# South Alabama

# Soybean Variety Tests

1981

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The following is a suggested list of varieties by planting date for southern Alabama. Within planting dates, varieties are listed alphabetically by maturity group.

Plantings May 20 to June 10

VI	VII	VIII
Centennial Coker 156 Davis Lee 74 McNair 600 Tracy Tracy M	Agripro 70 Bragg Braxton Coker 237 Ransom Wright	Cobb Coker 338 Coker 488 Hutton
	Plantings June 10 to 30	• •
VI	VII	VIII
Davis	Agripro 70 Bragg Braxton Coker 237 Ransom	Cobb Coker 338 Coker 488 Hutton

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#### INTRODUCTION

To properly evaluate a soybean variety it is necessary that it be grown at a number of locations, at various planting dates, and over a period of years. This will subject the variety to differences in soil and climatic conditions that occur throughout the State. The most common limiting factor in soybean production is inadequate moisture during pod development and filling. Since soybeans are highly photo periodic, the blooming period, period of pod development and fill, and maturity date of a particular variety do not vary greatly from year to year for a given planting date. Thus, it is important that varieties from more than one maturity group be evaluated at each location. Continued testing and evaluation of soybean varieties and experimental strains by agricultural experiment stations are essential if farmers, county extension agents, seedsmen, and other agricultural workers are to be provided with information to help them select varieties best adapted to their locality and management needs.

#### EXPERIMENTAL PROCEDURES

Tests in southern Alabama were conducted at four substations or experiment fields of the Alabama Agricultural Experiment Station of Auburn University and one location on a nematode infested field (Gottler Farm, Elberta, Alabama). A randomized block design with 3 or 4 replications was used at each location with the first planting made at the optimum time for maximum yield. Plots were planted with regular commercial soybean planters equipped with special seed hoppers adapted for small plots. Plots were four rows wide and 23 feet long with 16 feet of the two inner rows harvested for yield determinations. Harvest was done with a small plot combine at all locations. Row width varied from 36 to 40 inches depending on location. Seeding rates were 10 viable seed per foot of row based on germination at 75°F. All plot areas were fertilized according to soil test.

The entries in these tests included varieties released prior to 1980, a number of unreleased lines in the late stages of development from the USDA Regional Testing Program, and some commercial lines. Sources of seed are listed on pages 11 through 13. Varietal description and disease resistance factors are shown in table 2.

The tests in southern Alabama were on Benndale sandy loam near Brewton, Malbis fine sandy loam near Fairhope, Lucedale sandy loam near Monroeville, and Dothan sandy loam near Headland. Soybeans of Maturity Group VIII are full season varieties in the southern Alabama locations. Soybean varieties in Maturity Group VII are also considered well adapted for southern Alabama. Varieties from maturity groups V and VI are considered very early and early maturing, respectively, and usually do not yield as well as the later maturing cultivars.

The test near Headland had supplemental irrigation applied to half of the six-replication test. This irrigation was applied with a traveling gun at a rate of 1.5 inches on each of the following dates: July 10 and 15 and September 11 and 25.

### DISCUSSION OF DATA

Since results of field plot research are influenced by inherent soil differences and soil moisture availability, it is not possible to determine exactly the yield potential of a variety at a given location. Varietal performance may also vary from year to year because of variation in rainfall, temperature, disease, and nematodes. Therefore, long term yield averages are more reliable in evaluating varietal performance.

Differences in yield for 1981 have been computed using Duncan's Multiple Range Test at the 5% level of probability. Yields followed by the same letter are not considered to be significantly different. Coefficients of variation (C.V.) are footnoted in the tables.

### Seasonal Conditions

Early season moisture was good in southern Alabama in 1981 and adequate stands were obtained at all plantings. There was some moisture stress in June in southern Alabama, table 1. Adequate plant height was obtained by all cultivars except the very early Group IV entries in the Wiregrass area. Rainfall amount and distribution was adequate at all locations during July and August except a slight stress period in July at Headland where 3 inches of water was supplied to the irrigated area. All locations experienced a drought from September 8 through October 24 during the period that most entries were harvested. During September 3 more inches of water was applied to the irrigated test at Headland.

#### Brewton (tables 3-11)

The highest yielding soybean cultivars have been those of Group VII and Group VIII over the past 4 to 5 years with average yields of approximately 42 bu./a. for 10 entries planted May 30 at Brewton Field. The lack of rainfall after September 16 through October 9 in 1981 resulted in the yields of Group VIII entries being lower yielding than some of the earlier entries in Group VI. More than 50 bu./a. were obtained from 12 cultivars at this location in 1981. Group VIII cultivars were the highest yielding in 1981 at Brewton when planted June 25, but top yields were approximately 10 bu./a. less than at the May 25 planting date.

#### Monroeville (tables 17-21)

The soybean yield pattern at Monroeville was similar to that at Brewton in that the highest average yields for maturity groups were those of the Group VII entries, however, the yield was generally lower than Brewton. The top seven cultivars yielded more than 40 bu./a. with Agripro 70 yielding 47.9 bu./a. The lack of rainfall at Monroeville after September 16 limited the yield of Maturity Group VIII entries more than the earlier entries.

Five-year average yields indicate that the Group VII entries Bragg and Ransom and Group VIII Entries Coker 338, Cobb, and Hutton all yield approximately 39 bu./a. but the Group VI entries Centennial, Coker 156, Davis, Tracy, and Lee 74 over the same period averaged 3 bu./a. less.

# Fairhope (tables 12-16)

Three of the four highest soybean yields at Fairhope in 1981 were from very early Group V cultivars Deltapine 105, Bedford, and Forrest. These entries had excellent soil moisture up to 10 days before maturity. However, there was little soil moisture or rainfall after September 7 through October 24 (1.1 inches of rainfall in 48 days). Therefore, the average yields at Fairhope in 1981 were 38.1, 34.5, 36.4, and 30.1 bu./a. for the Group V, Group VI, Group VII, and Group VIII entries, respectively. When the 5-year average at Fairhope is used which included the 1979 hurricane damaged soybeans the average yields of 34.5, 37.5, 39.1, and 35.6 bu./a. were obtained by maturity groups V, VI, VII, and VIII, respectively.

#### Headland (tables 22-26)

The moisture at Headland was much less for June and early July than the other southern locations and 3 inches of water was applied in two irrigations to half of the soybean variety test. From July 20 to September 8, 10.4 inches of rainfall fell. Water was again applied on September 10 followed by 2.2 inches of rainfall on September 14 to 16 and a final irrigation of 1.5 inches of water on September 25.

Plant height was increased only slightly (1.4 inches) by the July irrigation for the Group VIII maturity group and no change in plant height was measured for the Group VI or Group VII cultivars. There were ten entries that yielded approximately 50 bu./a. or more without supplemental irrigation at Headland in 1981 and eight of these cultivars were Group VII entries. The increased response to irrigation by the Group VII cultivars was 0.5 bu./a. from 49.4 bu./a. without irrigation. There were sixteen entries that produced 50 bu./a. or more with supplemental irrigation in 1981 and 8 of these entries were Group VIII cultivars. The Group VIII entries had an average yield of 52.1 bu./a. with irrigation and the average response to irrigation was 4.5 bu./a. in 1981. The Group VI entries responded similarly to the Group VII Entries as there was only an increase of 0.6 bu./a. due to irrigation over the 44.3 bu./a. average for non-irrigated cultivars. The greatest increase in yield due to irrigation was 7.9 bu./a. which was from the Group V entries, however, they had the lowest average non-irrigated yield of 30.2 bu./a. as a group. The 2-year average irrigated yield at Headland shows that the seven Group VIII cultivars tested are averaging 50 bu./a. These were 3, 5, and 15 bu./a. greater than the average yield of the Group VII, Group VI, and Group V cultivars, respectively, that were grown during the 2 years 1980 and 1981.

#### Effect of Planting Date on Yield

The highest yielding cultivars at the Brewton field over the past 5 years 1977 through 1981 were the Group VIII entries with 41.8 bu./a. when planted May 30. This group of cultivars also had the lowest reduction in yield of approximately 14% when planting was delayed by 1 month to June 26. This compares to a 21% and 26% reduction in yield from 38.5 and 41.7 bu./a. for cultivars from Maturity Groups VI and VII, respectively, when planting was delayed from May 30 to June 26 during the 5-year period.

#### Seed Quality and Purple Stain (table 30)

Seed quality and purple stain rating are shown in table 30. Poor seed quality was only found in 1981 on the very early entries in south Alabama. The extended dry period in late September and October resulted in most soybean seed being of good quality.

### Seed Size (table 31)

Seed size (g/100 seed) is usually affected by two factors genetic and soil moisture availability during the late stages of pod fill, table 31. The seed size was much larger at Brewton than Monroeville or Fairhope. This was also reflected in the yield as the soil moisture was greater at Brewton late in the season than at either Monroeville or Fairhope.

#### USDA Regional Tests (tables 27-29)

Regional uniform tests were conducted at Fairhope in maturity groups VI, VII, and VIII. These tests are shown in tables 27, 28, and 29. Centennial and Tracy M are the standard varieties in Uniform VI. Braxton and Wright are the standard varieties in Uniform VII. Hutton and Cobb are the standard varieties in Uniform VIII tests. In the Uniform VI test there were five entries (N75-2213, N77-114, R74-39K, D78-5502, and D77-6057) that gave better yields than the standard variety, Centennial.

There were not any new lines that yielded better than the standard entries in either of the Group VII or VIII tests. The lower yields in the Group VII and VIII tests were due to the severe drought with only 1.1 inches of rainfall at Fairhope from September 7 through October 24.

#### Soybean Yields on Nematode Infested Field (tables 32 and 33)

In 1981 two tests were conducted on the Gottler Farm near Elberta to evaluate the effect of root-knot nematodes on growth and yield of 14 cultivars and 12 breeding lines of soybeans. The root-knot nematode found in the field site was identified as a species of <u>Meloidogyrz</u> <u>Incognita</u>. Test one in table 32 was made up of breeding lines from Dr. Hinson, USDA Plant Breeder from Florida, and Dr. Hartwig, USDA Plant Breeder from the Delta Branch Substation at Stoneville, Mississippi.

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This test was replicated three times. The lines F77-1790 and F77-2000 yielded better than the two standard varieties Braxton and Govan and F77-1990, F77-1840, F77-1797 had a lower root-knot gall rating than the standard varieties.

In the second test, table 33, the two early cultivars Forrest and Bedford, Wright, Govan, and Coker line 80-846 were the highest yielding in the four replication tests. The root-knot rating on the second test was not as low as the lines in test one. The breeding lines in table 32 are also resistant to the cyst nematode Heterodera glycine, race 3.

Table 1. Rainfall by Location During the Period August 15 through September 30 for 1977 through 1981

LOCATION	19/7	1978	1979	1980 /	1981
	In.	In.	In.	In.	In.
Brewton Experiment Field					
(Brewton)	8.97	3.18	9.94	7.04	8.19
Gulf Coast Substation					
(Fairhope)	9.96	6.49	14.42	6.44	4.93
Monroeville Experiment Field				0111	11.50
(Monroeville)	6.32	3.75	7.52		6 95
Wiregrass Substation					0.00
(Headland)	9.59	4.34	8.97	3 37	5.76*
(noda rana )	5.05		0.07	0.07	

\*Water was applied to irrigated test July 10 and 15 and September 11 and 25 at the rate of 1.5 inches per irrigation.

#### DATA RECORDED

The yield of a crop is the primary factor of production when profits are to be maximized. Other characteristics which are important are plant height, height of lowest pod, maturity, lodging, and size and quality of seed.

Yield of soybeans was determined by harvesting the two center rows of each plot with a small plot combine. Plot yields were adjusted to 13% moisture and converted to bushels (60 pounds) per acre.

<u>First bloom</u> was taken as the date when there was one flower at any node on 10% of the plants.

<u>Maturity</u> was rated as the date when the pods were dry and most of the leaves had dropped. Under most conditions, the stems were also dry. Harvest date was approximately 7-10 days later than maturity date.

Lodging was based on a scale of 1 to 5 according to the following criteria, see page 8 for illustrations:

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

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Shattering ratings were based on shattering of the border rows 14 days after maturity. The visual estimates were rated on a scale of 1 to 5 as follows:

no shattering.
 1 to 3% shattering.
 4 to 8% shattering.
 9 to 19% shattering.
 20% or more shattering.

<u>Plant height</u> was determined as the average length of plants from the ground to the top extremity at time of maturity.

<u>Height of first pod</u> was determined as the average height of the lowest pods from the ground at maturity.

<u>Seed size</u> for each variety was determined from a composite sample of all replications at a given planting date and location. Seed size is reported as g per 100 seeds. Small, medium, and large seed size will be 8-12, 13-16, and 17-20 g/100 seed, respectively, and will have approximately 5,700 to 3,800, 3,500 to 2,800, and 2,700 to 2,300 seeds per pound, respectively.

Seed quality was based on a rating from 1 to 5 according to the following scale: (1) very good, (2) good, (3) fair, (4) poor, and (5) very poor. The factors considered were development of seed, wrinkling due to late harvesting, and to excess rain.

<u>Purple stain</u> ratings were given to seed samples on a scale of 1 to 5 as follows:

no purple staining.
 1 to 3% purple staining.
 4 to 8% purple staining.
 9 to 19% purple staining.
 5 - 20% or more staining.



Lodging was based on a scale of 1 to 5 according to the following criteria and illustrated by figures 1 through 5 respectively.

1 - almost all plants erect.

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- 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% of the plants down.
- 4 either all plants leaning considerably (more than 45°) or 50 to 80% of the plants down.
- 5 all plants down.



LODGING RATING

			<u>Plan</u>	t charac	teris	tics	Reactio	<u>n to i</u>	ndivio	dual dise	eases <sup>1</sup>	Nematode	resist	tance <sup>1</sup>
			Dubes-	Flower	Pod	Hilum	Bacteria	Wild-	aet	phthora	seed	Cyst	Root-k	not
Gr	roup	Variety	cence	color	color	color	pustule	fire	spot	rot	stain	(Race 3)	M.i.ºI	M.a. <sup>o</sup>
•	•								ć	· _ ·				
	V	Bedford	Tawny	White	Tan	Black	R	R	R ·	R	R	3/	MR	R
		Bay	Gray	Purple	Tan	Gray	R	$\frac{4}{2}$	$\frac{4}{2}$	S	$\frac{4}{2}$	S	2	2
		Essex	Gray	Purple	Tan	Buff	R	ĸ	ĸ	MR	R	5	MK	2
		Forrest	Tawny	White	Tan	Black	R	R	ĸ	MR	MR	R	R	ĸ
	VT .	lee 74	Tawny	Purple	Tan	Black	R	R	R	MR	R	S	R	MR
	••	$\frac{2}{1}$ $\frac{2}{5}$	Tawny	White	Tan	Black	R	R	R	R	MR	- <b>S</b>	S	S
		Tracy M 5/	Tawny	White	Tan	Black	R	R	R	R	MR	S	S	S
		Centennial	Tawny	Purple	Tan	<b>Black</b>	R	R	R	R	MR -	R	R	S
		Davis	Grav	White	It.Tan	Buff	R	R	R	R	MR	S	S	S
		RA 604	Tawny	Purple	Tan	Black	4/	R	Ŕ	R	MR	R	MR	S
		RA 680	Tawny	Purple	Tan	Black	R	R	R	R	MR	R	MR	VS
		Deltapine 506	Tawny	Purnle	Brown	Black	4/	4/	4/	٧R	R	S	S	S
	•	Terra-Vig 606	runny	White	Grav	Buff	$\frac{1}{R}$	R	R	R	R	S	S ·	S
		Coker 156 $\frac{2}{2}$	Gray	White	Tan	Buff	R	R	4/	R	R	S S	MR	4/
	/TT	Braga	Tawny	White	Tan	Black	- R	R	R	Ŕ	S	S	R	R
	4 I I .	Braxton	Tawny	Durnle	Tan	Black	R	R	R	R	S ·	S	R	R
•		$GA_Sov 17$	Chave	White	Tan	Buff	R	R	R	R	MR	S	S	S
		Wright	Tawny	Durnla	Tan	Black	R	R	•••	R	4/	S	MR	MR
	÷	Dansom	Tawny	Durnla	Tan	Black	R	R	R	MS	R	S -	S	S
			Tawny	White	Tan	Black	R	R	R	R	MR	R	MR	MR
		Terra-Via 708	Tawiy	White	Brown	Brown	R ·	R	R	R	R	S	S .	S
		H76.672.3A	I a II Browin	Durnla	DIOWI	Black	R	4/	4/	, S	4/	4/	S	S .
		Brooks		White	Brown	Brown	R	<u>4</u>	ΞŻ,	4/	4/	$\overline{S}$	MS	S
		Agripro 70	Tan	White	Black	DIUMI	R	R	4,	S		S	MR	<u>4</u> /
		Agripro 70	ran Gnav	White	DIACK	Ruff	R	R	$\frac{1}{4}$	R	· •	S	MR	4/
		Cakon 237	Tawny	White	Tan	Black	R	R	$\dot{\vec{4}}$	MR	4/	S	S	S
		McNair 770	Grav	Purple	Brown	Imp.Bl.	4/	4/	<del>4</del> /	S	<u>4</u> /	R	4/	<u>4</u> /

			•	•			· · · ·
Table 2. Physical	Descriptions and	Disease	Resistance	of Some	Soybean	Varieties	Tested in 1981

Continued on page 10.

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Table 2. Continued from page 9

		Plan	t chara	cteris	tics	Reacti	on to	indivi	idual di:	seases <sup>1</sup>	Nematode	resistance <sup>1</sup>
Group	Variety	Pubes- cence	Flower color	Pod color	Hilum color	Bacteria pustule	Wild- fire	Tar- get spot	Phyto- phthora rot	Purple seed stain	Cyst (Race 3)	Root-knot M.i. <sup>6</sup> M.a. <sup>6</sup>
	Coker 317 Govan	Gray Gray	Purple White	Tan Tan	Imp.Bl. Black	R R	R R	$\frac{4}{R}$	$\frac{4}{R}$	$\frac{4}{S}$	R S	S <u>4</u> / R R
VIII	Cobb Dowling Hutton Coker 338 Coker 488 RA 800 Agripro 80 Foster	Gray Gray Brown Gray Tawny Tawny Gray Gray	Purple White Purple White Purple White White Purple	Tan Tan Tan Brown Tan Tan Tan	Buff Buff Black Brown Brown Black Buff Buff	R R R R R R R R R	R R R R <u>4</u> / 4/	R R 4/ 4/ R 4/ R	S R S S R <u>4/</u> 4/	S R S <u>4</u> / <u>4</u> / MR <u>4</u> / <u>4</u> /	S S S S R S R R	R S S S R S S S MR MR MR S MR <u>4</u> / R S

 $^{1}$ VR - very resistant; R - resistant; MR - moderately resistant; S - susceptible; VS - very susceptible. These are ratings given these varieties by the breeders

 $^{2}$ Sensitive to herbicide metribuzin (Sencor and Lexon).

 $^{3}$ Resistant to Race 4 cyst nematode.

<sup>4</sup>Data not available.

 $^{5}$ Tracy and Tracy M have good tolerance to herbicide 2, 4-DB.

<sup>6</sup><u>Meloidogyne incognita</u> (M.i.); <u>Meloidogyne arenaria</u> (M.a.).

### SEED SOURCE FOR 1981

Soybean varieties grown in South Alabama tests are in Maturity Groups IV, V, VI, VII, and VIII. The following is a list of the varieties and lines with source of seed for 1981 listed by maturity groups. For more information on these varieties see

### Maturity Group IV Varieties

BD 483 Big D Seed Co., Catlin, IL

# Maturity Group V Varieties

Bay	USDA Delta Branch Exp. Sta., Stoneville, MS
Bedford	USDA Delta Center, Portageville, MO
BD 501	Big D Seed Co., Catlin, IL
Deltapine 105	Delta and Pine Land Co., Scott, MS
Essex	Alabama Crop Improvement Assoc., Auburn, AL
Forrest	Alabama Crop Improvement Assoc., Auburn, AL
Maturity Group VI	Varieties
Centennial	Alabama Crop Improvement Assoc., Auburn, AL
Coker 156	Coker's Pedigreed Seed Co., Hartsville, SC
Davis	Alabama Crop Improvement Assoc., Auburn, AL
Deltapine 416	Delta and Pine Land Co., Scott, MS
Deltapine 506	Delta and Pine Land Co., Scott, MS
Lee 74	Alabama Crop Improvement Assoc., Auburn, AL
Terra-Vig 606	Terra-Norris Seed Co. Inc., Lake Providence, LA
Tracy	Alabama Crop Improvement Assoc., Auburn, AL
Tracy M	USDA Delta Branch Exp. Sta., Stoneville, MS
Maturity Group VI	I Varieties
Agripro 70	North American Plant Breeders, W. Memphis, AR
Agripro 71	North American Plant Breeders, W. Memphis, AR
Bragg	Alabama CropImprovement Assoc., Auburn, AL

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	Maturity Group VI	I Varieties (continued)
	Braxton	USDA Delta Branch Exp. Sta., Stoneville, MS
· .	Brooks	Gold Kist Inc., Ashburn, GA
	Coker 237	Coker's Pedigreed Seed Co., Hartsville, SC
	Coker 317	Coker's Pedigreed Seed Co., Hartsville, SC
•	Coker 79-499	Coker's Pedigreed Seed Co., Hartsville, SC
	Coker 79-501	Coker's Pedigreed Seed Co., Hartsville, SC
	Coker 80-808	Coker's Pedigreed Seed Co., Hartsville, SC
	Coker 80-846	Coker's Pedigreed Seed Co., Hartsville, SC
۰ ۰ ۲۰۰۰	Deltapine 497	Delta and Pine Land Co., Scott, MS
	GA-Soy 17	Coastal Plains Exp. Sta., Tifton, GA
	Govan	USDA Delta Branch Exp. Sta., Stoneville, MS
	H76-672-3A	Jacob Hartz Seed Co., Stutgart, AR
	HB-507D1-7	Helena Chemical Co., Selma, AL
	McNair 770	Northrup King Co., Bolivar, TN
•	RA 701	Ring Around Research, Plainview, TX
•	Ransom	Alabama Crop Improvement Assoc., Auburn, AL
	Terra-Vig 708	Terral-Norris Seed Co. Inc., Lake Providence, LA
•	Wright	Coastal Plains Exp. Sta., Tifton, GA
· ·	Maturity Group VI	II Varieties
	Agripro 80	North American Plant Breeders, W. Memphis, AR
	Сорр	Alabama Crop Improvement Assoc., Auburn, AL
· .	Coker 338	Coker's Pedigreed Seed Co., Hartsville, SC
	Coker 488	Coker's Pedigreed Seed Co., Hartsville, SC
	Dowling	Texas A&M University, College Station, TX
·.	Duocrop	Coastal Plains Exp. Sta., Tifton, GA
	Foster	Florida Agriculture Exp. Sta., Gainesville, FL

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# Maturity Group VIII Varieties (continued)

Hutton	Alabama Crop Improvement Assoc., Auburn, AL
Matija 1	Joe Matija, Baldwin County, AL
RA 800	Ring Around Research, Plainview, TX

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating	Rating
							•
Wright	56.0 a	07/17	10/05	38	4.0	3.3	1.0
Coker 237	55.3 a-b	07/17	10/05	33	3.3	1.5	1.0
Coker 156	54.5 a-c	07/11	10/02	30	3.0	1.0	1.0
Deltapine 105	54.0 a-d	07/04	09/19	29	2.5	1.3	1.0
RA 701	53.8 a-d	07/18	10/06	37	4.3	2.3	1.0
GA-Soy 17	52.9 a-d	07/20	10/06	37	4.0	2.3	1.0
Ransom	52.7 a-d	07/15	10/05	32	4.5	1.3	1.0
Bragg	51.4 a-e	07/17	10/03	38	3.5	2.3	1.0
Foster	51.0 a-f	07/18	10/05	35	4.0	2.5	1.0
Davis	50.9 a-f	07/15	09/27	33	2.0	1.0	1.0
Terra-Vig 708	50.2 a-f	07/19	10/03	34	2.3	1.3	1.0
Braxton	50.2 a-f	07/19	10/05	38	2.8	1.8	1.0
RA 800	50.1 a-f	07/18	10/04	39	2.8	2.0	1.0
Cobb	49.5 a-f	07/20	10/13	44	3.5	1.8	1.0
Deltapine 416	49.4 a-f	07/10	10/06	41	3.8	2.5	1.0
Hutton	48.7 a-g	07/19	10/08	- 39	3.0	2.0	1.0
Centennial	48.5 b-g	07/11	10/01	35	2.0	1.5	1.0
Dowling	48.5 b-g	07/21	10/12	39	2.0	1.5	1.0
Agripro 71	48.1 b-h	07/17	10/02	35	3.3	2.5	1.0
Agripro 70	47.8 c-h	07/19	10/04	40	3.0	2.3	1.0
		•					

Table 3. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodgi<sup>•</sup>g and Shattering of Soybean Varieties Planted May 25, 1981, on Brewton Experiment Field, Brewton

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Table 3. Continued

'a. Date d-i 07/17	Date	In.	In.	Rating	Rating
d-i 07/17			•		naerng
	10/01	36	3.0	2.5	1.0
d-i 07/21	10/06	41	3.0	2.0	1.0
d-i 07/15	10/02	34	2.0	1.0	1.0
e-i 07/20	10/06	37	4.0	2.3	1.0
e-i 07/04	09/16	27	2.8	1.0	1.0
e-i 07/11	10/03	26	3.0	1.0	1.0
f-j 07/09	10/03	36	2.0	1.0	1.0
f-j 07/10	10/05	40	2.3	1.5	1.5
q-j 07/20	10/05	35	3.5	2.3	1.0
q-j 07/19	10/04	40	6.3	2.5	1.0
ň-k 07/22	10/08	39	4.0	3.8	1.0
i-k 07/04	09/16	32	2.5	1.5	1.0
j-k 07/04	09/12	23	3.3	1.0	1.0
k 07/04	09/09	19	3.0	1.0	1.3
1 06/30	08/27	31	3.5	1.0	1.5
1 06/25	08/26	30	3.5	1.0	1.0
					$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

<sup>1</sup>Yields adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05).

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

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Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. fir	st pod <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	Date	In.	Įn		Rating	Rating
GA-Sov 17	45 3	07/25	10/09	38	5		1.6	1.0
Wright	44 0	07/23	10/09	37	5		2.3	1.0
Coker 156	43 9	07/18	10/04	29	3.0	5	1.0	1.3
Hutton	43 6	07/25	10/12	37	4		1.8	1.0
Braxton	43 3	07/24	10/09	37	4 (	)	1.4	1.0
Deltanine 105	43 3	07/13	09/15	27	2.1	5	1 4	1 1
RA 800	43.3	07/24	10/10	37	3.9	3	1.6	1.0
Cobb	43 0	07/27	10/16	42	4	3	1.4	1.0
Coker 488	42.8	07/27	10/11	40	4		1 5	1 0
Coker 237	42.6	07/23	10/08	32	4		1 4	1 0
Dowling	42.0	07/27	10/15	38	3 4		1 3	1 0
Dancom	42.5 A2 A	07/22	10/10	30	4	5	1 1	1.0
Rusaa	11 0	07/22	10/05	37		2	1.6	1.0
Town Via 709	41.5	07/23	10/05	3/			1 1	1.0
Celen 229	41.1	07/24	10/00	34	J.,	2 ·	1.1	1.0
Loker 330	40.5	07/20	10/12	37	4.0	) )	1.0	1.0
Agripro /U	40.4	07/24	10/10	40	J.	, .	1.0	1.0
Centennial	40.1	07/19	10/04	33	3.4	ł	1.3	1.0
Agripro 80	39.7	07/28	10/12	40	5.4	ŀ	2.8	1.0
Davis	39.5	07/21	09/22	32	2.9	)	1.0	1.5

Table 4. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging and Shattering of Soybean Varieties Planted May 29, 1980-1981, on Brewton Experiment Field, Brewton

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Table 4. Continued

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Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
•	Bu./a.	Date	Date	In.	In.	Rating	Rating
Agripro 71	39.0	07/23	10/06	34	4.5	1.8	1.0
Brooks	38.4	07/25	10/09	41	6.0	1.8	1.0
Lee 74	37.3	07/19	10/06	26	3.6	1.0	1.0
Forrest	37.1	07/10	09/14	26	2.6	1.1	1.0
Coker 317	36.3	07/26	10/08	33	4.1	1.6	1.0
Tracy	35.7	07/16	10/06	36	3.4	1.5	2.0
Tracy M	35.3	07/16	10/04	31	3.1	1.0	1.9
Bav	33.1	07/10	09/12	24	2.8	1.0	1.5
Bedford	32.9	07/13	09/14	29	2.9	1.3	1.8
Essex	31.6	07/10	09/11	19	2.9	1.0	2.3
Big-D 483	18.4	06/29	08/30	27	3.1	1.0	3.1

 $^1\ensuremath{\mathsf{Yields}}$  adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

Table 5. Three-Year Averages for Yield, First Bloom and Maturity Dates. Plant and First Pod Heights, Lodging and Shattering of Soybean Varieties Planted May 29, 1979–1981, on Brewton Experiment Field, Brewton

	Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup> Plant $ht$ , <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	· ·	Bu./a.	Date	Date In.	In.	Rating	Rating
<b>C</b> -	kan 927	15 2	07/24	10/00 21	13	15	1 0
- UU	Ker 23/	45.5	07/24	10/10 26	7.J A O	1.5	1.0
Wr	ignt	45.0	07/24	10/10 30	4.0	2.4	1.0
Br	axton	44.1	07/24	10/10 35	4.3	1.5	1.0
Br	'ngç	43.0	07/24	10/10 3/	4.1	1.8	1.3
Hu	tton	42.8	07/26	10/15 37	4.4	2.4	1.0
GA	-Soy 17	42,8	07/26	10/09 37	4.7	1.9	1.0
Do	wling	42.4	07/29	10/19 38	3.8	2.1	1.0
CO	ker 156	42.0	07/19	10/05 30	4.4	1.3	1.2
Co	ker 488	41.6	07/29	10/13 40	4.5	1.8	1.0
Co	hh	41.1	07/29	10/19 42	4.2	1.9	1.0
Δ.	ripro 70	40.5	07/25	10/10 40	4 0	18	1 0
Ra	nsom	39.8	07/23	10/10 30	4.4	1.5	1.3
Ce	ntennial	39.3	07/20	10/05 34	4.9	1.5	1.3
Co	ker 317	38.1	07/27	10/10 33	4.7	1.7	1.0
Da	vis	37.3	07/21	09/26 33	3.8	1.3	1.7
Te	rra-Vig 708	37.3	07/26	10/09 32	3.6	1.3	1.0
10	~ 7/	37 2	07/19	10/07 26	3 5	1 6	1 0
Со Со	Lon 220	37 2	07/26	10/15 37	Δ 7	2 0	1 0
	Ker JJO	36.3	07/18	10/05 34	4.0	1 0	2.0
	acy	20.3	07/10		4.0	1.0	2.0
- 10	rrest	35.0	07/12		3.2	1.3	1./
Be	edford	32.1	07/14	09/1/ 29	3.8	1.0	2.2

 $^1 {\tt Yields}$  adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

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Table 6. Four-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging and Shattering of Soybean Varieties Planted May 30, 1978–1981, on Brewton Experiment Field, Brewton

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating	Rating
Coker 237	41.5	07/24	10/09	28	3.6	1.4	1.0
Braxton	41.4	07/25	10/11	34	3.8	1.5	1.0
Dowling	41.0	07/29	10/20	38	3.6	1.9	1.0
Coker 488	39.9	07/29	10/14	37	4.0	1.6	1.0
Hutton	39.6	07/27	10/16	35	4.1	2.1	1.0
Coker 156	39.3	07/20	10/04	27	3.9	1.3	1.2
GA-Sov 17	39.2	07/27	10/10	34	4.3	1.7	1.0
Cobb	39.0	07/30	10/21	40	3.9	1.7	1.0
Bragg	39.0	07/24	10/10	35	3.8	1.8	1.3
Agripro 70	37.7	07/26	10/11	37	3.6	1.6	1.0
Ransom	37.0	07/24	10/10	28	4.1	1.4	1.3
Coker 338	36.1	07/28	10/16	35	4.3	1.8	1.0
Centennial	36.1	07/21	10/05	31	4.3	1.4	1.3
Davis	35.3	07/22	09/29	30	3.4	1.3	1.7
Terra-Vig 708	35.0	07/26	10/09	30	3.3	1.2	1.0
Tracy	34.0	07/18	10/05	32	3.6	1.6	2.0
lee 74	34.0	07/21	10/06	24	3.1	1.4	1.0
Forrest	33.3	07/13	09/17	25	2.9	1.3	1.7

 $^{1}$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

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Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating	Rating
Cakon 227	AC 7	07/04	10/10	90	2 /	1 1	10
Loker 237	45./	07724	10/10	29	3.4	1.1	1.0
Hutton	43.0	07/27	10/16	34	3.9	1.7	1.0
Cobb	42.8	07/30	10/22	39	3.7	1.4	1.0
GA-Scy 17	42.7	07/27	10/10	34	4.1	1.3	1.0
Coker 488	42.5	07/29	10/15	37	3.6	1.3	1.0
Coker 156	42.3	07/20	10/05	28	3.6	1.0	1.2
Bragg	41.8	07/24	10/11	35	3.5	1.4	1.3
Agripro 70	41.3	07/26	10/12	37	3.5	1.3	1.0
Ransom	40.0	07/24	10/12	29	3.8	1.1	1.3
Coker 338	39.0	07/27	10/17	35	3.9	1.5	1.0
Terra-Vig 708	38.7	07/25	10/10	30	3.0	0.9	1.0
Davis	38.5	07/21	10/01	31	3.5	1.0	1.7
Centennial	38.5	07/20	10/05	32	4.1	1.1	1.3
Tracy	36.7	07/18	10/05	32	3.5	1.3	2.0
Lee 74	36.4	07/20	10/07	24	3.0	1.1	1.0
Forrest	35.0	07/12	09/17	25	3.0	1.0	1.7
		, <b>t</b> .	•				

Table 7. Five-Year Averages of Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging and Shattering of Soybean Varieties Planted May 30, 1977-1981, on Brewton Experiment Field, Brewton

 $^{1}$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^2$ An explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating
Aguinua 90	44.0	00/14	10/12	01		1 0
Agripro ou	44.U a	08/14	10/13	31	3.3	1.0
	43.8 a-D	08/15	10/18	34	4.0	1.0
GA-Soy 1/	40.6 a-c	08/11	10/06	31	4.0	1.5
Dowling	40.0 a-c	08/14	10/18	31	3.5	1.0
Coker 488	39.8 a-c	08/12	10/10	33	4.0	1.0
Bragg	38.0 a-d	08/11	10/05	30	4.0	2.3
Coker 338	38.0 a-d	08/11	10/12	31	3.8	1.0
Terra-Vig 708	37.7 a-d	08/07	10/05	29	5.0	1.8
Coker 237	37.2 a-d	08/09	10/04	25	3.5	1.5
Braxton	37.1 a-d	08/10	10/06	28	4.5	1.5
Davis	36.3 a-d	08/10	09/30	27	3.3	2.0
Ransom	36.2 a-d	08/08	10/10	23	3.3	1.8
Wright	35.9 b-e	08/08	10/05	29	4.0	2.5
Centennial	34.6 c-f	08/10	10/03	23	3.3	1.3
Deltapine 105	34.4 c-f	08/05	09/21	24	3.8	1.5
Hutton	31.7 d-f	08/13	10/10	28	4.0	1.0
Tracy M	28.5 e-f	08/05	09/27	23	2.5	1.8
Forrest	28.2 f	08/02	09/20	21	2.8	1.5
Coker 156	27.6 f	08/06	09/29	20	2.5	1.3
C.V.% = 13.1%	L.S.D. <sub>05</sub> =	6.8	****		aya karanga ang ang ang ang karang karang sa karang karang karang karang karang karang karang karang karang kar	

Table 8. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging and Shattering<sup>3</sup> of Soybean Varieties Planted June 25, 1981, on Brewton Experiment Field, Brewton

<sup>1</sup>Yields adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05).

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

<sup>3</sup>No shattering observed on any cultivars.

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Table 9. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging and Shattering of Soybean Varieties Planted June 25, 1979–1981, on Brewton Experiment Field, Brewton Brewton

Variety	Yield <sup>1</sup> First	t bloom <sup>2</sup> l	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first poo	$d^2$ Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a. D	ate	Date	In.	In.	Rating	Rating
Cabb	20.7	110	10/00	00	2.4	1 0	1 0
	39.7 08	3/10	10/20	29	3,4	1.0	1.0
Loker 488	31./ 08	3/14	10/14	26	3.0	1.0	1.0
Dowling	31.7 08	3/15	10/20	23	2.6	1.0	1.0
Centonnial	30.3 08	3/10	10/06	21	2.6	1.2	1.0
Terra-Vig 708	30.1 08	3/09	10/07	23	3.4	1.4	1.0
Davis	29.5 08	8/11	10/05	23	2.6	1.6	1.0
Coker 237	29.3 08	3/09	10/08	20	2.9	1.3	1.0
Braxton	29.3 08	3/12	10/11	21	3.3	1.3	1.0
GA-Soy 17	28.7 08	3/12	10/08	22	3.0	1.3	1.0
Hutton	28.2 08	3/14	10/15	22	3.0	1.0	1.5
Ransom	28.1 08	8/10	10/12	20	2.8	1.4	1.0
Bragg	27.7 08	8/11	10/09	23	3.3	1.7	1.0
Coker 338	27.2 08	3/13	10/15	24	3.1	1.0	1.0
Forrest	21.4 08	3/06	09/28	17	2.4	1.3	1.5
Coker 156	18.8 08	8/08	10/04	. 16	2.3	1.1	1.0

 $^1\ensuremath{\text{Yields}}$  adjusted to 13% moisture and 60 pounds per bushel.

 $^2$ An explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating	Rating
Cobb	36 5	08/18	10/23	27	33	1 3	1 4
Dowling	34.8	08/16	10/23	24	2.5	1.1	1.4
Coker 488	32.6	08/16	10/17	25	3.1	1.0	1.0
Coker 237	30.0	08/11	10/12	19	2.6	1.2	1.1
Braxton	29.8	08/14	10/15	22	3.1	1.3	1.0
GA-Soy 17	29.4	08/14	10/13	22	2.9	1.2	1.0
Terra-Vig 708	29.4	08/11	10/12	22	3.1	1.3	1.3
Davis	29.2	08/14	10/11	22	2.4	1.4	1.5
Bragg	29.2	08/13	10/13	24	3.2	1.6	1.0
Hutton	28.9	08/15	10/18	22	3.2	1.0	1.3
Coker 338	28.9	08/15	10/19	24	3.0	1.3	1.2
Centennial	28.4	08/12	10/10	20	2.4	1.1	1.0
Ransom	27.0	08/13	10/15	20	2.7	1.3	1.3
Coker 156	21.8	08/10	10/09	16	2.1	1.1	1.0
Forrest	21.1	08/08	10/04	17	2.3	1.2	1.5

Table 10. Three-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging and Shattering of Soybean Varieties Planted June 26, 1978, 1979, and 1981, on Brewton Experiment Field, Brewton

 $^1\ensuremath{\mathsf{Yields}}$  adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}\mathrm{An}$  explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	bu./a.	Date	Dale	111.	10.	Kating	Kating
	Four-	Year Averages,	Early Plantin	g Date June 2	6, 1977-1979 and	1981	
Cobb	40.1	08/17	10/26	28	3.3	0.9	1.4
Coker 488	36.1	08/14	10/19	27	2.8	0.8	1.0
Hutton	33.8	08/13	10/18	24	3.0	0.8	1.3
GA-Sov 17	33.7	08/12	10/13	23	2.8	0.9	1.0
Davis	33.6	08/13	10/12	24	2.3	1.0	1.5
Coker 338	33.6	08/14	10/21	25	2.8	1.0	1.2
Bragg	33.1	08/12	10/14	25	2.9	1.2	1.0
Ransom	31.5	08/11	10/16	22	2.6	1.0	1.3
Centennial	31.2	08/10	10/09	22	2.9	0.8	1.0
Coker 156	26.9	08/09	10/10	17	2.3	0.8	1.0
Forrest	24.4	08/06	10/02	20	2.6	1.0	1.5
	Five-	Year Averages,	Late Plantin	g Date June 20	6, 1976-1979 and	1981	
- · · ·	41 0	00 (1 C	10/07	~ ^1	<b>.</b>	1 0	
Cobb	41.8	08/16	10/2/	31	3.6	1.2	1.4
Davis	38.9	08/12	10/13	21	2.5	1.1	1.5
Coker 338	37.9	08/12	10/22	28	3.4	1.0	1.2
Hutton	37.8	08/12	10/21	26	3.4	1.1	1.3
Bragg	37.2	08/11	10/16	28	3.1	1.4	1.0
Ransom	36.1	08/10	10/19	25	3.0	1.1	1.3
Centennial	35.4	08/09	10/10	25	3.0	1.0	1.0
Forrest	28.5	08/05	10/02	22	3.1	1.3	1.5

Table 11. Four- and Five-Year Averages for Yield, First Bloom and Maturity Dates, P<sup>1</sup>ant and First Pod Heights, Lodging and Shattering of Soybean Varieties Planted On Brewton Experiment Field, Brewton

 $^{1}$  ields adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

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Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating
Deltapine 105	42.7 a	07/18	09/20	35	4.3	1.0
McNair 770	40.5 a-b	07/20	10/06	35	5.8	
Bedford	40.3 a-c	07/17	09/19	38	5.8	1.3
Forrest	39.7 a-d	07/15	09/19	31	4.8	1.0
Deltacine 497	39.1 a-e	07/23	10/13	45	5.8	
Davis	37.6 a-f	07/22	09/14	43	4.8	1.5
GA-Sov 17	37.4 a-a	07/22	10/07	46	3.5	2.0
RA 701	37.0 a-h	07/20	10/09	46	5.5	
Coker 237	36.9 a-h	07/20	10/05	45	4.8	1.0
RA 800	36.9 a-h	07/22	10/09	45	6.5	
Wright	36 7 a-h	07/20	10/07	41	4 0	
Tracy M	36 5 a-h	07/16	09/16	36	5 0	2 0
FSSPY	36.3 a-h	07/13	09/17	28	4 8	1.0
Coker 156	36 1 h_h	07/19	10/01	38	4.0	1.0
	35 Q h_h	07/22	10/03	34	55	1.0
Brayton	35 Q b_h	07/20	10/08	43	5.5	2.0
Cakon 317	35 1 h.h	07/26	10/00		Λ θ	2.0
Thacy	35 0 5 F	07/16	10/09	<b>3</b> 3 44	<b>7.0</b> 5.5	1.5
Bragg	34.8 b-h	07/21	10/09	43	4.8	r.5 

Table 12. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted June 5, 1981, on Gulf Coast Substation, Fairhope

# Table 12. Continued

	and a state of the second s					
Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating
Terra-Vig 708	34 4 h-h	07/20	10/08	38	5.8	1.0
Ransom	34.2 b-h	07/20	10/07	34	6.0	1.0
Agripro 71	34 0 b-h	07/23	10/05	41	5.0	
Coker 338	33.6 c-h	07/24	10/12	42	3.3	
Brooks	33.6 d-h	07/23	10/09	48	5.3	0.0
RA 680	33 1 d-h	07/19	10/03	38	4.8	1.0
Centennial	32 9 e-h	07/20	10/02	35	4.5	1.0
Deltanine 506	32.5 e-h	07/20	10/05	40	3.8	1.0
Matija 1	32.5 e-h	07/29	10/10	46	5.3	1.0
Agripro 70	32 3 f-h	07/24	10/10	49	5.0	2.0
Hutton	$31.9 f_h$	07/25	10/11	43	5.3	2.0
Rav	31 5 f-h	07/17	09/20	28	3.3	1.0
Foster	31.5 f-h	07/24	10/08	42	4.0	
Cobb	31.3 f_h	07/27	10/11	52	4.3	
Agripro 80	$31.3 f_{-h}$	07/28	10/11	46	4.0	-
Dowling	31.3 f_h	07/28	10/12	48	6.0	
Big_D 483	30 8 a_h	07/06	09/08	42	3 5	1.5
Cakon 188	30.5 g-n	07/28	10/10	47	3.8	0.6
Big-D 501	23.6 i	07/06	09/18	40	5.5	1.8
C.V.% = 11.3%	L.S.D. 05 =	5.4				

<sup>1</sup>Yields adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05).

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

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Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating
	•				• • • •	
Coker 237	39.4	07/23	10/08	43	6.4	1.0
Braxton	38.6	07/24	10/13	41	6.4	1.5
Deltapine 105	5 37.4	07/20	09/20	35	5.8	1.0
GA-Sov 17	37.0	07/26	10/11	45	6.0	1.5
Lee 74	36.6	07/24	10/07	34	6.6	1.0
McNair 770	36.1	07/23	10/09	35	6.5	
Forrest	35.6	07/17	09/21	33	5 4	1 0
Ransom	35.5	07/25	10/11	34	7 4	1 0
Redford	35.2	07/19	09/21	37	6.8	1 1
Coken 156	34 6	07/13	10/03	38	6.0	1.1
Tracy	31 5	07/20	10/03	27	6 1	1.0
Davie	24.0	07/20	10/01	37	6 1	1.3
Davis DA 900	34.3	07/23	10/14	40		1.3
	34.3	07/27	10/14	42	1.4	
Loker 317	34.1	07/29	10/12	42	6.5	2.0
Wright	34.1	07/25	10/10	40	6.3	
Terra-Vig 708	34.0	07/24	10/13	39	6.4	1.0
Essex	33.9	07/14	09/23	26	4.8	1.0
Agripro 71	33.9	07/25	10/08	40	5.8	

Table 13. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted June 8, 1980–1981, on Gulf Coast Subslition, Fairhope

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# Table 13. Continued

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating
Bragg	33.3	07/25	10/11	43	6.8	
Coker 338	33.0	07/28	10/16	42	5.9	-
Tracy M	32.8	07/20	09/24	37	5.5	1.5
Hutton	32.5	07/29	10/15	43	6.5	1.5
Agripro 70	32.3	07/27	10/11	48	6.6	1.5
Coker 488	32.2	07/30	10/15	46	5.0	0.8
Centennial	32.2	07/23	10/06	35	5.8	1.0
Brooks	32.1	07/27	10/11	45	6.9	0.5
Cobb	31.7	07/29	10/16	49	6.3	
Bay	31.5	07/18	09/22	31	3.9	1.0
Dowling	31.5	07/30	10/16	45	5.9	
Agripro 80	30.8	08/01	10/14	46	6.4	
RĂ 680	29.8	07/23	10/03	37	6.1	1.0
Big-D 501	19.7	07/07	09/22	42	5.1	1.4

 $^{1}$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}\mathrm{An}$  explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating
Cakon 227	77 A	A01 TO	10/07			
LOKEr 237	37.4	07/24	10/0/	41	1.1	1./
Braxion Calvar 156	30.0	07/26	10/12	40	1.2	2.1
LOKER 156	35.4	07/23	10/02	36	5.4	1.7
GA-Soy 17	34.7	07/27	10/10	44	6.4	2.2
Lee /1	34.5	07/25	10/06	31	5.8	1.7
Ransom	34.5	07/26	10/09	34	7.2	1.7
McNair 770	34.3	07/24	10/06	35	6.3	
Terra-Vig 708	33.8	07/25	10/12	39	6.1	1.7
Bedford	33.6	07/20	09/22	38	6.5	1.8
Tracy	33.5	07/20	10/01	36	5.0	1.8
Davis	33.4	07/26	09/25	39	6.0	1.8
Forrest	33.2	07/17	09/22	33	5.0	1.8
Wright	33.1	07/27	10/09	39	6 1	
Tracy M	33.0	07/21	09/25	36	5.3	2.1
Coker 317	31.7	07/30	10/11	41	7 4	2 4
Agripro 70	31.4	07/29	10/11	47	7 3	2 1
Bragg	31.3	07/26	10/11	41	7 5	<b>L</b> • I
Coker 338	31 2	07/29	10/17	40	6.4	
Centennial	30.7	07/24	10/05	36	5.2	1 7
Hutton	30.2	07/29	10/15	<u>4</u> 3	7 6	2 1
Coker 488	30.2	08/01	10/14	45	53	1.5
RA 680	29.5	07/24	10/02	37	5.5	1.0
Dowling	29.2	07/31	10/02	57	6.0	1./
Brooks	20.1	07/31	10/11	77 15		
Cobb	27.5	07/31	10/17	40	/. <del>4</del> 6.8	1.4
		.,			0.0	

Table 14. Three-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted June 7, 1979–1981, on Gulf Coast Substation, Fairhope

 $^{1}\ensuremath{\mathsf{Yields}}$  adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}\mathrm{An}$  explanation of data and ratings is given on page 6 of this report.

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"An explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating
Coker 237	40.5	07/26	10/10	39	6.9	1.5
Coker 156	38.7	07/25	10/05	36	5.8	1.5
Ransom	38.1	07/28	10/14	35	7.3	1.5
GA-Soy 17	37.2	07/29	10/13	43	6.4	1.9
Braxton	37.2	07/28	10/17	40	6.9	1.8
McNair 770	36.8	07/26	10/10	35	6.4	
Terra-Vig 708	36.2	07/26	10/16	38	6.3	1.5
Davis	35.9	07/28	10/01	38	6.1	1.6
Lee 74	35.7	07/26	10/09	31	5.6	1.5
Tracy	35.2	07/22	10/04	37	5.1	1.6
Coker 488	34.5	08/02	10/17	44	5.8	1.4
Coker 338	34.4	08/01	10/20	39	6.6	
Agripro 70	33.9	07/30	10/15	45	7.3	1.8
Bragg	33.8	07/28	10/14	40	7.3	
Hutton	33.7	08/01	10/19	41	7.3	1.8
Forrest	33.4	07/19	09/26	32	5.1	1.6
Dowling	33.3	08/02	10/22	43	6.2	
Centennial	33.0	07/26	10/07	37	5 9	15
Cobb	32.7	08/02	10/22	45	6.6	

Table 15. Four-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted June 7, 1978–1981, on Gulf Coast Substation, Fairhope

 $^1$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating
Coker 237	42 5	07/25	10/11	37	6.4	1 4
Coker 156	40.2	07/24	10/06	33	5 1	1 4
Ransom	40.1	07/27	10/15	33	6.8	1.4
GA-Sov 17	39.4	07/28	10/14	40	6.0	1.7
Terra-Vig 708	38.6	07/26	10/16	36	5.7	1.4
Tracy	37.6	07/21	10/05	35	4.9	1.5
Davis	37.5	07/27	10/03	35	5.6	1.5
Coker 338	37.3	07/30	10/21	37	6.0	
Agripro 70	37.3	07/29	10/15	42	6.8	1.6
Lee 74	37.2	07/25	10/10	30	5.3	1.4
Bragg	36.6	07/27	10/15	38	6.8	
Hutton	35.6	07/30	10/19	39	6.8	1.6
Centennial	35.2	07/25	10/07	35	5.5	1.4
Coker 488	35.0	08/01	10/18	41	5.5	1.3
Forrest	34.5	07/18	09/26	30	4.5	1.4
Cobb	34.3	08/01	10/24	42	6.1	

Table 16. Five-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted June 6, 1977-1981, on Gulf Coast Substation, Fairhope

 $^1 {\tt Yields}$  adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

.+ 	Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant $ht.^2$	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
		Bu./a.	Date	Date	In.	In.	Rating	Rating
	Agripro 70	47.9 a	07/22	09/30	40	5.3	1.8	1.0
- i	Coker 237	43.5 a-b	07/18	09/29	31	6.0	1.0	1.0
: I	Deltapine 105	43.1 a-c	07/16	09/08	29	3.3	1.0	1.0
· · · · · · · · · · · · · · · · · · ·	RA 800	43.0 a-c	07/21	09/30	37	5.8	1,5	1.0
· . 1	Agripro 71	42.1 a-d	07/21	09/29	32	5.3	2.0	1.0
· · (	Centennial	41.5 a-e	07/18	09/25	32	4.3	2.3	1.0
	Davis	40.0 a-f	07/18	09/15	35	5.0	1.0	1.0
- E	Essex	39.7 a-g	07/07	09/13	20	4.8	1.0	1.0
(	Coker 156	39.5 a-g	07/17	09/25	29	3.3	1.0	1.0
(	Coker 488	38.9 a-g	07/26	09/29	38	5.0	1.0	1.0
E	Bragg	38.7 a - q	07/21	10/02	38	6.0	1.0	1.0
ł	H76-672-3A	38.7 a-g	07/19	09/28	37	5.5	1.0	1.0
1	McNair 770	38.0 b-q	07/19	09/28	28	4.5	1.0	1.0
F	RA 701	37.7 b-q	07/20	10/01	.38	5.3	1.8	1.0
1	Terra-Vig 708	37.6 b-g	07/18	09/29	33	4.5	1.0	1.0
. [	Deltapine 506	37.4 b-q	07/14	09/30	35	3.8	1.3	1.0
(	Coker 338	37.2 b-g	07/25	10/01	36	5.3	1.3	1.0
. (	GA-Soy 17	37.2 b-g	07/22	10/01	37	3.8	1.3	1.0
	Forrest	36.8 b-q	07/09	09/05	27	4.8	1.0	1.0

Table 17. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging and Shattering of Soybean Varieties Planted June 1, 1981, on Monroeville Experiment Station, Monroeville

Table 17. Continued

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first p	od <sup>2</sup> Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating	Rating
Aaripro 80	36.2 b-g	07/26	10/01	41	7.3	2.8	1.0
Bedford	35.2 b-h	07/13	09/12	32	6.8	1.3	1.0
Wright	35.2 b-h	07/22	09/28	36	5.0	1.3	1.0
Brooks	35.0 b-h	07/22	10/02	43	6.8	1.0	1.0
Coker 317	33.6 h-h	07/24	10/01	35	4.8	1.0	1.0
Dowling	33 2 c-h	07/27	10/02	35	3.8	1.3	1.0
Tracy M	33 1 c_h	07/17	09/24	31	3.8	1.3	1.5
Foctor	33 0 c-h	07/24	09/30	35	4.8	1.5	1.0
Hutton	32 0 d-h	07/23	09/30	37	6.0	1.3	1.0
Thack	31 8 o-h	07/15	09/24	34	4.8	1.0	1.5
Dancom	31.6 0.6	07/19	09/29	31	5.0	1.0	1.0
Kalisuli	31.0 e - 11	07/28	10/03	· 40	5.3	1.0	1.0
	30.9 1-1	07/20	09/29	36	4 5	1.0	1.0
Braxton	29.9 1-1	07/00	00/11	23	3.0	1.0	1.0
Bay	29.9 g-1	07/09	09/11	27	3.0	1 0	1.0
Lee /4	29.5 g-1	07/15	09/20	21	23	1.0	28
Big-D 501	25.5 h-1	07/07	09/04	24	2.5	1.0	2.5
Big-D 483	21.8 i	07/04	09/04	20	3.5	1.0	· <b>L</b> • J
C.V.% = 16.3%	L.S.D.				an a		

 $^{1}$ Yields adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05).

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

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Table 18. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted June 1, 1979 and 1981, on Monroeville Experiment Field, Monroeville

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating
Coker 237	44.7	07/20	10/05	31	4.5	1.3
Terra-Vig 708	42.4	07/19	10/04	32	3.5	1.9
Coker 488	40.6	07/28	10/07	39	4.3	1.6
GA-Soy 17	40.6	07/25	10/05	35	3.3	2.5
RA-701	40.2	07/22	10/04	34	4.0	2.1
Coker 156	39.7	07/18	10/01	27	2.9	1.3
Bragg	39.6	07/23	10/08	35	4.0	1.8
Davis	38.9	07/22	09/23	32	4.1	1.8
Coker 338	38.7	07/26	10/09	34	4.5	1.8
Centennial	38.4	07/20	10/01	32	4.3	2.0
Coker 317	38.1	07/26	10/07	33	4.3	1.6
Dowling	38.0	07/28	10/13	34	3.4	2.1
McNair 770	37.9	07/20	10/01	28	3.5	1.8
Ransom	37.0	07/20	10/07	30	4.4	1.5
Hutton	36.6	07/26	10/08	36	5.1	2.1
Cobb	36.1	07/29	10/13	39	4 4	1.9
Brooks	36.1	07/25	10/08	41	5.4	2.1
Braxton	35.7	07/23	10/06	34	4 1	1 4
Tracy	34.0	07/17	09/27	31	3.6	1.8
Forrest	32.4	07/13	09/13	25	3.8	1.3
Bedford	32.3	07/16	09/17	29	5.1	1 8
Lee 74	28.9	07/18	10/02	26	2.5	1.8

 $^1$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

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Table 19. Three-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted May 28, 1978, 1979, and 1981, on Monroeville Experiment Field, Monroeville

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	Date	In.	In.	Rating
Coker 237	37.7	07/20	10/06	28	3.8	1.2
Coker 488	36.1	07/28	10/12	36	3.7	1.4
Terra-Vig 708	36.1	07/20	10/07	30	3.2	1.6
GA-Sny 17	35.2	07/24	10/11	34	3.0	2.1
Dowling	34.3	07/28	10/17	33	2.8	1.8
Coker 338	33.9	07/26	10/14	32	3.8	1.5
Coker 156	33.6	07/19	10/02	25	2.8	1.2
Cobb	33.4	07/28	10/17	37	3.5	1.6
Bragg	33.4	07/22	10/12	34	3.6	1.6
Hutton	32.1	07/26	10/14	34	4.1	1.8
Davis	32.0	07/22	09/23	29	3.4	1.8
Ransom	31.9	07/21	10/10	29	3.8	1.3
Braxton	31.7	07/22	10/13	33	3.5	1.3
Centennial	31.6	07/20	10/04	31	3.8	1.7
Forrest	29.1	07/13	09/14	23	2.9	1.3
Tracy	28.5	07/18	09/29	30	3 3	1.5
Lee 74	25.5	07/19	10/04	24	2.3	1.6

 $^1$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^2$ An explanation of data and ratings is given on page 6 of this report.

Table 20.	Four-Year	· Average	es for Yield	, First Bloc	om and	Maturity Dat	es, Plant	and First F	od Heights,	and
	Lodging	of Soyb	ean Varieties	s Planted Ma	y 28,	1977-1979 an	d 1981, on	Monroeville	Experiment	Field,
· · · · ·	Monroevil	le								а сталі Політійні

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
· · · · · · · · · · · · · · · · · · ·	Bu./a.	Date	Date	In.	In.	Rating
GA-Sov 17	40.6	07/23	10/14	35	29	1.6
Terra-Vig 708	40.2	07/18	10/09	31	3.1	1.2
Coker 488	39.8	07/26	10/16	38	3.1	1.1
Coker 156	39.2	07/17	10/04	27	2.8	0.9
Bragg	38.4	07/21	10/15	35	3.3	1.2
Ransom	38.4	07/20	10/13	30	3.3	1.0
Coker 338	38.1	07/24	10/17	34	3.4	1.1
Hutton	37.8	07/25	10/17	35	3.6	1.4
Cobb	37.6	07/27	10/21	38	3.3	1.2
Davis	36.9	07/20	09/26	31	3.4	1.3
Centennial	35.8	07/19	10/05	32	3.6	1.3
Tracy	33.7	07/17	10/01	31	3.1	1.1
Forrest	32.9	07/13	09/16	25	3.0	1.0
Lee 74	30.7	07/18	10/06	25	2.4	1.2

 $^1$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>	Lodging <sup>2</sup>
	Bu./a.	Date	In.	In.	Rating
Cc.er 156 Bragg Coker 338 Hutton Ransom Cobb Davis Centennial	39.4 39.3 39.3 38.5 38.3 38.1 37.5 36.1	10/06 10/15 10/17 10/18 10/14 10/23 09/30 10/07	26 35 34 30 37 30 32 25	2.5 3.2 3.3 3.3 3.3 3.2 3.0 3.2 3.0	0.9 1.3 1.5 1.0 1.3 1.3 1.3
Tracy Lee 74	33.4 30.9	10/03 10/07	31 25	2.6 2.1	1.3 1.1

Table 21. Five-Year Averages for Yield, Maturity Date, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted May 28, 1976-1979 and 1981, on Monroeville Experiment Field, Monroeville

 $^{1}$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

Variety Yiel	d <sup>1</sup> First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
Bu./	a. Date	Date	In.	Rating	Rating
	07/10	10/10			
RA 800 58.8	a 07/18	10/12	36	1.7	1.0
RA 701 56.8	a-b 07/21	10/12	33	2.0	1.0
Agripro 70 56.6	a-c 08/02	10/13	32	2.0	1.0
Cobb 54.6	a-d 08/02	10/17	37	1.3	1.0
Coker 237 54.6	a-d 07/21	10/12	26	1.3	1.0
Deltapine 497 54.0	a-d 07/23	10/16	39	1.7	1.0
Coker 488 53.8	a-d 07/22	10/12	37	1.3	1.0
Coker 338 52.2	a-d 07/22	10/14	30	1.7	1.0
Bragg 52.0 a	a-d 07/21	10/15	34	1.3	1.0
Hutton 51.6	a-d 07/23	10/12	32	2.3	1.0
Coker 156 51.2	a-d 07/14	10/10	27	1.7	1.0
Terra-Vig 708 50.2 a	a-e 07/10	10/13	29	1.7	1.0
Davis 50.0 a	a-e 07/21	10/13	27	1.0	1.0
GA-Soy 17 50.0 a	а-е 07/21	10/12	32	1.0	1.0
Agripro 70 50.0 a	a-e 07/21	10/13	35	1.7	1.0
Dowling 49.8 a	a-e 08/02	10/16	36	1.3	1.0
McNair 770 48.6	b-f 07/21	10/13	28	1.3	1.0
Wright 48.2	b-g 07/21	10/12	32	1.3	1.0
Deltapine 105 48.1	b-g 07/06	09/29	30	1.7	1.0
Braxton 47.8	b-q 07/21	10/13	31	1.3	1.0
Centennial 47.4	b-g 07/14	10/10	26	1.3	1.0
Foster 47.0	b-g 07/21	10/10	28	1.7	1.0

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Table 22. Yield, First Bloom and Maturity Dates, Plant Height, Lodging and Shattering of Soybean Varieties Planted May 26, 1981, on Wiregrass Substation, Headland, Irrigated

Table 22. Continued

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	Date	In.	Rating	Rating
Brooks	46.8 c-q	07/21	10/12	34	1.7	1.0
Coker 317	46.4 d-g	07/24	10/14	30	2.0	1.0
Terra-Vig 606	46.4 d-q	07/14	10/11	25	1.3	1.0
Bedford	46.1 d-g	07/06	09/29	27	1.7	1.0
Deltapine 506	45.8 d-a	07/11	10/14	29	1.7	1.0
Agripro 71	45.4 d-a	07/21	10/11	25	2.0	1.0
Ransom	45.0 d-a	07/21	10/14	26	2.0	1.0
Tracy	40.6 e-h	07/10	10/14	30	2.0	1.0
Lee 74	39.0 f-h	07/10	10/12	20	1.3	1.3
Tracy M	38.6 g-h	07/10	10/12	24	2.3	2.0
Bia-D 501	34.2 h-i	07/02	09/29	30	2.3	2.3
Forrest	33.5 h-i	07/03	09/29	20	1.3	1.0
Essex	28.7 i	07/06	09/29	17	1.0	1.3
Big-D 483	26.7 i-i	06/30	09/29	27	2.0	2.3
Pay	18.3 j	07/06	09/29	16	1.0	1.0

<sup>1</sup>Yields adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05).

 $^{2}\mathrm{An}$  explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	Date	In.	Rating	Rating
Cakon 227	FA 6 -	07/00	10/14	07	• •	
COKEP 237	54.0 a	07723	10/14	21	1.0	1.0
GA-Soy 17	53.8 a	08/02	10/14	29	1.0	1.0
Hutton	53.6 a	07/24	10/13	33	2.0	1.0
Agripro 70	53.0 a	08/03	10/15	35	1.7	1.0
Braxton	52.0 a	07/21	10/16	31	1.0	1.0
Deltapine 497	51.8 a	08/03	10/18	36	1.0	1.0
Brooks	51.2 a-b	08/06	10/16	34	1.3	1.0
Wright	50.8 a-b	07/23	10/13	30	1.7	1.0
Agripro 71	49.8 a-b	07/21	10/10	28	1.3	1.0
Dowling	49.6 a-b	08/03	10/17	32	1.0	1.0
Bragg	49.4 a-b	07/30	10/15	35	1.0	1.0
Coker 338	49.2 a-b	07/24	10/12	31	1.3	1.0
Davis	49.0 a-b	07/21	10/12	25	1.3	1.0
Ransom	48.8 a-b	07/21	10/13	27	1.3	1.0
Deltapine 506	47.6 a-c	07/10	10/12	28	2.0	1.0
Agripro 80	47.4 a-c	08/07	10/17	31	1.7	1 0
Terra-Vig 708	47.0 a-c	07/10	10/11	30	1.3	1.0
Coker 156	46.8 a-c	07/21	10/12	26	1.3	1 0
RA 800	46.2 a-c	07/19	10/13	34	13	1 0
Coker 317	45.8 a-c	07/23	10/15	32	1 3	1 0
Foster	45.8 a-c	07/22	10/12	30	1 7	1 0
Terra-Vig 606	45.0 a-c	07/14	10/10	25	1.0	1.3

Table 23. Yield, First Bloom and Maturity Dates, Plant Height, Lodging and Shattering of Soybean Varieties Planted May 22, 1981, on Wiregrass Substation, Headland, Not Irrigated

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Table 23. Continued

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	Date	In.	Rating	Rating
Tracy	44.2 a-c	07/10	10/12	29	1.7	2.0
RA 701	44.2 a-c	08/02	10/16	33	1.7	1.0
Deltapine 105	43.9 a-c	07/06	09/29	25	1.0	1.0
Cobb	43.6 a-c	08/10	10/19	30	1.0	1.0
Centennial	43.4 a-c	07/14	10/10	26	1.0	1.0
Coker 488	42.8 a-c	07/24	10/15	32	2.0	1.0
Tracy M	42.6 a-c	07/10	10/13	27	1.0	1.7
McNair 770	39.2 b-d	07/23	10/13	25	1.0	1.0
Lee 74	35.8 c-d	07/12	10/10	25	1.3	1.0
Forrest	31.2 d-e	07/03	09/29	23	1.3	1.0
Bedford	31.0 d-e	07/06	09/29	26	1.7	1.0
Essex	23.2 e-f	07/06	09/29	15	1.0	1.0
Bia-D 501	21.8 e-f	07/02	09/29	26	1.3	3.3
Big-D 483	20.7 e-f	06/30	09/29	21	1.0	3.3
Bay	17.4 f	07/06	09/29	17	1.0	1.0
C.V.% = 14.0%	L.S.D. 05	= 9.8				

<sup>1</sup>Yields adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05).

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	In.	Rating	Rating
Variety Davis RA 800 Agripro 80 Bragg Agripro 70 Coker 156 Coker 237 Cobb Dowling Coker 338 Hutton Terra-Vig 708 Coker 338 Hutton Terra-Vig 708 Coker 488 McNair 770 Centennial Braxton Ransom Deltapine 105 GA-Soy 17 Wright Brooks Coker 317 Tracy Agripro 71 Bedford Tracy M Lee 74 Forrest	Yield <sup>1</sup> Bu./a. 53.3 53.1 52.9 52.8 50.6 50.3 50.2 49.6 49.4 49.3 48.0 47.9 47.3 47.0 46.8 45.8 45.7 45.3 45.1 44.9 44.6 44.1 43.9 43.3 41.8 38.7 37.1 34.6	$\begin{array}{r} \underline{Maturity}^2\\ \hline Date\\ 10/24\\ 10/24\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/26\\ 10/26\\ 10/26\\ 10/26\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/25\\ 10/24\\ 10/24\\ 10/24\\ 10/24\\ 10/24\\ 10/24\\ 10/07\\ \end{array}$	Plant ht. <sup>2</sup> In. 28 35 31 32 37 27 28 36 33 30 33 29 35 29 27 33 27 27 31 31 31 31 33 29 29 29 29 29 29 29 29 29 29 29 29 29	Lodging <sup>2</sup> Rating 1.0 1.3 1.5 1.2 1.3 1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.3 1.7 1.3 1.7 1.3 1.2 1.2 1.2 1.2 1.3 1.7 1.3 1.2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.7 1.2 1.2	Shattering <sup>2</sup> Rating 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
Essex	27.4	10/14	18	1.0	1.3
Bay	27.0	10/16	18	1.0	1.4

Table 24. Two-Year Averages for Yield, Maturity Date, Plant Height, Lodging and Shattering of Soybean Varieties Planted May 25, 1980 and 1981, on Wiregrass Substation, Headland, Irrigated

 $^1\,{\tt Yields}$  adjusted to 13% moisture and 60 pounds per bushel.

 $^2$ An explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	In.	Rating	Rating
Cokcr 237	39.4	10/24	28	1.0	1.0
Brooks	37.7	10/23	36	1.2	1.0
Hutton	37.6	10/22	33	1.5	1.0
Braxton	37.4	10/27	32	1.0	1.0
GA-Soy 17	36.9	10/24	28	1.0	1.0
Dowling	35.8	10/26	32	1.0	1.0
Centennial	35.7	10/18	-25	1.0	1.0
Agripro 70	35.7	10/24	35	1.3	1.0
Coker 156	35.5	10/22	25	1.2	1.0
Coker 338	35.3	10/26	30	1.2	1.0
Wright	35.1	10/23	29	1.3	1.0
Bragg	33.7	10/23	33	1.0	1.0
Agripro 71	33.0	10/21	27	1.2	1.0
Davis	32.8	10/13	26	1.2	1.3
Ransom	32.6	10/21	25	1.2	1.3
Coker 488	32.6	10/24	33	1.5	1.0
Agripro 80	32.3	10/28	33	1.3	1.0
Tracy M	31.8	10/18	26	1.0	1.3
Cobb	31.5	10/28	32	1.0	1.0
Tracy	31.4	10/24	27	1.3	1.8
RA 800	31.0	10/25	31	1.2	1.0
Coker 317	31.0	10/21	30	1.2	1.3
Deltanine 105	30.1	09/30	22	1.0	1.1
McNair 770	30.0	10/22	25	1.0	1.0
100 74	26.5	10/19	21	1.2	1.0
Fornest	23 9	09/30	20	1.2	1.1
Bedford	23.0	10/01	26	1.3	1.0
Fecay	20.3	09/30	15	1.0	1.5
Rav	18 0	10/01	19	1.0	1.5
Big-D 501	17.6	09/30	26	1.2	3.0

Table 25. Two-Year Averages for Yield, Maturity Date, Plant Height, Lodging and Shattering of Soybean Varieties Planted May 25, 1980 and 1981, on Wiregrass Substation, Headland, Not Irrigated

 $^{1}$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

Variety	Yield <sup>1</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Lodging <sup>2</sup>	Shattering <sup>2</sup>
	Bu./a.	Date	In.	Rating	Rating
Thre	e-Year Ave	rages, Planti	ing Date May	31, 1979-1981	
Coker 237 GA-Soy 17 Brooks Dowling Braxton Hutton Agripro 70 Cobb Coker 156 Wright Coker 338 Centennial Bragg Coker 488 Ransom Davis Tracy Lee 74 Forrest	34.8 34.4 34.3 34.1 33.6 33.5 32.5 31.8 31.7 31.5 31.1 31.1 30.9 30.5 30.0 29.8 27.3 24.5 22.5	10/27 10/28 10/26 10/31 10/30 10/27 10/25 11/01 10/28 10/26 11/01 10/22 10/26 10/28 10/27 10/21 10/28 10/25 10/08	28 31 37 33 33 34 36 33 27 32 32 32 28 34 35 28 28 28 28 28 28 28 28 28 28 28 28 28	1.0 $1.0$ $1.1$ $1.0$ $1.0$ $1.3$ $1.2$ $1.0$ $1.1$ $1.2$ $1.5$ $1.0$ $1.0$ $1.3$ $1.1$ $1.1$ $1.1$ $1.2$ $1.1$ $1.1$ $1.1$	1.0 1.1 1.0 1.0 1.1 1.1 1.1 1.1
Four	-Year Aver	ages, Planti	ng Date May 3	30, 1978-1981	
GA-Soy 17 Coker 237 Dowling Hutton Agripro 70 Bragg Coker 338 Cobb Coker 488 Coker 156 Ransom Centennial Davis Tracy Lee 74 Forrest	33.9 33.7 32.9 32.0 31.7 31.1 30.7 30.2 30.2 30.2 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29	10/27 10/23 10/30 10/27 10/25 10/24 10/30 10/31 10/27 10/24 10/25 10/18 10/19 10/23 10/22 10/08	31 28 33 35 35 33 32 33 32 33 33 25 27 28 28 29 21 21 21	1.0 1.0 1.0 1.3 1.2 1.0 1.4 1.0 1.3 1.1 1.1 1.1 1.2 1.1 1.2 1.1 1.1	1.1 1.0 1.0 1.1 1.1 1.1 1.0 1.0 1.0 1.0

Table 26. Three- and Four-Year Averages for Yield, Maturity Date, Plant Height, Lodging and Shattering of Soybean Varieties Planted on Wiregrass Substation, Headland, Not Irrigated

 $^1\,{\rm Yields}$  adjusted to 13% moisture and 60 pounds per bushel.

 $^2$ An explanation of data and ratings is given on page 6 of this report.

# From USDA Uniform VI

Table 27. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights of Soybean Varieties or Strains Planted June 5, 1981, on Gulf Coast Substation, Fairhope

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first po
	Bu,/a.	Date	Date	In.	In.
N75-2213	47.1+	07/25	09/29	40	5.3
N77-114	43.8+	07/18	09/23	25	4.0
R74-39K	41.5+	07/23	10/01	40	5.7
D78-5502	40.5+	07/16	10/01	32	5.3
D77-6057	39.8+	07/18	09/28	38	4.7
D77-6166	38.3	07/19	10/02	36	3.3
Tracy-M	37.7	07/16	09/27	36	3.7
D78-5576	37.2	07/15	09/29	33	6.7
Jeff	37.0	07/20	10/01	39	5.7
D77-12	36.0	07/17	10/01	39	5.7
D76-9665	33.7	07/21	10/01	43	4.3
Centennial	32.2	07/20	10/02	33	5.0

 $^1$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}\mathrm{An}$  explanation of data and ratings is given on page 6 of this report.

# From USDA Uniform VII

Table 28. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights of Soybean Varieties or Strains Planted June 5, 1981, on Gulf Coast Substation, Fairhope

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	$Maturity^2$	Plant $ht.^2$	Ht. first pod <sup>2</sup>
	Bu./a.	Date	Date	In.	In.
Braxton	39.0	07/20	10/09	43	5.3
N77-940	37.5	07/19	10/03	32	5.7
F77-7142	37.0	07/26	10/09	48	5.0
D76-9454	35.0	07/18	10/06	36	4.3
D77-6103	34.7	07/19	10/05	38	3.3
D77-7926	33.9	07/26	10/08	42	4.3
F77-7016	33.4-	07/19	10/06	42	4.0
Wright	32.9-	07/21	10/06	41	4.0
F77-1880	32.4-	07/20	10/08	42	4.3
F76-8757	31.4-	07/21	10/04	46	5.0
F77-2000	29.9-	07/26	10/09	44	5.3
F77-1576	28.6-	07/26	10/08	52	5.0
C.V.% = 7.7%	$L.S.D{05} = 5.4$		·····		

 $^1$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^2$ An explanation of data and ratings is given on page 6 of this report.

# From USDA Uniform VIII

Table 29. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights of Soybean Varieties or Strains Planted June 5, 1981, on Gulf Coast Substation, Fairhope

Variety	Yield <sup>1</sup>	First bloom <sup>2</sup>	Maturity <sup>2</sup>	Plant ht. <sup>2</sup>	Ht. first pod <sup>2</sup>
	Bu,/a,	Date	Date	In.	In.
N76-1507	34.2	07/21	10/06	42	5.7
N77-1602 F76-8827	33.7 31.7	07/22	10/06	44 50	4.3 6.0
F77-1790 F77-1995	30.4 30.1	07/23 07/29	10/10 10/12	46 44	4.7 6.3
Hutton 577 7450	30.1 28 9	07/23 07/22	10/09	46 45	5.3 4.7
Cobb	28.6	07/28	10/12	49	4.3
F77-1797 F77-1793	26.6	07/23	10/10	43	5.0
C079-501 F77-1840	25.8 22.8-	07/30 07/23	10/12 10/09	48 44	4.3 6.0
C.V.% = 8.3%	$L.S.D{05} = 8.3$				

 $^{1}$ Yields adjusted to 13% moisture and 60 pounds per bushel.

 $^{2}$ An explanation of data and ratings is given on page 6 of this report.

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Variety	Maturity group	S Brewton May 25	Seed quality rati Fairhope June 5	ngs Monroeville June 1	Pu Brewton May 25	rple stain ra <u>Fairhope</u> June 5	tings <u>Monroeville</u> June 1
Big D 483	ĪŅ	4	3	3	2	2	3
Deltapine 105 Bedford Bay Essex Forrest Big D 501	V V V V V V	2 2 2 2 2 2 3	1 2 2 2 2 2 3	1 2 2 2 2 2 2	1 2 2 2 2 2 2	2 1 2 2 2 1	2 1 2 2 1 3
Lee 74 Tracy Tracy M Centennial Davis RA 680 Deltapine 506 Deltapine 416 Terra-Vig 606 Coker 156	VI VI VI VI VI VI VI VI VI VI VI VI	1 2 1 1  1 2 1	$ \begin{array}{c} 1\\ 2\\ 2\\ 1\\ 1\\ 1\\ -\\ -\\ -\\ 1\\ 1 \end{array} $	1 2 2 1 1 1  2  1		1 1 1 1 1 1 1 1 1  1	1 1 1 1 1 1  1  1
Bragg Braxton GA Soy 17 Wright	VII VII VII VII	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1

Table 30. Seed Quality and Purple Stain Ratings on Soybean Cultivars and Lines Grown at Three Locations in South Alabama in 1981

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# Table 30. Continued

		s de la companya de	eed quality ra	tinas	Pur	ple stain ratings	
Variety	Maturity group	Brewton May 25	Fairhope June 5	Monroeville June 1	Brewton May 25	Fairhope Monroevil June 5 June 1	l
Ransom	VII	1	1	2	1	1 1	
RA 701	VII	1	1	1	1	1 2	
Deltapine 49/	V11	• •••	1	:		1	
lerra-Vig /08	VII	1	1	2	1		
H/6-6/2-3A	VII	1	-	1	1	1	
Brooks	VII	1	1	2	1		
Agripro 70	VII	1	1	1	1		
Agripro /1	VII	1	1	1	2		
LOKER 23/	VII	1.		1	1		
MCNAIR //U			1	1	1	1 1 1 2	
COVEL 211	ATT "	1	1	▲	• • 2	1 E	
Cobb	VIII	1	1 .	1	1 .	1 1	
Dowling	VIII	1	1	1	. 1	1 2	
Hutton	VIII	1	1	1	1	1 1	
Coker 338	VIII	1	1	2	1	1 1	
Coker 488	VIII	1	1	2	1	1 2	
RA 800	VIII	· 1 .	1	1	1	1. 1	
Agripro 80	VIII	1	1	1	1	1 1	
Matija 1	VIII	-	1	·		1	
Foster	VIII	1	1	1	1	1 2	
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	•					Seed	size (g/100 s	ieed)	
		Maturity		Brew	iton		Monroeville	•	Fairhope
	Variety	group		May 25	June 25		June 1		June 5
	Big D 483	١٧		13.8			16.2		15.8
	Deltapine 105	V		17.4	14.5		15.4		15.1
	Bedford	Ý		14.6			13.3		12.6
÷	Bay	Ň,		19.2			18.7		17.3
•	Fssex	, i de la companya d	1. A. S.	14.5			15.6	-	16.9
	Forrest	v sa se v		15.0	11.3		13.2		13.1
	Big D 501	Ň		14.2		•	16.6		16.1
	Lee 74	VI		16.1			12.6		12.9
	Tracy	VI		18.6			14.6		-14.4
	Tracy M	VI		19.9	16.4		16.0	A States	15.3
	Centennial	VI		16.0	12.3	· : .	11.9		11.8
	Davis	en en en en <b>VI</b> en en en	.*	16.9	14.4		14.1		14.1
	RA 680	V I							12.2
	Deltapine 506	VI					13.0	•	12.6
	Deltapine 416	VI		14.9			·	•	· ; 📥 🛥
	Terra-Vig 606	VI		15.8					-
	Coker 156	VĪ		14.9	12.1		12.0	and the second	11.7
				· · · · ·					4.0.0
	Bragg	VII	· · ·	15.3	12,5	•	12.5		13.3
	Braxton	VII	•	17.2	13.2		13.3	-	15.3
	GA Soy 17	VII		14.8	12.4		12.8		12.9
•	Wright	VII		16.0	12.5	•	11.3	· · · ·	12.7

		· .			
Table 31.	Seed Size of Soybean	Varieties as	Affected by Planting	Date and Location	When Grown in South
	Alabama in 1981				

Table 31. Continued

		Seed size (q/100 seed)			
Varietv	Maturity group	Brewton May 25 June 25	Monroeville June 1	Fairhope June 5	
Ransom RA 701 Deltapine 497 Terra-Vig 708 H76-672-3A Brooks Agripro 70 Agripro 71 Coker 237 McNair 770 Coker 317	VII VII VII VII VII VII VII VII VII VII	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12.8 12.5  13.5 11.8 11.8 12.0 13.0 13.0 13.8 12.3 11.3	14.3 12.0 12.6 13.6  12.6 11.6 12.6 13.2 14.7 12.5	
Cobb Dowling Hutton Coker 338 Coker 488 RA 800 Agripro 80 Matija 1 Foster	VIII VIII VIII VIII VIII VIII VIII VII	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9.1 10.3 14.2 12.3 12.1 13.2 11.2  9.6	11.3 12.2 14.6 12.7 12.4 12.5 12.5 10.3 9.4	

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Variety	Yield <sup>1</sup> (bu./a.)	Plant height (in)	Root knot <sup>2</sup> rating
F77-1840	31.8 <sup>3</sup> a	32.5 <sup>3</sup>	1.8
F77-1790	28.5	35.7	2.3
F77-2000	24.7	31.3	3.9
F77-1797	24.2 <sup>3</sup>	28.0	2.5
Braxton	22.0	33.7	2.7
Govan	21.3	28.7	3.7
Centennia]	21.2	30.0	3.0
D76-9665	19.2	28.7	4.15
Bragg	17.9	33.7	3.3
F76-8827	14.4	35.3	3.9
D77-7926	13.4	33.3	2.8
F79-4044	10.9	35.7	3.9

Table 32. Yield, Plant Height, and Root Knot Ratings of USDA Soybean Lines and Cultivars Planted May 25, 1981, on Gottler Farm near Elberta, Alabama

<sup>1</sup>Yields adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05).

 $^{2}$ Root knot ratings are on a scale of 1 to 5 with rating of one being no galling and a 5 having very severe galling.

 $^{3}\ensuremath{\text{These}}$  values are from only 1 replication; the other two replications were vandalized before harvest.

Variety	Yield <sup>1</sup> (bu./a.)	Plant height (in)	Root knot <sup>2</sup> rating
Forrest	20.1 a	24.7	4.1
Bedford	19.4 a	27.3	4.3
Coker 80-846	18.3 a-b	29.5	3.9
Wright	17.8 a-c	29.8	3.3
Govan	17.6 a-c	27.3	3.3
Foster	12.1 b-d	32.3	4.8
Braxton	11.9 c-e	38.5	3.8
Coker 79501	8.7 d-f	34.0	5.0
RA 604	8.2 d-f	30.0	3.4
Centennial	6.6 d-f	27.8	5.0
Hutton	6.0 d-f	29.0	3.9
Coker 80808	5.5 e-f	30.5	4.9
Coker 79499	5.0 e-f	29.3	4.4
Davis	4.8 f	27.8	5.0
GA Soy 17	4.6 f	27.5	5.0
Durocrop	3.6 f	32.5	4.9
RA 480	3.3 f	28.0	5.0
Cobb	2.5 f	32.5	5.0
$L.S.D{.05} = 6.0$			•
C \1			
U.V. = 43%			
- <u> </u>			
<sup>1</sup> Yields adjusted t	to 13% moisture and	l 60 pounds per bushe	1. Yields with
a common lattan	no not different l	D = 05)	•

Yield, Plant Height, and Root Knot Ratings on Soybean Varieties Planted May 25, 1981, on a Nematode Infested Field, on Gottler Farm near Elberta, Alabama Table 33.

Root-knot ratings are on a scale of 1 to 5 with ratings of one being no galling and ratings of five having very severe galling.

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