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1977

ALABAMA

SOYBEAN VARIETY TESTS

1977

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Department of Agronomy and Soils
Dept. Series No. 42

Agricultural Experiment Station
Auburn University

The following is a suggested list of varieties by planting dates for northern, central, and southern Alabama. Within planting dates, varieties are listed in order of maturity with early maturity ones listed first.

Northern Alabama

Plantings May 1 to 31
Essex, Forrest, Coker 842, Centennial, FFR 666, Lancer, Lee 74,
McNair 600, Tracy

Planting June 1 to 30
Essex, Forrest, Coker 136, Coker 842, Centennial, Lancer, Lee 74, McNair 600, Tracy, Davis, Bragg, Ransom

Central Alabama

Plantings April 25 to May 15 Forrest, Coker 136, Centennial, Davis, FFR 666, Lee 74, McNair 600, Tracy, Coker 842

Plantings May 16 to June 5 Forrest*, Coker 136*, Coker 842, Centennial, Davis, Lee 74, McNair 600, Tracy, Bragg, Ransom, Hutton, Coker 338

Plantings June 6 to 30 Centennial, Davis, Bragg, Ransom, Hutton, Coker 338, Cobb*

Southern Alabama

Plantings May 15 to May 31 Coker 842, Centennial, Davis, Lee 74, McNair 600, Tracy, Bragg Ransom, Hutton, Coker 338, Cobb

Plantings June 1 to 30 Davis, Bragg, Ransom, Hutton, Coker 338, Cobb

*Not suggested for Black Belt soils during these planting dates.

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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 periodof 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. Thus, it is important that varieties from more than one maturity group be evaluated at each location. Since soybeans are highly photoperiodic, the blooming period, period of pod development and fill, and maturity date of a particular variety do not vary greatly from year to year. Continued testing and evaluation of soybean varieties and experimental strains by agricultural experiment stations is 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 individual requirements.

EXPERIMENTAL PROCEDURES

All tests were conducted at outlying units of the Alabama Agricultural Experiment Station of Auburn University. A randomized block design with 4 replications was used at each of 10 locations. Where possible several planting dates were used at each location with the first plantings made at the optimum time for maximum yield. Plots were planted with regular commercial soybean planters equipped with a special seed hopper adapted for small plots. Plots were four rows wide and 23 feet long with 16 feet of the two center rows harvested for yield determinations. 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 1977, a number of unreleased strains in the late stages of development from the USDA Regional Testing Program, and some commercial lines. Sources of seed are listed on pages 6 and 7.

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 vary from year to year because of variation in rainfall, temperature, diseases, and nematodes. Therefore, the longer term yield averages are more reliable in evaluating varietal performance.

Differences in yield data for 1977 have been computed using Duncan's New 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. This value reflects the relative precision of the experiment, a small C.V. indicates more precision in estimating the relative performance of varieties.

SEASONAL CONDITIONS

Early season moisture was quite variable during the growing season in 1977. Northern Alabama had sufficient moisture early for good stands and adequate early growth, but midsummer drought was quite severe. There was a dry period of 64 days in July and August at Belle Mina which resulted in pod drop and consequently low yields. Similar dry conditions were evident at the other locations in Northern Alabama but were not as drastic as at the Tennessee Valley Substation. The heavy rains in September after the dry August resulted in very poor quality beans from early harvested varieties.

Rainfall in Central and Southern Alabama was below normal in April, May, and early June, which resulted in stand problems and very slow early growth. Tests were abandoned at Lower Coastal Plain Substation and Wiregrass Substation because of very poor stands. A dry period early in July at the Black Belt Substation caused severe iron chlorosis on varieties in all three planting dates as shown in table 34.

Highest yields were obtained from tests in southern Alabama at Brewton and Monroeville Experiment Fields where 25 and 23 inches of rainfall respectively was measured during the period of July, August, and September. Yields varied from 33 to 62 and 37 to 58 for the two locations respectively. The early Group V maturity varieties were the lowest yielding varieties and the highest yielding varieties were full season varieties in Maturity Groups VII and VIII.

The mid- to late-season varieties have tended to yield the best in central and southern Alabama locations for the past 5 years as is evident in the 5-year average tables. This was also true for the early plantings in northern Alabama due to the early summer drought; however, early varieties yielded well at later planting dates as is evident at the Sand Mountain Substation.

Lodging was not a problem at any location or planting date in 1977 due to early summer drought. Seed quality was very poor in northern Alabama for all early maturing varieties when planted early.

Table 1. Rainfall by Location During the Period August 15 through September 30 for 1973, 1974, 1975, 1976, and 1977

		·				
Location	1973	1974	1975	1976	1977	
	In.	In.	In.	In.	In.	
Black Belt Substation (Marion Junction)	4.88	9.87	7.72	6.20	6.31	
Brewton Experiment Field (Brewton)	8.43	8.19	9.77	5.43	8.97	
Gulf Coast Substation (Fairhope)	12.77	10.40	14.54	8.33	9.96	
Lower Coastal Plain Substation (Camden)	-		-	9.37	5.76	
Monroeville Experiment Field (Monroeville)	-	-	-	7.06	6.32	
Prattville Experiment Field (Prattville)	2.95	10.12	9.09	9.76	5.88	
Sand Mountain Substation (Crossville)	8.18	3.96	6.95	3.37	11.07	
Upper Coastal Plain Substation (Winfield)	4.82	8.71	7.45	5.15	9.01	
Tennessee Valley Substation (Belle Mina)	3.58	4.49	5.76	5.87	6.20	
Wiregrass Substation (Headland)	6.26	8.73	6.41	7.42	9.59	

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 first pod, maturity, lodging, and size and quality of seed.

 $\underline{\text{Yield}}$ of soybeans was determined by cutting the two center rows of each plot and threshing with a plot thresher (or small plot combine). Plot yields were adjusted to 13% moisture and converted to bushels (60 pounds) per acre.

 $\underline{\text{First bloom}}$ was taken as the date when there was one flower at any node on 10% of the plants.

Maturity 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.

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

- 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% 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.

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:

- 1 no shattering
- 2 1 to 3% shattering
- 3 4 to 8% shattering
- 4 9 to 19% shattering
- 5 20% or more shattering

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

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

Seed size for each variety was determined from a composite sample of all replications at a given planting date and location. Seed size is reported as grams per 100 seeds.

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 excessive rain.

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

1 - no purple staining

4 - 9 to 19% staining

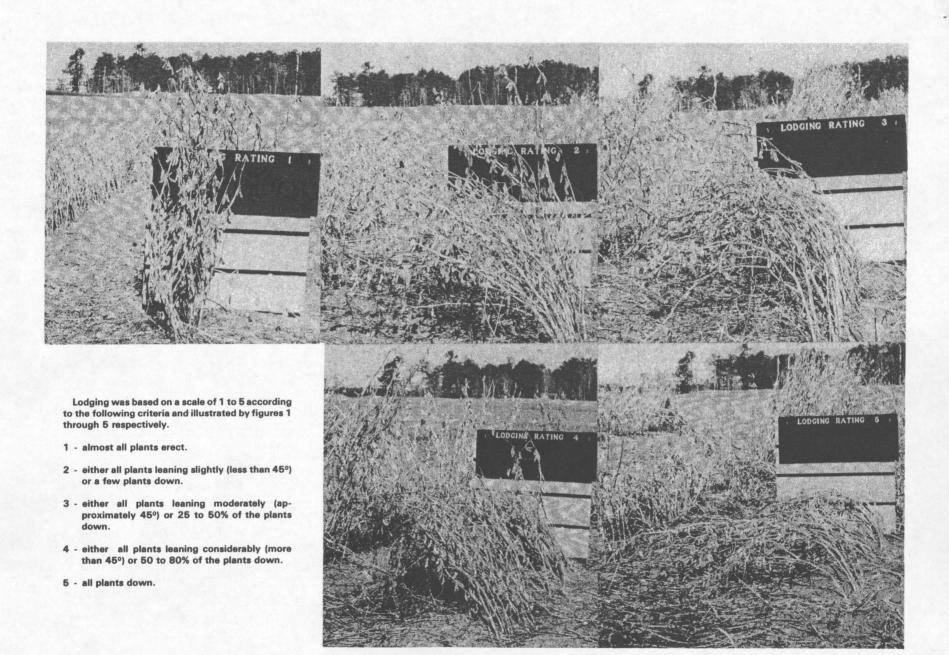
2 - 1 to 3% purple staining

5 - 20% or more staining

3 - 4 to 8% purple staining

VARIETY DATA

Soybean varieties grown in Alabama are in Maturity Groups V, VI, VII, and VIII. The following is a list of the varieties and strains with source of seed for 1976 listed by maturity groups. For more information on these varieties see table 2.



Very Early Varieties - Maturity Group V

Coker's Pedigreed Seed Co., Hartsville, SC

Essex Alabama Foundation Seed Stocks Farm, Thorsby, AL

FFR 556* Farmers Forage Research, Lafayette, IN

FFR 557* Farmers Forage Research, Lafayette, IN

Forrest Alabama Foundation Seed Stocks Farm, Thorsby, AL

Mack Phizer Genetics Inc., Cleveland, Mississippi

McNair 500 McNair Seed Co., Laurinburg, NC

N-K Blend* Northrup King, Atmore, AL

N-K Entry 30* Northrup King, Atmore, AL

Texas RA 501* Ring Around Research, Plainview, TX

Texas RA 526* Ring Around Research, Plainview, TX

Early Varieties - Maturity Group VI

Centennial Alabama Foundation Seed Stocks Farm, Thorsby, AL

Coker 842* Coker's Pedigreed Seed Co., Hartsville, SC

D&PL 5* Delta & Pine Land Company, Scott, MS

D&PL 154* Delta & Pine Land Company, Scott, MS

Davis Alabama Foundation Seed Stocks Farm, Thorsby, AL

FFR 666 Farmers Forage Research, Lafayette, IN

FFR 667* Farmers Forage Research, Lafayette, IN

Green Soy 74-64* Green Seed Co., Gallatin, TN

Lancer North American Plant Breeders, Hutcheson, KS

Lee 74 Alabama Foundation Seed Stocks Farm, Thorsby, AL.

McNair 600 McNair Seed Co., Laurinburg, NC

McNair 3161* McNair Seed Co., Laurinburg, NC

RA(a) 23* Ring Around Research, Plainview, TX

RA 601* Ring Around Research, Plainview, TX

RA 602* Ring Around Research, Plainview, TX

Tracy Alabama Foundation Seed Stocks Farm, Thorsby, Al

Mid-Season Varieties - Maturity Group VII

Agripro AP70 * North American Plant Breeders, Memphis, TN

Bragg Alabama Foundation Seed Stocks Farm, Thorsby, Al

Coker 73-370 Coker's Pedigreed Seed Co., Hartsville, SC

FFR 6105* Farmer's Forage Research, Safayette, IN

FFR 6111* Farmer's Forage Research, Lafayette, IN

FFR 7027* Farmer's Forage Research, Lafayette, IN

Ga. Soy 17 Shelby Baker, Coastal Plains Exp. Station,

Tifton, GA

Govan USDA Delta Branch Experiment Station, Stoneville,

Mississippi

McNair 800 McNair Seed Co., Laurinburg, NC

McNair 3131* McNair Seed., Laurinburg, NC

McNair 3183* McNair Seed Co., Laurinburg, NC

RA 700* Ring Around Research, Plainview, TX

Ransom Alabama Foundation Seed Stocks Farm, Thorsby, AL

Terra-Vig 708* Terra Norris Seed Co., Inc., Lake Providence, LA

Late-Season Variety - Maturity Group VIII

Agripro AP80* North American Plant Breeders, Memphis, TN

Cobb Alabama Foundation Seed Stocks Farms, Thorsby, AL

Coker 73-410* Coker's Pedigreed Seed Co., Hartsville, SC

Coker's Pedigreed Seed Co., Hartsville, SC

Hutton Alabama Foundation Seed Stocks Farm, Thorsby, AL

*Breeding line selections not yet released by seed company.

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Table 2. Physical Descriptions and Disease Resistance of Some Soybean Varieties Tested

		The second se				Reacti	on to i		ual disea		Nematode	1/
		· .	Plant cl	naracteris				Tar-	Phyto-	Purple	resistant	ce='
		Pubes-	Flower	Pod	Hilum	Bacteria	Wild-	get	phthora	seed	Cyst	Root-
Group	Variety	cence	color	color	color	pustule	fire	spot	rot	stain	(Race 3)	knot
v	Dare	Gray	White	Tan	Buff	R	R	R	MR	R	S	MR
	Forrest	Tawny	White	Tan	Black	R	R	R	MR	MR	R	R
	Essex	Gray	Purple	Tan	Buff	R	R	R	MR	R	S	S
	Mack	Tawny	Purple	Tan	Black	R	R	R	R	R	R	S
VI	Davis	Gray	White	Lt. Tan	Buff	R	R	R	R	MR	S	S
	Lee 68	Tawny	Purple	Tan	Black	R	R	R	VR	R	S	S
•	McNair 600	Tawny	Purple	Lt. Tan	Black	R	R	R	S	R	S	R
	Centennial	Tawny	Purple	Tan	Black	R	R	R	R	MR	R	R
	Tracy	Tawny	White	Tan	Black	R	R	R	R	-	S	S
	Lee 74	Tawny	Purple	Tan	Black	R	R	R	VR	R	S	R
VII	Bragg	Tawny	White	Tan	Black	R	R	R	R	S	s	R
	McNair 800	Gray	White	Tan	Buff	R	R	R	S	S	S	· S
	Ransom	Tawny	Purple	Tan	Black	R	R	R	MS	R	S	S
VIII	Coker 338	Gray	Purple	Lt. Tan	Buff	R	R	MR	vs	s	S	S
	Hutton	Brown	Purple	Tan	Black	R	R	R	S	S	S	R
	Cobb	Gray	White	Tan	Buff	R	R	R	S	S	S	R

^{1/}VR-very resistant; R-resistant; MR-moderately resistant; S-susceptible; VS-very susceptible. These are ratings given these varieties by the breeders and are not based on performance in Alabama alone.

Northern Alabama

The test locations in northern Alabama were on Decatur clay loam at Belle Mina, Hartsells fine sandy loam at Crossville, and Savannah fine sandy loam at Winfield. Soybeans of Maturity Group VI are full season varieties for this area. Varieties of Group VII maturity tend to be taller and later maturing in northern Alabama than at more southern locations. Thus, lodging may be a problem for Group VII varieties in northern Alabama; however, lodging was not a problem in 1977. Lodging has been a problem for 3 of the past 5 years at both Crossville and Belle Mina and the taller varieties have not yielded well. It has been the shorter varieties of Group V maturity that have been the best yielding varieties in early plantings at Crossville and Belle Mina.

Essex has been the highest yielding variety for the past 5 years at Crossville and Belle Mina with 35 and 46 bu/A, respectively, out-yielding the second variety Tracy at Crossville and Forrest at Bell Mina.

The best Group VI maturity variety was Tracy in the early plantings at Crossville. At Winfield McNair 600, Lee 74, Davis, and Tracy yielded best for mid-May plantings.

New early lines that have looked good in northern Alabama for the past 2 to 3 years are Coker 842, Coker 136, Lancer, and Centennial. Coker 842 was the highest or second highest yielding variety in four of the six locations in northern Alabama.

Table 3. Yields, First Bloom and Maturity Dates, Plant & First Pod Heights, Lodging, Seed Quality, Purple Stain and Seed Size of Soybean Varieties when Planted May 3, 1977 at Sand Mountain Substation

Yield1/ Bu/A 36.6 a 36.5 a	bloom ² / Dates 7/21	Maturity2/ Dates	ht. <u>2</u> / In.	Ht. 1st $\frac{2}{\text{pod}^2}$	Lodging	quality2/	stain2/	size
36.5 a	7/21			In.	Rating	Rating	Rating	g/100 seed
	1/41	10/28	37	3.0	3.3	2.5	2	19.0
	7/15	10/26	36	3.0	2.8	1	1	16.6
35.8 a	7/ 15	10/25	35	4.5	2.3	2	2	17.6
				3.0		2.5	1	16.0
		•				4	3	17.8
		-				3	1	15.8
						1	2	16.2
							2	19.8
							2	16.3
							1	18.0
							2	18.0
		-				3		15.2
		•				3	2	16.1
						3	2	16.7
				3.5		5.2	5	18.5
				3/				13.8
				3 /				12.7
				$\overline{3}$ /			1	14.2
				$\frac{1}{2}$, 0			3	11.9
				3.0			3	16.9
				3/			2	12.8
				2.8				17.9
				3/				14.5
				3.3				14.4
**								13.7
U				3/				14.3
				3/				15.8
				3 /				12.1
				4.0		2	3	17.3
	35.3 a 35.1 a 34.3 a 33.3 ab 33.2 ab 33.2 ab 32.4 ab 31.4 ab 31.2 ab 28.7 bc 25.6 cd 25.2 cd 24.8 cde 24.3 cdef 24.0 cdef 23.8 cdef 23.6 cdef 23.6 cdef 23.6 cdef 23.6 cdef 23.6 def 21.4 def 21.4 g def 20.2 gh def 19.4 gh ef	35.3 a 7/13 35.1 a 7/10 34.3 a 7/19 33.3 ab 7/18 33.2 ab 7/10 33.2 ab 7/12 32.4 ab 7/11 31.4 ab 7/08 31.2 ab 7/16 28.7 bc 7/08 25.7 bc 7/04 25.6 cd 7/15 25.2 cd 7/08 24.8 cde 7/01 24.3 cdef 7/00 24.0 cdef 7/04 23.8 cdef 7/16 23.6 cdef 7/11 23.0 def 7/17 21.4 def 7/05 21.4 g def 7/05 21.4 g def 7/05 19.4 gh ef 7/09 19.0 gh f 7/03 17.3 gh 7/10 15.8 h 7/08	35.3 a 7/13 10/25 35.1 a 7/10 10/25 34.3 a 7/19 10/26 33.3 ab 7/18 10/24 33.2 ab 7/10 10/23 33.2 ab 7/12 10/25 32.4 ab 7/11 10/25 31.4 ab 7/08 10/14 31.2 ab 7/16 10/22 28.7 bc 7/08 10/20 25.7 bc 7/04 10/14 25.6 cd 7/15 10/22 25.2 cd 7/08 9/24 24.8 cde 7/01 9/15 24.3 cdef 7/00 9/09 24.0 cdef 7/04 9/13 23.8 cdef 7/16 10/05 23.6 cdef 7/11 9/27 23.0 def 7/17 10/13 21.4 def 7/05 10/01 21.4 g def 7/16 10/03 20.2 gh def 7/05 9/13 19.4 gh ef 7/09 9/13 19.0 gh f 7/03 9/15 17.3 gh 7/10 9/22 15.8 h 7/08	35.3 a 7/13 10/25 33 35.1 a 7/10 10/25 36 34.3 a 7/19 10/26 40 33.3 ab 7/18 10/24 33 33.2 ab 7/10 10/23 36 33.2 ab 7/12 10/25 37 32.4 ab 7/11 10/25 35 31.4 ab 7/08 10/14 35 31.2 ab 7/16 10/22 32 28.7 bc 7/08 10/20 39 25.7 bc 7/04 10/14 35 25.6 cd 7/15 10/22 34 25.2 cd 7/08 9/24 30 24.8 cde 7/01 9/15 30 24.3 cdef 7/00 9/09 25 24.0 cdef 7/04 9/13 34 23.8 cdef 7/16 10/05 31 23.6 cdef 7/16 10/05 31 23.6 cdef 7/17 10/13 36 21.4 def 7/05 10/01 41 21.4 g def 7/16 10/03 33 20.2 gh def 7/05 9/13 32 19.4 gh ef 7/09 9/13 28 19.0 gh f 7/03 9/15 35 17.3 gh 7/10 9/22 31 15.8 h 7/08 10/03 38	35.3 a 7/13 10/25 33 3.0 35.1 a 7/10 10/25 36 4.0 34.3 a 7/19 10/26 40 4.0 33.3 ab 7/18 10/24 33 3.5 33.2 ab 7/10 10/25 37 4.0 32.4 ab 7/11 10/25 35 3.3 31.4 ab 7/16 10/22 32 3.3 31.2 ab 7/16 10/22 32 3.3 32.8.7 bc 7/08 10/14 35 3.5 25.7 bc 7/04 10/14 35 3.8 25.6 cd 7/15 10/22 34 3.5 25.2 cd 7/08 9/24 30 3/2 24.8 cde 7/01 9/15 30 3/2 24.3 cdef 7/00 9/09 25 3/3/2 24.0 cdef 7/04 9/13 34 2.0 23.8 cdef 7/16 10/05 31 3.0 23.6 cdef 7/11 9/27 37 3/2 23.0 def 7/17 10/13 36 2.8 21.4 def 7/05 10/01 41 3/2 21.4 g def 7/16 10/03 33 3.3 20.2 gh def 7/16 10/03 33 32 2.0 19.4 gh ef 7/09 9/13 32 2.0 19.4 gh ef 7/09 9/13 32 2.0 19.4 gh ef 7/09 9/13 32 2.0 19.9 gh f 7/03 9/15 35 3/2 17.3 gh 7/10 9/22 31 3/2 15.8 h 7/08 10/03 38 4.0	35.3 a 7/13 10/25 33 3.0 2.0 35.1 a 7/10 10/25 36 4.0 2.8 34.3 a 7/19 10/26 40 4.0 2.5 33.3 ab 7/18 10/24 33 3.5 2.8 33.2 ab 7/10 10/25 37 4.0 2.8 33.2 ab 7/12 10/25 37 4.0 2.8 32.4 ab 7/11 10/25 35 3.3 2.3 31.4 ab 7/08 10/14 35 3.5 2.0 31.2 ab 7/16 10/22 32 3.3 2.8 28.7 bc 7/08 10/20 39 3.5 2.3 25.7 bc 7/04 10/14 35 3.8 2.8 25.7 bc 7/04 10/14 35 3.8 2.8 25.6 cd 7/15 10/22 34 3.5 1.5 25.2 cd 7/08 9/24 30 3/2 4.3 24.8 cde 7/01 9/15 30 3/2 1.0 24.3 cdef 7/00 9/09 25 3/2 1.3 24.0 cdef 7/04 9/13 34 2.0 1.8 23.0 def 7/17 10/13 36 2.8 2.5 21.4 def 7/05 10/01 41 3/2 3.0 21.4 g def 7/16 10/03 33 3.3 1.8 20.2 gh def 7/06 9/13 32 2.0 2.8 29.4 gh ef 7/09 9/13 32 2.0 2.8 19.4 gh ef 7/09 9/13 38 3/2 3/3 3.8 19.0 gh f 7/03 9/15 35 3/3 3/3 1.8 17.3 gh 7/10 9/22 31 3/4 2.0 15.8 h 7/08 10/03 38 4.0 1.5	35.3 a 7/13 10/25 33 3.0 2.0 2.5 35.1 a 7/10 10/25 36 4.0 2.8 4 34.3 a 7/19 10/26 40 4.0 2.5 3 33.3 ab 7/18 10/24 33 3.5 2.8 1 33.2 ab 7/10 10/23 36 3.5 2.8 2 33.2 ab 7/12 10/25 37 4.0 2.8 2.5 32.4 ab 7/11 10/25 35 3.3 2.3 2.5 31.4 ab 7/08 10/14 35 3.5 2.8 3 2.87 bc 7/08 10/20 39 3.5 2.3 3 25.7 bc 7/08 10/20 39 3.5 2.3 3 25.7 bc 7/08 10/14 35 3.8 2.8 3 25.7 bc 7/04 10/14 35 3.8 2.8 3 25.7 bc 7/04 10/14 35 3.8 2.8 3 25.8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	35.3 a 7/13 10/25 33 3.0 2.0 2.5 1 35.1 a 7/10 10/25 36 4.0 2.8 4 3 34.3 a 7/19 10/26 40 4.0 2.5 3 1 33.3 ab 7/18 10/24 33 3.5 2.8 1 2 33.2 ab 7/10 10/25 37 4.0 2.8 2.5 2 33.2 ab 7/11 10/25 37 4.0 2.8 2.5 2 32.4 ab 7/11 10/25 37 4.0 2.8 2.5 2 31.4 ab 7/11 10/25 35 3.3 2.3 2.5 1 31.4 ab 7/08 10/14 35 3.5 2.0 5 2 31.2 ab 7/16 10/22 32 32 3.3 2.8 3 2 28.7 bc 7/08 10/20 39 3.5 2.3 3 2 25.7 bc 7/08 10/20 39 3.5 2.3 3 2 25.7 bc 7/04 10/14 35 3.8 2.8 3 2 25.6 cd 7/15 10/22 34 3.5 1.5 5.2 5 25.2 cd 7/08 9/24 30 3/ 4.3 1.5 2 24.8 cde 7/01 9/15 30 3/ 4.3 1.5 2 24.8 cde 7/01 9/15 30 3/ 1.0 1 24.0 cdef 7/04 9/13 34 2.0 1.8 3 3 23.8 cdef 7/16 10/05 31 3.0 2.0 2.5 3 23.0 def 7/17 10/13 36 2.8 2.5 5.2 3 21.4 def 7/05 10/01 41 3/ 3.0 2 23.0 def 7/17 10/13 36 2.8 2.5 5.2 3 21.4 g def 7/16 10/03 33 3.3 1.8 1 2 20.2 gh def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/09 9/13 28 3/ 3.8 2.5 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/05 9/13 32 2.0 2.8 2 21.4 g def 7/06 9/13 32 2.0 2.8 2 21.4 g def 7/06 9/13 32 2.0 2.8 2 21.4 g def 7/06 9/13 32 2.0 2.8 2 21.4 g def 7/06 9/13 32 2.0 2.8 2 21.4 g def 7/06 10/03 33 3.3 3.8 2.5 2 21.4 g def 7/09 9/13 32 2.0 2.8 2 21.4 g def 7/09 9/13 32 2.0 2.8 2 21.4 g def 7/09 9/13 32 2.0 2.8 2 21.4 g def 7/09 9/13 32 2.0 2.8 2 21.4 g def 7/09 9/13 32 2.0 2.8 2.5 2 21.4 g def 7/09 9/13 32 2.0 2.8 2 21.4 g def 7/09 9/13 32 2.0 2.8 2 21.4 g def 7/09 9/13 32 2.0 2.0 1.5 2 21.5 def 7/08 10/03 38 4.0 1.5 2

C.V.% 12.5 1.7 1.7 12.5 1.7 1.7 12.5 1.7 1.7 12.5 1.7 1.7 12.5 1.7 1.7 12.5 1.7 1.7 12.5 1.7 1.7 12.5 1.7 1.7 12.5 1.7 1.7 12.5 1.7 1.7 12.5 1.7 1

 $[\]underline{\frac{2}{\text{An}}}$ explanation of data and ratings is given on page 3 of this report. $\underline{3}/\text{No}$ data taken.

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Table 4. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, Seed Quality, Purple Stain, and Seed Size of Soybean Varieties Planted June 1, 1977 at Sand Mountain Substation

Variety	Yield1/	lst bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging	Seed quality2/	Purple stain2/	Seed size
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	Rating	g/100 seed
Centennial	39.5 a	7/27	10/24	35	6.0	2.3	1.5	1	16.0
Coker 842	39.5 a	7/28	10/24	31	3.0	2.0	2	1	14.8
Lancer	39.1 ab	7/28	10/20	30	4.0	2.0	2	2	19.3
Ga. Soy 17	38.0 abc	8/07	10/28	40	3.0	4.5	2	1	16.5
Ransom	37.6 abc	7/30	10/28	32	4.0	2. 5	1	1	17.7
McNair 600	37.2 abc	7/29	10/20	34	3.0	3.0	2	1	15.3
Forrest	36.8 abcd	7/22	10/09	30	4.0	2.3	.5	4	14.6
Coker 338	36.7 abcde	8/04	11/04	37	5.5	3.0	1	2	17.6
Coker 136	35.8 abcde	7/25	10/12	30	4.0	1.0	2.5	2	17.7
FFR 666	35.3 abcdef	7/28	10/22	28	3.8	2.8	2	1	14.9
Lee 74	34.9 bcdef	7/31	10/24	32	4.5	4.0	1	1	14.8
Tracy	34.8 bcdef	7/27	10/20	35	2.5	3.5	1.5	1	19.0
Bragg	34.3 cdef	8/02	10/28	40	5.0	4.3	2	1	15.7
McNair 500	33.7 cdef	7/24	10/12	28	3.8	2.3	3	2	15.9
Hutton	32.7 g def	8/04	10/28	35	4.0	4.3	1	1	18.1
FFR 556	32.2 g ef	7/24	10/22	38	4.0	2.5	1.5	2	20.9
McNair 800	31.5 gh f	8/14	10/24	31	2.5	2.8	2	1	14.3
Mack	29.0 ghi	7/23	10/06	27	2.8	3.0	5	3	15.7
Davis	28.2 hi	8/01	10/26	30	3.3	3.5	2	2	19.1
Essex	25.2 i	7/23	10/01	18	2.8	1.0	5 .	3	15.0
C, V.%	7.6								

 $\frac{1}{7}$ Yield adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05).

 $\overline{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 5. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, Seed Quality, Purple Stain, and Seed Size of Soybean Varieties When Planted June 20, 1977 at Sand Mountain Substation

Variety	Yield <u>l</u> /	lst bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging	Seed quality <u>2</u> /	Purple stain2/	Seed size
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	Rating	g/100 seed
Forrest	39.5 a	8/04	10/20	30	4.0	2.3	2.5	1	14.9
McNair 600	38.3 ab	8/10	10/26	33	4.8	3.3	1	1	15.5
Coker 136	37.8 abc	8/09	10/23	32	6.0	2.3	1	2	18.3
Ransom	37.2 abc	8/10	10/30	32	7.0	1.8	1.5	2	18.1
Lancer	37.0 abc	8/14	10/28	32	5.8	1.5	2	1	19.7
Coker 842	36.6 abc	8/12	10/26	31	3.8	1.8	1	1	17.3
Ga. Soy 17	36.2 abc	8/15	10/28	36	6.0	3.0	1.5	1	16.3
McNair 800	36.0 abc	8/18	10/28	30	4.3	2.3	2	1	14.2
Hutton	36.0 abc	8/14	10/30	33	5.5	2.8	2	1	17.8
Essex	35.7 abc	8/02	10/12	23	4.0	1.3	3	2	16.5
Davis	35.1 abc	8/13	10/28	34	5.8	3.5	1	2	18.1
Lee 74	34.7 abcd	8/12	10/27	34	6.0	4.0	1	1	15.0
FFR 556	34.4 bcd	8/06	10/26	36	5.5	2.0	1	1	20.9
McNair 500	33.7 bcd	8/07	10/17	28	4.3	2.3	2	1	15.6
FFR 666	33.6 bcd	8/10	10/24	30	4.8	3.0	1	1	14.8
Bragg	33.5 bcd	8/13	10/29	36	6.0	3.3	1	1	16.1
Coker 338	33.3 bcd	8/17	11/04	35	7.3	3.3	1	2	16.9
Centennial	33.1 cd	8/08	10/29	33	5.5	2.5	1	1	17.3
Tracy	30.1 de	8/09	10/21	32	4.5	3.0	2	1	18.6
Mack	27.2 e	8/03	10/12	29	4.0	3.3	2.5	2	17.1

C.V.%

 $[\]frac{1}{7}$ Yields adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05). $\frac{2}{7}$ An explanation of data and ratings is given on page 3 of this report. $\frac{3}{7}$ Yield not taken due to poor stand.

Table 6. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Variets at Sand Mountain Substation 1976 and 1977

Bu/A Dates Dates In. In. Rat	Veriety	Yield1/	lst bloom <u>2</u> /	Maturity2/	Plant $ht. 2/$	Ht. 1st $\frac{2}{\text{pod}^2}$	Lodging
Average Planting date May 3 6.5 3.	variety	Bu/A	Dates	Dates			Rating
Hutton 35.6			Ave	rage planting			
NeNair 600 33.8 7/15 10/13 38 6.3 2			1/24	10/21	38.		3.9
Lee 74 33.7 7/20 10/15 34 6.3 28 8 8 28 27.4 2 28 28 28 28 28 28 28							1.9
Brage 33.6 7/22 10/20 42 7.4 22 FFR 666 33.4 7/18 10/13 33 5.5 5 2 2 2 7/17 10/18 40 7.1 2 2 2 2 7/17 10/18 40 7.1 2 2 2 2 2 2 7/17 10/18 40 7.1 2 2 2 2 2 2 2 2 2							2.9
FFR 666 33.4 7/18 10/13 33 5.5 2 Centennial 32.2 7/17 10/18 40 7.1 2 Essex 32.1 7/07 9/15 26 3/ 1 Tracy 31.7 7/14 10/13 36 5.6 2 Lancer 30.5 7/20 10/09 38 6.0 1 Forrest 30.3 7/10 9/19 35 4.8 1 Davis 29.7 7/22 10/10 37 5.5 2 Coker 136 28.0 7/17 9/29 39 3/ 1 Mack 26.9 7/11 9/19 68 4.1 2 McNair 500 26.0 7/11 9/19 68 4.1 2 FFR 556 23.6 7/11 10/03 42 6.3 3/ 2 FFR 556 23.6 7/11 10/03 42 6.3 2 **Average planting date May 28** **Coker 136 36.3 7/29 10/10 35 7.4 1 Coker 136 36.3 7/29 10/10 35 7.4 1 Coker 136 36.3 7/29 10/10 35 7.4 1 Coker 136 36.3 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 McNair 500 34.8 7/26 10/08 32 6.0 2 McNair 500 34.8 7/26 10/08 32 6.0 2 McNair 500 34.8 7/26 10/08 32 6.0 2 McNair 600 34.1 7/31 10/21 34 7.0 2 McNair 600 34.1 7/30 10/13 36 5.8 2 McNair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Tracy 33.8 7/27 10/13 36 4.9 3 Tracy 33.8 7/27 10/13 36 5.8 2 **Average planting date June 19** **Hutton 33.2 8/03 10/21 42 8.0 3 **Bragg 33.6 8/03 10/22 37 8.1 48 Mack 31.1 7/25 9/29 24 4.8 Mack 31.1 7/25 9/29 3.6 McNair 600 35.3 8/14 10/20 27 5.6 McNair 600 35.3 8/14 10/20 27 5.6 McNair 600 35.3 8/14 10/20 27 5.6 McNair 600 35.3 8/14 10/26 28 6.0 McNair 600 35.3 8/14 10/26 29 5.6 McNair 600 35.3 8/14 10/26 29 5.6 McNair 600 35.3 8/14 10/26 28 6.0 McNair 600 3	Lee 74						2.6
Centennial 32.2 7/17 10/18 40 7.1 2 Essex 32.1 7/07 9/15 26 3/ 1 Tracy 31.7 7/14 10/13 36 5.6 2 Lancor 30.5 7/20 10/09 38 6.0 1 Forrest 30.3 7/10 9/19 35 4.8 1 Davis 29.7 7/22 10/10 37 5.5 2 Coker 136 28.0 7/17 9/29 39 3/ 1 Mack 26.9 7/11 9/19 68 4.1 2 McNair 500 26.0 7/14 9/26 33 3/ 2 FFR 556 23.6 7/11 10/03 42 6.3 2 Average planting date May 28 Coker 842 38.3 7/30 10/17 34 6.0 1 Lancor 37.8 7/31 10/15 35 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/19 38 8.8 2 Ransom 34.7 7/31 10/07 33 5.9 2 Ransom 34.7 7/31 10/08 32 6.0 2 Ransom 34.7 7/31 10/08 32 6.0 2 Ransom 34.7 7/31 10/15 36 6.0 2 Ransom 34.7 7/31 10/19 38 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 6.1 3 RoWair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 6.1 3 RoWair 600 34.1 7/30 10/13 36 5.8 2 Rutton 33.2 8/05 10/22 37 8.1 4 Rutton 33.2 8/05 10/22 37 8.1 4 Rutton 33.2 8/05 10/22 37 8.1 4 Rutton 37.3 8/17 10/27 29 5.8 2 Coker 32 37.0 8/15 10/24 27 3.8 1 Rutton 37.3 8/17 10/27 29 5.8 2 Coker 33 35.3 8/14 10/23 29 4.4 8 Ransom 35.3 8/14 10/23 29 4.4 8 Ransom 35.3 8/14 10/26 22 7 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Ransom 35.3 8/14 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Ransom 35.3 8/14 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Ransom 35.3 8/14 10/25 30 5.4 2 Ransom 35.3 8/15 10/24 28 5.4 3 Ransom 35.3 8/15 10/25 31 6.3 2 Ransom 35.3 8/15 10/25 31 6.3 2 Ransom 35.3 8/15 10/24 28 5.4 3 Ransom 35.3 8/15 10/25 31 6.3 2 Ransom 35.3 8/15 10/25 31 6.3 2 Ransom 35.3 8/15 10/24 28 5.4 3 Ransom 35.3 8/15 10/25 30 5.4 2 Ransom 35.3 8/15 10/24 28 5.4 3 Ransom 35.3 8/14 10/25 30 5.4 2 Ransom 35.3 8/15 10/24 28 5.4 3 Ransom 35.3 8/14 10/25 30 5.4 2 Ransom 35.3 8/19 10/25 30 5.4 2 Ransom 35.9 8/19 10/2							2.8
ESSEX 32.1 7/07 9/15 26 3/ Tracy 31.7 7/14 10/13 36 5.6 2 Lancer 30.5 7/20 10/09 38 6.0 1 Forrest 30.3 7/10 9/19 35 4.8 1 Davis 29.7 7/22 10/10 37 5.5 2 Coker 136 28.0 7/17 9/29 39 3/ 1 Mack 26.9 7/11 9/19 68 4.1 2 McNair 500 26.0 7/14 9/26 33 3/ 2 FFR 556 23.6 7/11 10/03 42 6.3 2 Average planting date May 28 Coker 842 38.3 7/30 10/17 34 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Contennial 35.8 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 McNair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 6.1 3 McNair 600 34.1 7/30 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 4.9 3 Fracy 33.8 8/05 10/22 37 8.1 4 Essex 31.4 7/25 10/03 31 5.3 2 Mack 31.1 1 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 8 Average Planting date June 19 Hutton 37.3 8/17 10/24 27 3.8 1 McNair 600 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 38 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/24 27 3.8 6.1 McNair 600 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 38 35.1 8/18 10/31 31 6.8 2 Essex 33.4 8/19 10/25 30 5.4 2 Lace 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Lace 74 33.3 8/15 10/24 28 5.4 3 Coker 33 3.4 8/13 10/25 30 5.4 2 Lace 74 33.3 8/15 10/24 28 5.4 3 Coker 33 3.1 9 8/19 10/26 31 5.6 2							2.8
Tracy 31.7	Centennial						2.9
Lancer 30.5	Essex						1.3
Forrest 30.3 7/10 9/19 35 4.8 1 Davis 29.7 7/22 10/10 37 5.5 2 Coker 136 28.0 7/17 9/29 39 3/ 1 Mack 26.9 7/11 9/19 68 4.1 2 McNair 500 26.0 7/14 9/26 33 3/ 2 FFR 556 23.6 7/11 10/03 42 6.3 2 Average planting date May 28 Coker 842 38.3 7/30 10/17 34 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/30 10/18 34 6.1 3 Rokair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Rutton 33.2 8/05 10/22 37 8.1 Rutton 33.2 8/05 10/22 37 8.1 Rutton 33.2 8/05 10/22 37 8.1 Rutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/20 35 6.4 Average planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/20 27 4.6 Coker 136 35.5 8/13 10/22 27 5.6 1 Rokair 600 35.3 8/14 10/20 27 4.6 Coker 136 35.5 8/13 10/22 27 5.6 1 Rokair 600 35.3 8/14 10/20 27 5.6 1 Rokair 600 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Lancer 35.2 8/16 10/26 29 5.6 1 Lancer 35.2 8/16 10/26 29 5.6 1 Rokair 500 34.5 8/18 10/19 26 4.6 28 6.0 2 Rokair 500 34.5 8/19 10/25 31 6.3 2 Rokair 500 34.5 8/19 10/25 31 6.3 2 Rokair 500 34.5 8/19 10/19 28 4.3 2 Rokair 500 34.5 8/19 10/25 30 5.4 2 Rokair 500 34.5 8/19 10/26 31 5.6 2	Tracy						2.8
Davis 29.7 7/22 10/10 37 5.5 2 Coker 136 28.0 7/17 9/29 39 3/ 1 Mack 26.9 7/11 9/19 68 4.1 2 McMair 500 26.0 7/14 9/26 33 3/ 2 FFR 556 23.6 7/11 10/03 42 6.3 2 **Prescription** **Average planting date May 28** **Coker 842 38.3 7/30 10/17 34 6.0 1 Lancer 37.8 7/31 10/15 35 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Coker 136 36.3 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 McMair 500 34.8 7/26 10/08 32 6.0 2 McMair 500 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Lee 74 34.5 8/00 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Bragg 33.6 8/03 10/21 42 8.0 3 Bragg 33.6 8/03 10/22 42 8.0 3 Bragg 33.6 8/03 10/22 37 8.1 4 Hutton 33.2 8/05 10/22 37 8.1 4 Mack 31.1 7/25 10/03 31 5.3 2 **Average planting date June 19** **Hutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/20 35 6.4 3 **Average planting date June 19** **Hutton 37.3 8/17 10/27 29 5.8 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McMair 600 35.3 8/14 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McMair 600 35.3 8/14 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McMair 600 35.3 8/14 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McMair 600 35.3 8/14 10/20 27 5.6 1 McMair 600 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 28 6.0 1 Coker 338 35.1 8/18 10/31 31 6.8 2 **Essex 33.6 8/09 10/14 20 4.0 1 Essex 33.6 8/15 10/25 30 5.4 2 Lee 74 33.3 8/15 10/26 31 5.6 2	Lancer						1.4
Coker 136	Forrest	30.3					1.9
Mack 26.9 7/11 9/19 68 4.1 2 McNair 500 26.0 7/14 9/26 33 3/ 2 Ayerage planting date May 28 Coker 842 38.3 7/30 10/17 34 6.0 1 Lancer 37.8 7/31 10/15 35 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 McNair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Resor 33.4 7/25 8/00 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 <	Davis	29.7			37		2.5
Mack 26.9 7/11 9/19 68 4.1 2 McNair 500 26.0 7/14 9/26 33 3/ 2 Ayerage planting date May 28 Coker 842 38.3 7/30 10/17 34 6.0 1 Lancer 37.8 7/31 10/15 35 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 McNair 50.0 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 6.1 3 Lee 74 34.5 8/00 10/18 34 6.1 3 McNair 60 34.1 7/30 10/13 36 5.8 2	Coker 136	28.0	7/17	9 /29	39	<u>3/</u>	1.8
McNair 500 26.0 7/14 9/26 33 3/ 2 Average planting date May 28 Coker 842 38.3 7/30 10/17 34 6.0 1 Lancer 37.8 7/31 10/15 35 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 McNair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Ransom 33.6 8/03 10/21 42 8.0 3		26.9	7/11	9/19	6 8		2.9
Average planting date May 28 Coker 842 38.3 7/30 10/17 34 6.0 1 Lancer 37.8 7/31 10/15 35 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/19 38 8.8 Forrest 35.6 7/24 10/07 33 5.9 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.1 7/30 10/18 34 6.1 3 RNAir 600 34.1 7/30 10/13 36 5.8 2 Rragg 33.6 8/03 10/21 42 8.0 3 Rutton 33.2 8/05 10/22 37 8.1 4 Rack 31.1 7/25 9/29 24 4.8 1 Rack 31.1 7/25 10/03 31 5.3 2 Roverage planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 1 Roverage planting date June 19 Hutton 37.3 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 842 37.0 8/15 10/22 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 38 35.5 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/25 39 9.9 5.6 1 Roverage 35.2 8/16 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Resex 33.4 8/13 10/19 28 4.3 2 Resex 33.6 8/09 10/14 20 4.0 1 Resex 33.6 8/19 10/19 28 4.3 2 Resex 33.6 8/19 10/24 28 5.4 2 Resex 33.9 8/15 10/24 28 5.4 3 Resex 33.9 8/19 10/24 28 5.4 2 Resex 33.9 8/19 10/26 31 5.6 2		26.0	7/14	9/26	33	3/	2.1
Coker 842 38.3 7/30 10/17 34 6.0 1 Lancer 37.8 7/31 10/15 35 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/10 35 8.8 8.8 2 Centennial 35.8 7/29 10/10 33 5.9 2 McNair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.1 7/30 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Bragg 33.6 8/03 10/21 42 8.0 3 Hutton 33.2 8/05 10/22 37 8.1 4 Mack 31.1 7/25 9/29 24 4.8 1 Mack 31.1 7/25 9/29 24 4.8 1 Mack 31.1 7/25 10/03 31 5.3 2 Moreage Planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/20 35 6.4 3 Average Planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Rragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Coker 338 35.1 8/18 10/31 31 6.8 Rragg 35.0 8/15 10/25 30 5.4 2 Davis 31.9 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6	FFR 556	23.6	7/11	10/03	42	6.3	2.1
Coker 842 38.3 7/30 10/17 34 6.0 1 Lancer 37.8 7/31 10/15 35 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/19 38 8.8 2 Centennial 35.8 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 McNair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 6.1 3 McNair 600 34.1 7/30 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Bragg 33.6 8/03 10/21 42 8.0 3 Hutton 33.2 8/05 10/22 37 8.1 4 Essex 31.4 7/25 9/29 24 4.8 1 Mack 31.1 7/25 10/03 31 5.3 2 Mack 31.1 7/25 10/03 31 5.3 2 More Planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/20 35 6.4 3 Average Planting date June 19 Hutton 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/26 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/26 29 5.6 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Coker 338 35.1 8/18 10/31 31 6.8 Bragg 35.0 8/15 10/25 30 5.4 2 Davis 31.9 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6	S				·		
Coker 136 36.3 7/29 10/10 35 7.4 1 Coher 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 McNair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 8/00 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Bragg 33.6 8/03 10/21 42 8.0 3 Bragg 33.6 8/03 10/21 42 8.0 3 Bragg 33.6 8/05 10/22 37 8.1 4 Mack 31.1 7/25 9/29 24 4.8 1 Mack 31.1 7/25 9/29 24 4.8 1 Mack 31.1 7/25 10/03 31 5.3 2 Mack 31.1 7/25 10/03 31 5.3 2 Coker 842 37.0 8/15 10/20 35 6.4 3 Average Planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker 136 35.5 8/13 10/22 27 3.8 1 McNair 600 35.3 8/14 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Lancer 35.2 8/16 10/26 29 5.6 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/26 28 6.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6			Aye	rage planting	date May 28		
Lancer 37.8 7/31 10/15 35 6.0 2 Coker 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/10 35 7.4 1 Forrest 35.6 7/24 10/07 33 5.9 2 McNair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Ransom 34.7 7/31 10/21 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Bragg 33.6 8/03 10/21 42 8.0 3 Bragg 33.6 8/03 10/21 42 8.0 3 Hutton 33.2 8/05 10/22 37 8.1 4 Mack 31.1 7/25 9/29 24 4.8 1 Mack 31.1 7/25 9/29 24 4.8 1 Mack 31.1 7/25 10/03 31 5.3 2 More and a second a s	Coker 842	38.3	7/30	10/17	34	6.0	1.9
Coker 136 36.3 7/29 10/10 35 7.4 1 Centennial 35.8 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 McNair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Lee 74 34.5 8/00 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Bragg 33.6 8/03 10/21 42 8.0 3 Hutton 33.2 8/05 10/22 37 8.1 4 Essex 31.4 7/25 9/29 24 4.8 1 Mack 31.1 7/25 10/03 31 5.3 2 Mack 31.1 7/25 10/03 31 5.3 2 Mack 31.1 7/25 10/03 31 5.3 2 Resex 30.3 8/15 10/20 35 6.4 3 Average Planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2					35	6.0	2.3
Centennial 35.8 7/29 10/19 38 8.8 2 Forrest 35.6 7/24 10/07 33 5.9 2 McNair 500 34.9 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Lee 74 34.5 8/00 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Bragg 33.6 8/05 10/21 42 8.0 3 Hutton 33.2 8/05 10/22 37 8.1 4 Essex 31.4 7/25 9/29 24 4.8 1 Mack 31.1 7/25 10/03 31 5.3 2 Mack 31.1 7/25 10/03 31 5.3 2 Davis 30.3 8/15 10/20 35 6.4 3 Average Planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/20 35 6.4 3 Average Planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 Eragg 33.4 8/13 10/19 28 4.3 2 Eraey 33.6 8/09 10/14 20 4.0 1 Eraey 33.4 8/13 10/19 28 4.3 2 Eraey 33.6 8/09 10/14 20 4.0 1 Eraey 33.4 8/13 10/19 28 4.3 2 Eraey 33.6 8/19 10/26 31 5.6						7.4	1.6
Forrest 35.6 7/24 10/07 33 5.9 2 McNair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Lee 74 34.5 8/00 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Bragg 33.6 8/03 10/21 42 8.0 3 Hutton 33.2 8/05 10/22 37 8.1 4 Essex 31.4 7/25 9/29 24 4.8 1 Mack 31.1 7/25 10/03 31 5.3 Davis 30.3 8/05 10/20 35 6.4 3 Average planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Lancer 35.2 8/16 10/26 29 5.6 1 Lancer 35.2 8/16 10/25 31 6.3 2 Bragg 35.0 8/15 10/25 31 6.3 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Loe 74 33.9 8/19 10/26 31 5.6						8.8	2.4
McNair 500 34.8 7/26 10/08 32 6.0 2 Ransom 34.7 7/31 10/21 34 7.0 2 Lee 74 34.5 8/00 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Bragg 33.6 8/03 10/21 42 8.0 3 Hutton 33.2 8/05 10/22 37 8.1 4 Hutton 33.1 7/25 9/29 24 4.8 1 Back 31.1 7/25 9/29 24 4.8 1 Back 31.1 7/25 10/03 31 5.3 2 Bavis 30.3 8/05 10/20 35 6.4 3 Average planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 Ransom 35.3 8/14 10/23 29 4.4 Ransom 35.3 8/16 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Davis 31.9 8/19 10/26 31 5.6						5.9	2.3
Ransom 34.7 7/31 10/21 34 7.0 2 Lee 74 34.5 8/00 10/18 34 6.1 3 McNair 600 34.1 7/30 10/13 36 5.8 2 Tracy 33.8 7/27 10/13 36 4.9 3 Bragg 33.6 8/03 10/21 42 8.0 3 Hutton 33.2 8/05 10/22 37 8.1 4 Mack 31.1 7/25 9/29 24 4.8 1 Mack 31.1 7/25 10/03 31 5.3 2 Bavis 30.3 8/05 10/20 35 6.4 33 Average planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker' 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 Ransom 35.3 8/14 10/23 29 4.4 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Davis 31.9 8/19 10/26 31 5.6						6.0	2.4
Hutton 37.3 8/17 10/27 29 5.8 2 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Lancer 35.0 8/15 10/26 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.4 8/13 10/19 28 4.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/19 10/26 31 5.6 2						7.0	2.3
McNair 600 34.1 7/30 10/13 36 5.8 22 Tracy 33.8 7/27 10/13 36 4.9 33 Bragg 33.6 8/03 10/21 42 8.0 33 Hutton 33.2 8/05 10/22 37 8.1 4 Essex 31.4 7/25 9/29 24 4.8 1 Mack 31.1 7/25 10/03 31 5.3 Davis 30.3 8/05 10/20 35 6.4 **Average planting date June 19** **Hutton 37.3 8/17 10/27 29 5.8 2 Coker 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2						6.1	3.6
Tracy 33.8 7/27 10/13 36 4.9 37 Bragg 33.6 8/03 10/21 42 8.0 37 Bragg 33.6 8/05 10/22 37 8.1 4 Essex 31.4 7/25 9/29 24 4.8 12 Mack 31.1 7/25 10/03 31 5.3 27 Bavis 30.3 8/05 10/20 35 6.4 37 Bavis 30.3 8/17 10/27 29 5.8 2 Coker' 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 27 Avenage 10/23 29 4.4 20 Avenage 10/23 29 4.4 20 Avenage 10/23 29 4.4 20 Avenage 10/24 28 6.0 1 1 Lancer 35.2 8/16 10/26 28 6.0 1 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 1 Lee 74 33.3 8/15 10/24 28 5.4 3 1 Lee 74 33.3 8/15 10/24 28 5.4 3 1 Lee 74 33.3 8/15 10/24 28 5.4 3 1 Dours 31.9 8/19 10/26 31 5.6 2						5.8	`2.9
Bragg 33.6 8/03 10/21 42 8.0 38 14 41 10/23 29 4.4 28 14 10/23 37 8.1 14 10/26 28 6.0 38 14 10/22 37 8.1 29 14 14 10/26 28 15.0 15 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	•					4.9	3.0
Hutton 33.2 8/05 10/22 37 8.1 4 Essex 31.4 7/25 9/29 24 4.8 1 Mack 31.1 7/25 10/03 31 5.3 2 Davis 30.3 8/05 10/20 35 6.4 3 Average planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker' 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Tracy 33.4 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6							3.5
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Mack 31.1 7/25 10/03 31 5.3 2 Davis 30.3 8/05 10/20 35 6.4 3 Average planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker' 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6						4.8	1.1
Average planting date June 19 Average planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker' 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6							2.8
Average planting date June 19 Hutton 37.3 8/17 10/27 29 5.8 2 Coker' 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6							3.0
Hutton 37.3 8/17 10/27 29 5.8 2 Coker'842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6	Davis	30.0					
Coker' 842 37.0 8/15 10/24 27 3.8 1 Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/19 10/26 31 5.6 2 </td <td>77</td> <td>27 2</td> <td></td> <td></td> <td></td> <td></td> <td>2.4</td>	77	27 2					2.4
Forrest 36.4 8/11 10/20 27 4.6 2 Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6							1.4
Coker 136 35.5 8/13 10/22 27 5.6 1 McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 I.ee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2							2.1
McNair 600 35.3 8/14 10/23 29 4.4 2 Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 I.ee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2							1.6
Ransom 35.3 8/14 10/26 28 6.0 1 Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2							2.4
Lancer 35.2 8/16 10/26 29 5.6 1 Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 I.ee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2			•				
Coker 338 35.1 8/18 10/31 31 6.8 2 Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 I.ee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2				•			1.6
Bragg 35.0 8/15 10/25 31 6.3 2 McNair 500 34.5 8/12 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2							1.8
McNair 500 34.5 8/12 . 10/19 26 4.6 2 Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2							2.8
Essex 33.6 8/09 10/14 20 4.0 1 Tracy 33.4 8/13 10/19 28 4.3 2 Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2							2.4
Tracy 33.4 8/13 10/19 28 4.3 2 I.ee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2							2.1
Lee 74 33.3 8/15 10/24 28 5.4 3 Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2							1.3
Centennial 33.0 8/13 10/25 30 5.4 2 Davis 31.9 8/19 10/26 31 5.6 2							2.6
Davis 31.9 8/19 10/26 31 5.6 2							3.1
0.100							2.3
Mack 29.6 07.10 10/14 26 4.1 2							2.8
	Mack	29.6	3/ LU	10/14	20	4.1	2.9

^{1/}Yield adjusted to 13% moisture and 60 pounds per bushel.

 $[\]frac{2}{\Lambda}$ n explanation of data and ratings is given on page 3 of this report. $\frac{3}{N}$ no data taken.

Table 7. Three-Year Averages for Yield, Date of Maturity, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted at Three Dates on Sand Mountain, 1975 through 1977

Versions	Yield1/	1st bloom <u>2</u> /	Maturity <u>2</u> /	Plant ht. <u>2</u> /	Ht. 1st	Todas
Variety	Tielu-					Lodging
•	Bu/A	Dates	Dates Avera	In. age plantin	In. ng date May 3	Rating
Coker 842	34.0	7/15	10/09	34	5.8	1.8
Hutton	32.9	7/23	10/18	38	6.6	3.5
Essex	32.7	7/06	9/17	26	$6.0\frac{3}{4}$	1.2
McNair 600	31.9	7/15	10/12	38	6.6	2.5
Tracy	31.2	7/12	10/11	36	5.9	2.3
FFR 666	31.1	7/16	10/11	32	5.7	2.2
Lee 74	30.8	7/17	10/11	34	6.5	2.4
Bragg	30.3	7/21	10/18	42	7.8	2.7
Lancer	29.5	7/19	10/10	38	6.9	1.3
Davis	29.1	7/23	10/11	38	6.8	2.6
Centennial	28.9	7/15	10/14	39	7.8	2.5
Forrest	28.3	7/08	9/21	. 35	5.2	1.9
Coker 136	26.7	7/15	10/01	38	9.03/	1.6
Mack	26.6	7/13	9/21	57	4.8	2.9
Mack	20.0	17:09				7
Coker 842	36.0	7/29	10/14	35	6.1	2.0
	34.4	7/29	10/14	35 35	7.7	2.3
Ransom	34.0	7/28	10/20	33 37	7.7 7.8	1.8
Coker 136		•				
Hutton	33.7	8/05	10/20	39	8.1	4,2
Tracy	33.6	7/27	10/14	37	5.5	2.8
Lee 74	33.0	7/30	10/14	34	6.1	3.6
McNair 600	32.7	7/29	10/12	36	5.8	2.8
Forrest	32.6	7/25	10/05	34	5.9	2.3
Bragg	32.4	8/03	10/20	42	8.3	3.3
Centennial	31.6	7/28	10/16	39	8.3	2.2
Davis	30.9	8/05	10/18	36	6.6	2.9
Essex	30.0	7/21	9/28	25	5.3	1.1
Mack	27.9	7/25	10/03	33	5.7	2.6
					ng date June	
Hutton	35.5	8/17	10/26	31	7.3	2.7
Coker 842	34.9	8/14	10/20	30	5.3	2.2
Bragg	34.3	8/15	10/25	33	6.6	2.6
Ransom	33.9	8/15	10/25	31	9.3	2.0
Coker 136	33.4	8/13	10/19	. 30	6.6	2.2
Lancer ·	33.1	8/16	10/23	32	6.2	2.2
Forrest	33.0	8/10	10/16	31	6.5	2.6
Tracy	32.2	8/12	10/18	31	5.5	2.8
McNair 600	32.2	8/13	10/20	32	5.5	2.7
Essex	32.1	8/08	10/10	24	5.5	1.8
Lee 74	31.7	8/15	10/20	29	6.4	3.3
Davis	31.2	8/19	10/23	32	6.6	2.9
Centennial	30.7	8/12	10/20	32	6.2	2.6
Mack	27.9	8/09	10/12	30	5.2	3.1

^{1/}Yield adjusted to 13% moisture and 60 pounds per bushel.

 $[\]overline{2}/\text{An}$ explanation of data and ratings is given on page 3 of this report. $\overline{3}/\text{Average}$ pod height for 1975 through 76.

Table8. Four-Year Averages for Yield, Date of Maturity, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted at Three Dates at Sand Mountain Substation, 1974 through 1977

	-1/	lst 2/		Plant	Ht. 1st	
Variety	Yield1/	bloom2/	Maturity2/	ht. 2/	pod2/	Lodging
	Bu/A	Dates	Dates	In.	In.	Rating
					g date May 4	
Essex	35.8	7/07	9/19	26	6.04/	1.1
Tracy	34.3	7/12	10/09	36	5.6	3.0
Lee 74	33.4	7/18	$10/11\frac{3}{}$	35	7.4	2.4
FFR 666	32.8	7/15	10/08	32	5.9	2.2
McNair 600	32.7	7/15	10/09	38	6.9	2.8
Forrest	32.2	7/09	9/24	36	5.6	2.5
Hutton	32.2	7/26	$10/19\frac{3}{2}$	38	7.5	3.4
Bragg	31.4	7/23	$10/18\frac{3}{2}$	43	8.1	3.2
Davis	30.9	7/25	$10/11\frac{3}{}$	39	6.8,,	3.2
Coker 136	30.5	7/17	10/00	40	$3.0^{4/}$	2.2
		•	Aver	age plantin	g date May 2	7
Ransom	34.6	8/01	$10/20\overline{3}/$	36	7.5	2.6
Coker 136	33.4	8/00	$\frac{10}{10}$	37	7.9	2.0
Tracy	33.2	7/29	$10/14\overline{3}/$	36	5.7	3.0
Lee 74	33.0	8/02	$10/15\frac{3}{3}$	34	6.3	3.6
Forrest	32.8	7/26	10/04	35	6.1	2.7
McNair 600	32.5	8/01	$10/13\frac{3}{3}$	36	6.1	3.2
Hutton	32.2	8/07	$\frac{10}{21}\frac{3}{4}$	38	8.0	4.1
Essex	31.7	7/24	9/28,	26	5.9	1.3
Bragg	31.4	8/04	$10/20\frac{3}{2}$	41	8.0	3.2
Davis	30.5	8/07	10/183/	36	6.6	3.1.
David .	3013	0,0.	Aver		g date June	
Essex	32.1	8/11	$10/11\overline{3/}$	25	5.6	2.0
Coker 136	31.0	8/15	$10/18\overline{3}/$	31	7.0	2.4
Bragg	30.9	8/17	$10/25\overline{3}/$	34	7.3	2.7
Forrest	30.5	8/12	10/16 ³ /	32	6.8	2.8
Ransom	30.3	8/16	$10/24\frac{3}{4}$	31	8.6	2.5
Tracy	30.2	8/14	$\frac{10/17\overline{3}}{3}$	32	5.7	3.0
Hutton	30.1	8/18	$10/26\frac{3}{2}$. 30	6.9	3.0
McNair 600	29.9	8/15	$\frac{10/213}{1}$	33	5.6	2.8
Lee 74	28.5	8/17	$10/20^{\frac{3}{3}}$	29	6.9	3.6
Davis	27.5	8/19	10/233/	32	6.6	2.9

 $[\]frac{1}{\text{Yield}}$ adjusted to 13% moisture and 60 pounds per bushel. $\frac{2}{\text{An}}$ explanation of data and ratings is given on page of this report. $\frac{3}{\text{Average}}$ maturity for 1973, 1975, and 1976; frost killed soybeans on October 3, 1974. $\frac{4}{\text{Average}}$ pod height for 1974 through 1976.

Table 9. Five-Year Averages for Yield, Date of Maturity, Plant and First Pod Height, and Lodging of Soybean Varieties Planted at Three Dates at Sand Mountain Substation, 1973 through 1977

37 i o +	Yield1/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st $pod^{2}/$	Tadaina
Variety	Bu/A		In.	In.	Lodging Rating
. "	bu/A	Dates			Kating
Facor	35.1			ng date May 6	
Essex		9/19	24	5.0 <u>4</u> /	1.1
Tracy	34.2	10/08	34	4.8	2.8
Lee 74	32.9	10/11 3/	34	6.6	2.1
McNair 600	32.7	10/07	36	5.9	2.5
Forrest	32.4	9/23	33	4.8	2.2
Bragg	31.8	$10/17\frac{3}{2}$	41	6.9	2.8
Davis	31.7	10/09 <u>3</u> /	37	5.7,	2.9
Coker 136	31.4	9/29	37	7.0 <u>4</u> /	2.0
	,			ng date May 26	
Ransom	33.8	$10/19\frac{3}{9}$	35	6.7	2.3
Coker 136	33.6	$10/08\frac{3}{2}$	37	7.1	1.8
Tracy	33.4	10/12 <u>3</u> /	35	4.9	2.8
Forrest	33.2	10/02	34	5.5	2.4
McNair 600	32.8	10/08 <u>3</u> /	35	5.4	2.9
Hutton	32.5	$10/22\frac{3}{2}$	36	6.9	3.7
Lee 74	32.4	$10/14\frac{3}{2}$	33	5.7	3.3
Essex	32.2	9/26	25	5.1	1.3
Bragg	31.3	$10/19\frac{3}{3}$	40	7.1	2.8
Davis	30.2	$10/16\frac{3}{}$	36	5.9	2.9
		Aver		ng date June 2	
Essex	32.7	$10/\overline{083}$	25	5.4	1.8
Bragg	32.5	$10/24\frac{3}{3}$	35	7.4	2.6
Hutton	31.8	$10/26\frac{3}{2}$	30	7.0	2.8
Ransom	31.4	$10/24\frac{3}{3}$	13	8.1	2.2
Coker 136	31.3	$10/16\frac{37}{2}$	31	6.9	2.2
Forrest	31.0	$10/13\frac{3}{3}$	32	6.4	2.7
McNair 600	30.3	$10/18\frac{3}{}$	33	5.2	2.5
Davis	29.1	$10/24^{3/}$	33	6.8	2.6
Lee 74	28.8	10/203/	30	6.9	3.6

 $^{1/\}text{Yield}$ adjusted to 13% moisture and 60 pounds per bushel. 2/An explanation of data and ratings is given on page 3 of this report. 3/Average maturity for 1973, 1975, and 1977; frost killed soybeans on October 3, 1974.

^{4/}Average pod height for 1973-through 1976.

Table 10. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties when Planted May 5, 1977, at Tennessee Valley Substation

**	Yield1/	lst bloom2/	Maturity2/	Plant2/	Ht. 1st	Lodging2/
Variety	rieid-	DTOOII-	Maturity-	ht.		Louging—
	Bu/A	Dates	Date	In.	In.	Rating
Coker 842	24.2 a	7/07	10/18	37	4.0	1.5
Lee 74	21.4 ab	7/10	10/16	33	2.8	2.0
Green Soy 74-64	21.0 abc	7/04	10/15	42	3.5	1.5
McNair 600	20.8 abc	7/05	10/15	41	4.0	1.5
Centennial	20.8 abc	7/06	10/15	41	4.8	1.6
FFR 667	20.8 abc	7/10	10/15	37	4.3	1.5
N-K Blend	20.2 bcd	7/02	9/17	33	5.3	1.9
FFR 557	20.1 bcd	7/09	10/13	41	3.8	1.5
D&PL 5	19.6 bcde	7/08	10/15	38	3.5	1.9
Essex	19.5 bcde	7/03	9/15	27	6.3	1.6
FFR 666	18.6 bcdef	7/09	10/15	32	2.8	1.8
Bragg	18.5 bcdef	7/10	10/16	43	4.8	1.9
Mack	18.5 bcdef	7/08	9/16	33	5.8	2.6
RA 602	18.2 bcdefg	7/01	10/15	35	3.3	1.6
Tracy	18.0 bcdefg	7/05	10/15	38	3.5	2.0
Lancer	17.7 bcdefg	7/07	10/14	36	3.8	1.3
Hutton	17.4 cdefgh	7/15	10/21	42	2.8	2.1
RA 526	16.9 i defgh	7/05	9/13	31	5.0	2.4
Forrest	16.8 i defgh	7/06	9/14	33	6.5	1.6
D&PL 154	16.4 i efgh	7/12	10/10	37	4.3	1.4
N-K Entry 30	15.9 i efgh	7/04	10/15	39	3.0	1.3
RA 501	15.6 i fgh	7/04	9/19	36	5.5	1.8
Coker 136	15.5 i fgh	7/06	9/20	39	8.0	2.0
McNair 500	15.1 i fgh	7/02	9/21	37	5.8	2.9
FFR 556	14.7 i gh	7/01	10/01	42	4.8	1.3
McNair 3161	14.6 i gh	7/12	10/07	37	5.5	2.0
Davis	13.9 i h	7/10	10/13	40	5.0	1.3
RA(a) 23	13.6 i	7/07	9/22	36	5.5	3.4
RA 601	9.2 j	7/03	9/24	50	6.3	1.5
C.V.%	12.4					

 $[\]frac{1}{1}$ Yield 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 3 of this report.

Tablell . Two and Three Year Averages for Yield, First Bloom and Maturity Dates and Plant Height and Lodging of Soybean Varieties Planted at Tennessee Valley Substation, 1976 through 1977 and 1975 through 1977 respectively

Viotz	Yield1/	1st Bloom2/	Maturity2/	Plant ht. <u>2</u> /	Lodging2/
Variety	Bu/A	Dates	Dates	In.	Rating
· •	bu/A		average planting		
Coker 842	31.5	7/14	10/15	14	2.2
Lee 74	30.9	7/17	10/13	36	2.4
	30.6	7/06	9/23	30	1.4
Essex McNair 600	30.4	7/12	10/12	41	2.4
Centennial	29.5	7/13	10/12	43	2.7
	29.2	7/13 7/17	10/15	45	2.8
Bragg	28.8	7/17 7/15	10/13	40	1.8
Lancer	28.3	7/13 7/11	9/26	39	2.9
McNair 500	27.5	7/11	9/23	36	1.8
Forrest	27.3	7/15	10/11	36 35	2.1
FFR 666		7/13 7/20	10/11	42	3.2
Hutton	26.9	7/20 7/11	10/19	42	2.8
Tracy	26.5	7/11 7/12	9/23	40 37	2.6
Mack	26.2	7/12	10/04	46	1.8
FFR 556	25.2	7/08	9/27	40 42	1.9
Coker 136	24.9	7/13 7/19	10/11	42 41	2.4
Davis	24.0		average planti		
T"1	/ 1 1				
Essex	41.1	7/07	9/26	31	1.3
Bragg	37.1	7/18	10/16	46	3.2
Coker 842	37.0	7/13	10/13	41	2.4
McNair 600	36.3	7/11	10/10	42	3.0
Centennial	36.3	7/12	10/13	44	3.1
Lee 74	36.2	7/14	10/12	37	2.5
Tracy	36.1	7/10	10/10	41	2.8
Lancer	35.9	7/15	10/09	42	2.1
Forrest	35.6	7/09	9/26	36	1.8
FFR 666	35.2	7/14	10/10	34	2.1
Mack	34.9	7/11	9/26	37	2.8
FFR 556	32.2	7/08	10/03	52	2.9
Hutton	31.4	7/20	10/21	43	3.6
Davis	30.8	7/19	10/10	43	3.1
Coker 136	30.6	7/12	9/29	43	. 2.1

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

 $[\]overline{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 12. Four and Five-Year Averages for Yield, First Bloom and Maturity Dates, Plant Height, and Lodging of Soybean Varieties at Tennessee Valley Substation, 1974 through 1977 and 1973 through 1977 respectively

1	1/	lst ,	0.1	Plant	- •
Variety	Yield $\frac{1}{}$	bloom3/	Maturity3/	ht. <u>3</u> /	Lodging3/
		Four-year	average planting	date May	5
Essex	43.2	7/08	9/26	30	1.3
Tracy	38.1	7/10	$10/08^{2}$	41	3.0
Forrest	38.0	7/10	9/27	36	2.1
McNair 600	36.5	7/11	$10/10^{2}$	41	3.0
Lee 74	36.2	7/15	10/19 <u>2</u> /	36	2.9
Bragg	35.7	7/20	$10/17\frac{2}{}$	46	3.5
FFR 666	35.3	7/14	10/10 <u>2</u> /	33	2.3
Coker 136	32.6	7/13	10/01	43	2.1
Hutton	31.8	7/21	$10/21\frac{2}{}$	42	3.8
Davis	30.8	7/21	$10/05\frac{2}{}$	43	3.5
		Five-year	average planting	date May	6
Essex	46.1	7/08	9/26	31	1.4
Forrest	42.2	7/10	9/27	35	2.1
McNair 600	38.6	7/12	10/104/	40	3.1
Lee 74	38.5	7/15	$10/08\frac{4}{4}$	36	3.1
FFR 666	37.6	7/14	$10/09\frac{4}{1}$	34	2.4
Bragg	37.6	7/20	$10/15^{4/}$	45	3.6
Coker 136	37.2	7/14	9/30	42	1.9
Hutton	34.6	7/22	$10/20\frac{4}{}$	42	3.9
Davis	33.9	7/21	$10/11\frac{4}{}$	42	3.7

 $[\]frac{1}{2}$ Yields adjusted to 13% moisture and 60 pounds per bushel. $\frac{2}{2}$ Maturity date for 1975-77; frost killed soybeans October 3, 1974.

 $[\]frac{3}{4}$ An explanation of data and ratings is given on page 3 of this report. $\frac{4}{4}$ Maturity date of 1973, 1975, and 1976 and 1977; frost killed soybean October $\overline{3}$, 1974.

Table 13. Yield, First Bloom and Maturity Dates, Plant&First Pod Heights, Lodging, Shattering, Seed Quality, Purple Stain, and Seed Size of Soybean Varieties when Planted May 10, 1977, at Upper Coastal Plain Substation

17	··· · · · · · · · · · · · · · · · · ·	1st bloom ² /	M2/	Plant ht. <u>2</u> /	Ht. 1st	I - 1-1-2/	Sharpania 2/	Seed Quality	Purple Stain	Seed size
Variety	Yield1/		Maturity ² /			Lodging2/	Shattering ² /	Rating	Rating	g/100 see
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	Rating	Kating	g/100 See
Coker 842	31.8 a	7/16	10/16	31	3.0	1.3	1.8	2	1	12.5
D&PL 5	30.6 ab	7/16	10/19	37	<u>4</u> /	2.3	1.8	1	2	13.7
D&PL 154	30.6 ab	7/16	10/02	33	$\frac{-}{5}$.8	1.5	1.0	1	2	13.3
McNair 600	30.4 ab	7/15	10/07	35	6.0	1.3	1.0	3	2	12.8
FFR 557	29.0 abc	7/15	9/28	34	6.8	1.8	1.0	1	2	12.7
Bragg	28.8 abc	7/20	10/22	38	$7.0\frac{3}{4}$	2.5	1.3	1	1	14.3
Hutton	28.6 abc	7/20	10/26	38	$5.0\frac{3}{1}$	2.5	1.8	2.5	1	16.1
Lee 74	28.4 abc	7/19	10/14	32	4.0 <u>3</u> /	2.5	2.0	2	1	12.4
McNair 3161	28.1 abc	7/15	9/29	31	5.5	1.5	1.0	1	2	12.9
Davis	27.9 abc	7/17	10/04	36	6.8	1.5	1.5	2	2	14.2
FFR 666	27.9 abc	7/15	10/13	27	6.0	1.8	1.0	3	. 1	12.5
FFR 667	26.9 abc	7/16	10/19	36	4/ ,	2.0	1.8	2	1	15.0
Centennial	26.1 abcd	7/15	10/17	36	7.0 <u>3</u> /	1.3	1.0	1.5	1	14.9
Coker 136	25.5 abcde	7/14	9/21	34	6.0	1.3	1.0	1.5	2	12.0
Lancer	25.3 abcde	7/16	10/05	34	6.3	1.5	1.8	3	2	15.8
RA 602	25.2 abcde	7/14	10/06	32	5.0	1.8	2.0	3	2	14.0
Green Soy 74-64	23.7 abcdef	7/16	10/15	37	4/	2.0	2.0	2	1	15.0
N-K Blend	23.6 abcdef	7/13	9/16	30	<u>4/</u> 4.5	1.0	1.0	2.5	1	10.8
Tracy	23.4 abcdef	7/15	10/11	32	5.0	2.0	1.3	2.5	2	15.5
FFR 556	23.4 abcdef	7/14	9/27	51	5.5	2.3	1.0	2	2	14.2
N-K Entry 30	22.0 bcdef	7/16	10/12	32	3.0	1.5	1.5	3	2	13.6
Mack	20.5 cdef	7/14	9/14	30	4.5	1.8	1.0	2	2	10.9
Forrest	19.7 cdef	7/14	9/16	32	5.5	1.0	1.0	3	2	9.5
Essex	17.4 def	7/14	9/14	23	3.8	1.3	1.8	3	2	9.9
McNair 500	17.3 def	7/14	9/23	29	5.5	1.3	1.0	2.5	1	9.7
RA(a) 23	16.3 ef	7/13	9/16	29	3.8	2.3	1.0	2.5	2	9.1
RA 526	16.2 ef	7/13	9/14	26	5.3	1.3	1.0	3.5	2	11.0
RA 501	15.6 f	7/13	9/17	37	4.0	2.5	2.5	4	2	11.6
RA 601	15.4 f	7/14	9/22	51	6.8	2.3	1.0	2.5	3	11.7
C.V. %	22.9									

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

 $[\]overline{2}$ /An explanation of data and ratings is given on page 3 of this report.

^{3/}Height of 1st pod for 1976 only.

^{4/}No data taken.

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Table 14. Yield, First Bloom and Maturity Dates, Plant Heights, Lodging, Shattering, Seed Quality, Purple Stain, and Seed Size of Soybean Varieties when Planted June 10, 1977, at Upper Coastal Plain Substation

Variety	Yield $\frac{1}{}$	1st bloom2/	Maturity2/	Plant ht2/	Lodging2/	Shattering ² /	Seed quality	Purple stain	Seed size
variety	Bu/A	Dates	Dates	In.	Rating	Rating	Rating	Rating	g/100 seed
Lancer	26.6 a	8/06	10/17	36	2.5	2.8	3	1	17.4
Coker 842	25.6 ab	8/05	10/25	33	2.3	2.5	2	1	13.3
Ga. Soy 17	24.5 ab	8/08	10/31	41	3.0	2.5	2	1	18.5
Ransom	24.0 ab	8/07	10/29	35	2.8	2.3	2	1	16.7
Coker 338	22.9 ab	8/08	10/31	38	3.0	1.8	2	1	15.5
Hutton	22.5 ab	8/08	10/29	37	3.5	2.3	2	1	16.8
Centennial	22.2 ab	8/04	10/23	36	2.8	1.8	2	1	12.9
Bragg	21.6 ab	8/07	10/27	42	3.0	2.3	3	1	14.9
Essex	21.6 ab	8/02	9/30	22	1.5	1.0	1	1	10.1
Davis	21.5 ab	8/06	10/18	38	3.5	3.0	2	1	15.5
McNair 800	21.0 ab	8/08	10/29	34	3.0	2.8	2	1	12.0
FFR 556	20.9 ab	8/02	10/11	39	3.0	2.8	2	2	17.6
Lee 74	20.6 ab	8/07	10/21	30	3.0	2.3	1	1	13.4
McNair 500	20.6 ab	8/02	9/30	28	1.3	1.0	1	1	11.3
Forrest	19.3 ab	8/02	9/30	28	1.8	1.0	2	3	11.9
McNair 600	18.7 ab	8/05	10/17	33	3.0	2.8	1	1	13.4
Mack	17.4 ab	8/03	9/30	28	1.5	1.0	1	1	13.0
Coker 136	16.9 ab	8/02	9/30	28	2.8	2.8	3	2	11.7
Tracy	16.7 ab	8/03	10/13	34	3.5	2.8	2	1	17.0
FFR 666	15.3 b	8/04	10/16	26	1.5	1.3	2	1	12.8
C.V.%	29.1								

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 3 of this report.

Table 15 Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted May 15 on Upper Coastal Plain Substation 1976 through 1977

Variety	Yield1/	1st bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering2/	
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	
McNair 600	37.4	7/20	10/08	37	5.8	1.8	1.0	
Coker 842	35.4	7/21	10/12	35	3.9	1.2	1.4	
Bragg	34.8	7/25	10/16	42	$7.0\frac{3}{4}$	3.1	1.1	
Lee 74	34.0	7/22	10/11	33	4.0 <u>3</u> /	2.9	1.5	
Hutton	33.6	7/26	10/20	38	5.4	3.6	1.4	
Davis	33.5	7/25	10/05	37	6.0	1.8	1.3	
Forrest	31.2	7/17	9/25	34	5.0	1.9	1.0	
FFR 666	31.1	7/20	10/09	31	5.4	1.9	1.0	
Tracy	30.8	7/18	10/14	35	4.9	2.8	1.1	
FFR 556	30.5	7/17	10/01	48	5.9	2.5	1.0	
Coker 136	30.4	7/20	9/27	36	6.5	1.3	1.0	
Lancer	30.0	7/22	10/05	37	6.3	1.3	1.4	
Centennial	29.8	7/20	10/13	38	$7.0\frac{3}{7}$	1.5	1.0	•
Mack	29.2	7/17	9/24	33	4.0	2.8	1.0	
Essex	28.6	7/18	9/24	26	4.1	1.4	1.4	
McNair 500	26.0	7/18	9/28	33	5.1	1.8	1.0	

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

 $[\]overline{2}/An$ explanation of data and ratings is given on page 3 of this report.

 $[\]frac{3}{1976}$ average pod heights for early planting date.

Table 16 Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted June 18 at Upper Coastal Plains Substation 1976 through 1977

Variety	Yield1/	1st bloom ² /	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering2/	
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	
Coker 842	25.9	8/10	10/19	33	6 n3/	1.6	1.8	
Essex	25.7	8/06	10/13	22 ·	$\frac{6.03}{3.03}$	1.3	1.0	
Coker 338	25.2	8/13	10/29	38	$7.0\frac{3}{3}$	2.8	1.4	•
	24.3	8/12	10/23	34	$4.0\overline{3}$ /	1.8	1.9	
Lancer		8/06	10/13	30	$\frac{4.0}{5.03}$	1.4	1.0	
Forrest	23.8	8/06	10/03	30	$\frac{3.03}{2.03}$	1.9	1.0	
Mack	23.6	8/12	10/03	31	4.03/	2.8	1.6	
Lee 74	23.2		10/23	34	$5.0\frac{3}{5}$		1.6	
Ransom	23.1	8/13			$\frac{3.05}{4.03}$	2.1		
McNair 500	22.9	8/06	10/02	29	$\frac{4.027}{7.03}$	1.4	1.0	
Centennial	21.9	8/09	10/18	35	$\frac{7.037}{37}$	2.1	1.4	
McNair 600	21.7	8/08	10/14	33	$\frac{4.0\frac{3}{4}}{1.0\frac{3}{4}}$	2.1	1.9	
Hutton	21.5	8/14	10/24	36	$5.0\frac{3}{3}$	3.1	1.6	
Bragg	21.3	8/13	10/22	41	$7.0\frac{3}{3}$	3.8	1.6	
Coker 136	21.1	8/08	10/05	32	$6.0\frac{3}{2}$	2.1	1.9	
Tracy	18.3	8/07	10/10	33	$4.0\frac{3}{3}$	2.6	1.9	
Davis	18.2	8/15	10/19	34	4.0 ³ /	2.5	2.0	

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

 $[\]frac{2}{\text{An}}$ explanation of data and ratings is given on page $\frac{3}{3}$ of this report. $\frac{3}{1976}$ average pod heights for late planting date.

Table 17 Three Year Average Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties at Upper Coastal Plain Substation, 1975 through 1977

	1/	lst bloom ² /	. 21	Plant	Ht. 1st	T. 3-2-2/	ch - ++ 2/	
Variety	Yield1/		. <u>Maturity2/</u>	ht. <u>2</u> /	pod ^{2/}	Lodging2/	Shattering ² /	
	Bu/A	Dates	Dates	In.	In.	Rating anting date Ma	Rating	
			Inco	e year aver	age early pr	anting date Ma	y 17	
McNair 600	43.8	7/19	10/11	36	5.3	1.6	1.0	
Coker 842	43.4	7/20	10/12	. 35	4.7	1.2	1.3	
Hutton	42.6	7/25	10/23	40	7.0 <u>3</u> /	3.4	1.3	
Davis	41.8	7/25	10/07	. 37	5.8 4.0 <u>3</u> / 7.0 <u>3</u> /	1.8	1.2	
Lee 74	41.1	7/19	10/15	32	$4.0\frac{3}{2}$	2.3	1.3	
Bragg	40.9	7/24	10/18	4 2	7.0 <u>3</u> /	2.8	1.1	
Tracy	40.1	7/17	10/13	36	5.0	2.3	1.1	
Centennial	38.6	7/18	10/15	38	$6.0\frac{3}{4}$	1.3	1.0	•
Lancer	37.8	7/21	10/06	. 37	6.0	1.3	1.3	
Coker 136	37.4	7/18	9/29	35	6.1	1.2	1.0	
Essex	37.3	7/15	9/26	28	4.2	1.3	1.3	
Forrest	37.1	7/15	9/26	34	5.0	1.6	1.0	
FFR 666	37.0	7/19	10/11	30	5.3	1.6	1.0	
Mack	36.1	7/16	9/24	33	3.9	2.5	1.0	
			Thre	e-year aver	age late pl	anting date Jur	ne 17	
Coker 338	31.2	8/15	10/30	37	$6.0\frac{4}{1}$	2.3	1.3	
Lee 74	30.1	8/13	10/18	31	$4.0\frac{4}{4}$	2.4	1.4	
Ransom	28.9	8/15	10/26	34	$5.0\frac{4}{1}$	2.0	1.4	
Coker 842	28.8	8/13	10/19	32	4.0^{4}	1.4	1.5	
Bragg	28.2	8/15	10/24	38	5.04/	2.8	1.4	
Forrest	28.2	8/09	10/08	29	$\frac{4.04}{3.04}$ $\frac{3.04}{4}$	1.4	1.0	
McNair 600	28.0	8/12	10/16	32	$3.0\frac{4}{1}$	1.7	1.6	
Essex	27.6	8/09	10/06	22	$3.0^{4/}$	1.2	1.0	
Mack	27.5	8/09	10/05	30	3.0^{4}	1.8	1.0	
Hutton	27.3	8/16	10/28	35	$6.0\frac{4}{4}$	3.0	1.4	
Centennial	26.4	8/13	10/19	35	$6.0\frac{4}{4}$	1.9	1.3	
Coker 136	26.2	8/10	10/09	31	$3.0\frac{4}{4}$ $6.0\frac{4}{4}$ $6.0\frac{4}{4}$	1.9	1.6	
Tracy	25.8	8/12	10/15	32	$4.0\frac{4}{4}$	2.5	1.6	
Davis	25.1	8/16	10/20	. 33	4.0^{4}	2.4	1.7	

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

 $[\]overline{2}/\mathrm{An}$ explanation of data and ratings is given on page 3 of this report.

 $[\]overline{3}/1975$ -1976 average pod height averages for early planting date.

^{4/1975-1976} average pod height averages for late planting date.

Table 18 Four-Year Average Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties at Upper Coastal Plain Substation, 1974 through 1977

Variety	Yield1/	lst bloom2/	.Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod^2	Lodging2/	Shattering2/	
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	
			Fou	ır-year ave	rage early p	olanting date M	ay 12	
Hutton	43.5	7/24	10/23	38	7.0 <u>3</u> /	3.1	1.3	
McNair 600	43.4	7/17	10/09	36	5.5	1.5	1.0	
Lee 74	43.1	7/17	10/13	32	5.0 <u>3</u> /	2.3	1.3	
Davis	42.8	7/25	10/07	. 39		2.0	1.2	
Bragg	42.1	7/22	10/18	42	6.6 8.0 <u>3</u> /	2.6	1.1	
Tracy	41.1	7/15	10/11	35	5.6	2.2	1.1	
Coker 136	38.7	7/16	9/29	36	6.3	1.2	1.0	
Essex	38.7	7/14	9/24	27	4.1	1.2	1.3	
Forrest	37.9	7/13	9/28	33	5.3	1.7	1.0	
FFR 666	36.8	7/17	10/09	29	5.3	1.6	1.0	
			For	ır-year ave	rage late pl	Lanting June 16		
Lee 74	32.6	8/13	10/18	31	$5.0\frac{4}{4}$	2.6	1.4	
Ransom	31.7	8/14	10/24	34	$5.0\frac{4}{}$	2.0	1.4	
Coker 338	31.6	8/15	10/29	39	$6.0\frac{4}{5.0\frac{4}{4}}$	2.6	1.3	
Forrest	31.3	8/08	10/08	31	$5.0\frac{4}{1}$	1.7	1.0	
Essex	30.4	8/08	10/05	24	3 04/	1.2	1.0	
Bragg	30.0	8/15	10/23	40	$6.0\frac{4}{1}$	2.8	1.4	
Tracy	29.5	8/12	10/16	33	$4.0\frac{4}{4}$	2.5	1.6	
Hutton	29.5	8/16	10/25	35	6.04/ 4.04/ 6.04/ 4.04/ 6.04/ 4.04/	2.8	1.4	
McNair 600	29.3	8/12	10/15	34	$4.0\frac{4}{4}$	1.8	1.6	
Coker 136	28.8	8/11	10/10	33	$6.0\frac{4}{7}$	1.9	1.6	
Davis	27.1	8/16	10/19	35	4.04/	2.4	1.7	

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

 $[\]overline{2}/An$ explanation of data and ratings is given on page 3 of this report.

³¹⁹⁷⁴⁻¹⁹⁷⁶ average pod heights for early planting date.

^{4/1974-1976} average pod heights for late planting date.

Table19. Five-Year Average Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties at Upper Coastal Plain Substation, 1973 through 1977

	_ !	lst ,		Plant	Ht. 1st		2./	
Variety	$Yield^{1/}$	lst bloom2/	Maturity2/	ht. <u>2</u> /	pod ² /	Lodging ² /	Shattering ^{2/}	
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	
				e-year avera		anting date Ma		
McNair 600	43.5	7/18	10/07	35	$\frac{5.4}{6.03}$	1.4	1.0	
Lee 74	42.7	7/18	10/11	32		2.3	1.3	
Davis	42.4	7/24	10/05	39	6.0	1.8	1.2	
Tracy	41.4	7/17	10/08	35	5.3	2.0	1.1	
Hutton	41.2	7/24	10/20	38	$8.0\frac{3}{2}$	2.8	1.3	
Bragg	40.3	7/22	10/15	42	8.0 <u>3</u> /	2.3	1.1	
Coker 136	39.4	7/18	9/28	36	6.4	1.2	1.0	
Forrest	39.2	7/14	9/27	33	5.3	1.6	1.0	
Essex	38.0	7/14	9/23	27	4.2	1.1	1.3	
FFR 666	37.5	7/18	10/07	29	5.1	1.5	1.0	
			Five	e-year aver	age late pla	nting date Jur	ne 16	
Lee 74	33.0	8/12	10/17	32	5.0^{4}	2.4	1.4	
Coker 338	32.1	8/16	10/28	39	$6.0\frac{4}{5}$	2.3	1.3	
Ransom	32.0	8/13	10/23	34	$6.0\frac{4}{4}$	1.8	1.4	
Forrest	31.7	8/07	10/07	31	$5.0^{4/}$	1.5	1.0	
Essex	31.6	8/07	10/05	24	$4.0\frac{4}{4}$	1.2	1.0	
McNair 600	30.4	8/12	10/13	34	$\frac{4.04}{4.04}$	1.7	1.6	
Tracy	30.0	8/11	10/14	33	5.0^{4}	2.4	1.6	
Bragg	29.4	8/12	10/21	39	$6.0\frac{4}{4}$	2.4	1.4	
Coker 136	29.3	8/11	10/09	33	$6.0\frac{4}{4}$	1.7	1.6	
Hutton	29.0	8/15	10/24	35	$\frac{6.04}{7.04}$	2.4	1.4	
Davis	27.5	8/17	10/17	35	4.04/	2.2	1.7	

 $[\]frac{1}{1}$ Yields adjusted to 13% moisture and 60 pounds per bushel. $\frac{2}{1}$ An explanation of data and ratings is given on page 3 of this report. $\frac{3}{1}$ 1974-1976 average pod heights for early planting date. $\frac{4}{1}$ 1974-1976 average pod heights for late planting date.

Central Alabama

The test locations in central Alabama were on Sumter clay at Marion Junction, Lucedale sandy loam at Prattville, and Forkland sandy loam at Camden. The Camden test was dropped due to very poor stand. Soybeans of Maturity Group VII are full season varieties in this area. Varieties of maturity groups V and VI are very early and early, respectively. Maturity Group V varieties were approximately 10 inches shorter in central than northern Alabama locations in 1977.

Coker 136 and Forrest are the tallest Group V varieties planted in the central tests. Their yields are not as good as the full season varieties, but could be used for early harvest varieties as they mature bewteen Septmeber 20 and 30. Essex has produced slightly better yields at Prattville than either Coker 136 or Forrest, but its leaf deep tends to be very erratic in central and southern locations.

The maximum yielding varieties when planted mid-May at central Alabama locations for the past 4 to 5 years are: Group V varieties Essex,

Forrest, and Coker 136; Group VI varieties Davis, FFR 666, McNari 600, Lee

74, and Tracy for mid-May plantings and Davis and Tracy at later plantings

at Marion Junction; Group VII varieties Bragg, and Ransom, particularly

at the late May and early June plantings; Group VIII varieties Coker 338,

Hutton, and Cobb performed well at later planting at Marion Junction and Pratt
ville.

Lines that have looked good for 3 years were Coker 842 and Green Soy 74-64 at Marion Junction and Prattville. New lines that performed well in 1977 at both central Alabama locations were Ga. Soy 17 and D&PL 5.

Table 20 Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties when Planted May 20, 1977 at Black Belt Substation

	Yield ¹ /	lst bloom <u>2</u> /	.Maturity2/	Plant	Ht. 1st	2/	Shattering2/	
Variety	Bu/A	Dates	Dates	ht. <u>2</u> /	In.	Lodging ² / Rating	Rating Rating	
	DU/A	Dates	Dates	III.	III.	Rating	Kating	
McNair 3131	35.3 a	7/26	10/20	31	4.3	1.0	1.0	
Coker 842	34.6 ab	7/19	10/13	26	3.0	1.0	1.0	
Ga. Soy 17	33.9 abc	8/01	10/21	35	4.5	1.3	1.0	
Coker 73-370	33.7 abcd	7/21	10/16	31	2.5	1.0	1.0	
Ransom	33.0 abcde	7/21	10/24	28	2.8	1.0	1.0	
Coker 338	32.1 abcdef	8/02	10/30	31	2.5	1.3	1.0	
D&PL 5	31.7 abcdefg	7/19	10/14	30	2.5	1.4	1.0	
Agripro AP70	30.6 abcdefgh	7/29	10/19	33	4.0	1.3	1.0	
Centennial	30.5 abcdefgh	7/18	10/12	28	2.8	1.3	1.0	
Tracy	30.2 abcdefgh	7/20	10/09	26	3.0	2.0	1.0	
RA 700 .	30.0 abcdefgh	7/27	10/24	36	2.5	2.0	1.0	•
Govan	30.0 abcdefgh	7/21	10/19	26	2.5	1.1	1.0	
Cobb	29.4 abcdefgh	7/27	11/01	34	3.0	1.1	1.0	
McNair 600	29.3 abcdefgh	7/21	10/08	30	3.3	1.0	1.0	,
McNair 3183	29.3 abcdefgh	7/20	10/19	22	2.0	1.1	1.0	**
Hutton	29.2 abcdefgh	7/25	10/23	30	3.8	1.0	1.0	
GreenSoy74-64	28.9 abcdefgh	7/26	10/15	30	3.3	1.0	1.0	
Coker 73-410	28.9 abcdefghi	7/26	10/27	33	3.5	1.1	1.0	
Davis	28.6 abcdefghi		10/06	25	3.5	1.0	2.0	
FFR 667	28.5 abcdefghi	7/21	10/18	26	3.3	1.0	1.0	•
Bragg	27.8 bcdefghi	7/25	10/20	34	3.8	1.5	1.0	
FFR 666	27.7 bcdefghi	7/21	10/08	18	1.8	1.0	1.0	•
McNair 3161	27.7 cdefghi	7/19	10/04	20	2.0	1.0	1.3	
Lee 74	27.4 j cdefghi	7/19	10/12	20	1.5	1.0	1.0	
McNair 800	26.8 j cdefghi	8/07	10/14	25	4.0	1.3	1.3	
RA(a) 23	26.6 j defghi	7/18	9/20	21	2.3	1.0	1.3	
RA 602	26.5 j defghi	7/14	10/11	23	2.3	1.1	1.3	•
FFR 7027	25.8 j efghi	7/26	10/16	31	3.0	1.6	1.0	
Agripro AP80		8/08	10/29	29	3.0	1.1	1.0	
Terra Vig 708	25.0 j fghi	7/26	10/19	24	3.3	1.0	1.0	
FFR 556	24.7 j ghi	7/18	10/09	31	2.0	1.3	1.0	

Table 20. (con't) Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties when Planted May 20, 1977 at Black Belt Substation

Variety	Yield1/	1st bloom <u>2</u> /	.Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
FFR 6111	24.2 jk	hi 7/26	10/17	30	3.5	1.1	1.0
D&PL 154	23.7 jk	hi 7/17	9/26	21	2.8	1.0	1.0
Mack	21.8 jk	i 7/18	9/19 .	19	3.0	1.0	1.0
RA 601	20.6 k1	7/16	10/14	37	2.8	2.0	2.3
Coker 136	17.9 klm	7/25	10/02	19	2.3	1.0	1.0
Forrest	14.8 1m	7/19	9/29	15	1.5	1.0	1.0
Essex	14.7 1m	7/11	9/15	15	1.5	1.0	1.8
Lancer	13.7 m	7/22	10/14	17	2.0	1.0	1.0
C.V. %	15.4						

 $[\]frac{5}{2}$ 1/Adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05). $\frac{1}{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 21 Yield, First Bloom and Maturity Dates, Plant and First Pod Heights. Lodging, and Shattering of Soybean Varieties when Planted June 6, 1977, at Black Belt Substation

Variety	Yield1/	1st bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st $\frac{1}{\text{pod}^2}$	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Ransom	34.7 a	8/01	10/27	27	3.5	1.0	1.0
Coker 842	33.2 ab	7/30	10/16	27	3.8	1.0	1.0
Centennial	29.6 abc	7/28	10/14 .	27	3.5	1.3	1.0
Hutton	29.2 abc	8/04	10/24	27	2.3	1.0	1.0
GreenSoy74-64		7/31	10/17	28	4.5	1.3	1.0
Bragg	28.3 abc	8/01	10/22	31	3.3	1.4	1.0
McNair 600	28.0 bc	7/29	10/11	27	3.0	1.0	1.0
Lee 74	27.4 bc	7/31	10/15	24	2.3	1.3	1.0
FFR 666	26.4 d c	7/28	10/14	21	1.8	1.0	1.0
Tracy	25.8 d c	7/29	10/13	24	2.8	2.5	1.0
Davis	25.4 d c	7/30	10/12	24	2.8	1.0	1.0
Coker 338	25.1 dec	8/08	10/30	- 30	2.3	1.6	1.0
McNair 800	23.9 dec	8/08	10/16	25	3.5	1.0	1.0
Cobb	22.8 dec	8/03	11/03	31	2.5	1.1	1.0
FFR 556	20.6 def	7/25	10/14	31	3.0	1.0	1.0
Lancer	20.2 def	8/07	10/14	18	1.5	1.0	1.0
Mack	19.7 def	7/25	9/27	19	2.3	1.0	1.0
Essex	19.6 def	7/18	9/24	17	2.0	1.0	1.5
Forrest	18.4 ef	7/25	10/06	17	1.5	1.0	1.0
Coker 136	15.9 f	7/30	10/11	15	1.8	1.0	1.3
C. V. %	16.4						

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 3 of this report.

Table 22. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties when Planted June 28, 1977 at Black Belt Substation

Variety	Yield1/	1st bloom2/	.Maturity2/	Plant ht. <u>2</u> /	Ht. 1st $\frac{1}{\text{pod}^2}$	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Bragg	24.0 a	8/15	10/28	23	2.5	1.4	1.0
Coker 338	20.2 ab	8/18	11/07	24	2.8	1.1	1.0
Davis	17.6 abc	8/16	10/24 ·	21	1.5	1.1	1.3
Centennial	16.0 abc	8/15	10/29	19	1.3	1.1	1.0
Cobb	15.8 abc	8/18	11/07	25	3.0	1.0	1.0
McNair 600	15.5 abc	8/13	10/25	21	1.3	1.1	1.0
FFR 666	14.7 bc	8/12	10/26	15	1.0	1.0	1.0
Ransom	14.2 bc	8/15	11/10	20	1.8	1.0	1.0
Lancer	14.0 bc	8/19	11/11	16	1.3	1.0	1.0
Forrest	12.8 bc	8/11	10/22	18	1.0	1.0	1.0
Hutton	12.6 bc	8/17	11/01	20	1.8	1.1	1.0
Lee 74	12.5 bc	8/14	10/29	18	1.0	1.0	1.0
Coker 842	12.4 bc	8/12	10/25	19	1.8	1.0	1.0
Coker 136	11.8 bc	8/14	11/ 01	19	2.0	1.0	1.0
McNair 800	11.6 bc	8/18	10/25	15	1.0	1.0	1.3
Green Soy 74-64	10.6 bc	8/15	10/25	20	2.5	1.0	1.0
Essex	10.4 c	8/08	10/18	16	1.3	1.0	2.3
Mack	10.0 c	8/12	10/16	19	2.0	1.0	1.0
FFR 556	9.8 c	8/16	11/05	18	1.8	1.0	1.0
Tracy	9.3 c	8/16	11/01	16	1.0	1.0	1.0
C.V.%	40.8						

1/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 ragings is given on page 3 of this report.

Table 23. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted May 17 on Black Belt Substation During 1976 and 1977

Variety	Yield ¹ /	1st bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Coker 842	39.4	7/18	10/12	28	3.4	1.0	1.0
McNair 3131	38.0	7/26	10/16	32	4.6	1.3	1.0
FFR 666	37.0	7/17	10/08	22	2.8	1.1	1.1
McNair 800	35.1	8/01	10/12	29	4.0	1.3	1.1
Centennial	35.1	7/17	10/11	30	2.8	1.4	1.3
McNair 600	34.8	7/19	10/08	31	3.3	1.3	1.0
Coker 338	33.9	7/28	10/23	33	3.1	1.5	1.1
Tracy	33.1	7/17	10/08	28	3.9	2.0	1.4
Lee 74	32.9	7/18	10/11	25	2.8	1.4	1.1
Ransom	32.4	7/20	10/19	30	3.5	1.1	1.0
Hutton	30.4	7/24	10/20	32	3.8	1.7	1.0
Davis	30.0	7/23	10/04	26	2.6	1.1	1.8
Cobb	29.5	7/27	10/26	38	3.6	1.3	1.5
Bragg	29.2	7/23	10/17	34	4.1	1.7	1.1
Coker 136	27.6	7/19	9/29	25	2.9	1.3	1.0
Mack	27.3	7/15	. 9/19	23	2.5	1.5	1.1
Essex	26.8	7/09	9/16	18	1.8	1.1	1.6
Forrest	24.8	7/15	9/26	22	2.3	1.1	1.0
Lancer	22.9	7/19	10/08	24	2.3	1.1	1.3

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

 $[\]overline{2}/An$ explanation of data and ratings is given on page 3 of this report.

Table 24. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted June 3 on Black Belt Substation During 1976 and 1977

Variety	Yield1/	1st bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod^2	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Ransom	37.7	7/29	10/21	32	3.9	1.4	1.0
Coker 842	37.2	7/27	10/16	33	3,.8	1.4	1.0
Lee 74	32.3	7/28	10/14	29	2.8	1.9	1.1
Hutton	31.9	8/01	10/21	32	3.3	2.1	1.0
Centennial	31.6	7/26	10/14	32	3.1	1.4	1.0
McNair 600	30.7	7/26	10/12	32	3.1	1.6	1.1
Bragg	30.7	7/30	10/18	36	3.4	2.0	1.0
Tracy	30.5	7/26	10/15	30	2.9	2.4	1.4
McNair 800	30.1	8/06	10/14	30	4.4	1.3	1.1
Davis	30.0	7/30	10/12	29	3.1	1.3	1.1
Coker 338	29.2	8/04	10/26	36	3.1	2.4	1.1
Cobb	27.7	8/02	10/30	37	3.5	1.7	1.5
Forrest	27.6	7/22	10/02	26	2.6	1.4	1.0
Lancer	27.5	8/02	10/11	28	2.5	1.5	1.4
Essex	27.4	7/18	9/27	21	3.1	1.1	1.3
Coker 136	24.5	7/27	10/07	26	3.4	1.5	1.1
Mack	23.6	7/23	9/29	26	2.6	2.2	1.0

 $[\]underline{1}$ /Yields adjusted to 13% moisture and 60 pounds per bushel.

 $[\]overline{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 25. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted June 24 on Black Belt Substation During 1976 and 1977

Variety	Yield1/	1st bloom <u>2</u> /	.Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
		0/10	10/25	28	3.0	1.3	1.0
Bragg	28.5	8/12	•				$\frac{1.0}{1.03}$ /
Coker 338	27.3	8/17	11/01	29	3.0	1.2	
Davis	27.1	8/14	10/25	25	1.5	1.1	1.1
Forrest	25.2	8/08	10/15	23	1.8	1.1	1.0
Hutton	24.9	8/16	10/27	26	2.8	1.3	1.0
Green Soy74-64	24.9	8/11	10/22	25	2.9	1.0	1.0
Centennial	23.9	8/11	10/24	26	1.8	1.1	1.1
Coker 842	23.2	8/09	10/23	24	2.1	1.0	1.1
Tracy	22.8	8/11	10/28	24	1.5	1.3	1.3
Lee 74	21.8	8/11	10/24	24	1.5	1.1	1.0
Cobb	21.8	8/15	11/04	31	4.3	1.0	$1.0\frac{3}{}$
McNair 600	21.6	8/10	10/21	26	1.8	1.2	1.4
Essex	21.3	8/05	10/20	18	1.5	1.0	1.6
McNair 800	20.7	8/17	10/24	20	1.5	1.0	1.1
Lancer	20.6	8/15	10/29	23	2.4	1.0	1.1
Ransom	20.4	8/12	11/01	23	2.1	1.0	1.0
Mack	20.4	8/09	10/03	23	1.9	1.3	1.0
Coker 136	18.3	8/11	10/22	22	2.0	1.0	1.3

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

 $[\]overline{2}/An$ explanation of data and ratings is given on page 3 of this report.

 $[\]overline{3}/1977$ shattering average only.

Table 26. Three-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties when Planted May 16 on Black Belt Substation 1975 through 1977

Variety	Yield1/	1st bloom <u>2</u> /	Maturity2/	Plant ht. 2/	Ht. 1st	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Coker 842	38.4	7/16	10/09	29	3.3	1.1	1.0
FFR 666	35.8	7/15	10/07	22	2.5	1.0	1.1
Centennial	35.0	7/15	10/10	32	3.6	1.5	1.2
Fracy	33.9	7/16	10/07	30	4.1	2.2	1.3
McNair 600	33.6	7/17	10/06	31	3.5	1.3	1.0
Lee 74	33.3	7/17	10/09	25	3.1	1.4	1.1
Ransom	33.0	7/18	10/18	30	4.4	1.2	1.0
McNair 800	32.2	7/31	10/12	30	4.0	1.3	1.1
Davis	30.8	7/22	10/02	28	3.0	1.3	1.5
Hutton	30.8	7/23	10/20	33	4.0	1.9	1.0
Bragg	30.2	7/22	10/18	35	5.2	1.8	1.1
Coker 136	27.7	7/17	9/26	26	3.3	1.3	1.1
Essex	27.6	7/06	9/13	19	1.8	1.1	1.4
lack	26.9	7/12	9/16	25	2.7	1.4	1.1
Forrest	25.5	7/12	9/22	24	2.9	1.0	1.0
Lancer	25.5	7/18	10/06	27	2.8	1.3	1.3

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

 $[\]overline{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 27. Three-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties when Planted June 3 on Black Belt Substation During 1975 through 1977

Variety	Yield1/	lst bloom <u>2</u> /	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod ² /	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Coker 842	33.5	7/25	10/13	31	3.8	1.3	1.0
Ransom	33.3	7/27	10/19	- 31	4.3	1.4	1.0
Lee 74	30.3	7/26	10/13	29	3.2	1.8	1.1
Centennial	30.3	7/24	10/13	33	3.7	1.6	1.0
Tracy	29.3	7/25	10/13	31	3.6	2.3	1.3
Hutton	28.6	7-31	10/21	32	4.5	2.0	1.0
Davis	28.5	7/30	10/10	31	3.8	1.5	1.1
Bragg	28.0	7/30	10/18	35	4.4	1.8	1.1
McNair 600	27.9	7/25	10/11	31	3.5	1.4	1.1
Coker 338	27.0	8/02	10/25	35	4.1	2.4	1.1
McNair 800	26.7	8/05	10/14	29	4.3	1.3	1.1
Forrest	24.9	7/20	10/01	26	3.1	1.4	1.0
Essex	24.3	7/17	9/23	22	3.2	1.1	1.2
Coker 136	23.0	7/25	10/05	27	3.9	1.5	1.1
Mack	22.3	7/21	9/26	27	2.9	2.0	1.0

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

 $[\]frac{1}{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 28. Three-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties when Planted June 22, on Black Belt Substation During 1975 through 1977

Variety	$\mathtt{Yield}^{\underline{1}/}$	1st bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod ² /	Lodging2/	Shattering2/	
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	
Davis	27.5	8/12	10/20	27	2.5	1.6	1.1	
Coker 338	26.5	8/14	10/30	30	4.3	1.3	1.0^{3}	
Hutton	26.3	8/14	10/25	28	4.2	1.9	1.0	
Centennial	26.3	8/09	10/22	28	2.8	1.4	1.1	
Bragg	25.6	8/10	10/23	28	3.9	1.4	1.0	
Tracy	24.5	8/08	10/23	26	2.3	1.4	1.2	
Forrest	24.0	8/05	10/13	25	2.5	1.1	1.0	
Lee 74	23.5	8/08	10/20	26	2.0	1.2	1.0	
Cobb	23.5	8/14	11/03	34	4.9	1.5	1.0^{3}	
McNair 600	23.3	8/08	10/18	27	2.4	1.2	1.3	
Coker 842	23.3	8/07	10/19	25	2.5	1.0	1.2	
McNair 800	22.2	8/16	10/22	21	2.3	1.1	1.1	
Mack	21.6	8/06	10/02	25	2.4	1.5	1.0	
Ransom	21.1	8/10	10/29	25	3.3	1.0	1.0	
Essex	20.9	8/01	10/12	20	2.1	1.0	1.4	
Coker 136	20.5	8/09	10/17	25	3.2	1.2	1.2	

^{1/}Adjusted to 13% moisture and 60 pounds per bushel.

 $[\]overline{2}/\mathrm{An}$ explanation of data and ratings is given on page 3 of this report.

 $[\]frac{3}{1977}$ Shattering average only.

Table 29. Four-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted May 17 on Black Belt Substation During 1974 through 1977

Variety	Yield1/	lst bloom <u>2</u> /	Maturity2/	Plant ht. $\frac{2}{}$	Ht. 1st $\frac{1}{\text{pod}^2}$	Lodging2/	Shattering2/	
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	
Tracy	37.4	7/14	10/06	30	3.7	2.0	1.3	
FFR 666	37.4	7/13	10/05	21	2.2	1.0	1.1	
Ransom	35.9	7/16	10/17	30	4.4	1.2	1.0	
McNair 600	35.2	7.15	10/05	30	3.7	1.3	1.0	
Lee 74	34.7	7/15	10/09	25	2.8	1.3	1.1	
McNair 800	34.1	7/29	10/11	31	4.3	1.4	1.1	
Davis	33.6	7/21	10/01	31	3.1	1.5	1.5	
Hutton	33.1	7/22	10/19	34	4.3	1.9	1.0	
Coker 136	31.9	7/16	9/25	28	3.7	1.3	1.1	
Bragg	31.9	7/20	10/16	37	5.6	1.6	1.1	
Forrest	30.5	7/11	9/21	26	3.2	1.0	1.0	
Essex	30.2	7/06	9/12	19	1.9	1.1	1.4	

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

 $[\]frac{1}{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 30. Four-Year Average Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted June 3, 1973, 1975, 1976, and 19773/ Black Belt Substation

Variety	Yield1/	lst blocm ² /	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Ransom	32.4	7/27	10/15	32	4.9	1.7	1
Davis	28.8	7/30	10/08	33	4.1	1.9	1
McNair 600	28.3	7/25	10/07	32	3.7	1.7	1
Essex	27.0	7/17	10/23	24	3.7	1.2	1
Hutton	26.5	8/01	10/20	33	5.0	2.0	1
Coker 136	26.2	7/25	10/02	30	4.7	1.5	1
Bragg	26.1	7/30	10/15	36	5.2	2.1	1
McNair 800	26.0	8/06	10/11	31	4.8	1.7	1
Forrest	25.7	7/21	9/29	28	3.7	1.7	1

 $^{^{\}circ}$ 1/Yield adjusted to 13% moisture and 60 pounds per bushel.

 $[\]frac{1}{2}$ /An explanation of data and ratings is given on page 3 of this report.

^{3/}No planting made in 1974 due to wet soil conditions during planting period.

Table 31. Four-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights. Lodging, and Shattering of Soybean Varieties Planted June 21 on Black Belt Substation During 1974 through 1977

Variety	Yield1/	1st bloom <u>2</u> /	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Davis	29.6	8/13	10/20	29	2.8	1.5	1.1
Coker 338	29.2	8/13	10/30	32	4.3	1.5	$1.0\frac{3}{}$
Tracy -	27.4	8/08	10/21	28	2.4	1.5	1.2
Bragg	26.9	8/11	10/23	31	4.1	1.4	1.0
Hutton	26.8	8/14	10/25	29	4.1	1.7	1.0
Lee 74	26.5	8/09	10/19	27	2.2	1.4	1.0
McNair 600	25.6	8/08	10/18	29	2.4	1.3	1.3
Forrest	25.1	8/06	10/12	26	2.8	1.2	1.0
Cobb	24.8	8/15	11/03	36	4.8	1.6	$1.0\frac{3}{}$
McNair 800	24.7	8/16	10/20	23	2.7	1.2	1.1
Essex	24.0	8/02	10/10	22	2.6	1.0	1.4
Ransom	23.9	8/10	10/28	27	3.4	1.1	1.0
Coker 136	23.1	8/09	10/16	27	3.5	1.3	1.2

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

 $[\]overline{2}$ /An explanation of data and ratings is given on page 3 of this report.

 $[\]overline{3}/1977$ Shattering average only.

Table 32. Five-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted at Two Planting Dates on Black Belt Substation During 1973

Through 1977 1st Ht. 1st Plant bloom2/ Yield1/ Maturity2/ Lodging2/ Shattering2/ ht. $\frac{2}{}$ Variety Bu/A Dates Dates In. In. Rating Rating Five-year average planting date May 17 McNair 600 36.2 7/14 10/04 30 3.5 1.0 1.2 9/29 32 Davis 35.4 7/20 3.3 1.6 1.5 Lee 74 35.0 7/14 10/07 26 3.1 1.5 1.1 Ransom 34.6 7/15 10/14 20 1.0 4.6 1.4 Coker 136 34.0 7/15 9/24 29 4.0 1.3 1.1 32 McNair 800 33.3 7/28 10/09 4.5 1.8 1.1 7/07 9/14 20 2.0 Essex 33.0 1.1 1.4 Forrest 32.1 7/11 9/20 26 3.2 1.1 1.0 **₽**Bragg 7/18 10/12 36 5.4 1.6 1.1 31.9 Five-year average planting date June 24 10/20 8/13 27 2.7 Davis 28.3 1.4 1.1 8/11 10/22 29 Bragg 26.1 3.8 1.4 1.0 8/14 10/25 28 Hutton 25.7 4.1 1.7 1.0 McNair 600 24.1 8/09 10/16 27 2.1 1.3 1.3 8/06 10/11 25 2.8 Forrest 24.0 1.3 1.0 McNair 800 8/16 10/19 22 23.4 2.5 1.1 1.1 Ransom 8/10 10/27 25 1.0 23.0 3.1 1.1

21

26

2.3

3.3

1.0

1.2

1.4

1.2

8/03

8/09

22.5

21.9

Essex

Coker 136

10/09

10/14

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

 $[\]overline{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 33. Soybean Seed Quality, Purple Stain, and Size by Variety when Grown at Black Belt Substation, 1977

					ntind date				
	M	ay 20, 197	7	Jı	une 6, 197			une 28, 197	
	Seed*	Purple**	Seed	Seed	Purple*		Seed*	Purple**	Seed
Variety	quality	stain	size	quality	stain	size	quality	stain	size
	Rating	Rating	g/100 seed	Rating	Rating	g/100 seed	Rating	Rating	g/100 seed
Forrest	2	2	12.0	2	2	12.8	2	1	14.5
Mack	2	1	13.1	2	2	13.2	3	1	14.6
Essex	2	2	12.2	2	3	14.5	2	2	15.9
Coker 136	2	2	13.9	2	2	16.2	2	2	15.4
FFR 556	3	3	16.8	2	3	18.1	2	3	15.7
Lee 74	1.5	1	13.0	2	1	18.3	2	2	14.8
Davis	2	2	13.9	1	2	15.0	1	2	14.2
Centennial	1	2	12.4	1	2	14.2	2	2	14.8
Tracy	1.5	2	15.6	1	1	15.7	2	1	16.3
Coker 842	1	2	12.2	1	1	13.0	2	2	14.7
McNair 600	1	2	13.0	1	2	11.7	2	1	14.6
FFR 666	2	2	12.9	2	1	13.4	2	1	14.6
Lancer	2.5	2	14.6	1	1	14.7	2	2	15.2
Green Soy 74-64	2	2	14.6	1	2	16.2	2	2	15.0
Bragg	2	1	15.2	2	1	15.6	2	1	15.1
Ransom	2	2	16.3	2	2	15.8	. 1	2	16.3
McNair 500	2	1	11.9	1	1	11.9	2	2	14.0
Hutton	3	2	17.7	2	1	16.1	1	1	15.5
Coker 338	2	1	14.8	2	2	15.6	1	2	15.1
Cobb	2	2	13.8	1	1	13.6	1	1	13.9
Coker 73-410	3	$\overline{f 1}$	16.4	***	***	***	***	***	***
Agripro AP80	3	1	15.7	***	***	***	***	***	***
D&PL 5	2.5	2	13.7	***	***	***	***	***	***
D&PL 154	1.5	2	12.4	***	***	***	***	***	***
RA(A) 23	2	2	11.3	***	***	***	***	***	***
RA 602	2	1	13.5	***	***	***	***	***	***
RA 601	2	2	14.6	***	***	***	***	***	***
McNair 3161	1	2	11.5	***	***	***	***	***	***
FFR 667	1	2	15.5	***	***	***	***	***	***
McNair 3131	3	1	15.2	***	***	***	***	***	***,
Ga. Soy 17	2	1	14.2	***	***	***	***	***	***
RA 700	3	1	14.5	***	***	***	***	***	***

Table 33. (con't) Soybean Seed Quality, Purple Stain, and Size by Variety when Grown at Black Belt Substation, 1977

				P1a	nting date	S			
	Ma	May 20, 1977			ne 6, 1977		June 28, 1977		
	Seed*	Purple**	Seed	Seed	Purple**	Seed	Seed*	Purple**	Seed
Variety	quality	stain	size	quality	stain	size	quality	stain	size
	Rating	Rating	g/100 seed	Rating	Rating	g/100 seed	Rating	Rating	g/100 seed
Govan	2	2	14.2	***	***	***	***	***	***
Terra-Vig 708	2	1	14.0	***	***	***	***	***	***
Coker 73-370	2	2	14.3	***	***	***	***	***	***
McNair 3183	2	1	14.0	***	***	***	***	***	***
FFR 6111	2	1	14.2	***	***	***	***	***	***
FFR 7027	2	1	13.7	***	***	***	***	***	***
Agripro AP70	2	2	13.3	***	***	***	***	***	***

^{*}Seed quality is rated from 1 to 5 according to the following scale: 1 = very good; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

^{**}Purple stain ratings are given to seed samples on a scale of 1 to 5 as follows: 1 = no purple staining; 2 = 1-3% purple staining; 3 = 4-8% purple staining; 4 = 9-19% purple staining; 5 = over 20% purple staining.

^{***}Variety not in test.

Table 34. Iron chlorosis rating made July 19, 1977 for soybean varieties at different planting dates grown on Sumpter clay soil at Black Belt Substation

		Planting dates	
Variety	May 20, 1977	June 6, 1977	June 28, 1977
	Ratings <u>l</u> /	Rating_/	Rating1/
Lancer	4.8 a	4.5 ab	4.0 a
Coker 136	5.0 a	5.0 a	3.0 b
FFR 556	4.0 abcd	4.0 abc	3.3 ab
Forrest	4.8 ab	4.0 abc	3.0 b
Tracy	4.3 abc	3.8 bc	3.0 Ъ
Centennial	2.8 h efg	3.3 cde	2.0 c
Essex ·	3.0 h defg	3.0 cde	1.8 cd
Coker 338	2.8 h defg	3.3 cde	1.5 cd
Lee 74	2.5 hi fg	2.8 def	2.0 c
FFR 666	2.3 hij fg	2.8 def	2.0 c
Mack	2.3 hij fg	2.5 ef	2.0 c
Green Soy 74-64	2.0 hijk g	2.3 ef	2.0 c
Davis	2.3 hij fg	2.8 def	1.5 cd
Coker 842	2.3 hij fg	2.5 ef	1.5 cd
Cobb	2.0 hijk g	2.5 ef	1.5 cd
Ransom	2.0 hijk g	2.3 ef	1.3 cd
McNair 800	2.3 hij fg	2.3 ef	1.3 cd
McNair 600	1.8 hijk	2.3 ef	1.3 cd
Bragg	1.3 jk	1.8 f	1.0 d
Hutton	1.3 jk	1.8 f	1.0 d
Terra-Vig 708	4.0 abcd		
R.A. 601	3.8 bcde		
McNair 3183	3.3 cdef		
Agripro AP80	3.0 defg		
R.A. 602	2.8 h efg		
McNair 3161	2.5 hi fg		
FFR 667	2.3 hij fg		
Govan	2.3 hij fg		
FFR 7027	2.3 hij fg		
D&PL 5	2.0 hijk g		
McNair 3131	2.0 hijk g		
Georgia Soy 17	2.0 hijk g		
Agripro AP70	2.0 hijk g		
Coker 73-410	2.0 hijk g		
FFR 6111	2.0 hijk g		
McNair 600	1.8 hijk		
D&PL 154	1.8 hijk		
RA (a)23	1.8 jijk		
R.A. 700	1.5 ijk		
Coker 73- 370	1.0 k		
L. S. D05	0.92	0.90	0.78
C.V.%	26.80	22.20	27.70

 $\frac{1}{5}$ with very severe chlorosis (almost absent of green color). Rating with a common letter are not different (P = .05).

Table 36.Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, Shattering, Seed Quality, Purple Stain, and Seed Size of Soybean Varieties when Planted June 20, 1977, at Prattville Experiment Field

Variety	Yield1/	1st bloom ² /	Maturity2/	Plant ht.2/	Ht. 1st	Lodging2/	Shattering2/	Seed ² / quality	Purple2/ stain	Seed size
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	Rating	Rating	g/100 seed
Green Soy 74-64	40.5 a	8/05	10/29	29	4.0	1.0	1	2	.1	18.2
Cobb	40.1 a	8/15	10/31	33	2.5	1.3	1	1	.1	14.4
Hutton	40.0 a	8/10	10/29	33	3.8	1.5	1	. 1	1	20.8
Coker 338	39.4 ab	8/13	11/01	33	3.5	1.6	1	1	2	18.0
McNair 600	39.0 abc	8/05	10/29	26	2.0	1.0	1	1	1 .	16.8
Bragg	36.3 abcd	8/09	10/29	31	2.8	1.6	1	1	1	16.8
Ransom	34.3 abcde	8/09	10/30	27	2.7	1.3	1	1	2	16.4
McNair 800	33.8 abcde	8/13	10/29	25	2.8	1.1	1	1	1	13.4
Centennia1	31.7 fbcde	8/04	10/18	32	4.3 .	1.8	1	1	ļ	14.9
Coker 136	31.1 f cde	8/02	10/12	27	3.5 °	1.4	1	1	. 2	16.4
. Tracy	29.8 fg de	8/05	10/19	30	3.5	2.1	1	1	. 1	16.7
'Davis	29.7 fg de	8/08	10/18	31	3.8	1.5	1	1	2	17.0
Lancer	29.6 fg de	8/08	10/17	29	. 3.5	1.5	1 .	1	1	17.2
Essex	27.6 fg e	8/01	· 10/10	18	2.0	1.0	1	1	2	14.7
Lee 74	26.1 fg e	8/09	10/29	18	2.0	1.3	1	1	1	15.8
FFR 556	24.7 fg	8/03	10/22	37	3.8	1.6	1	1	2	19.8
Mack	23.6 fg	8/04	10/12	23	1.5	2.3	1	1.	2	16.1
Forrest	22.2 g	8/01	10/12	24	2.5	1.8	1	1	1	14.5
C.V.%	15.7									

 $[\]frac{1}{2}$ /Yield adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05). $\frac{2}{4}$ /An explanation fo data and ratings is given on page 3 of this report.

Table 35. Yield, First Bloom, Date of Maturity, Plant Height, Lodging, Shattering, Seed Quality, Purple Stain, and Seed Size of Soybean Varieties when Planted May 26, 1977, at Prattville Experiment Field

		1st	- /	Plant	Ht. 1st			Seed2/	Purple	2/ Seed
Variety	Yield1/	bloom2/	Maturity2/	ht. <u>2</u> /	pod2/	Lodging2/	Shattering2/	quality	stain	size
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	Rating	Rating	g /100 seed
McNair 3183	36.9 a	7/25	10/20	40	4.5	1.1	1.0	1	2	15.3
Ga. Soy 17	34.8 ab	8/04	10/22	47	7.3	1.8	1.0	1	1	15.4
D&PL 5	34.5 abc	7/23	10/15	39	5.0	1.9	1.0	1	1	13.6
Agripro AP80	34.3 abcd	8/04	10/26	45	6.8	1.5	1.0	. 1	1'	17.5
Coker 73-370	34.3 abcd	7/23	10/17	37	5.5	1.1	1.0	1	1	14.7
Terra Vig 708	33.9 abcd	7/22	10/10	37	5.0	1.4	1.0	1	1	15.8
Bragg	33.8 abcd	7/25	10/20	46	7.3	1.9	1.0	1	2	15.3
Coker 842	33.6 abcd	7/19	10/09	36	4.5	1.0	1.0	1	1	12.8
Green Soy 74-64	33.3 abcde	7/17	10/18	37	5.5	1.1	1.0	1	2	15.4
McNair 3131	33.1 abcdef	8/02	10/15	42	8.3	1.3	1.0	1	1	15.7
FFR 667	32.9 abcdefg	7/21	10/17	39	6.3	1.4	1.0	1	1	15.4
Govan	32.8 abcdefg	7/26	10/24	44	6.3	1.4	1.0	1	1	15.0
Lee 74	32.7 abcdefg	h 7/21	10/17	29	4.5	1.4	1.0	1	1	13.3
FFR 6105	32.2 abcdefg	h 7/24	10/17	41	6.0	1.5	1.0	1	1	14.9
Cobb	32.1 abcdefg	_h 7/26	10/26	46	7.3	1.4	1.0	1	1	15.2
Ransom	31.2 bcdefg	hi 7/22	10/17	40	6.0	1.5	1.0	1	1	16.1
McNair 800	30.8 bcdefg	hi 8/05	10/14	38	7.5	1.0	1.0	1	1	11.4
RA 700	30.6 jbcdefg	hi 7/29	10/22	44	7.0	2.1	1.0	1	1	13.7
Agripro AP70	30.4 jbcdefg	hi 7/21	10/16	48	8.5	2.1	1.0	1	1	13.4
Tracy	29.9 jbcdefg		10/03	40	4.5	2.4	1.0	1	2	15.4
Centennial	29.9 jbcdefg		10/12	30	4.8	1.5	1.0	1	1	12.4
Hutton	29.7 jbcdefg		10/23	44	6.3	1.9	1.0	1	1	18.2
McNair 600	29.3 j cdefg		10/06	40	4.8	2.1	1.0	1	2	10.3
Coker 73-410	29.2 jk defg	•	10/26	47	6.8	1.3	1.0	2	1	17.3
FFR 666	28.4 jkl efg		10/04	26	3.3	1.3	1.0	1	2	13.1
FFR 556	28.4 jk1 efg		9/27	51	6.0	2.0	1.0	1	2	17.1
FFR 7027	27.9 jkl fg		10/21	45	5.8	1.9	1.0	1	1	14.4
Lancer		hi 7/20	9/27	32	5.3	1.0	1.5	1	1	15.3
Coker 338		hi 7/28	10/28	44	6.3	2.0	1.0	1	2	16.5
D&PL 154	26.4 jk1mn	i 7/19	9/21	33	4.8	1.0	1.0	1	1	14.6
Davis	25.5 jk1mn	7/20	9/29	39	5.8	1.6	1.3	1	2	14.0
Essex	25.5 jklmno	7/12	9/03	19	2.0	1.0	2.0	1	2	12.4

Table ³⁵(con't) Yield, First Bloom and Date of Maturity, Plant Height, Lodging, Shattering, Seed Quality, Purple, and Seed Size of Soybean Varieties when Planted May 26, 1976, at Prattville Experiment Field

Variety	Yie	_{ld} 1/	lst bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st $\frac{2}{\text{pod}^2}$	Lodging2/	Shattering2/	Seed ² / quality	Purple stain	Seed size
	Bu/A	A	Dates	Dates	In.	In.	Rating	Rating	Rating	Rating	g/100 seed
RA(a) 23	24.a	k1mno	7/14	9/08	30	2.5	1.3	1.8	2	2	11.9
RA 602	24.1	1mno	7/13	10/04	33	4.5	1.4	1.3	1	2	13.9
Forrest	22.8	mnop	7/13	9/08	25	3.8	1.0	1.0	. 2	2	10.9
McNair 3161	22.8	mnop	7/17	9/20	25	3.5	1.0	1.0	2	1	13.0
Coker 136	22.2	nop	7/15	9/13	26	4.8	1.0	1.0	1	2	11.1
Mack	20.1	op	7/14	9/08	25	2.8	1.1	1.0	1	- 2	11.6
RA 601	19.0	r F	7/14	9/18	57	5.0	2.4	1.3	2	2	13.4
C.V. %	10.3	-									

 $[\]frac{1}{Y}$ ield adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05). $\frac{2}{A}$ explanation of data and ratings is given on page 3 of this report.

Table 37 Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted May 21 at Prattville Experiment Field, 1976 and 1977

Variety	Yield $\frac{1}{}$	1st bloom_3/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod ² /	Lodging2/	Shattering <u>2</u>	1.	
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	:	. •
McNair 800	38.5	8/05	10/14	36	6.3	1.8	1.0		
Ransom	38.4	7/22	10/17	36	5.6	1.9	1.0		
Coker 842	38.4	7/19	10/12	33	3.5	1.2	1.0		
Bragg	37.9	7/25	10/18	42	5.9	2.5	1.0		•
Cobb	37.8	7/26	10/21	43	6.0	2.1	1.0		
McNair 3131	37.8	8/02	10/16	38	6.9	1.9	1.0		
Lee 74	36.8	7/21	10/15	29	3.1	1.7	1.0		
McNair 600	36.2	7/20	10/08	37	3.5	2.3	1.0		
Coker 338	36.0	7/28	10/22	41	5.1	2.2	1.0		•
Lancer	34.7	7/20	9/30	30	4.0	1.0	1.3		
Hutton	34.6	7/26	10/19	40	4.6	2.9	1.0		
£FFR 666	34.3	7/20	10/07	26	2.5	1.6	1.0	•	
[∞] Davis	34.1	7/20	10/01	34	3.9	1.8	1.1		
Centennia1	34.0	7/14	10/11	31	4.0	1.7	1.0		
Tracy	31.6	7/17	10/06	35	3.0	2.1	1.0		
Essex	31.3	7/12	9/13	20	3.1	1.0	2.0		
Coker 136	29.6	7/15	9/19	29	5.1	1.3	1.0		
Forrest	29.6	7/13	9/21	27	4.1	1.4	1.0		
Mack	28.4	7/14	9/17	25	3.3	1.6	1.0		

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

 $\overline{3}$ /First bloom data for 1977 only.

 $[\]frac{2}{4}$ An explanation of data and ratings is given on page 3 of this report. First bloom not taken 1976.

Table 38. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Shattering, and Lodging of Soybean Varieties Planted June 21 at Prattville Experiment Field, 1976-77

Variety	Yield1/	1st bloom <u>2</u> /	.Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering2/	
<u> </u>	Bu/A	Dates	Dates	In.	In.	Rating	Rating	. •
Green Soy 74-	-64 39.9	8/05	10/22	30	5.3	1.5	1 .	
Cobb	38.4	8/14	10/28	33	3.0	1.8	1	
Coker 338	38.3	8/13	10/26	33	3.4	2.2	1	
McNair 600	37.7	8/05	10/21	29	2.9	1.6	1	
Hutton	37.7	8/12	10/25	33	3.4	2.3	1 .	
Bragg	36.0	8/09	10/24	33	3.6	2.4	1	
Ransom	35.9	8/09	10/25	28	4.1	1.9	1	
McNair 800	35.2	8/13	10/23	27	4.3	1.5	1	
Coker 136	33.6	8/03	10/10	28	4.4	1.3	1	
Tracy	33.5	8/05	10/15	30	3.9	2.2	1	
Centennial	33.2	8/05	10/17	32	4.0	1.8	1	
Essex	32.9	8/01	10/09	19	2.1	1.0	1	
Lancer	32.1	8/08	10/14	29	4.0	1.4	1	
Forrest	30.0	8/01	10/08	26	3.4	1.7	1	
Davis	29.9	8/10	10/16	28	3.1	1.6	1	
Mack	29.8	8/03	10/07	25	2.1	2.1	. 1	
Lee 74	29.5	8/08	10/22	22	2.9	1.8	<u> </u>	

 $[\]frac{1}{2}$ /Yields adjusted to 13% moisture and 60 pounds per bushel. $\frac{2}{4}$ /An explanation of data and ratings is given on page 3 of this report.

Table 39. Three-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted May 21 at Prattville Field 1975 through 1977

Variety	Yield1/	lst bloom2/	.Maturity2/	Plant ht. $\frac{2}{}$	Ht. 1st	Lodging2/	Shattering ² /	·
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	•
Ransom	37.8	$7/20^{3/}$	10/17	37	5.8	2.1	1,	
Coker 338	37.4	$7/26\frac{3}{}$	10/24	40	5.3	2.3	1	
Coker 842	37.4	7/18 <u>3</u> /	10/10	35	4.8	1.6	1	
Essex	36.8	$7/08\frac{3}{2}$	9/14	23	3.4	1.2	2	• •
Bragg	35.8	$7/23\frac{3}{2}$	10/17	42	6.8	3.0	1	
McNair 800	35.7	$8/02\frac{3}{4}$	10/14	37	6.5	2.3	1	
Hutton	35.7	$\frac{7}{25}\frac{3}{2}$	10/22	39	5.0	3.3	1	
Lee 74	35.4	7/183/	10/14	31	4.2	2.1	1	
McNair 600	35.2	7/17 <u>3</u> /	10/09	36	4.6	2.6	1	
FFR 666	34.7	7/17 <u>3</u> /	10/07	28	3.3	1.8	1	
_D Davis	34.2	7/21 <u>3</u> /	10/01	35	5.1	2.3	1	
Centennial	33.6	$7/13\frac{3}{2}$	10/11	35	5.2	2.0	1	
Tracy	33.3	$7/16\frac{3}{}$	10/05	37	6.5	2.3	1	
Coker 136	33.1	$7/15\frac{3}{3}$	9/19	32	5.8	1.9	1	
Lancer	32.6	7/19 3 /	9/30	34	5.5	1.5	1	
Forrest	32.3	$7/10\frac{3}{2}$	9/20	29	5.3	2.0	1	
Mack	32.1	$7/11\frac{3}{}$	9/17	28	4.1	2.3	1 .	

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

 $[\]frac{2}{4}$ An explanation of data and ratings is given on page 3 of this report. First bloom not taken 1976 on first planting. $\frac{2}{4}$ First bloom dates for 1975 and 1977 only.

Table 40 Three -year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted June 22 on Prattville Field, 1975 through 1977

	Yield1/	1st bloom2/	.Maturity2/	Plant ht. $\frac{2}{}$	Ht. 1st	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Cobb	37.1	8/14	10/29	35	3.3	2.1	1
Coker 338	35.8	8/11	10/26	33	3.3	2.3	1
Hutton	35.5	8/11	10/25	33	3.8	2.7	1
McNair 600	34.1	8/04	10/18	30	3.7	2.1	1
Bragg	33.8	8/08	10/23	34	3.7	2.6	1
Tracy	32.6	8/05	10/16	31	3.8	2.3	1
Ransom	32.5	8/08	10/25	29	4.4	2.1	1
McNair 800	31.5	8/13	10/22	28	4.7	2.0	1 .
Coker 136	31.4	8/04	10/09	29	4.6	1.7	1
Centennial	30.9	8/04	10/16	33	4.6	2.3	1
Lancer	29.4	8/08	10/14	31	4.8	1.7	. 1
Essex	29.3	7/31	10/06	20	2.3	1.1	1
Davis	28.8	8/09	10/15	30	3.4	2.3	1
Lee 74	28.6	8/03	10/21	25	2.4	2.4	1
Forrest	27.9	8/01	10/06	27	3.5	2.4	1
Mack	26.5	8/03	10/03	27	2.2	2.5	1

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

^{2/}An explanation of data and ratings is given on page 3 of this report.

Table 41. Four-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Shattering, and Lodging of Soybean Varieties Planted at Prattville Experiment Field, 1974 through 1977

Variety	Yield1/	lst bloom <u>2</u> /	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering ² /	
VGLICLY	Bu/A	Dates	Dates	In.	In.	Rating	Rating	
	DU/11	Dates				lanting date Ma		
Ransom	40.1	7/22 <u>3</u> /	10/18	38	6.3	2.2	1.0	
Essex	38.8	$7/11\overline{3}/$	9/16	24	3.8	1.1	1.7	
Coker 338	38.6	$7/26\overline{3}/$	10/24	41	5.1	2.4	1.0	
Lee 74	37.9	$7/20\overline{3}/$	10/14	32	4.9	2.2	1.0	
Hutton	37.6	7/27 <u>3</u> /	10/22	40	5.3	3.4	1.0	
Tracy	37.5	7/173/	10/07	38	6.4	2.6	1.0	
Bragg	37.4	$7/24\overline{3}/$	10/18	43	7.1	3.3	1.0	
Davis	37.0	7/233/	10/02	36	5.3	2.5	1.1	
McNair 600	37.0	7/18 <u>3</u> /	10/08	37	4.9	2.8	1.0	
McNair 800	36.8	8/02 <u>3</u> /	10/14	36	6.3	2.5	1.0	
FFR 666	36.6	$7/17\frac{3}{2}$	10/07	28	3.4	1.7	1.0	
Coker 136	35.6	7/18 <u>3</u> /	9/21	34	6.1	1.8	1.0	
Forrest	35.5	7/123/	9/21	31	5.2	1.9	1.0	
			Four	-year avera	ge planting	date June 21		
Cobb	37.6	8/14	11/01	36	3.8	2.3	1	
Coker 338	35.1	8/01	10/27	34	3.6	2.5	1	
Hutton	34.6	8/11	10/27	33	3.9	2.5	1	
McNair 600	33.6	8/05	10/20	30	3.5	2.1	1 .	
Bragg	33.6	8/08	10/25	34	4.0	2.8	1	
Tracy	31.9	8/05	10/21	32	3.8	2.4	1	
McNair 800	31.9	8/13	10/21	28	4.2	2.0	1	
Coker 136	31.0	8/05	10/11	30	4.1	1.9	1	
Ransom	30.4	8/08	10/26	30	4.3	1.9	1	
Davis	30.1	8/09	10/16	31	3.0	2.3	1	
Forrest	29.8	8/02	10/09	27	3.3	2.6	1	
Essex	29.6	8/01	10/06	21	2.4	1.1	1	
Lee 74	27.9	8/04	10/25	25	2.5	2.2	1	

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

2/An explanation of data and ratings is given on page 3 of this report.

3/First bloom date for 1974, 1975, and 1977.

Table 42. Five-Year Averages for Yield, First Bloom, and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybean Varieties Planted at Prattville Experiment Field 1973 through 1977

Variety	Yield1/	1st bloom2/	,Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering2/
variety	Bu/A	Dates	Dates	In.	In.	Rating	Rating
	Du/A	Dates	Five			anting date May	
Essex	36.2	$7/10\frac{3}{2}$	9/16	23	3.3	1.1	2
Ransom	36.0	$7/22\frac{3}{3}$	10/15	37	5.7	1.9	1
Davis	34.4	$7/23\frac{3}{2}$	10/01	. 36	4.9	2.3	1
Lee 74	34.1	$7/20\frac{3}{2}$	10/12	31	4.3	2.0	1
Tracy	34.0	$7/17\frac{3}{2}$	10/05	37	5.8	2.4	1
Coker 338	34.0	$7/21\frac{3}{2}$	10/22	41	5.0	2.2	1
Hutton	33.6	$7/27\frac{3}{4}$	10/20	39	5.4	3.0	1
Bragg	33.3	7/24 <u>3</u> /	10/16	41	7.2	2.9	1
Coker 136	33.1	$7/18\frac{3}{2}$	9/20	34	5.9	1.7	1
FFR 666	33.1	7/17 <u>3</u> /	10/07	27	2.9	1.6	1
Forrest	33.0	$7/12\frac{3}{}$	9/20	30	4.5	1.7	1
McNair 600	32.9	$7/17\frac{3}{2}$	10/06	36	4.5	2.4	1
McNair 800	32.8	8/02 <u>3</u> /	10/12	36	6.1	2.3	1
			Five	-year avera	ge late pla	nting date June	e 19
Coker 338	31.3	8/10	10/27	36	4.6	2.2	1
McNair 600	30.7	8/05	10/17	31	3.4	1.9	1
Hutton	30.7	8/10	10/24	33	4.4	2.3	1
Bragg	30.2	8/07	10/23	34	4.3	2.4	1
Tracy	29.1	8/04	10/19	32	3.8	2.1	1
Coker 136	28.5	8/04	10/07	30	4.6	1.7	. 1
McNair 800	28.0	8/12	10/19	28	4.3	1.8	1
Forrest	28.0	8/01	10/05	27	3.4	2.3	1
Essex	27.9	7/31	10/03	21	2.7	1.1	1
Davis	27.6	8/08	10/13	31	3.4	2.1	1
Ransom	27.6	8/07	10/23	30	4.2	1.7	. 1
Lee 74	25.9	8/04	10/22	26	3.0	2.0	1

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

 $[\]overline{2}/\text{An}$ explanation of data and ratings is given on page 3 of this report.

^{3/}First bloom dates for 1973, 1974, 1975, and 1977 only for early planting date.

Southern Alabama

The tests in southern Alabama were on a Benndale sandy loam at Brewton, Malbis fine sandy loam at Fairhope, Lucedale sandy loam at Monroeville, and Dothan sandy loam at Headland. Soybean of Maturity Group VIII are full season varieties in the southern Alabama locations. For a full season variety to yield well it must have good rainfall during podfill period (usually during September and early October). As can be seen by table 1, there has been excellent rainfall at all southern locations for the past 5 years at Bewton, Fairhope, and Headland and the past 2 years at Monroeville. Because of excellent rainfall during pod fill the leading three or four varieties at each location are Maturity Group VII or VIII varieties.

Hutton has been the most consistent yielder at both Brewton and Fairhope. Other Group VIII varieties that yield well are Coker 338 and Cobb.

Ransom and Bragg were frequently in the top five or six yielding varieties in the southern locations for the past 5 years.

McNair 600, Davis, and Tracy have been the best yielding Group VI varieties in southern lcoations.

Lines that have performed well for the past 3 years were Coker 842 at Fairhope and Brewton and for the past 2 years McNair 3131 was a high yielding line at Brewton early planting and Monroeville.

New lines that performed well in southern Alabama in 1977 were Coker 73-370, Ga. Soy 17, Agripro AP70, and McNair 3183. These lines were in the top three yielding varieties in one or more of the three southern locations with Coker 73-370 yielding over 62 Bu/A at Brewton.

Table 43. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, Shattering, Seed Quality, Purple, Stain, and Seed Size of Soybean Varieties when Planted May 30, 1977, at Brewton Experiment Field

		lst 2/	2 /	Plant	Ht. 1st			Seed2/	Purple	_
Variety	Yield1/	bloom2/	Maturity ² /	ht. <u>2</u> /	pod ² /	Lodging2/	Shattering2/	quality	stain	size
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	Rating	Rating	g/100 seed
Coker 73-370	62.4 a	7/22	10/16	32	2.8	1.0	1.0	2	1	18.4
Cobb	58.0 ab	7/29	10/28	35	2.8	1.0	1.0	2	1	17.1
Ga. Soy 17	57.1 abc	7/26	10/12	32	3.3	1.0	1.0	. 1	1	15.6
Hutton	56.5 abc	7/25	10/14	34	3.3	1.0	1.0	2	1	20.0
Agripro AP70	55.4 bc	7/25	10/16	34	3.0	1.0	1.0	1	1	15.0
Coker 842	54.3 bcd	7/19	10/08	29	2.8	1.0	1.0	2	1	14.8
Terra Vig 708	53.5 bcde	7/21	10/13	31	2.0	1.0	1.0	1	1	18.1
Coker 73-410	53.1 bcde	7/27	10/20	38	2.3	1.0	1.0	1	1	16.9
Bragg	52.8 bcde	7/23	10/16	34	2.8	1.0	1.0	1	1	17.3
Ransom	52.2 bcdef	7/23	10/18	31	2.3	1.0	1.0	2	1	17.6
McNair 3131	52.2 bcdef	7/28	10/19	33	3.3	1.0	1.0	2	1	18.0
FFR 6105	51.6 bcdef	7/24	10/08	35	4.3	1.0	1.0	2	1	15.3
Davis	51.2 bcdef	7/20	10/06	31	4.0	1.0	1.3	2	2	16.7
Coker 338	50.9 g cdef	7/25	10/21	36	2.8	1.3	1.3	2	1	18.4
Govan	50.1 g cdef	7/25	10/14	32	2.8	1.0	1.0	1	1	14.5
Agripro AP80	48.0 gh def	7/30	10/16	37	2.0	1.5	1.5	2	1	16.8
Centennial	48.0 gh def	7/17	10/06	33	3.3	1.0	1.0	1	1	14.7
Tracy	47.8 ghidef	7/14	10/06	32	3.3	1.5	1.8	2	2	19.2
McNair 600	47.8 ghidef	7/19	10/08	30	3.0	1.0	1.0	2	1	15.0
RA 700	47.8 ghidef	7/28	10/16	41	2.5	1.0	1.0	2	1	16.0
Lee 74	46.3 ghi ef	7/20	10/09	25	2.5	1.0	1.0	1	1	14.5
McNair 800	45.4 ghij f	7/28	10/07	29	3.0	1.3	1.3	2	1	12.9
FFR 6111	43.9 ghij	7/25	10/11	38	4.0	1.3	1.0	2	1	16.1
FFR 7027	42.5 hij	7/25	10/11	33	3.5	1.0	1.0	1	1	16.4
Forrest	41.8 hij	7/23	9/15	25	3.8	1.0	1.0	1	1	13.5
Lancer	41.0 hij	7/11	9/13	30	3.8	1.0	1.0	2	1	16.8
	41.2 nij 40.8 ij	7/21	9/24	18	1.8	1.0	1.0	2	2	16.4
Essex	40.6 IJ 39.0 i	7/13	10/08	22	2.0	1.0	1.0	2	1	15.8
FFR 666 Coker 136	39.0 j	7/16 7/15	9/15	30	5.3	1.0	1.0	2	2	15.0
	30.0 J 32.5 k	7/13 7/13	9/13	22	2.5	1.0	1.0	2	1	15.6
Mack C.V. %	8.9	//13	3/44		4.5	1.0	1.0			17.0

 $^{1/\}text{Yield}$ 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 3 of this report.

Table 44. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, Shattering, Seed Quality, Purple Stain, and Seed Size of Soybean Varieties when Planted June 22, 1977, at Brewton Experiment Field

Variates	Yield ¹ /	1st bloom2/	Maturity2/	Plant ht.2/	Ht. 1st	T = 1= 2 - 2 /	Shattering2/	Seed ² /	Purple 2/	
Variety	Bu/A	Dates	Dates	In.	In.	Lodging2/ Rating	Rating Rating	quality Rating	stain Rating	size
Cobb	51.1 a	8/11	11/04	33	3.3	1.0	1.0	1	2	17.1
Hutton	48.2 ab	8/08	10/17	29	2.5	1.0	1.0	1	1	19.3
Coker 338	47.6 abc	8/10	10/26	28	2.3	1.3	1.0	1	1	17.5
Davis	46.7 abc	8/09	10/15	28	2.0	1.0	1.0	1	1	16.5
Coker 73-410	46.5 abc	8/11	10/24	32	2.0	1.0	1.0	1	1	16.1
Ga. Soy 17	46.5 abc	8/08	10/16	26	2.3	1.0	1.0	1	1	15.1
Bragg	44.8 bcd	8/08	10/17	26	2.3	1.0	1.0	2	1	15.4
Ransom	44.8 bcd	8/06	10/20	30	2.5	1.0	1.0	1	1	13.6
racy	44.6 bcd	8/06	10/07	28	3.3	1.0	2.8	2	2	19.3
McNair 800	42.9 bcd	8/12	10/15	25	3.0	1.0	1.0	1	1	12.9
Coker 842	42.4 cde	8/05	10/11	23	2.8	1.0	1.5	1	1	14.7
icNair 600	40.8 f de	8/04	10/07	26	2.5	1.0	1.0	2	1	14.8
Centennial	39.5 fg de	8/03	10/06	28	4.3	1.0	1.3	1	1	14.0
Lancer	37.6 fg e	8/10	10/03	29	3.5	1.0	2.0	1	1	15.2
Lee 74	36.1 fgh	8/06	10/10	21	2.3	1.0	1.0	1	1	14.8
Essex	34.6 gh	7/25	9/25	22	2.8	1.3	1.0	2	1	14.3
Forrest	34.4 gh	8/01	9/27	27	3.8	1.3	1.0	1	1	12.5
Coker 136	32.1 hi	8/05	9/28	25	4.5	1.0	1.0	1	2	14.0
FR 666	28.4 i	8/03	10/08	20	2.0	1.0	1.0	1	2	15.4
lack	28.2 i	8/03	9/23	24	3.3	1.0	1.0	1	1	14.2
C.V. %	8.0						,			

 $[\]frac{1}{2}$ /Yield adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different (P = .05). $\frac{1}{2}$ /An explanation of data and ratings is given on page 44 of this report.

Table 45 Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties when Planted June 4, at Brewton Field, 1976-77

Variety	Yield1/	1st bloom2/	.Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod ² /	Lodging2/	Shattering2/	
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	
Cobb	53.8	8/03	10/31	37	2.8	1.3	1.0	
Hutton	52.9	7/31	10/18	35	3.4	1.1	1.0	
McNair 3131	51.2	8/01	10/19	32	2.6	1.0	1.0	
Bragg	49.5	7/28	10/16	36	3.3	1.0	1.0	
Ransom	49.4	7/28	10/18	32	2.6	1.0	1.0	
Coker 338	48.8	7/30	10/22	35	2.8	1.1	1.1	
Coker 842	48.4	7/23	10/09	27	2.1	1.0	1.0	
McNair 800	45.0	7/31	10/11	30	3.0	1.1	1.1	
McNair 600	44.4	7/25	10/10	29	2.1	1.0	1.0	
Davis	43.8	7/27	10/07	31	3.4	1.0	1.1	
Tracy	42.4	7/21	10/11	32	2.1	1.3	2.6	
Lee 74	42.2	7/26	10/12	25	2.3	1.0	1.0	
Centennial	42.0	7/23	10/09	32	2.5	1.0	1.0	
Lancer	41.1	7/28	9/28	31	3.6	1.0	1.1	
Forrest	39.0	7/19	9/19	26	3.3	1.0	1.0	
Essex	37.3	7/20	9/22	20	1.5	1.0	1.0	
Coker 136	36.9	7/23	9/20	30	4.4	1.0	1.0	
FFR 666	35.8	7/24	10/09	22	1.5	1.0	1.0	
Mack	32.9	7/20	9/24	25	2.4	1.0	1.0	

 $[\]underline{1}$ /Yields adjusted to 13% moisture and 60 pounds per bushel.

 $[\]overline{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 46. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties when Planted June 20 at Brewton Field, 1976-77

Variety	Yield1/	1st bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering2/
variety	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Davis	53.5	8/09	10/17	33	2.8	1.1	1.0
Coker 338	51.3	8/09	10/28	33	4.1	1.3	1.0
Hutton	51.1	8/08	10/24	32	3.9	1.9	1.0
Cobb	49.8	8/12	11/04	36	4.3	1.6	1.0
McNair 600	49.7	8/04	10/13	31	2.5	1.1	1.0
Ransom	49.6	8/06	10/24	31	3.5	1.3	1.0
McNair 800	49.4	8/11	10/18	28	3.6	1.0	1.0
Bragg	49.1	8/08	10/21	33	3.0	1.5	1.0
Tracy	46.8	8/04	10/13	33	2.6	1.4	2.5
Centennial	45.9	8/04	10/11	33	4.0	1.4	1.1
Lancer	45.8	8/08	10/10	33	4.1	1.3	1.5
Lee 74	45.6	8/06	10/14	27	3.1	1.4	1.0
Forrest	42.1	7/31	9/28	30	4.5	2.0	1.0
Essex	42.0	7/28	9/26	23	3.8	1.1	1.0
Coker 136	38.2	8/05	9/28	30	6.0	1.6	1.0
Mack	35.0	8/02	9/27	29	4.1	1.9	1.1

 $^{1/\}text{Yields}$ adjusted to 13% moisture and 60 pounds per bushel. 2/An explanation of data and ratings is given on page 3 of this report.

Table 47. Three-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted May 28 on Brewton Experiment Field During 1975 through 1977

Variety	Yield1/	1st bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod2/	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Hutton	52.3	7/30	10/21	30	3.8	1.6	1.0
Cobb	49.0	8/03	10/31	35	3.8	1.3	1.0
Coker 338	48.3	7/30	10/23	31	3.3	1.3	1.1
Ransom	47.7	7/26	10/20	29	3.3	1.0	1.0
Bragg	45.8	7/26	10/17	33	3.9	1.1	1.0
Coker 842	44.1	7/22	10/11	24	2.3	1.0	1.0
Centennial	43.7	7/22	10/12	31	2.8	1.2	1.0
McNair 600	43.6	7/22	10/12	26	2.7	1.0	1.0
Tracy	43.5	7/20	10/11	30	2.6	1.4	1.1
McNair 800	43.3	7/30	10/13	28	3.4	1.1	1.1
Davis	42.6	7/25	10/09	29	3.8	1.6	1.1
Lee 74	42.2	7/24	10/14	23	2.4	1.0	1.0
Lancer	40.0	7/27	10/01	30	4.2	1.0	1.1
Coker 136	39.4	7/21	9/26	29	4.8	1.1	1.0
Forrest	39.4	7/16	9/24	25	3.6	1.0	1.0
Essex	38.6	7/17	9/29	19	2.0	1.0	1.0
FFR 666	36.4	7/22	10/11	19	1.7	1.0	1.0
Mack	36.1	7/18	9/28	24	2.8	1.0	1.0

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

 $[\]overline{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 48. Three-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted June 22 on Brewton Experiment Field During 1975 through 1977

Variety	Yield1/	1st bloom <u>2</u> /	,Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod^2	Lodging2/	Shattering2/
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Davis	47.5	8/11	10/19	32	3.9	1.1	1.0
Coker 338	47.2	8/10	10/28	32	4.9	1.2	1.0
Hutton	46.5	8/09	10/25	31	4.3	1.6	1.0
Cobb	45.7	8/15	11/04	34	4.8	1.5	1.0
Ransom	45.6	8/07	10/25	31	4.3	1.1	1.0
McNair 600	44.9	8/05	10/16	30	3.1	1.1	1.0
Bragg	44.9	8/09	10/22	32	3.8	1.3	1.0
McNair 800	43.8	8/13	10/19	26	4.2	1.0	1.0
Tracy	43.5	8/05	10/14	31	3.3	1.2	2.0
Lee 74	40.5	8/06	10/18	25	3.1	1.2	1.0
Forrest	38.3	8/02	10/03	29	4.8	1.8	1.0
Essex	37.1	7/29	10/03	23	3.8	1.1	1.0
Coker 136	34.9	8/05	10/06	27	5.1	1.5	1.0
Mack	34.7	8/03	10/02	28	4.8	1.9	1.1

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

 $[\]overline{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table ⁴⁹. Four-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted at Two Dates on Brewton Experiment Field During 1974 through 1977

Variety	Yield1/	1st bloom <u>2</u> /	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod_2^2	Lodging ² /	Shattering ² /	
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	
					ig date May	29		
Hutton	52.0	7/29	10/20	31	4.2	1.7	1.2	
Coker 338	48.8	7/29	10/22	32	3.5	1.5	1.3	
Ransom	46.6	7/24	10/18	29	3.6	1.3	1.2	
McNair 800	44.3	7/30	10/12	29	3.7	1.3	1.3	
Bragg	44.1	7/26	10/16	33	4.2	1.4	1.2	
Tracy	43.7	7/20	10/09	30	2.6	1.6	2.3	
Davis	43.4	7/26	10/08	31	3.9	1.7	1.3	
McNair 600	43.2	7/21	10/10	26	2.6	1.3	1.2	
Lee 74	40.7	7/23	10/12	22	2.3	1.3	1.2	
Forrest	39.7	7/16	9/24	26	3.8	1.3	1.2	
Essex	39.3	7/15	9/28	19	2.3	1.3	1.2	
Coker 136	38.0	7/21	9/26	29	5.1	1.3	1.2	
FFR 666	34.8	7/21	10/10	18	1.6	1.3	1.2	
			Avera	ge plantin	g date June	28		
Cobb	43.2	8/18	11/01	32	4.7	1.6	1.2	
Davis	43.0	8/13	10/18	29	3.6	1.4	1.2	
Coker 338	41.8	8/12	10/25	29	4.3	1.4	1.2	
Hutton	39.4	8/12	10/23	27	3.7	1.8	1.2	
McNair 600	39.2	8/08	10/15	27	2.7	1.3	1.2	
Ransom	39.1	8/10	10/23	28	3.7	1.4	1.2	
Bragg	38.7	8/12	10/20	28	3.4	1.5	1.2	
McNair 800	37.9	8/15	10/18	22	3.4	1.3	1.2	
Tracy	37.6	8/07	10/14	27	2.9	1.4	2.2	
Lee 74	35.7	8/08	10/17	23	2.8	1.4	1.2	
Forrest	34.6	8/05	10/04	26	4.4	1.9	1.2	
Essex	33.4	8/02	10/04	21	3.3	1.3	1.2	
Coker 136	29.4	8/09	10/07	24	4.3	1.6	1.2	

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

 $[\]overline{2}/An$ explanation of data and ratings is given on page 3 of this report.

Table 50. Five-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted on Brewton Experiment Field During 1973 through 1977

Variety	Yield1/	lst bloom2/	.Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod^{2}	Lodging2/	Shattering2/	
variety	Bu/A	Dates	Dates	In.	In.	Rating	Rating	
			Ave	rage early p	planting dat	te May 29	_	
Hutton	49.8	7/29	10/23	32	4.7	1.4	1.0	
Coker 338	47.2	7/28	10/24	31	3.9	1.3	1.1	
Ransom	45.0	7/24	10/20	28	3.8	1.1	1.0	
Bragg	42.5	7/25	10/18	33	4.5	1.2	1.0	
McNair 800	42.4	7/31	10/12	29	4.0	1.1	1.1	
Tracy	42.1	7/19	10/13	30	2.9	1.3	2.1	
McNair 600	41.3	7/21	10/12	26	2.9	1.1	1.0	
Davis	40.2	7/26	10/10	30	4.1	1.4	1.1	
Lee 74	39.7	7/22	10/14	23	2.5	1.1	1.0	
Forrest	37.0	7/17	9/26	25	3.6	1.1	1.0	
Essex	36.2	7/16	9/30	19	2.7	1.1	1.0	
Coker 136	35.4	7/22	9/27	29	5.4	1.1	1.0	
FFR 666	32.9	7/21	10/13	19	2.0	1.1	1.0	
			Ave	rage late pi	lanting date	June 27		
Coker 338	40.7	8/12	10/27	30	4.8	1.2	1.0	
Davis	39.4	8/14	10/19	29	4.3	1.2	1.0	
Hutton	38.5	8/13	10/24	27	4.2	1.5	1.0	
McNair 600	37.7	8/07	10/16	27	3.3	1.1	1.0	
Bragg	36.7	8/12	10/20	29	3.8	1.3	1.0	
Ransom	35.7	8/10	10/25	27	3.8	1.2	1.0	
McNair 800	35.4	8/15	10/19	23	3.7	1.1	1.0	
Tracy	35.1	8/07	10/17	27	3.3	1.2	2.0	
Lee 74	34.2	8/09	10/19	23	3.1	1.2	1.0	
Forrest	32.5	8/05	10/05	27	4.5	1.6	1.0	
Essex	30.4	8/02	10/05	21	3.2	1.1	1.0	
Coker 136	28.6	8/09	10/07	24	4.9	1.4	1.0	

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

 $[\]frac{2}{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 51. Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybeans Varieties when Planted June 3, 1977, at Gulf Coast Substation

Variety	Yield	1/	1st bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st pod^2	Lodging2/	Shattering ²	/	
	Bu/A		Dates	Dates	In.	In.	Rating	Rating	-	
Agripro AP70	51.1 a		7/25	10/16	30	4.5	1.0	1		
Coker 73-370	50.2 a		7/24	10/16	28	4.5	1.0	1	•	
Coker 338	48.9 a		7/28	10/24	28	3.8	1.3	1		
Agripro AP80	48.5 a		7/28	10/25	30	4.0	1.0	1		
Terra Vig 708			7/26	10/14	25	3.5	1.0	1		
Ransom	48.0 a		7/26	10/18	25	4.8	1.0	1		
Bragg	47.8 a		7/26	10/18	30	5.0	1.0	1		
Ga. Soy 17	47.8 a		7/25	10/18	30 .	4.8	1.0	1		
Govan	47.6 a		7/25	10/18	26	4.0	1.0	1		
Tracy	47.5 a	bcde	7/20	10/10	27	4.0	1.0	1		
Coker 842	46.2 a	bcdef	7/20	10/09	22	2.8	1.0	. 1		
McNair 800	46.0 a		7/29	10/13	27	4.3	1.0	1		
McNair 3183	46.0 a	bcdef	7/25	10/14	27	4.5	1.0	1		•
McNair 600	44.2 a		7/22	10/09	26	3.3	1.0	1		
Centennial	44.2 a	bcefg	7/19	10/09	27	3.8	1.0	1		
Davis		bcdefg	7/24	10/10	22	4.0	1.0	1		
FFR 6111		bcdefg	7/29	10/14	30	4.3	1.0	1		
Lee 74		bcdefg	7/21	10/13	23	3.8	1.0	1		
Hutton	43.2	cdefg	7/27	10/20	29	5.0	1.0	1		•
FFR 666	42.3	cdefg	7/20	10/13	19	2.5	1.0	1		
Coker 136	41.9	cdefg	7/18	9/26	22	3.5	1.0	1		
FFR 6105	41.6	cdefg	7/27	10/12	* 26	3.8	1.0	1		
Lancer	41.2	cdefg	7/24	10/05	25	3.3	1.0	1		
McNair 3131	40.7	defg	7/30	10/16	29	5.3	1.0	1		
Cobb	40.5	efg	7/29	11/01	32	4.3	1.0	1		
Mack	39.4	fg	7/19	9/23	23	3.0	1.3	1		
Forrest	39.0	fg	7/16	9/23	19	2.3	1.0	1		
Essex	39.0	fg	7/17	9/23	14	2.0	1.0	1		
Coker 73-410	36.9	g	7/27	10/21	30	4.5	1.0	1		
C. V. %	10.3									

 $^{1/\}text{Yield}$ 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 3 of this report.

Table 52. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodgings, and Shattering of Soybean Varieties Planted June 4 at Gulf Coast Substation, 1976 and 1977.

Variety	Yield1/	1st bloom <u>2</u> /	.Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering ² /
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Bragg	49.0	7/26	10/17	35	6.4	1.5	1.0 0
Coker 338	48.3	7/29	10/24	35	6.0	1.6	1.0
Coker 842	47.9	7/23	10/13	27	3.9	1.0	1.0
Ransom	47.2	7/27	10/18	30	5.6	1.1	1.0
Hutton	46.7	7/28	10/20	34	6.5	1.6	1.0
Cobb	45.8	7/31	10/29	38	6.5	1.5	1.0
Tracy	44.4	7/23	10/12	31	5.0	1.6	1.4
McNair 600	44.3	7/24	10/12	32	4.4	1.6	1.0
Lee 7 4	43.8	7/24	10/14	29	5.4	1.1	1.0
FFR 66 6	42.8	7/23	10/14	23	3.8	1.0	1.0
Centennial	42.3	7/23	10/11	32	5.0	1.1	1.0
Davis	41.7	7/28	10/08	29	5.3	1.3	1.0
McNair 800	41.7	7/30	10/10	31	4.9	1.3	1.0
Forrest	40.8	7/17	9/26	26	4.1	1.4	1.0
Essex	40.4	7/18	9/28	20	4.0	1.0	1.0
Coker 136	39.9	7/22	9/28	30	6.0	1.5	1.0
Lancer	38.0	7/27	10/05	32	5.3	1.3	1.0
Mack	37.1	7/22	9/27	2 9	4.6	1.6	1.0

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

 $[\]overline{2}/An$ explanation of data and ratings is given on page 3 of this report.

T7	Yield1/	lst bloom <u>2</u> /	Maturity2/	Plant $ht. \frac{2}{}$	Ht. 1st $\frac{1}{\text{pod}^2}$	Lodging2/	Shattering2/
Variety	Bu/A	Dates	Dates	In.	In.	Rating	Rating
	bu/A	Dates	Thr	ee-vear ave	rage planti	ng date June 3	Macing
Bragg	50.1	7/24	10/17	35	6.3	1.5	1.0
Ransom	50.1	7/25	10/16	31	5.6	1.3	1.0
Coker 842	50.1	7/21	10/13	29	4.2	1.0	1.0
Hutton	48.6	7/28	10/21	35	6.5	1.8	1.0
Tracy	47.9	7/21	10/11	31	4.7	1.9	1.3
Coker 338	47.5	7/28	10/23	34	6.0	1.8	1.0
Lee 74	46.4	7/22	10/14	30	5.7	1.2	1.0
McNair 600	46.2	7/22	10/12	32	4.8	1.6	1.0
Cobb	45.3	7/29	10/29	38	6.7	1.8	1.0
FFR 666	45.1	7/21	10/13	25	4.3	1.0	1.0
Forrest	45.0	7/17	9/29	28	4.8	1.3	1.0
Davis	44.9	7/27	10/09	31.	5.3	1.4	1.0
Essex	44.7	7/16	9/27	21	4.4	1.0	1.0
Centennial	44.7	7/21	10/12	34	5.3	1.3	1.0
Coker 136	44.3	7/21	9/29	32	5.8	1.4	1.0
McNair 800	42.6	7/30	10/11	31	5.3	1.6	1.0
Mack	41.0	7/20	9/29	31	4.9	1.6	1.0
Lancer	40.8	7/25	10/06	33	5.7	1.2	1.0
			Fou	r-year aver	age plantin	g date June 5	
Ransom	51.9	7/22	10/16	31	5.8	1.4	1.0
Hutton	51.9	7/26	10/21	35	6.1	1.8	1.0
Bragg	51.4	7/22	10/16	37	6.3	1.6	1.0
Tracy	50.4	7/19	10/09	33	4.4	2.2	1.3
Coker 338	50.1	7/25	10/23	35	5.9	2.0	1.0
Lee 74	49.0	7/20	10/13	29	5.4	1.1	1.0
McNair 600	48.3	7/20	10/12	33	4.6	1.8	1.0
Davis	47.1	7/26	10/08	33	5.3	1.8	1.0
Forrest	46.9	7/15	9/28	29	4 2	1.3	1.0
Cobb	46.8	7/28	10/28	39	6.1	2.4	1.0
Coker 136	45.8	7/20	9/28	33	5.4	1.4	1.0
McNair 800	45.2	7/31	10/12	33	5.4	2.0	1.0
Essex	40.5	7/14	9/27	21	4.0	1.0	1.0

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

 $[\]frac{2}{2}$ /An explanation of data and ratings is given on page 3 of this report.

Table 54. Five-year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, and Lodging of Soybeans Varieties Planted June 4 at Gulf Coast Substation during 1973 through 1977

Variety	Yield1/	1st bloom2/	Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering ² /
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Hutton	51.3	7/27	10/23	37	6.6	1.8	1
Ransom	50.0	7/23	10/19	32	5.8	1.3	1 .
Bragg	49.6	7/23	10/18	37	6.3	1.5	1
Coker 338	49.0	7/26	10/24	37	6.1	1.8	1
Lee 74	47.8	7/23	10/14	30	5.3	1.1	1
Davis	46.9	7/26	10/08	34	5.0	1.6	1
McNair 600	46.4	7/21	10/13	34	4.4	1.6	1
Coker 136	45.0	7/21	10/01	33	5.3	1.3	1
McNair 800	44.8	7/29	10/13	34	5.1	2.0	1
Forrest	44.5	7/18	9/29	29	4.1	1.2	1
Essex	40.8	7/16	9/29	22	3.8	1.0	1

 $^{1/\}text{Yields}$ adjusted to 13% moisture and 60 pounds per bushel. 2/An explanation of data and ratings is given on page 3 of this report.

Table 56.Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybeans Varieties when Planted May 26, 1977, at Monroeville Experiment Station

		lst ,	2.1	Plant	Ht. 1st			Seed2/	Purple	Seed
Variety	Yield1/	$bloom^2$	Maturity2/	ht. <u>2</u> /	pod ² /	Lodging2/	Shattering ² /	quality	stain	size
	Bu/A	Dates	Dates	In.	In.	Rating	Rating	Rating	Rating	g/100 seed
Ransom	57.9 a	7/16	10/22	36	2.0	1.0	1	1	1	19.0
McNair 3183	57.5 ab	7/19	10/18	37	2.3	1.0	1	2	2	17.6
Ga. Soy 17	57.1 abc	7/20	10/23	38	2.5	1.0	1	1	1	16.8
Coker 842	55.8 abcd	7/10	10/13	33	3.0	1.0	1	. 1	1	16.5
Agripro AP80	55.6 abcd	7/23	10/26	42	3.3	1.0	1	1	1	19.3
RA 700	55.2 abcde	7/22	10/23	39	2.3	1.0	1	1	1	17.6
Hutton	54.8 abcde	7/20	10/26	40	2.3	1.0	1	1	1	23.2
McNair 3131	54.8 abcde	7/25	10/24	37	2.5	1.0	1	2	1	19.6
Bragg	53.5 abcdef	7/18	10/23	39	2.5	1.0	1	1	1	18.9
McNair 600	52.8 abcdef		10/13	35	2.5	1.0	1	1	2	17.8
Terra Vig 708	52.6 abcdef		10/16	36	3.0	1.0	1	1	1	19.4
oFFR 6105	52.0 bcdef		10/15	37 .	3.5	1.0	1	1	. 1	19.0
∞ Davis	51.4 h cdef		10/05	36	3.5	1.0	1	1	2	16.5
Coker 338	50.9 h def		10/25	41	2.3	1.0	1	1	1	19.8
Coker 73-410	50.7 h def	•	10/25	44	1.3	1.0	1	1	1	19.3
Agripro AP70	50.0 h def	_	10/17	39	3.0	1.0	1	1	1	16.0
Cobb	50.3 h def	_	11/03	40	2.8	1.0	1	1	1	16.5
FFR 7027	50.3 h def	_	10/18	40	3.0	1.0	1	1	1	18.4
Govan	50.1 h def	_	10/18	38	2.3	1.0	1	1	2	16.1
Tracy	49.5 hi ef	•	10/09	34	2.5	1.0	1.5	2	1	18.9
McNair 800	48.6 hi f	•	10/16	34	2.5	1.0	1	1	1	14.3
Centennial	48.4 hi f	-	10/10	35	3.0	1.0	1	1	1	16.9
FFR 6111	48.2 hi f	•	10/17	38	2.8	1.0	1	1	1	17.5
Lee 74		g 7/14	10/13	29	2.5	1.0	1	1	1	16.3
FFR 666	45.9 hi	7/14	10/10	23	1.8	1.0	1	1	1	17.4
Lancer	45.8 hi	7/14	9/29	34	2.5	1.0	1	2	1	17.9
Forrest	44.1 i	7/14	9/22	30	3.3	1.0	1	1	2	15.0
Essex	37.6 j	7/15	9/24	20	2.0	1.0	1	2	3	19.1
Mack	37.6 j	7/13	9/23	28	2.5	1.0	1	1	2	20.3
Coker 136	36.7 i	7/13	9/25	32	3.3	1.0	1	1	2 .	18.5
C.V. %	7.1	,						*5		

²/An explanation of data and ratings is given on page 3 of this report.

Table 56. Two-Year Averages for Yield, First Bloom and Maturity Dates, Plant and First Pod Heights, Lodging, and Shattering of Soybean Varieties Planted May 25 on Monroeville Experiment Field During 1976 through 1977

Variety	Yield1/	lst bloom_3/	.Maturity2/	Plant ht. <u>2</u> /	Ht. 1st	Lodging2/	Shattering.	2/	
	Bu/A	Dates	Dates	In.	In.	Rating	Rating		•
McNair 3131	51.4	7/25	10/21	33	2.4	1.3	1.0		
Bragg	48.1	7/18	10/20	36	2.6	1.4	1.0		
Hutton	48.1	7/20	10/23	35	2.1	1.6	1.0		
Ransom	48.0	7/16	10/19	32	2.5	1.1	1.0		
Coker 842	48.0	7/10	10/14	29	2.1	1.1	1.0		
Coker 338	47.5	7/20	10/23	37	2.4	1.4	1.0		
McNair 600	46.1	7/14	10/12	32	2.1	1.0	1.0		
Davis	45.9	7/14	10/09	32	2.5	1.0	1.0		
McNair 800	45.9	7/26	10/15	30	2.0	1.3	1.0		
Cobb	45.2	7/25	11/02	39	2.8	1.5	1.0		
Lancer م	42.8	7/14	10/05	32	2.8	1.0	1.1		
°Centennial	42.7	7/14	10/11	34	2.4	1.3	1.0		
Tracy	40.8	7/15	10/10	33	1.8	1.4	1.3		
Forrest	40.2	7/14	9/28	28	3.3	1.0	1.0		
Lee 74	39.0	7/14	10/13	26	1.8	1.0	1.0		
FFR 666	38.7	7/14	10/11	20	1.4	1.0	1.0		
Coker 136	35.0	7/13	9/26	32	3.8	1.5	1.0		
Mack	34.3	7/13	9/27	28	2.4	1.4	1.0		
Essex	31.8	7/15	10/01	20	1.9	1.0	1.0		

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

 $[\]frac{2}{\text{An explanation of data and ratings is given on page }^3}$ of this report. $\frac{3}{1977}$ first bloom dates only.

Table 57.Yield²/of Soybean Varieties when Planted at Wiregrass Substation 1973 through 1977

Variety	1977 bu/A	1976 bu/A	1975-1976 bu/A	1974-1976 bu/A	1973-1976 bu/A
Cobb	34.0 a	38.2	32.9	34.0	<u>3</u> /
Coker 338	33.6 ab	37.6	31.9	35.5	31.1
Davis	28.5 abc	40.7	37.7	40.7	35.3
Bragg	28.2 abc	44.7	37.5	37.9	35.2
Hutton	25.6 abc	37.4	34.7	36.9	33.8
Ransom	25.3 abc	43.7	39.9	40.6	35.6
Tracy	22.9 bc	37.6	38.9	40.5	3/
Centennial	22.4 bc	38.9	36.8	<u>3</u> /	<u>3</u> /
Forrest	22.3 c	27.6	30.9	34.5	30.5
C.V.% for 197	7 test 21.6				

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

2/Due to lack of moisture and severe damage to stands caused by the lesser corn stalk borer the original variety test planted at the Wiregrass Substation was scratched. A late test of 9 varieties was replanted there July 11 to at least render some yield data this year. The four-year average planting date for soybeans there has been May 17. This year's data will be treated as a separate test but it will be compared to the last four year's average data to give you some idea of the potential of these varieties planted at such a late date.

3/Variety was not available for planting.