	-
STARR	13.5	-	19.9	-	17.8	-	0.8	-	1.5	-	27	-	10-30	-
BRAXTON	12.4	21.5	19.3	28.9	17.1	23.8	0.8	1.0	1.2	1.0	27	29	11-2	11-2
DELTAPINE 417	12.9	19.7	19.0	30.5	16.9	25.1	0.9	1.0	1.4	1.1	31	33	11-1	11-1
RIVERSIDE 707	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9751	13.7	-	-	-	-	-	-	-	-	-	-	-	-	-
THOMAS	13.7	-	-	-	-	-	-	-	-	-	-	-	-	-
WILSTAR 790	13.1	-	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7110	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-
LATE														
COKER 6738	15.3	25.3	24.4	31.0	20.9	27.4	0.8	1.0	1.2	1.0	29	30	11-5	11-3
COKER 368	15.2	22.7	23.8	31.4	20.4	25.9	0.8	1.0	1.3	1.0	30	31	11-4	11-2
DOWLING	13.5	22.8	22.1	31.5	19.3	27.3	0.9	1.1	1.4	1.2	29	31	11-4	11-6
FOSTER	12.9	22.5	22.3	29.9	19.1	26.2	0.9	1.1	1.2	1.0	29	30	10-29	10-28
KIRBY	11.8	20.9	21.2	28.7	18.4	23.0	0.8	1.0	1.2	1.1	29	33	11-4	11-2
JOHNSTON	12.1	20.3	20.5	32.1	18.3	28.9	1.0	1.4	1.2	1.0	26	30	11-1	11-2
COBB	12.8	22.4	20.3	32.0	18.1	25.4	0.9	1.3	1.4	1.2	32	35	11-2	11-6
DELTAPINE 878	-	21.4	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ 8112	-	21.5	-	29.0	-	-	-	-	-	-	-	-	-	-
TEST MEANS	11.7	19.6	19.7	28.5	17.5	25.2	0.9	1.1	1.6	1.2	25	30		
L. S. D. (.05)	3.8	3.0	6.1		5.4									
C. V. (%)	23.5	10.8	22.3		22.1									

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 28, AND MAY 28 FOR 1-YEAR, 2-YEAR, AND 3-YEAR AVERAGES,
 RESPECTIVELY, AND SECOND PLANTING DATE WAS JUNE 7, JUNE 17, AND JUNE 20, RESPECTIVELY.

TABLE B. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 1989

BRAND-VARIETY	YIELD PER ACRE BU.	AVERAGE		PLANT HEIGHT IN.	MATURITY DATE
		LODGING SCORE	SHATTERING SCORE		
<u>VERY EARLY</u>					
DELTAPINE 105	24.2	1.0	1.0	23	9-21
DELTAPINE 415	22.8	1.0	1.3	20	9-19
AVERY	22.4	1.0	1.3	34	9-10
TN 5-85	21.4	1.0	1.0	15	9-19
HARTZ 5164	21.2	1.0	1.0	22	9-24
HARTZ 5370	19.1	1.0	1.0	17	9-20
NAROW	18.2	1.0	1.0	14	9-17
TERRA-VIG 505	18.1	1.0	1.0	21	9-21
HUTCHESON	16.5	1.0	1.3	13	9-19
FORREST	15.6	1.0	1.0	19	9-18
TOANA	12.0	1.0	1.3	14	9-13
HYPERFORMER SHILOH	9.7	1.0	2.5	17	10-4
BAY	9.1	1.0	1.0	14	9-24
<u>EARLY</u>					
TRACY M	18.6	1.0	1.0	25	10-7
LEFLORE	17.8	1.0	1.5	22	10-7
LAMAR	16.5	1.0	1.0	20	10-11
YOUNG	16.0	1.0	2.5	29	9-25
PIONEER 9691	14.9	1.0	1.0	17	10-10
SHARKEY	14.7	1.3	1.8	29	10-19
RIVERSIDE CAJUN	13.8	1.0	1.5	15	10-10
DELTAPINE 726	13.5	1.0	1.3	21	10-12
RIVERSIDE 699	11.5	1.0	2.0	20	10-2
TERRA-VIG 616	11.4	1.0	1.5	30	10-7
DAVIS	10.3	1.0	2.3	26	9-27
HARTZ 6372	9.9	1.0	1.0	18	10-11
DELTAPINE 506	9.3	1.0	1.3	23	10-8
BRADLEY	8.5	1.0	1.0	17	9-24
HYPERFORMER SAMPSON	8.4	1.0	1.0	19	10-1
AU82-589	6.3	1.0	1.3	18	10-6
G 81-234 (BRYAN)	4.2	1.0	1.3	15	10-10

CONTINUED ON THE FOLLOWING PAGE

TABLE 8 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 1989

BRAND-VARIETY	YIELD PER ACRE BU.	AVERAGE		Maturity DATE	
		LODGING SCORE	SHATTERING SCORE		
FULL SEASON					
STONEWALL	21.7	1.0	1.5	21	10-12
THOMAS	18.4	1.0	1.3	27	10-16
COKER 6727	17.4	1.0	1.0	21	10-8
LA 79-11123	17.2	1.0	1.8	24	10-12
TERRA-VIG 727	16.9	1.0	1.3	20	10-9
COKER 6847	15.4	1.0	1.0	30	10-15
PIONEER 9751	14.2	1.0	1.0	24	10-17
HARTZ 7126	13.5	1.0	1.5	25	10-9
COLQUITT	13.0	1.0	1.0	23	10-12
STARR	12.8	1.0	1.3	24	10-12
RANSOM	11.3	1.0	1.8	23	10-8
WRIGHT	10.8	1.0	1.0	25	10-11
RIVERSIDE 757	10.4	1.0	1.0	23	10-11
BRAXTON	10.0	1.0	1.0	24	10-15
DELTAPINE 417	8.5	1.0	2.5	28	10-11
RIVERSIDE 707	7.6	1.0	1.0	26	10-14
HARTZ H 7110	7.3	1.0	1.0	19	10-16
GASOY 17	7.2	1.0	1.0	27	10-9
WILSTAR 790	5.8	1.0	1.0	23	10-10
LATE					
COKER 6738	12.6	1.0	1.0	27	10-24
HARTZ 8112	12.2	1.0	1.3	23	10-12
F83-1918	9.9	1.0	1.3	24	10-15
JOHNSTON	8.6	1.0	1.5	21	10-13
COBB	5.1	1.0	3.0	31	10-13
F83-1648	4.5	1.0	1.5	29	10-17
TEST MEANS	13.2	1.0	1.3	22	
L. S. D. (.05)	4.8				
C. V. (%)	26.2				

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, 1987-89

BRAND-VARIETY	YIELD PER ACRE			3-YEAR AVERAGE			
	1989	2-YR. AV.	3-YR. AV.	LODGING	SHATTERING	PLANT HEIGHT	MATURITY DATE
	BU.	BU.	BU.	SCORE	SCORE	IN.	
VERY EARLY							
DELTAPINE 105	24.2	18.8	18.7	1.0	1.2	21	9-27
HARTZ 5370	19.1	17.0	17.9	1.0	1.4	19	9-27
NARROW	18.2	15.4	17.0	1.0	1.8	16	9-21
FORREST	15.6	10.5	11.2	1.0	1.1	18	9-30
BAY	9.1	7.9	8.8	1.0	1.8	16	10-2
DELTAPINE 415	22.8	15.7	-	-	-	-	-
AVERY	22.4	14.8	-	-	-	-	-
HARTZ 5164	21.2	13.9	-	-	-	-	-
TN 5-85	21.4	13.4	-	-	-	-	-
HUTCHESON	16.5	12.7	-	-	-	-	-
TOANA	12.0	9.9	-	-	-	-	-
TERRA-VIG 505	18.1	-	-	-	-	-	-
HYPERFORMER SHILOH	9.7	-	-	-	-	-	-
EARLY							
PIONEER 9691	14.9	14.4	15.4	1.0	1.3	19	10-16
DELTAPINE 506	9.3	13.4	14.8	1.3	1.1	24	10-13
TRACY M	18.6	14.3	14.6	1.1	1.6	23	10-11
DAVIS	10.3	13.1	14.4	1.3	1.7	25	10-5
LEFLORE	17.8	14.1	14.1	1.0	1.7	21	10-13
YOUNG	16.0	13.8	13.8	1.6	2.3	25	10-3
TERRA-VIG 616	11.4	13.4	13.5	1.0	1.4	25	10-11
SHARKEY	14.7	12.7	11.8	1.3	1.8	25	10-20
AU82-589	6.3	10.5	11.6	1.0	1.3	19	10-11
DELTAPINE 726	13.5	11.9	-	-	-	-	-
LAMAR	16.5	11.1	-	-	-	-	-
HYPERFORMER SAMPSON	8.4	9.6	-	-	-	-	-
BRADLEY	8.5	8.5	-	-	-	-	-
HARTZ 6372	9.9	6.8	-	-	-	-	-
G 81-234 (BRYAN)	4.2	4.7	-	-	-	-	-
RIVERSIDE CAJUN	13.8	-	-	-	-	-	-
RIVERSIDE 699	11.5	-	-	-	-	-	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 9 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA,
3-YEAR SUMMARY, 1987-89

BRAND-VARIETY	YIELD PER ACRE			3-YEAR AVERAGE			MATURITY DATE
	1989 BU.	2-YR. AV. BU.	3-YR. AV. BU.	LODGING SCORE	SHATTERING SCORE	PLANT HEIGHT IN.	
FULL SEASON							
COKER 6847	15.4	19.0	19.4	1.0	1.2	26	10-18
COKER 6727	17.4	19.3	19.2	1.1	1.2	22	10-15
STONEWALL	21.7	20.6	19.1	1.1	1.5	22	10-17
BRAXTON	10.0	12.1	14.3	1.0	1.0	24	10-19
RANSOM	11.3	12.2	13.9	1.0	1.3	23	10-13
DELTAPINE 417	8.5	9.9	11.2	1.0	1.8	25	10-16
GASOY 17	7.2	8.9	11.0	1.0	1.0	24	10-14
STARR	12.8	11.7	10.8	1.0	1.7	20	10-16
THOMAS	18.4	19.3	-	-	-	-	-
PIONEER 9751	14.2	15.0	-	-	-	-	-
RIVERSIDE 707	7.6	8.6	-	-	-	-	-
LA 79-11123	17.2	-	-	-	-	-	-
TERRA-VIO 727	16.9	-	-	-	-	-	-
HARTZ 7126	13.5	-	-	-	-	-	-
COLQUITT	13.0	-	-	-	-	-	-
WRIGHT	10.8	-	-	-	-	-	-
RIVERSIDE 757	10.4	-	-	-	-	-	-
HARTZ H 7110	7.3	-	-	-	-	-	-
WILSTAR 790	5.8	-	-	-	-	-	-
LATE							
HARTZ 8112	12.2	12.3	13.3	1.0	1.1	23	10-17
JOHNSTON	8.6	9.8	11.4	1.2	1.3	22	10-16
COBB	5.1	7.9	10.2	1.2	2.5	28	10-19
COKER 6738	12.6	-	-	-	-	-	-
FB3-1918	9.9	-	-	-	-	-	-
FB3-1648	4.5	-	-	-	-	-	-
TEST MEANS	13.2	12.7	14.1	1.1	1.5	22	
L. S. D. (.05)	4.8	5.3	7.1				
C. V. (%)	26.2	28.8	21.8				

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 12, MAY 20, AND MAY 25,
RESPECTIVELY.

TABLE 10. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 1989

BRAND-VARIETY	YIELD PER ACRE BU.	LODGING SCORE	SHATTERING SCORE	AVERAGE	
				PLANT HEIGHT IN.	MATURITY DATE
VERY EARLY					
BAY	38.3	1.5	1.0	27	9-17
BEDFORD	43.3	2.5	1.0	37	9-19
COKER 485	48.1	1.3	1.0	26	9-24
DELTAPINE 105	47.9	2.8	1.0	32	9-20
DELTAPINE 415	46.0	1.3	1.0	28	9-16
FFR 562	44.8	2.0	1.0	31	9-19
FFR 565	41.8	1.5	1.0	27	9-18
FORREST	40.7	1.3	1.0	30	9-18
HARTZ 5164	46.8	1.8	1.0	31	9-21
HARTZ 5171	43.1	2.5	1.0	33	9-19
HARTZ 5370	50.2	1.8	1.0	30	9-19
HYPERFORMER SHILOH	34.0	1.0	3.0	28	9-22
NAROW	49.2	1.0	1.0	21	9-14
PIONEER 9581	44.4	1.0	1.0	30	9-19
TERRA-VIG 505	46.1	2.8	1.0	32	9-20
TERRA-VIG 515	48.2	1.3	1.0	28	9-27
TERRA-VIG 553	42.4	1.0	1.0	26	9-18
WILSTAR 550	44.9	1.0	1.0	26	9-21
EARLY					
AUS2-589	41.6	1.0	1.0	29	10-7
CENTENNIAL	40.1	1.3	1.3	32	10-7
COKER 686	43.2	1.0	1.0	30	10-5
DAVIS	35.4	2.5	2.5	36	10-2
DELTAPINE 506	36.3	2.3	1.0	33	10-7
DELTAPINE 566	40.8	1.0	1.0	31	10-10
DELTAPINE 726	36.6	1.8	1.0	37	10-8
HARTZ 6130	35.5	1.0	1.8	30	10-4
HARTZ 6372	39.0	1.3	1.0	32	10-7
HYPERFORMER HSC B2J	42.5	1.3	1.8	31	9-26
HYPERFORMER SAMPSON	34.4	1.3	1.0	30	10-8
LAMAR	36.3	2.5	1.0	30	10-5
LEFLORE	36.7	1.0	1.0	30	10-5
PIONEER 9641	39.3	1.0	3.0	31	9-23
PIONEER 9691	34.8	1.3	1.0	36	10-5
RA 606	38.6	3.5	1.3	35	9-22
RA 680	36.2	1.3	1.3	35	10-5
RIVERSIDE CAJUN	43.2	1.5	1.5	27	10-5
RIVERSIDE 699	41.3	1.3	1.3	28	10-5
SHARKEY	34.4	4.0	2.8	35	10-5
TERRA-VIG 616	35.7	2.5	1.5	34	10-8
TRACY M	41.7	2.8	1.0	28	9-28
YOUNG	41.3	2.3	2.8	33	9-26

CONTINUED ON THE FOLLOWING PAGE

TABLE 10 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 1989

BRAND-VARIETY	YIELD PER ACRE BU.	LDDGING SCORE	SHATTERING SCORE	AVERAGE	
				PLANT HEIGHT IN.	MATURITY DATE
FULL SEASON					
BRAXTON	34.6	1.0	1.0	31	10-14
COKER 6727	37.4	1.0	1.0	28	10-10
COKER 6847	42.6	1.0	1.0	32	10-10
COLQUITT	36.3	1.0	1.0	31	10-11
DELTAPINE 417	30.1	2.0	2.0	41	10-11
DUOCROP	34.0	3.0	2.5	49	10-5
GORDON	29.5	1.0	1.0	30	10-9
HARTZ H 7110	33.0	1.0	1.0	31	10-10
HARTZ 7126	37.3	1.8	1.0	33	10-10
PIONEER 9751	37.7	1.0	1.0	32	10-11
PIONEER 9791	42.9	1.0	1.0	28	10-10
RANSOM	37.1	1.0	1.3	30	10-10
RIVERSIDE 707	30.4	2.8	1.0	41	10-10
RIVERSIDE 757	27.8	1.8	1.0	35	10-16
STARR	28.7	1.0	2.3	32	10-10
STONEWALL	40.5	1.0	1.8	32	10-11
TERRA-VIG 708	27.0	1.3	1.3	34	10-8
TERRA-VIG 717	31.4	1.3	1.0	32	10-11
TERRA-VIG 727	36.4	1.0	1.0	30	10-8
THOMAS	38.3	1.0	1.3	33	10-12
WILSTAR 790	16.7	1.5	1.0	38	10-11
WRIGHT	35.3	1.3	1.0	34	10-11
LATE					
COBB	23.4	2.3	2.0	40	10-22
COKER 368	22.2	1.0	1.0	35	10-18
COKER 6738	26.1	1.0	1.0	32	10-16
DOWLING	24.3	1.0	1.3	33	10-24
F83-1648	28.6	1.8	1.0	38	10-15
F83-1918	34.8	1.0	1.0	33	10-13
HARTZ 8112	33.2	1.0	1.0	35	10-12
JOHNSTON	37.7	1.0	1.0	34	10-12
KIRBY	18.5	1.0	1.0	34	10-18
TEST MEANS					
	37.2	1.5	1.3	32	
L. S. D. (.05)	6.6				
C. V. (%)	12.7				

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, 1986, 1987, AND 1989

BRAND-VARIETY	YIELD PER ACRE			3-YEAR AVERAGE			
	1989 BU.	2-YR. AV. BU.	3-YR. AV. BU.	LODGING SCORE	SHATTERING SCORE	PLANT HEIGHT IN.	MATURITY DATE
VERY EARLY							
HARTZ 5370	50.2	47.4	48.1	1.3	1.0	29	9-24
DELTAPINE 105	47.9	45.9	47.3	1.8	1.1	30	9-25
COKER 485	48.1	44.3	47.3	1.1	1.0	26	9-27
FFR 562	44.8	41.5	44.3	1.4	1.0	30	9-26
HARTZ 5171	43.1	42.4	43.5	1.6	1.1	32	9-24
WILSTAR 550	44.9	44.0	42.7	1.0	1.0	27	9-27
TERRA-VIO 553	42.4	39.2	41.7	1.0	1.3	27	9-22
BEDFORD	43.3	40.1	41.7	1.5	1.0	32	9-25
TERRA-VIO 505	46.1	44.2	41.0	1.9	1.0	30	9-25
FORREST	40.7	37.7	40.8	1.1	1.1	26	9-23
BAY	38.3	37.9	39.1	1.2	1.1	26	9-24
TERRA-VIO 515	48.2	45.7	-	-	1.1	-	-
NARROW	49.2	45.6	-	-	1.0	-	-
PIONEER 9581	44.4	40.3	-	-	1.1	-	-
FFR 565	41.8	38.5	-	-	1.2	-	-
HARTZ 5164	46.8	-	-	-	1.0	-	-
DELTAPINE 415	46.0	-	-	-	1.0	-	-
HYPERFORMER SHILOH	34.0	-	-	-	1.8	-	-
EARLY							
CENTENNIAL	40.1	41.2	43.3	1.1	1.1	33	10-8
TRACY M	41.7	39.5	42.8	1.9	1.0	30	10-2
DAVIS	35.4	39.6	42.7	2.1	1.7	35	10-5
DELTAPINE 566	40.8	39.7	42.1	1.0	1.0	31	10-9
COKER 686	43.2	43.1	41.6	1.2	1.0	32	10-5
YOUNG	41.3	40.1	41.4	1.8	1.7	34	10-2
LEFLORE	36.7	38.5	41.2	1.2	1.1	32	10-7
HARTZ 6130	35.5	37.7	41.0	1.0	1.3	30	10-5
RA 606	38.6	40.0	40.6	2.3	1.1	35	9-29
DELTAPINE 506	36.3	38.4	40.5	1.9	1.0	34	10-12
RA 680	36.2	37.4	39.5	1.1	1.1	33	10-7
TERRA-VIO 616	35.7	37.9	35.3	2.0	1.2	32	10-12
SHARKEY	34.4	40.3	-	-	1.6	-	-
AUG2-589	41.6	39.8	-	-	1.1	-	-
PIONEER 9691	34.8	38.2	-	-	1.0	-	-
RIVERSIDE CAJUN	43.2	-	-	-	1.2	-	-
HYPERFORMER HSC B2J	42.5	-	-	-	1.4	-	-
RIVERSIDE 699	41.3	-	-	-	1.1	-	-
PIONEER 9641	39.3	-	-	-	1.7	-	-
HARTZ 6372	39.0	-	-	-	1.0	-	-
DELTAPINE 726	36.6	-	-	-	1.0	-	-
LAMAR	36.3	-	-	-	1.1	-	-
HYPERFORMER SAMPSON	34.4	-	-	-	1.2	-	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 11 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA,
3-YEAR SUMMARY, 1986, 1987, AND 1989

BRAND-VARIETY	YIELD PER ACRE			3-YEAR AVERAGE			MATURITY DATE
	1989 BU.	2-YR. AV. BU.	3-YR. AV. BU.	LODGING SCORE	SHATTERING SCORE	PLANT HEIGHT IN.	
FULL SEASON							
PIONEER 9791	42.9	42.7	43.6	1.2	1.0	30	9-29
STONEWALL	40.5	44.3	42.8	1.4	1.3	31	10-13
BRAXTON	34.6	40.0	41.8	1.3	1.0	35	10-17
HARTZ H 7110	33.0	39.2	39.3	1.3	1.0	33	10-14
RANSOM	37.1	38.8	38.4	1.3	1.2	30	10-14
HARTZ 7126	37.3	38.5	37.9	1.7	1.0	36	10-16
DELTAPINE 417	30.1	34.9	35.9	2.2	1.3	40	10-16
DUOCROP	34.0	36.2	35.6	2.8	1.5	48	10-5
TERRA-VIG 708	27.0	34.7	35.0	1.7	1.2	31	9-28
STARR	28.7	33.9	34.2	1.6	1.4	32	9-29
WRIGHT	35.3	39.2	34.1	1.9	1.0	34	10-15
GORDON	29.5	32.9	32.0	1.3	1.0	33	10-9
WILSTAR 790	16.7	21.3	21.9	1.4	1.0	35	10-1
COKER 6847	42.6	44.7	-	-	1.0	-	-
COKER 6727	37.4	42.1	-	-	1.0	-	-
TERRA-VIG 717	31.4	35.3	-	-	1.0	-	-
THOMAS	38.3	-	-	-	1.1	-	-
PIONEER 9751	37.7	-	-	-	1.0	-	-
TERRA-VIG 727	36.4	-	-	-	1.0	-	-
COLQUITT	36.3	-	-	-	1.0	-	-
RIVERSIDE 707	30.4	-	-	-	1.0	-	-
RIVERSIDE 757	27.8	-	-	-	1.0	-	-
LATE							
JOHNSTON	37.7	39.9	37.0	1.6	1.0	32	10-15
COKER 6738	26.1	33.5	35.1	1.1	1.0	34	10-19
HARTZ 8112	33.2	33.4	33.8	1.1	1.0	35	10-18
COKER 368	22.2	30.2	31.7	1.3	1.0	37	10-17
DOWLING	24.3	31.1	30.3	1.9	1.3	35	10-24
COBB	23.4	27.2	26.8	2.0	1.8	39	10-24
KIRBY	18.5	26.3	24.8	1.4	1.0	34	10-20
F83-1918	34.8	-	-	-	1.0	-	-
F83-1648	28.6	-	-	-	1.0	-	-
TEST MEANS	37.2	38.6	38.6	1.5	1.1	33	
L. S. D. (.05)	6.6						
C. V. (%)	12.7						

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 12, MAY 21, AND MAY 23 RESPECTIVELY.

TABLE 12. PERFORMANCE OF EARLY PLANTED SOYBEAN VARIETIES AT BREWTON, ALABAMA, 1986, 1988, AND 1989

BRAND-VARIETY	YIELD PER ACRE			LODGING		SHATTERING		PLANT HEIGHT		MATURITY DATE	
	1989	2-YR AV.	3-YR AV.	1989	2-YR AV.	1989	2-YR AV.	1989	2-YR AV.	1988	2-YR AV.
	BU.	BU.	BU.	SCORE	SCORE	SCORE	SCORE	IN.	IN.		
EARLY											
DELTAPINE 105	48.2	43.9	48.3	1.3	1.4	-	-	28	31	9-23	9-23
PIONEER 9591	38.2	40.1	45.9	1.0	1.0	-	-	19	21	10-2	10-2
HARTZ 5164	38.4	39.4	44.3	1.0	1.1	-	-	25	29	9-26	9-26
DELTAPINE 415	36.0	37.9	43.1	1.0	1.0	-	-	23	25	9-29	9-29
FORREST	36.3	34.1	37.8	1.0	1.1	-	-	24	27	9-21	9-21
COKER 485	39.3	39.7	-	1.0	1.0	-	-	24	26	9-25	9-25
HARTZ 5171	36.4	38.8	-	1.5	1.8	-	-	27	31	9-21	9-21
TERRA-VIG 515	36.1	37.9	-	1.0	1.0	-	-	24	27	9-26	9-26
FFR 562	36.3	36.6	-	1.0	1.1	3.0	2.0	26	29	9-22	9-22
HARTZ 5370	37.2	36.2	-	1.0	1.0	-	-	23	25	9-18	9-18
TERRA-VIG 553	35.2	36.2	-	1.0	1.1	5.0	3.0	23	26	9-23	9-23
FFR 565	34.2	35.7	-	1.0	1.4	-	-	24	30	9-27	9-27
PIONEER 9581	28.6	32.6	-	1.0	1.0	-	-	20	25	9-27	9-27
RIVERSIDE 577	43.1	-	-	1.3	-	3.0	-	25	-	9-25	-
HUTCHESON	42.6	-	-	1.0	-	3.0	-	20	-	9-24	-
STONE	41.8	-	-	1.0	-	-	-	23	-	9-22	-
MEDIUM											
YOUNG	46.0	41.4	45.2	1.3	1.5	-	-	27	30	9-26	9-26
RA 606	42.7	40.8	42.3	1.3	1.6	-	-	29	33	9-26	9-26
DAVIS	41.1	37.2	40.5	2.5	2.3	-	-	33	33	9-28	9-28
SHARKEY	41.8	40.4	-	1.5	1.9	-	-	33	34	9-28	9-28
N. K. S69-54	31.0	35.6	-	1.0	1.0	-	-	20	23	10-2	10-2
LEFLORE	32.4	35.5	-	1.0	1.0	-	-	21	26	10-4	10-4
COKER 686	27.7	33.9	-	1.0	1.0	-	-	20	26	9-30	9-30
PIONEER 9691	31.0	33.4	-	1.0	1.1	-	-	21	24	9-30	9-30
DELTAPINE 566	24.8	32.3	-	1.0	1.0	-	-	18	24	9-30	9-30
HARTZ 6130	36.7	-	-	1.0	-	-	-	25	-	9-25	-
HARTZ 6372	36.0	-	-	1.0	-	-	-	23	-	10-3	-
LLOYD	35.1	-	-	1.0	-	-	-	25	-	10-3	-
DELTAPINE 726	31.5	-	-	1.0	-	-	-	24	-	10-3	-
Q 81-234 (BRYAN)	31.2	-	-	1.0	-	-	-	20	-	10-2	-
FFR 668	30.2	-	-	1.0	-	-	-	22	-	10-3	-
FULL SEASON											
BRAXTON	35.7	36.4	38.2	1.0	1.0	-	-	23	29	10-8	10-8
TEST MEANS											
	36.3	37.2	42.8	1.1	1.2	3.5	2.5	24	28		
L. S. D. (.05)	5.4										
C. V. (%)	10.5										

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

THE PLANTING DATE FOR THE EARLY PLANTING WAS APRIL 26, 1989, APRIL 28, 1988, AND MAY 14, 1986.

TABLE 13. PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 1989

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.		
VERY EARLY											
BAY	12.9	-	5.9	1.0	-	-	-	23	-	10-8	-
COKER 485	25.4	-	12.7	1.0	-	-	-	24	-	10-21	-
DELTAPINE 105	42.0	-	14.1	1.0	-	-	-	27	-	10-3	-
FFR 565	19.9	-	12.9	1.0	-	-	-	23	-	10-8	-
FORREST	26.4	-	7.5	1.0	-	-	-	23	-	10-6	-
HARTZ 5171	28.9	-	12.7	1.0	-	-	-	26	-	10-19	-
HARTZ 5370	18.1	-	8.4	1.0	-	-	-	26	-	10-21	-
TERRA-VIG 515	30.1	-	15.4	1.0	-	-	-	27	-	10-20	-
EARLY											
AUB2-589	33.1	-	16.4	1.0	-	-	-	25	-	10-17	-
COKER 686	36.2	35.6	12.2	1.0	1.0	-	-	27	23	10-10	10-12
DAVIS	34.5	40.6	21.0	1.8	1.3	-	-	29	27	10-18	10-16
DELTAPINE 506	31.0	-	18.9	1.0	-	-	-	27	-	10-11	-
DELTAPINE 566	34.2	-	15.4	1.0	-	-	-	25	-	10-17	-
DELTAPINE 726	33.1	-	23.1	1.0	-	-	-	25	-	10-18	-
FFR 668	36.0	39.2	19.8	1.0	1.0	-	-	28	26	10-16	10-22
HARTZ 6130	31.5	28.5	23.1	1.0	1.0	-	-	27	24	10-7	10-6
HARTZ 6200	35.6	-	16.6	1.0	-	-	-	26	-	10-5	-
HARTZ 6686	43.0	-	22.5	1.0	-	-	-	24	-	10-11	-
HYPERFORMER BALDWIN	35.3	-	22.6	1.0	-	-	-	26	-	10-11	-
LEFLORE	32.8	-	16.6	1.0	-	-	-	24	-	10-15	-
LLOYD	31.2	-	23.0	1.1	-	-	-	28	-	10-11	-
N. K. S69-54	34.7	33.3	22.8	1.0	1.0	-	-	23	23	10-20	10-14
PIONEER 9691	34.6	34.1	16.9	1.0	1.0	-	-	26	25	10-17	10-17
RA 606	40.6	37.8	14.1	1.0	1.0	-	-	29	29	10-13	10-10
RA 680	32.2	-	21.5	1.0	-	-	-	26	-	10-11	-
SHARKEY	30.9	30.2	20.5	1.8	2.0	-	-	29	29	10-18	10-12
TERRA-VIG 616	37.5	33.1	12.7	1.0	1.0	-	-	31	25	10-21	10-20
TRACY M	32.8	-	14.6	1.0	-	-	-	25	-	10-12	-
TWIGGS	24.0	-	13.4	1.0	-	-	-	26	-	10-22	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 13 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 1989

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.		
FULL SEASON											
BRAXTON	30.9	32.6	18.9	1.0	1.0	-	-	28	25	10-26	10-20
COKER 6727	33.3	39.2	16.3	1.0	1.0	-	-	27	24	10-18	10-18
COKER 6847	35.7	-	22.3	1.3	-	-	-	33	-	10-21	-
DELTAPINE 417	25.1	39.2	25.0	1.5	2.0	-	-	30	30	10-24	10-24
FFR 771	31.7	-	30.3	1.0	-	-	-	31	-	10-21	-
GASOY 17	31.3	36.2	17.4	1.9	1.0	-	-	33	25	10-26	10-20
GORDON	28.3	32.7	19.9	1.0	1.0	-	-	23	26	10-12	10-19
HARTZ 7126	26.7	42.2	15.4	1.1	1.0	-	-	26	29	10-15	10-23
PIONEER 9751	35.0	34.2	22.5	1.0	1.0	-	-	27	25	10-22	10-18
PIONEER 9791	38.7	-	14.2	1.0	-	-	-	22	-	10-10	-
RIVERSIDE 757	37.1	-	19.8	1.3	-	-	-	29	-	10-17	-
STARR	27.5	-	16.3	1.0	-	-	-	29	-	10-14	-
STONEWALL	32.6	38.8	25.5	1.0	1.0	-	-	27	25	10-18	10-18
TERRA-VIG 708	36.8	-	21.3	1.0	-	-	-	27	-	10-25	-
TERRA-VIG 717	32.2	37.3	22.8	1.0	1.8	-	-	31	26	10-21	10-22
THOMAS	30.8	-	21.1	1.0	-	-	-	28	-	10-19	-
WILSTAR 790	28.2	-	28.3	1.0	-	-	-	29	-	10-28	-
WRIGHT	34.8	-	22.1	1.0	-	-	-	30	-	10-14	-
FULL SEASON, LATE											
COBB	36.8	37.5	23.5	1.4	1.3	-	-	34	29	10-27	11-1
COKER 368	29.3	34.4	22.0	1.0	1.0	-	-	29	28	10-26	10-25
COKER 6738	30.5	31.3	22.6	1.0	1.0	-	-	29	24	10-24	10-27
DELTAPINE 878	32.7	37.3	27.2	1.4	1.0	-	-	29	26	10-29	11-1
DOWLING	37.4	37.4	24.1	1.4	1.0	-	-	26	28	10-30	11-1
FOSTER	-	32.3	-	-	1.0	-	-	-	25	-	10-27
F83-1648	33.7	-	22.1	1.1	-	-	-	30	-	10-27	-
HARTZ 8112	23.7	37.9	26.8	1.0	1.0	-	-	28	25	10-25	10-26
JOHNSTON	40.3	32.5	23.1	1.0	1.0	-	-	29	25	10-25	10-26
KIRBY	26.1	33.9	20.3	1.0	1.0	-	-	30	28	10-25	10-28
TEST MEANS	31.9	35.5	19.1	1.1	1.1			27	26		
L. S. D. (.05)	6.6	4.8	10.6								
C. V. (%)	14.7	9.6	39.9								

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

TABLE 14. PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 3-YEAR SUMMARY, 1987-89

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1989		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	19.1	-	24.5	-	24.6	-	1.3	-	1.7	-	25	-	10-12	-
FORREST	17.0	-	22.9	-	22.5	-	1.2	-	2.0	-	25	-	10-3	-
DELTAPINE 105	28.0	-	29.7	-	-	-	-	-	-	-	-	-	-	-
TERRA-VIO 515	22.7	-	27.2	-	-	-	-	-	-	-	-	-	-	-
HARTZ 5171	20.8	-	25.0	-	-	-	-	-	-	-	-	-	-	-
HARTZ 5370	13.2	-	22.0	-	-	-	-	-	-	-	-	-	-	-
BAY	9.4	-	16.5	-	-	-	-	-	-	-	-	-	-	-
FFR 565	16.4	-	-	-	-	-	-	-	-	-	-	-	-	-
EARLY														
N. K. 869-54	28.7	33.3	31.4	28.7	30.8	29.1	1.3	1.0	1.3	1.0	26	21	10-19	10-16
LEFLORE	24.7	-	30.5	-	30.4	-	1.1	-	2.0	-	28	-	10-12	-
TERRA-VIO 616	25.1	33.1	30.5	28.8	30.3	-	1.1	-	1.8	-	30	-	10-16	-
RA 680	26.8	-	32.4	-	30.1	-	1.2	-	1.3	-	29	-	10-12	-
DAVIS	27.7	40.6	31.5	37.5	29.8	36.5	1.7	1.1	2.3	1.0	30	25	10-18	10-20
RA 606	27.3	37.8	30.1	32.4	29.5	-	1.3	-	1.8	-	30	-	10-10	-
SHARKEY	25.7	30.2	29.1	27.3	29.1	28.7	1.8	1.6	1.7	1.0	31	26	10-17	10-15
DELTAPINE 506	25.0	-	29.0	-	28.0	-	1.3	-	1.5	-	28	-	10-16	-
DELTAPINE 566	24.8	-	29.8	-	27.7	-	1.1	-	1.0	-	27	-	10-18	-
COKER 686	24.2	35.6	28.2	32.0	27.5	31.4	1.0	1.0	1.2	1.0	27	22	10-15	10-14
TRACY M	23.7	-	27.1	-	26.7	-	1.3	-	1.8	-	27	-	10-14	-
TWIGGS	18.7	-	23.2	-	24.1	-	1.1	-	1.2	-	27	-	10-17	-
FFR 668	27.9	39.2	33.2	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9691	25.8	34.1	31.4	-	-	-	-	-	-	-	-	-	-	-
HARTZ 6130	27.3	28.5	30.4	-	-	-	-	-	-	-	-	-	-	-
HARTZ 6200	26.1	-	28.3	-	-	-	-	-	-	-	-	-	-	-
HARTZ 6686	32.7	-	-	-	-	-	-	-	-	-	-	-	-	-
HYPERFORMER BALDWIN	28.9	-	-	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 726	28.1	-	-	-	-	-	-	-	-	-	-	-	-	-
LLOYD	27.1	-	-	-	-	-	-	-	-	-	-	-	-	-
AUB2-589	24.8	-	-	-	-	-	-	-	-	-	-	-	-	-

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TABLE 14 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES IN SOUTHERN ALABAMA, 3-YEAR SUMMARY, 1987-89

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														
PIONEER 9791	26.5	-	33.7	-	33.8	-	1.2	-	1.3	-	25	-	10-16	-
FFR 771	31.0	-	34.3	-	32.2	-	1.1	-	1.0	-	33	-	10-22	-
COKER 6847	29.0	-	33.3	-	32.1	-	1.1	-	1.0	-	31	-	10-20	-
STONEWALL	29.0	38.8	32.7	32.3	32.1	-	1.2	-	1.3	-	29	-	10-15	-
COKER 6727	24.8	39.2	31.3	34.1	31.7	-	1.1	-	1.0	-	27	-	10-15	-
BRAXTON	24.9	32.6	31.6	27.1	31.7	29.4	1.0	1.0	1.0	1.0	30	23	10-25	10-21
GASOY 17	24.4	36.2	30.8	33.2	31.4	35.4	1.5	1.0	1.0	1.0	32	23	10-25	10-21
TERRA-VIG 717	27.5	37.3	32.8	33.1	31.3	34.3	1.3	1.3	1.2	1.0	29	23	10-22	10-21
TERRA-VIG 708	29.1	-	32.0	-	31.2	-	1.2	-	1.3	-	30	-	10-24	-
WRIGHT	28.5	-	32.6	-	30.9	-	1.4	-	1.5	-	29	-	10-19	-
GORDON	24.1	32.7	31.2	-	30.7	-	1.2	-	1.0	-	28	-	10-14	-
DELTAPINE 417	25.1	39.2	31.9	34.1	30.7	35.4	1.5	1.3	1.7	1.0	33	25	10-23	10-24
HARTZ 7126	21.0	42.2	30.4	37.6	29.5	37.2	1.3	1.0	1.0	1.0	27	26	10-16	10-23
STARR	21.9	-	28.2	-	26.9	-	1.0	-	1.5	-	27	-	10-19	-
PIONEER 9751	28.7	34.2	-	-	-	-	-	-	-	-	-	-	-	-
RIVERSIDE 757	28.4	-	-	-	-	-	-	-	-	-	-	-	-	-
WILSTAR 790	28.2	-	-	-	-	-	-	-	-	-	-	-	-	-
THOMAS	25.9	-	-	-	-	-	-	-	-	-	-	-	-	-
FULL SEASON, LATE														
COBB	30.2	37.5	34.8	35.6	33.2	36.4	1.5	1.1	1.2	1.0	34	27	10-29	10-31
JOHNSTON	31.7	32.5	35.3	30.6	32.6	32.5	1.2	1.0	1.0	1.0	29	23	10-23	10-25
DOWLING	30.7	37.4	35.2	30.1	32.4	32.9	1.4	1.0	1.3	1.0	30	24	10-28	10-29
COKER 368	25.6	34.4	33.5	29.6	31.7	29.9	1.1	1.0	1.2	1.0	32	25	10-24	10-23
COKER 6738	26.6	31.3	33.0	-	30.9	-	1.0	-	1.0	-	30	-	10-23	-
KIRBY	23.2	33.9	30.6	28.1	29.0	29.9	1.2	1.0	1.3	1.0	30	25	10-24	10-26
HARTZ 8112	25.3	37.9	30.4	32.3	28.8	32.4	1.0	1.0	1.0	1.0	29	24	10-25	10-25
DELTAPINE 878	29.9	37.3	-	-	-	-	-	-	-	-	-	-	-	-
FB3-1648	27.9	-	-	-	-	-	-	-	-	-	-	-	-	-
FOSTER	-	32.3	-	27.9	-	29.4	-	1.0	-	1.0	-	22	-	10-25
TEST MEANS	25.5	35.5	30.1	31.6	29.9	32.6	1.2	1.1	1.4	1.0	29	24		
L. S. D. (.05)	8.8	4.8	7.8		7.4									
C. V. (%)	24.8	9.6	18.8		17.9									

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 MAY 27, MAY 27, AND MAY 29 FOR 1-YEAR, 2-YEAR, AND 3-YEAR AVERAGES,
 RESPECTIVELY, AND SECOND PLANTING DATE WAS JUNE 23, JULY 3, AND JULY 4, RESPECTIVELY.

TABLE 15. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 1989

BRAND-VARIETY	YIELD PER ACRE		AVERAGE							
			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.		
<u>VERY EARLY</u>										
HARTZ 5164	46.0	-	1.0	-	1.0	-	25	-	9-27	-
FFR 562	45.7	-	1.3	-	1.0	-	28	-	9-25	-
DELTAPINE 105	44.2	-	1.3	-	1.0	-	26	-	9-25	-
PIONEER 9581	44.1	-	1.0	-	1.0	-	22	-	9-25	-
FORREST	42.0	-	1.0	-	1.0	-	23	-	9-25	-
STONE	40.7	-	1.0	-	1.0	-	23	-	9-27	-
WILSTAR 550	38.5	-	1.0	-	1.0	-	25	-	9-26	-
COKER 485	36.6	-	1.0	-	1.0	-	22	-	9-28	-
COKER 425	28.3	-	1.0	-	1.0	-	18	-	9-23	-
BAY	26.2	-	1.0	-	1.0	-	23	-	9-24	-
<u>EARLY</u>										
HARTZ 6686	47.6	-	1.0	-	1.0	-	28	-	10-7	-
YOUNG	45.5	-	1.3	-	1.0	-	28	-	9-30	-
DAVIS	43.1	-	1.3	-	1.0	-	32	-	10-3	-
HARTZ 6372	42.5	-	1.0	-	1.0	-	25	-	10-6	-
SHARKEY	42.5	-	1.5	-	1.0	-	29	-	10-4	-
HYPERFORMER SAMPSON	41.3	-	1.0	-	1.0	-	22	-	10-10	-
DELTAPINE 506	40.8	-	1.3	-	1.0	-	29	-	10-8	-
FFR 668	40.5	-	1.0	-	1.0	-	26	-	10-8	-
LEFLORE	39.0	-	1.0	-	1.0	-	26	-	10-7	-
TERRA-VIO 616	38.9	-	1.0	-	1.0	-	28	-	10-9	-
COKER 686	38.8	-	1.0	-	1.0	-	23	-	10-5	-
TRACY M	38.6	-	1.0	-	1.0	-	25	-	9-29	-
HARTZ 6130	38.2	-	1.0	-	1.0	-	22	-	10-1	-
DELTAPINE 726	38.1	-	1.0	-	1.0	-	26	-	10-9	-
TWIGGS	37.3	-	1.0	-	1.0	-	22	-	9-27	-
EHJU 5	37.2	-	1.0	-	1.0	-	28	-	10-9	-
LLOYD	37.1	-	1.0	-	1.0	-	30	-	10-7	-
RA 680	35.4	-	1.0	-	1.0	-	22	-	10-6	-
N. K. S69-54	28.6	-	1.0	-	1.0	-	19	-	10-8	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 15 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 1989

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										
HARTZ 7126	41.8	-	1.0	-	1.0	-	35	-	10-14	-
LA 79-11123	40.3	-	1.0	-	1.0	-	30	-	10-13	-
FFR 771	40.1	-	1.0	-	1.0	-	30	-	10-14	-
RIVERSIDE 757	40.0	-	1.0	-	1.0	-	34	-	10-23	-
TERRA-VIG 708	39.3	-	1.0	-	1.0	-	31	-	10-17	-
TERRA-VIG 717	39.0	-	1.0	-	1.0	-	28	-	10-18	-
STONEWALL	38.7	-	1.0	-	1.0	-	29	-	10-14	-
THOMAS	38.6	-	1.0	-	1.0	-	28	-	10-17	-
COKER 6847	37.7	-	1.0	-	1.0	-	29	-	10-13	-
HARTZ H 7110	37.5	-	1.0	-	1.0	-	27	-	10-13	-
PIONEER 9751	37.0	-	1.0	-	1.0	-	29	-	10-14	-
WILSTAR 790	36.8	-	1.0	-	1.0	-	31	-	10-24	-
RANSOM	36.6	-	1.0	-	1.0	-	29	-	10-14	-
STARR	35.6	-	1.0	-	1.0	-	28	-	10-14	-
COKER 6727	35.3	-	1.0	-	1.0	-	25	-	10-11	-
BRAXTON	35.3	-	1.0	-	1.0	-	28	-	10-16	-
WRIGHT	35.2	-	1.0	-	1.0	-	28	-	10-13	-
PIONEER 9791	34.7	-	1.0	-	1.0	-	27	-	10-11	-
GORDON	34.1	-	1.0	-	1.0	-	28	-	10-10	-
DELTAPINE 417	29.3	-	1.3	-	1.0	-	41	-	10-13	-
FULL SEASON, LATE										
F83-1648	42.7	-	1.0	-	1.0	-	32	-	10-25	-
HARTZ 8112	40.3	-	1.0	-	1.0	-	35	-	10-26	-
DELTAPINE 878	40.1	-	1.0	-	1.0	-	35	-	10-26	-
JOHNSTON	39.3	-	1.0	-	1.0	-	26	-	10-24	-
COBB	37.9	-	1.0	-	1.0	-	39	-	10-27	-
COKER 368	36.0	-	1.0	-	1.0	-	34	-	10-25	-
COKER 6738	34.6	-	1.0	-	1.0	-	28	-	10-24	-
DOWLING	33.6	-	1.0	-	1.0	-	37	-	10-26	-
KIRBY	33.0	-	1.0	-	1.0	-	30	-	10-25	-
FOSTER	32.0	-	1.0	-	1.0	-	30	-	10-22	-
HARTZ H 9190	20.6	-	3.0	-	1.0	-	51	-	11-10	-
TEST MEANS	37.9		1.1		1.0		28			
L. S. D. (.05)	6.2									
C.V. (%)	11.8									

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

TABLE 16. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 3-YEAR SUMMARY, 1987-89

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														
FORREST	42.0	-	44.1	-	42.0	-	1.6	-	1.0	-	28	-	10-1	-
COKER 485	36.6	-	43.1	-	41.9	-	1.8	-	1.2	-	28	-	10-3	-
DELTAPINE 105	44.2	-	44.5	-	41.5	-	2.0	-	1.5	-	30	-	10-2	-
WILSTAR 550	38.5	-	38.1	-	37.3	-	1.4	-	1.1	-	30	-	10-3	-
HARTZ 5164	46.0	-	47.7	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9581	44.1	-	43.4	-	-	-	-	-	-	-	-	-	-	-
COKER 425	28.3	-	37.6	-	-	-	-	-	-	-	-	-	-	-
BAY	26.2	-	32.5	-	-	-	-	-	-	-	-	-	-	-
FFR 562	45.7	-	-	-	-	-	-	-	-	-	-	-	-	-
STONE	40.7	-	-	-	-	-	-	-	-	-	-	-	-	-
EARLY														
SHARKEY	42.5	-	44.9	-	42.8	-	2.6	-	1.8	-	35	-	10-10	-
LEFLORE	39.0	-	43.3	-	41.4	-	1.5	-	1.0	-	32	-	10-12	-
TRACY M	38.6	-	41.7	-	40.6	-	1.8	-	1.5	-	30	-	10-7	-
HARTZ 6130	38.2	-	42.0	-	40.6	-	1.7	-	1.0	-	32	-	10-6	-
TWIGGS	37.3	-	39.9	-	38.7	-	1.4	-	1.0	-	28	-	10-8	-
DELTAPINE 506	40.8	-	40.0	-	38.5	-	2.0	-	1.0	-	33	-	10-14	-
N. K. S69-54	28.6	-	37.3	-	37.8	-	2.1	-	1.0	-	26	-	10-12	-
TERRA-VIG 616	38.9	-	39.1	-	37.7	-	2.0	-	1.0	-	31	-	10-15	-
DAVIS	43.1	-	38.4	-	36.9	-	2.1	-	1.3	-	35	-	10-10	-
HARTZ 6686	47.6	-	47.0	-	-	-	-	-	-	-	-	-	-	-
HARTZ 6372	42.5	-	42.4	-	-	-	-	-	-	-	-	-	-	-
DELTAPINE 726	38.1	-	42.0	-	-	-	-	-	-	-	-	-	-	-
YOUNG	45.5	-	-	-	-	-	-	-	-	-	-	-	-	-
HYPERFORMER SAMPSON	41.3	-	-	-	-	-	-	-	-	-	-	-	-	-
FFR 668	40.5	-	-	-	-	-	-	-	-	-	-	-	-	-
COKER 686	38.8	-	-	-	-	-	-	-	-	-	-	-	-	-
EHJU 5	37.2	-	-	-	-	-	-	-	-	-	-	-	-	-
LLOYD	37.1	-	-	-	-	-	-	-	-	-	-	-	-	-
RA 680	35.4	-	-	-	-	-	-	-	-	-	-	-	-	-

CONTINUED ON THE FOLLOWING PAGE

TABLE 16 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 3-YEAR SUMMARY, 1987-89

BRAND-VARIETY	YIELD PER ACRE						3-YEAR AVERAGE							
	1989		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														
HARTZ 7126	41.8	-	45.5	-	42.5	-	1.4	-	1.0	-	36	-	10-17	-
PIONEER 9791	34.7	-	40.7	-	42.0	-	1.3	-	1.0	-	29	-	10-15	-
STONEWALL	38.7	-	42.6	-	41.7	-	1.8	-	1.1	-	31	-	10-16	-
BRAXTON	35.3	-	40.6	-	41.0	-	1.4	-	1.0	-	33	-	10-18	-
COKER 6847	37.7	-	40.1	-	40.3	-	1.7	-	1.0	-	33	-	10-16	-
COKER 6727	35.3	-	41.0	-	40.3	-	1.5	-	1.0	-	29	-	10-15	-
TERRA-VIG 717	39.0	-	39.8	-	38.1	-	2.7	-	1.0	-	30	-	10-20	-
RANSOM	36.6	-	37.8	-	38.0	-	1.4	-	1.1	-	30	-	10-15	-
GORDON	34.1	-	39.4	-	37.7	-	1.5	-	1.0	-	31	-	10-14	-
TERRA-VIG 708	39.3	-	38.0	-	37.5	-	1.9	-	1.0	-	33	-	10-18	-
WRIGHT	35.2	-	36.8	-	36.6	-	2.3	-	1.1	-	33	-	10-17	-
FFR 771	40.1	-	36.7	-	35.7	-	1.3	-	1.0	-	34	-	10-18	-
STARR	35.6	-	35.7	-	34.4	-	1.8	-	1.8	-	31	-	10-16	-
DELTAPINE 417	29.3	-	29.8	-	31.5	-	1.5	-	1.0	-	39	-	10-16	-
THOMAS	38.6	-	42.7	-	-	-	-	-	-	-	-	-	-	-
RIVERSIDE 757	40.0	-	40.8	-	-	-	-	-	-	-	-	-	-	-
LA 79-11123	40.3	-	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 7110	37.5	-	-	-	-	-	-	-	-	-	-	-	-	-
PIONEER 9751	37.0	-	-	-	-	-	-	-	-	-	-	-	-	-
WILSTAR 790	36.8	-	-	-	-	-	-	-	-	-	-	-	-	-
FULL SEASON, LATE														
HARTZ 8112	40.3	-	41.3	-	39.7	-	1.6	-	1.0	-	36	-	10-23	-
COKER 6738	34.6	-	39.6	-	39.5	-	1.5	-	1.0	-	33	-	10-22	-
COKER 368	36.0	-	39.7	-	39.0	-	1.8	-	1.0	-	35	-	10-23	-
FOSTER	32.0	-	37.7	-	37.3	-	2.1	-	1.0	-	33	-	10-21	-
JOHNSTON	39.3	-	38.3	-	36.8	-	2.2	-	1.0	-	31	-	10-22	-
KIRBY	33.0	-	36.8	-	35.3	-	1.3	-	1.0	-	33	-	10-23	-
COBB	37.9	-	35.8	-	35.2	-	1.5	-	1.0	-	38	-	10-24	-
DOWLING	33.6	-	34.3	-	34.6	-	1.7	-	1.1	-	35	-	10-24	-
DELTAPINE 878	40.1	-	38.8	-	-	-	-	-	-	-	-	-	-	-
FB3-1648	42.7	-	-	-	-	-	-	-	-	-	-	-	-	-
HARTZ H 9190	20.6	-	-	-	-	-	-	-	-	-	-	-	-	-
TEST MEANS	37.9	-	40.0	-	38.6	-	1.7	-	1.1	-	32	-		
L. S. D. (.05)	6.2	-	6.4	-	6.3	-								
C. V. (%)	11.8	-	9.0	-	7.0	-								

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 MAY 31, JUNE 7, AND JUNE 7 FOR 1-YEAR, 2-YEAR, AND 3-YEAR AVERAGES,
 RESPECTIVELY.

TABLE 17. PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS, 1989

BRAND-VARIETY	YIELD PER ACRE		
	NORTHERN (BELLE MINA)	CENTRAL (PRATTVILLE)	SOUTHERN (MONROEVILLE)
	BU.	BU.	BU.
GROUP IV			
EGYPTIAN	16.5	-	-
MORGAN	11.0	-	-
PERSHING	23.0	-	-
RIVERSIDE 499	31.0	-	-
GROUP V			
AGRATECH 525	25.0	14.8	-
AGRATECH 550	33.3	16.2	-
AGRATECH 575	26.2	13.8	-
ARKANSAS R83-1342	28.9	14.6	-
AVERY	-	9.3	10.3
BAY	22.8	17.9	7.8
COKER 425	-	-	9.4
COKER 6925	29.1	15.7	-
COKER 6955	-	9.6	11.5
COKER 6995	-	14.0	11.4
DELTAPINE 3595	33.8	15.5	-
EHJU 9A	25.7	12.1	-
ESSEX	23.9	-	-
FFR 561	-	-	8.5
FFR 562	-	13.8	11.1
FFR 565	-	-	9.5
FORREST	27.2	17.6	10.3
HARTZ H85-608	32.0	15.3	-
HARTZ M83-2008	26.0	13.4	-
HARTZ VARIETY H5240	36.2	14.1	-
HARTZ 5252	-	15.6	9.0
HUTCHESON	-	-	9.7
HYPERFORMER HB 89-132	29.1	13.5	-
HYPERFORMER HB 89-576	35.3	12.4	-
HYPERFORMER HB 89-578	38.6	11.0	-
HYPERFORMER HSC 579	25.8	12.7	-
HYPERFORMER SHENANDOAH	-	11.8	7.5
NAROW	-	18.4	6.7
PIONEER 9582	30.1	13.6	9.7
PIONEER 9591	-	-	9.7
PIONEER 9592	35.2	13.4	-
RIVERSIDE 577	-	15.3	-
RIVERSIDE 593	31.1	-	12.0
TERRA-VIG 505	-	-	11.0
TERRA-VIG 553	-	14.0	8.4
TN 5-85	-	-	8.3
TOANO	-	15.0	9.5

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TABLE 17 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS, 1989

BRAND-VARIETY	YIELD PER ACRE		
	NORTHERN (BELLE MINA)	CENTRAL (PRATTVILLE)	SOUTHERN (MONROEVILLE)
	BU.	BU.	BU.
GROUP VI			
AGRATECH 695	34.8	-	-
AU82-589	-	15.5	-
BRADLEY	-	-	8.1
DELTAPINE DPX 3623	-	-	10.9
DELTAPINE DPX 3627	29.8	15.2	9.4
EHJU 11	30.6	12.6	12.9
EHJU 5	26.3	11.0	11.8
EHJU 7	-	11.4	10.0
EHJU 9	31.8	15.1	11.8
FFR 606	28.0	13.0	11.9
FFR 646	-	15.8	12.3
FFR 695	28.3	11.4	11.9
GA 681-234	-	12.4	13.6
GA 683-198	32.5	11.8	13.5
HARTZ H84-2008	33.1	12.1	11.3
HARTZ VARIETY H6570	29.8	11.7	9.8
HARTZ 6200	-	-	11.8
HARTZ 6372	-	-	12.0
HYPERFORMER HSC B2J	-	14.3	13.6
LAMAR	29.5	7.8	9.3
LEFLORE	34.4	13.9	11.1
PIONEER 9641	-	14.0	11.8
RIVERSIDE CAJUN	-	-	10.2
RIVERSIDE 677	31.4	18.5	13.3
RIVERSIDE 696	-	-	12.5
RIVERSIDE 699	24.8	13.8	12.1
SHARKEY	36.2	13.0	12.1
TERRA-VIG 626	28.3	10.7	11.2
TRACY M	33.4	13.9	-

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TABLE 17 (CONTINUED). PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS, 1989

BRAND-VARIETY	YIELD PER ACRE		
	NORTHERN (BELLE MINA)	CENTRAL (PRATTVILLE)	SOUTHERN (MONROEVILLE)
	BU.	BU.	BU.
GROUP VII			
AGRATECH 700	-	14.2	16.2
AGRATECH 9702	-	13.1	10.2
BRAXTON	18.0	13.8	13.6
COLQUITT	-	13.5	14.2
EHJU 1-P	-	16.4	9.9
EHJU 1-W	-	10.8	10.2
EHJU 3	-	9.8	7.9
FFR EXP 36259	-	14.1	12.9
HARTZ VARIETY H7190	-	9.6	11.3
HARTZ VARIETY H7585	-	19.7	12.9
HYPERFORMER HSC 721	-	15.3	14.3
LA 79-11123	-	15.0	13.3
PIONEER 9711	-	13.4	14.9
RIVERSIDE 707	-	-	15.3
RIVERSIDE 757	-	16.6	-
STONEWALL	-	11.7	13.3
TERRA-VIG 727	-	15.4	12.8
GROUP VIII			
DELTAPINE 878	-	20.1	-
DOWLING	-	20.4	14.7
F83-1648	-	20.4	-
F83-1918	-	21.6	12.8
HARTZ H84-1107	-	20.3	16.2
HARTZ H84-1614	-	18.1	13.2
KIRBY	-	18.4	11.6
TEST MEANS	29.0	14.3	11.4
L. S. D. (0.05)	9.5	4.4	2.4
C. V. (%)	23.5	22.1	15.3

CHECK VARIETIES: GROUP V FORREST AND HUTCHESON
 GROUP VI LEFLORE AND SHARKEY
 GROUP VII BRAXTON AND STONEWALL
 GROUP VIII DOWLING AND KIRBY

Table 18. Iron chlorosis Ratings, Yield, and Plant Height of Soybean Varieties
Grown on Sumter Soil at Black Belt Substation, 1987-89

Brand - variety	Soybean yield/acre			Iron chlorosis rating ^{1/}		Plant height	
	1989	2-yr. average	3-yr. average	August 1989	September 1988	1989	1988
	Bu.	Bu.	Bu.	Rating	Rating	In.	In.
Deltapine 105	24.3	16.3	17.0	2.0	4.6	23	18
Narrow	17.0	15.0	16.7	1.4	3.1	14	17
Hartz 5370	16.3	14.4	16.2	1.8	5.4	17	18
Forrest	11.5	7.4	9.2	2.1	7.8	19	16
Bay	8.0	5.7	7.3	3.1	7.8	14	16
Deltapine 415	24.8	14.4		2.9	7.6	20	13
Hartz 5164	18.5	12.3		2.4	6.1	22	15
Hutcheson	15.5	11.1		3.3	6.3	13	15
Avery	15.3	11.0		3.8	7.0	34	19
TN 5-85	18.0	9.6		3.0	8.3	15	13
Toana	10.3	7.2		2.9	6.7	14	16
Terra-Vig 505	17.6			2.4		21	
Young	17.2	13.5	13.7	1.5	6.4	29	21
Tracy M	18.5	12.9	13.7	3.3	7.3	25	20
Davis	11.5	12.0	13.7	1.6	5.1	26	21
Deltapine 506	8.6	12.0	13.6	2.0	3.5	23	22
Pioneer 9691	15.3	13.2	13.2	1.6	6.4	17	16
Terra-Vig 616	12.6	12.8	13.1	1.5	2.8	30	20
Leflore	18.3	12.7	13.1	3.5	7.2	22	18
Au82-589	4.9	8.4	10.1	2.1	6.2	18	18
Sharkey	11.3	8.8		5.5	7.8	29	19
Deltapine 726	11.9	8.5		3.4	7.0	21	19
HyPerformer							
Sampson	7.2	7.9		4.1	4.9	19	18
Bradley	6.8	6.6		1.6	6.9	17	14
Hartz 6372	8.0	5.4		2.6	9.0	18	14
G81-234	3.8	3.0		7.8	10.0	15	12
Lamar	19.5			3.3		20	
Riverside Cajun	13.6			1.8		15	
Riverside 699	11.6			4.1		20	
HyPerformer							
Shilch	11.0			1.6		17	

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Table 18. (Continued). Iron Chlorosis Ratings, Yield, and Plant Height of Soybean Varieties Grown on Sumter Soil at Black Belt Substation, 1987-89

Brand - variety	Soybean yield/acre			Iron chlorosis rating ^{1/}		Plant height	
	1989	2-yr.	3-yr.	August	September	1989	1988
	Bu.	average	average	1988	1989	In.	In.
	Bu.	Bu.	Bu.	Rating	Rating	In.	In.
Coker 6727	20.4	20.1	19.7	1.9	3.3	21	21
Stonewall	22.8	20.2	18.9	1.9	4.6	21	19
Coker 6847	14.0	17.7	18.5	1.5	3.3	30	21
Braxton	8.9	10.1	13.0	1.8	4.3	24	20
Ransom	9.6	10.4	12.7	2.4	6.5	23	19
Deltapine 417	9.9	8.6	10.3	4.0	6.0	28	19
GaSoy 17	8.7	7.3	10.1	4.3	7.6	27	19
Starr	12.9	9.9	9.6	3.6	7.2	24	16
Thomas	20.8	19.5		1.1	3.6	27	23
Pioneer 9751	14.0	13.9		2.9	4.9	24	20
Terra-Vig 727	18.3			1.6		20	
IA 79-11123	15.7			5.3		24	
Hartz 7126	13.9			2.0		25	
Colquitt	12.9			1.6		23	
Riverside 757	11.7			1.9		23	
Wright	11.1			4.3		25	
Riverside 707	8.1			6.0		26	
Wilstar 780	6.1			4.0		23	
Hartz H 7110	3.4			8.5		19	
Hartz 8112	12.1	13.0	13.8	3.8	4.2	23	22
Cobb	4.5	8.0	10.2	3.4	3.6	30	25
Johnston	5.7	6.7	10.0	3.9	7.6	21	23
Coker 6738	12.6	10.4		3.6		27	
F83 - 1918	9.9	9.9		2.4		24	
F83 - 1648	4.5	5.1		4.9		29	

^{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.

REACTION OF SOYBEAN VARIETIES TO FROGEYE LEAFSPOT^{1/}

Soybean varieties were rated in 1989 for their reaction to frogeye leafspot, stem canker, and sudden death syndrome (SDS) in three geographical areas of the State. Only varietal reactions to frogeye are listed, tables 19, 20, and 21, since stem canker and SDS occurrence were sporadic.

Four replications of each variety were rated for frogeye leafspot at the Black Belt and Gulf Coast substations and three replications on the Sand Mountain Substation. Frogeye severity was measured using a rating system of 1-10, with 1 being free of frogeye and 10 having more than 90 percent of the leaf area covered with frogeye spots.

Varietal reaction to frogeye leafspot varied between locations due to the possible differences in fungal strains that incite frogeye and environmental conditions.

^{1/}Disease ratings were made by William S. Gazaway and John B. Henderson, Extension Plant Pathologist and Extension Agronomist, respectively.

Table 19. Soybean Variety Reaction to Frogeye Leafspot when grown at Sand Mountain Substation, 1989

Maturity group	Disease ratings ^{1/}			
	Tolerant	Moderately susceptible	Susceptible	Very susceptible
V	Bay Bedford Coker 6955 Deltapine 105 Deltapine 415 FFR 565 Hartz 5164 Hartz 5370 Hutcheson Pioneer 9581 Pioneer 9591 Riverside 577 Stone Terra-Vig 505 Toana TN 5-85 Wilstar 550	Coker 485 Coker 6995 Deltapine 506 Forrest FFR 562 Hartz 5252 Shenandoah Terra-Vig 515 Terra-Vig 553	FFR 561 Hartz 5170	
VI	Au82-589 Bradley Deltapine 3623 FFR 646 FFR 668 G 81-234 Hartz 6200 Hartz 6686 HSC Baldwin HSC - B2J New NK S 69-54 Pioneer 9641 RA 606 Riverside Cajun Sharkey Terra-Vig 616 Tracy M Young	Coker 686 Centennial EHJU-7 HSC Shiloh Leflore RA 680 Twiggs	Deltapine 566 Hartz 6130 Hartz 6372 HSC Sampson Pioneer 9691 Riverside 696	Deltapine 726 Lloyd
VII		Braxton		

^{1/} Ratings were averages of three replications made September 14, 1989:

Tolerant-----1.0-2.4
 Moderately susceptible----2.5-4.0
 Susceptible-----4.1-5.4
 Very susceptible-----5.5-10.0

Table 20. Soybean Variety Reaction to Frogeye Leafspot when grown at Black Belt Substation, 1989

Maturity group	Disease ratings ^{1/}			
	Tolerant	Moderately susceptible	Susceptible	Very susceptible
V	Bedford Coker 485 Deltapine 415 Hartz 5164 Terra-Vig 505 Terra-Vig 515 Wilstar 550	Bay Deltapine 105 FFR 562 FFR 565 Forrest Hartz 5171 Hartz 5370 Marow Pioneer 9591 Terra-Vig 553		
VI	Au82-589 Centennial Davis Deltapine 506 Deltapine 566 HSC-82J Pioneer 9641 RA 606 RA 680 Riverside 699 Sharkey Terra-Vig 616 Tracy M Young	Coker 686 Deltapine 726 Hartz 6130 Hartz 6372 HSC Sampson Lamar Leflore Pioneer 9691 Riverside Cajun	HSC Shiloh	
VII	Braxton Coker 6727 Coker 6847 Duocrop Hartz 7126 Pioneer 9791 Ransom Riverside 707 Riverside 757 Stonewall Terra-Vig 708 Wilstar 790 Cobb Hartz 8113 Johnston	Colquitt Gordon Hartz 7110 Pioneer 9751 Terra-Vig 717 Terra-Vig 727 Thomas Wright F 83-1648 F 83-1918	Deltapine 417 Coker 6738 Dowling Kirby	Starr Coker 368

^{1/} Ratings were averages of four replications made on August 31, 1989:

Tolerant-----1.0-2.4
 Moderately susceptible-----2.5-4.0
 Susceptible-----4.1-5.4
 Very susceptible-----5.5-10.0

Table 21. Soybean Variety Reaction to Frogeye Leafspot when grown at Gulf Coast Substation, 1989

Maturity group	Disease ratings ^{1/}			
	Tolerant	Moderately susceptible	Susceptible	Very susceptible
V	Bay Coker 425 Pioneer 9581 Wilstar 550	Hartz 5164	Coker 485 Deltapine 105 Forrest	FFR 562 Stone
VI	Davis Deltapine 506 FFR 668 Hartz 6686 New NK S 69-54 Young	Coker 686 HSC Sampson Terra-Vig 616 Tracy M Sharkey	Deltapine 726 EHJU-5 Hartz 6372 Leflore RA 680 Twiggs	Hartz 6130 Lloyd
VII	Hartz 7126 LA 79-11123 Ransom Riverside 757 Terra-Vig 708	Coker 6727 FFR 771 Pioneer 9791 Stonewall Terra-Vig 717 Wilstar 790	Braxton Coker 6847 Gordon Pioneer 9751 Starr Thomas Wright	Deltapine 417 Hartz 7110
VIII	Cobb Deltapine 878 Johnston	Hartz 8112	Dowling F83-1648	Coker 368 Coker 6738 Foster Kirby
IX		Hartz 9190		

^{1/} Ratings were averages of four replications made September 6, 1989:

Tolerant-----1.0-2.4
 Moderately susceptible---2.5-4.0
 Susceptible-----4.1-5.4
 Very susceptible-----5.5-10.0

RECOMMENDED SOYBEAN VARIETIES FOR 1990

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

Early

*Bay
 *Bedford
 *Coker 425
 Coker 485
 Deltapine 105
 Deltapine 415
 *Essex
 FFR 561
 FFR 565
 Forrest
 Hartz H 5164
 Hartz H 5171
 Hartz H 5370
 Hutcheson
 Pioneer 9581
 Pioneer 9591
 **Riverside 577
 Terra-Vig 515
 Terra-Vig 553

Full season

Bryan
 Centennial
 Coker RA 606
 Coker 686
 *Hartz H 6130
 Hartz H 6686
 Hartz H 6200
 *Leflore
 New NK S69-54
 Pioneer 9691
 Sharkey
 *Tracy M

Late
 (late plantings)

*Braxton
 Hartz H 7126
 **Pioneer 9791
 **Ransom
 **Stonewall

Central Alabama

Very early

Coker 485
 Deltapine 105
 Forrest
 Hartz H 5370
 Terra-Vig 515

Early

Coker RA 606
 Coker RA 680
 *Davis
 FFR 668
 Leflore
 Pioneer 9691
 Riverside 696
 *Tracy M
 *Young

Full season

*Braxton
 Coker 6727
 FFR 771
 *GaSoy 17
 Hartz H 7126
 Terra-Vig 708
 Terra-Vig 717
 Wright

Late

Cobb
 Coker 368
 Coker 6738
 Dowling
 Foster
 Johnston

(Continued on following page)

Black Belt (acid soil)

<u>Very early</u>	<u>Early</u>	<u>Full season</u>	<u>Late</u>
*Bay	Centennial	Braxton	*Cobb
Coker 485	Coker 686	**Coker 6847	Coker 368
Deltapine 105	*Coker RA 680	*Deltapine 417	Coker 6738
FFR 562	Davis	Hartz H 7110	Dowling
Hartz H 5370	Deltapine 566	Hartz H 7126	Hartz H 8112
Wilstar 550	Hartz H 6130	Pioneer 9791	Johnston
	Leflore	Ransom	
	Tracy M	Stonewall	
	Young		

Southern Alabama

<u>Very early</u> (early May plantings)	<u>Early</u>	<u>Full season</u>	<u>Late</u>
Deltapine 105	Coker RA 606	Braxton	Cobb
Hartz H 5164	Coker RA 680	Coker 6727	Coker 368
Pioneer 9591	Davis	Coker 6847	*Coker 6738
	**FFR 668	FFR 771	Dowling
	Leflore	Gasoy 17	Johnston
	New NK S69-54	Pioneer 9791	
	Sharkey	Stonewall	
	Terra-Vig 616	Terra-Vig 717	
	Young		

Baldwin-Mobile

<u>Very early</u>	<u>Early</u>	<u>Full season</u>	<u>Full season, late</u>
Coker 485	*Davis	Braxton	Coker 368
Deltapine 105	Hartz H 6130	Coker 6727	Coker 6738
Forrest	**Hartz H 6686	Coker 6847	Hartz H 8112
**Hartz H 5164	Leflore	Hartz H 7126	Johnston
	New NK S69-54	Pioneer 9791	*Kirby
	Twiggs	Stonewall	
		**Thomas	

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

**Recommended based on exceptional 2-year average.

