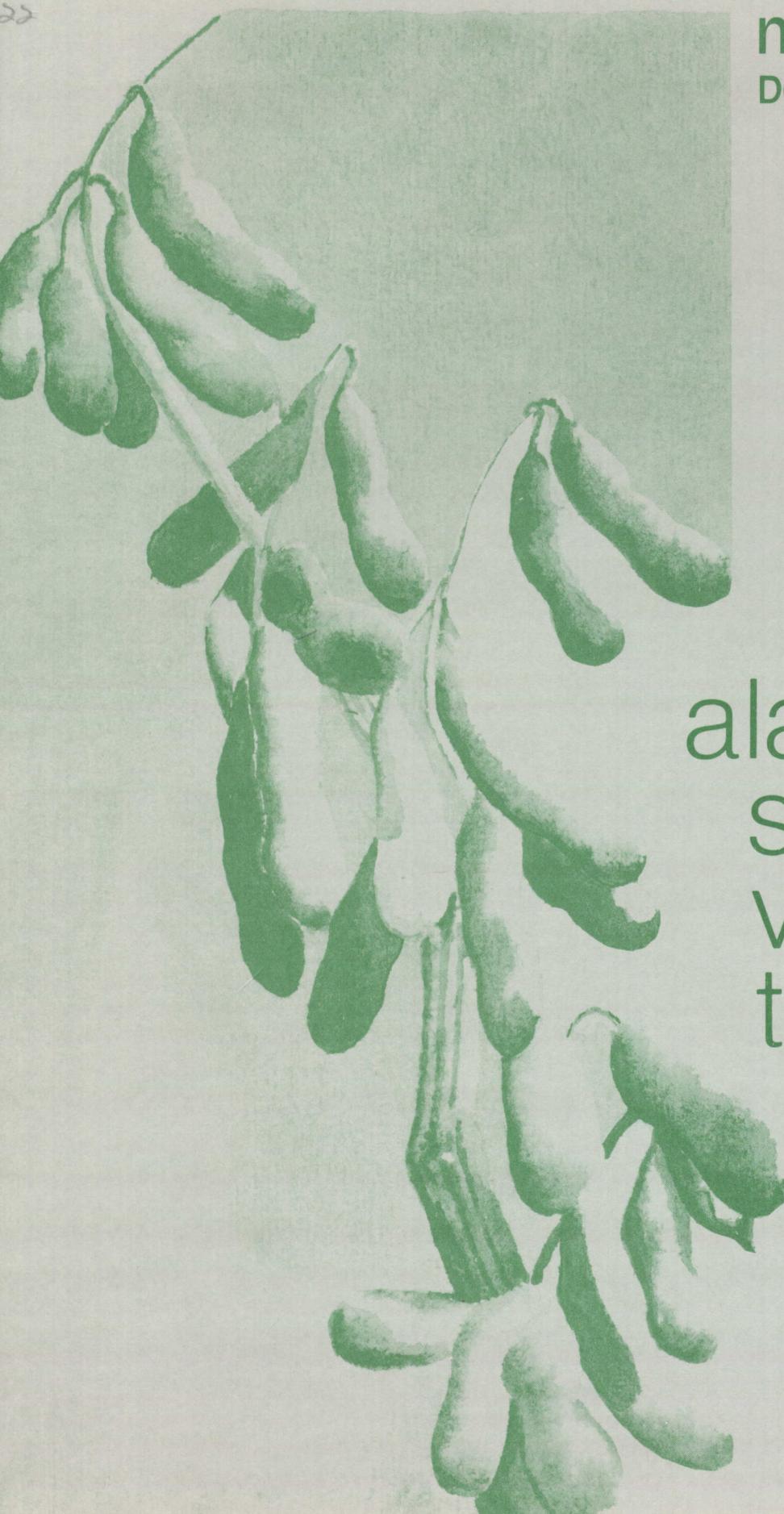


DEPARTMENT OF AGRONOMY & SOILS  
AGRICULTURAL EXPERIMENT STATION  
R. DENNIS ROUSE, Director

DEPARTMENTAL SERIES NO. 22  
AUBURN UNIVERSITY  
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may 1975  
Donald L. Thurlow



alabama  
soybean  
variety  
tests  
1974



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

Northern Alabama

Plantings May 1 to 31

Dare, Essex, Forrest, Lee 68, Lee 74, McNair 600, Tracy, Davis

Plantings June 1 to 30

Dare, Forrest, Lee 68, Lee 74, Tracy, Davis, McNair 800,  
Bragg, Ransom

Central Alabama

Plantings April 20 to May 15

Dare, McNair 600, Lee 74, Davis, Tracy

Plantings May 16 to June 5

Lee 74, McNair 600, Tracy, Davis, McNair 800, Bragg, Ransom,  
Hampton 266A, Hutton

Plantings June 6 to 30

Davis, Bragg, Ransom, Hampton 266A, Hutton, Coker 338

Southern Alabama

Plantings May 15 to May 31

Lee 74, McNair 600, Tracy, Davis, Bragg, Ransom, McNair 800

Plantings June 1 to 30

Davis, Bragg, Ransom, McNair 800, Hampton 266A, Hutton,  
Cobb, Coker 338

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## INTRODUCTION

To properly evaluate a soybean variety it is necessary that it be grown at a number of locations, at various planting dates, and over a period of years. This will subject the variety to differences in soil and climatic conditions that occur throughout the State. The most common limiting factor in soybean production is inadequate moisture during pod development and filling. It is important that varieties from more than one maturity group be evaluated 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 are essential if farmers, county Extension agents, seeds-men, 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 8 locations. One to three planting dates were used at each location with the first plantings made at the optimal 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 30 feet long with 15 feet of two center rows harvested for yield determinations. Row width varied from 36 to 42 inches depending on location. Seeding rates were 10 viable seed per foot of row based on germination at 75°F.

The entries included in these tests were varieties released prior to 1974 and a number of unreleased strains in the late stages of development from the USDA Regional Testing Program. These strains were all yielding above standard varieties in their maturity group and have good nematode resistance.

## DISCUSSION OF DATA

Since field plot research is subject to inherent fertility differences, and soil and soil moisture variations, it is not possible to determine the exact yield 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, long term studies are necessary in order to properly evaluate varietal performance.

Differences in the yield for 1 year's data, which may be due to chance, have been computed using Duncan's Multiple Range Test (5%) level of probability. Yields followed by a common letter are not considered to be different, however means not associated by a common

letter are considered to be different. Coefficients of variation (C.V.) are footnoted in the table. This value reflects the relative precision of the experiment, a small C.V. indicating more precision in estimating the relative performance of varieties.

#### SEASONAL CONDITIONS

Early season moisture was good at all locations and good stands were obtained in all tests. Due to a lack of moisture in the southern part of the State in late June and early July, plants were shorter than normal and lodging was not a problem in these tests. Lodging was, however, a problem in North Alabama at Belle Mina for the second straight year. This may be why the early maturing and shorter varieties produced higher yields at this location than the full season and later maturing varieties.

Later maturing varieties, Maturity Group VI, VII, and VIII, were also killed by frost, October 3, 1974, which occurred approximately 14 days before normal in North Alabama.

Late season moisture (Table 1) was good at all locations in the southern part of the State and resulted in yields of 47 to 62 bu/A for the better varieties planted at the optimum planting time. Table 1 also shows rainfall data from each location for the period August 15 through September 30 over the past 4 years.

Table 1. Rainfall by Location During the Period August 15 through September 30 for 1971, 1972, 1973, and 1974

Location	Rainfall from August 15 to September 30			
	1971 Inches	1972 Inches	1973 Inches	1974 Inches
Black Belt Substation----- (Marion Junction)	8.59	3.85	4.88	9.87
Brewton Field----- (Brewton)	8.17	3.10	8.43	8.19
Gulf Coast Substation----- (Fairhope)	15.58	6.76	12.77	10.40
Prattville Field----- (Prattville)	7.65	4.20	2.95	10.12
Sand Mountain Substation----- (Crossville)	6.54	5.90	8.18	3.96
Upper Coastal Plain Substation- (Winfield)	7.49	4.81	4.82	8.71
Tennessee Valley Substation---- (Belle Mina)	4.32	5.95	3.58	4.49
Wiregrass Substation----- (Headland)	-		6.26	8.73

## DATA RECORDED

In order to select the proper variety many factors must be considered. The yield of a crop is the primary factor of production when profits are to be maximized. Other characteristics which are important are date of first bloom, plant height, height of 1st pod, maturity, lodging, shattering and size of quality seed. Also soybean varieties grown in this area are photoperiodic plants and therefore are effected by planting date.

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 bushel (60 lb.) per acre.

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.

Lodging was based on a scale of 1 to 5 according to the following criteria:

- 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 follows:

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

Plant height was determined as the average length of plants 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 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 - over 20% staining |
| 3 - 4-8% 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 1974, tested over the past 5 years by maturity groups. For more information on these varieties, see Table 2. For additional information of other varieties see Bulletin 413. <sup>17</sup>.

##### Very Early Varieties - Maturity Group V

Dare	Alabama Foundation Seed Stocks Farm, Thorsby, Al.
Essex	" " "
Forrest	Sand Mountain Variety Test 1973
York	" " "

##### Early Varieties - Maturity Group VI

Davis	Sand Mountain Variety Test 1973
Hood	" " "
Lee 68	Alabama Foundation Seed Stocks Farm, Thorsby, Al.
McNair 600	McNair Seed Co., Laurinburg, N. C.
Pickett 71	Sand Mountain Variety Test 1973
Tracy	USDA Delta Branch Experiment Station, Stoneville, Miss.
D64-4636*	Sand Mountain Variety Test 1973
FFR 666	Farmers Forage Research Corporation, W. Lafayette, Ind.
Coker 136	Coker's Pedigreed Seed Co., Hartsville, S. C.
Lee 74	Sand Mountain Variety Test 1973

##### Mid-season Varieties - Maturity Group VII

Bragg	Alabama Foundation Seed Stocks Farm, Thorsby, Al.
McNair 600	McNair Seed Co., Laurinburg, N. C.
Ransom	Alabama Foundation Seed Stocks Farm, Thorsby, Al.
FFR 777	Farmers Forage Research Corp., W. Lafayette, Ind.

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<sup>17</sup>Soybean production--Recent Research Findings, 1971 Auburn University Agricultural Experiment Station, Bulletin 413.

\*Lines not released.

Late Varieties - Maturity Group VIII

Hampton 266A Coker's Pedigreed Seed Co., Hartsville, S. C.  
Hutton Alabama Foundation Seed Stocks Farm, Thorsby, Al.  
Coker 338 Coker's Pedigreed Seed Co., Hartsville, S. C.  
Coker 71-211\*Coker's Pedigreed Seed Co., Hartsville, S. C.  
Cobb Alabama Foundation Seed Stocks Farm, Thorsby, Al.  
W-46 Wanimaker Seed Co.

\*Lines not released

## ACKNOWLEDGMENT

The author wishes to express appreciation to J. E. Barrett, J. K. Boseck, Emmett Carden, John Eason, F. T. Glaze, Robert Moore, Aubrey Smith, and Jim Starling for growing and harvesting of variety tests.

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

Group	Variety	Plant characteristics				Reaction to individual diseases <sup>1/</sup>					Nematode resistance		Registration <sup>2/</sup>	
		Pubes- cence	Flower color	Pod color	Hila color	Bacteria pustule	Tar- get fire	Wild- spot	Phyto- phthora rot	Purple seed stain	Cyst	root- knot	(Race 3)	No.
V	York	Gray	Purple	Lt. Tan	Buff	R	R	R	S	MR	S	S	70	1968
	Dare	Gray	White	Tan	Buff	R	R	R	MR	R	S	MR	50	1966
	Forrest	Tawny	White	Tan	Black	R	R	R	MR	MR	R	R	96	1973
	Essex	Gray	Purple	Tan	Buff	R	R	R	MR	R	S	S	97	1973
VI	Hood	Gray	Purple	Lt. Tan	Buff	R	R	R	S	MR	S	S	30	1960
	Davis	Gray	White	Lt. Tan	Buff	R	R	R	R	MR	S	S	56	1966
	Lee 68	Tawny	Purple	Tan	Black	R	R	R	VR	R	S	S	72	1968
	Pickett 71	Gray	Purple	Tan	Black	R	R	MR	R	R	R	S	87	1971
	McNair 600	Tawny	Purple	Lt. Tan	Black	R	R	R	S	R	S	R	-	-
	D64-4636	Gray	White	Tan	Buff	R	R	R	S	MR	S	R	-	-
	Tracy	Tawny	White	Tan	Black	R	R	R	R	-	S	S	105	1974
	Lee 74	Tawny	Purple	Tan	Black	R	R	R	VR	R	S	R	106	1975
VII	Bragg	Tawny	White	Tan	Black	R	R	R	R	S	S	R	43	1964
	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	95	1972
VIII	Hampton													
	266A	Gray	Purple	Lt. Tan	Buff	R	R	MR	VS	S	S	S	47	1964
	Hutton	Brown	Purple	Tan	Black	R	R	R	S	S	S	R	100	1973
	Cobb	Gray	White	Tan	Buff	R	R	R	S	S	S	R	-	-

<sup>1/</sup>These are relative order of resistance: VR-very resistant; R-resistant; MR-moderately resistant; S-susceptible; VS-very susceptible. These are ratings given these varieties by the breeders - not based on Alabama performance alone.

<sup>2/</sup>Registration of varieties are in Agronomy Journal from 1958-1963 and Crop Science 1964-1973.

Table 3. Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted May 14, 1974 at Black Belt Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Tracy-----	48.0 a	7/07	10/03	30	2.5	1.4	1.3
Forrest-----	45.6 ab	7/07	9/17	30	4.0	1.0	1.0
Ransom-----	44.6 ab	7/10	10/13	28	4.3	1.1	1.4
Dare-----	44.6 ab	7/09	9/17	26	3.5	1.1	1.0
Coker 136-----	44.4 abc	7/11	9/22	32	4.8	1.5	1.0
Pickett 71-----	42.5 bcd	7/11	10/08	26	2.3	1.3	1.1
Davis-----	42.0 bcd	7/17	9/25	39	3.5	2.0	1.5
FFR 666-----	42.0 bcd	7/08	10/01	17	1.3	1.0	1.0
FFR 777-----	41.0 bcd	7/13	10/01	35	6.0	1.1	1.1
Hutton-----	40.1 bcd	7/18	10/17	37	5.3	1.9	1.0
McNair 600-----	40.0 bcd	7/07	10/02	29	4.3	1.0	1.0
McNair 800-----	39.9 bcd	7/24	10/11	34	5.3	1.8	1.0
Lee 74-----	38.8 cde	7/09	10/06	23	2.0	1.0	1.3
Essex-----	37.9 de	7/07	9/09	18	2.0	1.0	1.0
Hampton 266A-----	37.7 de	7/18	10/27	42	4.3	2.0	1.0
Bragg-----	36.9 de	7/11	10/12	39	6.8	1.0	1.0
Lee 68-----	34.0 e	7/09	10/11	19	1.3	1.0	1.3

C.V.% 8.7

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

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

Table 4. Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when planted June 10, 1974 at Black Belt Substation

Variety	Yield <sup>1/</sup>	1st Bloom <sup>2/</sup>	Maturity <sup>2/</sup>	Plant ht. <sup>2/</sup>	Ht. 1st pod <sup>2/</sup>	Lodging <sup>2/</sup>	Shattering <sup>2/</sup>
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Coker 338	37.4 a	8/12	10/29	38	4.0	2.3	1
Tracy	36.1 ab	8/08	10/15	34	3.0	1.6	1
Davis	35.7 abc	8/13	10/19	35	3.8	1.3	1
Lee 74	35.2 abcd	8/10	10/15	30	2.8	2.1	1
Essex	33.3 abcde	8/03	10/03	26	4.0	1.0	1
McNair 600	32.5 bcdef	8/09	10/16	36	2.3	1.6	1
Ransom	32.3 bcdef	8/09	10/26	32	4.0	1.4	1
McNair 303	32.1 bcdef	8/17	10/15	32	3.8	1.4	1
Coker 136	31.0 cdefg	8/10	10/12	35	4.5	1.6	1
Bragg	30.8 defg	8/11	10/21	40	4.8	1.5	1
Hampton 266A	30.7 defg	8/16	11/01	38	6.0	2.3	1
Coker 71-211	30.7 defg	8/13	10/27	41	5.5	2.1	1
Lee 68	28.9 efg	8/11	10/19	23	2.3	1.3	1
Cobb	28.7 efg	8/19	11/04	44	4.5	1.8	1
Forrest	28.6 efg	8/07	10/11	30	3.8	1.5	1
Hutton	28.3 fg	8/15	10/25	31	3.8	1.1	1
Dare	26.5 g	8/04	10/08	28	3.0	1.0	1
W-46	26.3 g	8/18	10/27	40	4.8	2.3	1

C.V.% 9.4

<sup>1/</sup> Yields adjusted to 13% moisture and 60 pounds per bushel. Yields with a common letter are not different ( $P = 0.5$ )

<sup>2/</sup> An explanation of data and ratings is given on page 3 of this report

Table 5. Soybean Seed Quality and Size When Grown at Black Belt Substation, 1974

Variety	Planting dates					
	May 14, 1974		June 18, 1974		Seed size g/100 seed	Seed size g/100 seed
	Seed* quality	Purple** stain	Seed size g/100 seed	Seed quality	Purple stain	
	Rating	Rating		Rating	Rating	
Essex	3	2	13.4	1	1	11.9
Davis	1	1	14.3	1	2	14.0
Bragg	1	1	14.3	1	1	13.8
Hutton	1	1	15.5	2	2	13.8
Dare	2	1	12.1	1	1	12.6
Forrest	2	1	11.7	1	1	11.1
Coker 136	2	2	13.8	1	1	14.2
FFR 666	1	2	13.0	***	***	***
FFR 777	1	1	13.5	***	***	***
Lee 68	1	1	14.5	1	1	12.4
Lee 74	1	1	14.0	1	1	12.9
Pickett 71	1	1	13.9	***	***	***
McNair 600	1	2	13.3	1	1	12.7
Tracy	2	2	18.3	2	2	16.7
McNair 800	1	1	12.3	1	1	10.6
Ransom	1	1	15.8	1	1	14.2
Hampton 266A	1	1	15.4	2	1	14.8
Cobb	***	***	***	1	1	12.4
Coker 71-211	***	***	***	2	1	14.3
W-46	***	***	***	1	1	10.5
Coker 338	***	***	***	2	1	13.9

\*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. 9-12% purple staining
- 5. over 20% purple staining.

\*\*\*Soybean varieties not in test.

Table 6. Two-Year Averages for Yield, Dates of Maturity, Plant and First Pod Height and Lodging of Soybean Varieties Planted at Two Dates on Black Belt Substation During 1973 and 1974

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Average planting date May 15							
Coker 136-----	43.4	7/11	9/21	33	5.0	1.4	1.0
Davis-----	42.3	7/16	9/26	38	3.8	2.1	1.4
Forrest-----	42.0	7/10	9/17	29	3.6	1.3	1.0
Essex-----	41.1	7/09	9/14	21	2.3	1.2	1.3
McNair 600-----	40.0	7/10	10/01	30	3.6	1.1	1.0
Dare-----	39.4	7/11	9/17	28	3.6	1.4	1.1
Lee 68-----	37.6	7/10	10/04	26	2.1	1.4	1.1
Lee 74-----	37.5	7/11	10/03	28	3.3	1.6	1.1
Ransom-----	36.9	7/11	10/08	30	4.9	1.6	1.2
McNair 800-----	34.9	7/24	10/04	35	5.1	2.4	1.0
Bragg-----	34.5	7/12	10/05	39	5.8	1.4	1.0
Hampton 266A-----	31.3	7/20	10/28	43	7.0	1.9	1.0
Average planting date June 23							
Davis-----	29.6	8/13	10/19	27	3.0	1.2	1.0
Bragg-----	26.8	8/12	10/21	31	3.6	1.6	1.0
Ransom-----	25.9	8/11	10/25	26	3.0	1.2	1.1
Hampton 266A-----	25.7	8/18	11/00	30	4.1	1.8	1.0
McNair 600-----	25.2	8/10	10/12	27	1.6	1.6	1.0
McNair 800-----	25.2	8/16	10/14	24	2.8	1.3	1.0
Essex-----	24.9	8/07	10/05	21	2.6	1.1	1.3
Lee 68-----	24.8	8/12	10/14	24	2.4	1.5	1.0
Hutton-----	24.8	8/16	10/24	27	4.1	1.5	1.0
Coker 136-----	24.1	8/10	10/09	28	3.4	1.3	1.0
Forrest-----	23.9	8/08	10/08	25	3.1	1.6	1.0
Dare-----	19.1	8/08	10/07	21	2.3	1.0	1.0

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 7. Three-Year Averages for Yield, Date of Maturity, Plant and First Pod Height and Lodging of Soybean Varieties Planted at Two Planting Dates of Black Belt Substation 1972-74

Variety	Yield <sup>1/</sup> Bu/A	Maturity <sup>2/</sup> Date	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating
Average planting date May 15					
Forrest	43.3	9/19	30	3.5	1.5
Davis	42.2	9/27	40	3.6	2.1
McNair 600	41.4	10/03	32	3.4	1.4
Ransom	38.9	10/10	34	5.4	1.7
Lee 68	38.6	10/06	29	2.6	2.0
Dare	38.5	9/17	30	3.6	2.0
McNair 800	37.2	10/09	38	5.3	2.6
Bragg	37.0	10/09	40	5.8	1.9
Hampton 266A	30.5	10/24	43	7.0	2.7
Average planting date June 25					
Davis	31.1	10/18	27	3.1	1.7
Bragg	28.5	10/21	32	4.1	2.2
McNair 800	28.2	10/16	25	3.1	1.7
Hampton 266A	28.1	11/03	31	4.6	2.2
Ransom	28.0	10/23	28	3.7	1.5
McNair 600	26.5	10/14	28	2.2	1.9
Hutton	26.0	10/24	28	4.1	2.0
Lee 68	25.8	10/15	25	2.8	2.0
Forrest	24.1	10/08	25	3.6	1.8
Dare	20.5	10/07	24	3.0	1.2

<sup>1/</sup> Yield adjusted to 13% moisture and 60 pounds per bushel.

<sup>2/</sup> An explanation of data and ratings is given on page 3 of this report

Table 8. Four- and Five-Year Averages for Yield of  
 Soybean Varieties Grown at the Black Belt  
 Substation<sup>1/</sup> At Two Planting Dates

Variety	Soybean yield by planting date			
	May 15		June 25	
	4-yr. 71-74	5-yr. 70-74	4-yr. 71-74	5-yr. 70-74
	Bu/A	Bu/A	Bu/A	Bu/A
McNair 600-----	40.5	38.2	25.3	23.4
Davis-----	41.1	37.8	29.6	26.8
Dare-----	38.4	37.1	21.1	20.2
Lee 68-----	37.5	36.5	24.6	22.1
McNair 800-----	35.8	33.4	26.1	24.2
Bragg-----	35.8	32.9	27.7	25.2
Hampton 266A-----	27.4	25.5	25.6	23.3
Ransom-----	39.4	-----	28.1	-----
Hutton-----	-----	-----	25.0	23.0

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

Table 9. Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted May 28, 1974 at Brewton Experiment Field

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup>	Maturity <sup>2/</sup>	Plant ht. <sup>2/</sup>	Ht. 1st pod <sup>2/</sup>	Lodging <sup>2/</sup>	Shattering <sup>2/</sup>
		Dates	Dates	In.	In.	Rating	Rating
Coker 338-----	50.2 a	7/25	10/18	35	4.3	1	1
Hutton-----	49.8 a	7/27	10/16	34	5.5	1	1
Coker 71-211----	48.1 ab	7/28	10/19	39	5.5	1	1
McNair 800-----	47.4 abc	7/30	10/09	33	4.5	1	1
Hampton 266A----	46.2 abc	7/26	10/20	36	5.3	1	1
Davis-----	45.7 abc	7/27	10/06	36	4.0	1	1
Tracy-----	44.3 abcd	7/18	10/02	32	2.5	1	1
Ransom-----	43.6 abcd	7/20	10/13	29	4.8	1	1
D64-4636-----	42.5 abcde	7/18	9/30	26	2.3	1	1
McNair 600-----	42.0 abcde	7/17	10/06	26	2.3	1	1
Essex-----	41.3 abcde	7/11	9/24	21	3.3	1	1
Forrest-----	40.4 bcde	7/15	9/23	29	4.5	1	1
FFR 777-----	39.7 bcdef	7/22	10/06	31	5.5	1	1
Bragg-----	38.8 cdef	7/24	10/13	33	5.0	1	1
Lee 74-----	36.2 defg	7/19	10/07	21	1.8	1	1
Dare-----	36.1 defg	7/18	9/23	25	4.0	1	1
Pickett 71-----	34.5 efg	7/20	10/06	23	1.5	1	1
W-46-----	33.9 efg	8/02	10/15	37	6.0	1	1
Coker 136-----	32.1 fg	7/22	9/24	29	6.3	1	1
FFR 666-----	29.8 g	7/17	10/06	16	1.5	1	1
Lee 68-----	28.1 g	7/18	10/07	20	1.5	1	1

C. V.% 13.7

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.

Table 10. Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted July 9, 1974 at Brewton Experiment Field

Variety	Yield <sup>1/</sup>	1st Bloom <sup>2/</sup>	Maturity <sup>2/</sup>	Plant ht. <sup>2/</sup>	Ht. 1st pod <sup>2/</sup>	Lodging <sup>2/</sup>	Shattering <sup>2/</sup>
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Cobb-----	35.7 a	8/25	10/23	26	4.3	1	1
Davis & Bragg <sup>3/</sup> ---	31.4 ab	8/20	10/17	20	2.5	1	1
Coker 71-211-----	31.2 ab	8/21	10/19	21	2.0	1	1
Davis-----	29.5 abc	8/21	10/17	20	2.5	1	1
D64-4636-----	27.5 bcd	8/18	10/13	18	2.8	1	1
Pickett 71-----	26.3 bcde	8/19	10/12	19	3.0	1	1
Coker 338-----	25.3 bcdef	8/19	10/18	20	2.5	1	1
Forrest-----	23.4 cdef	8/16	10/09	19	3.0	1	1
Hampton 266A-----	23.0 cdef	8/22	10/20	17	1.5	1	1
Essex-----	22.2 defg	8/12	10/07	15	1.5	1	1
McNair 600-----	22.1 defg	8/16	10/13	17	1.5	1	1
Lee 74 & Bragg <sup>3/</sup> ---	21.8 defg	8/17	10/13	18	2.0	1	1
Lee 74-----	21.4 defg	8/16	10/13	16	1.8	1	1
Bragg-----	20.3 defg	8/19	10/14	18	2.3	1	1
McNair 800-----	20.0 efg	8/21	10/12	12	1.3	1	1
Tracy-----	19.9 efg	8/13	10/14	17	1.8	1	1
Ransom-----	19.5 egh	8/20	10/16	17	1.8	1	1
Hutton-----	18.3 fghi	8/22	10/17	15	1.8	1	1
W-46-----	15.4 ghi	8/24	10/18	17	1.8	1	1
Dare-----	14.9 ghi	8/18	10/07	15	1.5	1	1
Coker 136-----	12.7 hi	8/20	10/09	14	2.0	1	1
Lee 68-----	12.0 i	8/16	10/13	14	1.3	1	1

1/ C.V.% 19.6

— 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.

3/ Blends of 50% of each variety shown.

Table 11. Soybean Seed Quality and Size by Variety Where Grown at Brewton Experiment Field, 1974

Variety	Planting dates			July 9, 1974		
	May 28, 1974	Purple**	Seed size	Seed quality	Purple stain	Seed size
	Seed* quality Rating	Purple stain Rating	g/100 seed	Rating	Rating	g/100 seed
Dare	2	1	15.5	2	1	13.3
Essex	1	1	14.5	1	2	14.7
Forrest	2	1	11.8	2	1	11.5
Coker 136	2	2	13.5	2	2	12.7
D64-4636	1	1	14.9	1	2	12.2
Pickett 71	1	1	11.8	1	1	13.4
Davis	3	1	15.0	1	1	14.3
Lee 68	1	2	12.9	1	1	13.7
Lee 74	1	1	14.7	2	1	14.4
FFR 666	1	2	13.5	***	***	***
McNair 600	1	1	13.7	2	2	14.5
Tracy	3	2	17.50	2	2	17.1
Bragg	1	1	15.3	2	1	14.2
McNair 800	1	1	12.7	2	1	12.3
Ransom	2	1	17.1	3	2	15.5
FFR 777	2	1	14.4	***	***	***
Hutton	1	1	17.4	2	1	16.9
Hampton 266A	1	1	15.8	2	1	17.0
Coker 338	1	1	15.7	3	1	15.3
Coker 71-211	1	1	15.1	2	2	16.3
W-46	1	1	11.0	1	1	11.7
Davis & Bragg	***	***	***	2	2	14.6
Lee 74 & Bragg	***	***	***	2	1	14.8
Cobb	***	***	***	1	1	14.0

\*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. 9-15% purple staining
5. Over 20% purple staining.

\*\*\*Soybean varieties not in test.

Table 12. Two-Year Averages for Yield, Date of Maturity, Plant and First Pod Height and Lodging of Soybean Varieties when Planted May 29 at Brewton Field 1973-74

Variety	Yield <sup>1/</sup>	1st Bloom <sup>2/</sup>	Maturity <sup>2/</sup>	Plant ht. <sup>2/</sup>	Ht. 1st pod <sup>2/</sup>	Lodging <sup>2/</sup>	Shattering <sup>2/</sup>
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Hutton-----	45.4	7/27	10/25	34	6.1	1	1.0
Coker 338-----	45.6	7/25	10/25	31	4.9	1	1.0
Coker 71-211-----	42.8	7/29	10/23	36	6.3	1	1.0
Ransom-----	41.1	7/21	10/20	27	4.6	1	1.0
McNair 800-----	40.9	8/02	10/11	31	5.0	1	1.0
Hampton 266A-----	40.5	7/28	10/24	35	6.4	1	1.0
Tracy-----	40.0	7/18	10/15	30	3.4	1	1.5
McNair 600-----	37.8	7/20	10/12	26	3.4	1	1.0
Bragg-----	37.5	7/22	10/18	33	5.5	1	1.0
Davis-----	36.6	7/27	10/13	32	4.5	1	1.5
Lee 74-----	35.9	7/19	10/13	23	2.6	1	1.0
D64-4636-----	34.2	7/18	10/05	25	3.6	1	1.0
Forrest-----	33.3	7/18	9/29	25	3.8	1	1.2
FFR 777-----	32.7	7/22	10/11	30	6.1	1	1.0
Pickett 71-----	32.6	7/20	10/15	24	2.8	1	1.0
Essex-----	32.6	7/15	10/01	20	3.8	1	1.5
Coker 136-----	29.3	7/22	9/29	28	6.5	1	1.3
Lee 68-----	28.1	7/19	10/15	21	2.4	1	1.0
FFR 666-----	27.6	7/18	10/15	19	2.5	1	1.0

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 13. Two-year Averages for Yield, Date of Maturity, Plant and First Pod Height and Lodging of Soybean Varieties When Planted July 2 at Brewton Field 1973-74

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Coker 71-211-----	34.3	8/18	10/25	28	4.9	1	1.0
Coker 338-----	31.0	8/16	10/24	27	4.8	1	1.0
Hampton 266A-----	27.3	8/18	10/23	26	5.3	1	1.0
Davis-----	27.2	8/17	10/18	26	4.8	1	1.4
Pickett 71-----	27.0	8/14	10/16	22	3.8	1	1.0
McNair 600-----	27.0	8/11	10/16	24	3.6	1	1.0
Hutton-----	26.6	8/18	10/23	23	4.0	1	1.0
D64-4636-----	26.0	8/12	10/11	22	4.4	1	1.0
Lee 74-----	24.8	8/13	10/20	21	3.1	1	1.0
Bragg-----	24.5	8/16	10/17	24	4.0	1	1.0
Forrest-----	23.9	8/11	10/08	23	4.1	1	1.0
McNair 800-----	22.8	8/17	10/18	18	3.0	1	1.0
Tracy-----	22.5	8/09	10/22	23	3.4	1	1.5
Ransom-----	20.8	8/15	10/25	21	3.0	1	1.0
Essex-----	20.4	8/08	10/09	18	2.3	1	1.5
Lee 68-----	20.3	8/12	10/14	20	3.5	1	1.0
Coker 136-----	19.1	8/15	10/08	21	4.8	1	1.3
Dare-----	17.1	8/14	10/06	20	3.1	1	1.6

<sup>1/</sup>Yields adjusted to 13% moisture and 60 pounds per bushel.

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



Table 15. Four- and Five-Year Averages for Yield of  
Soybean Varieties Grown on the Brewton  
Experiment Field<sup>1/</sup> At Two Planting Dates

Variety	Soybean yield by planting date			
	May 28		June 28	
	4-yr. 71-74	5-yr. 70-74	4-yr. 71-74	5-yr. 70-74
	Bu/A	Bu/A	Bu/A	Bu/A
Hutton-----	36.4	----	20.9	23.6
Ransom-----	35.0	----	20.0	----
McNair 800-----	33.9	----	20.3	23.8
Davis-----	33.2	35.9	23.7	26.1
Hampton 266A-----	32.8	33.4	22.5	26.8
McNair 600-----	32.6	----	23.6	26.4
Bragg-----	29.5	31.2	19.9	22.9
Lee 68-----	26.1	27.8	18.9	20.0
Dare-----	-----	----	18.1	19.4

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

Table 16. Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted May 30, 1974 at Gulf Coast Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Hutton-----	61.1 a	7/22	10/20	36	4.8	1.8	1
Coker 338-----	57.9 ab	7/17	10/22	38	5.8	2.8	1
Tracy-----	57.8 ab	7/14	10/02	37	3.8	3.0	1
Ransom-----	57.6 abc	7/15	10/15	29	6.5	1.5	1
Lee 74-----	56.8 abcd	7/15	10/10	27	4.5	1.0	1
Bragg-----	55.2 bcde	7/15	10/15	42	6.3	2.0	1
McNair 600-----	54.4 bcde	7/15	10/09	37	4.0	2.3	1
Davis-----	53.6 bcde	7/22	10/07	37	5.3	3.0	1
McNair 800-----	52.8 bcdef	8/01	10/14	39	5.5	3.3	1
Forrest-----	52.7 bcdef	7/10	9/24	31	2.5	1.3	1
Pickett 71-----	52.3 bcdef	7/15	10/09	27	3.3	1.5	1
Cobb-----	51.5 cdefg	7/25	10/24	42	4.5	4.3	1
Hampton 266A----	51.1 defg	7/29	10/21	42	5.5	3.8	1
Lee 68-----	50.6 efg	7/15	10/11	24	4.5	1.5	1
Coker 136-----	50.6 efg	7/17	9/26	37	4.3	1.3	1
FFR 777-----	49.4 efg	7/19	10/07	36	5.3	1.8	1
Dare-----	49.0 efg	7/10	9/24	30	3.5	1.0	1
W-46-----	47.2 fg	8/18	10/22	43	5.5	3.3	1
Coker 71-211----	46.1 g	7/22	10/21	42	4.8	3.5	1
Essex-----	28.1 h	7/08	9/26	22	2.8	1.0	1.5

C.V.% 7.2

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

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

Table 17. Two-Year Averages for Yield, Date of Maturity, Plant and First Pod Height and Lodging of Soybean Varieties Planted June 5 at Gulf Coast Substation, 1973 and 1974

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Hutton-----	55.4	7/25	10/25	39	6.9	1.9	1.0
Coker 338-----	51.1	7/24	10/26	42	6.4	1.9	1.0
Davis-----	50.0	7/24	10/08	39	4.6	2.0	1.0
Lee 74-----	49.9	7/23	10/14	30	4.8	1.0	1.0
Ransom-----	49.9	7/20	10/22	32	6.3	1.3	1.0
Bragg-----	48.8	7/20	10/19	39	6.1	1.5	1.0
McNair 800-----	48.1	7/28	10/16	37	4.8	2.6	1.0
Hampton 266A----	48.1	8/02	10/24	44	6.3	2.9	1.0
McNair 600-----	46.6	7/19	10/14	36	4.0	1.6	1.0
Coker 136-----	46.1	7/22	10/02	35	4.6	1.1	1.0
Lee 68-----	46.0	7/19	10/10	27	4.8	1.3	1.0
Coker 71-211----	45.3	7/26	10/24	43	6.4	2.8	1.0
FFR 777-----	44.5	7/24	10/13	39	5.1	1.4	1.0
Forrest-----	43.9	7/20	9/30	31	3.3	1.1	1.0
Dare-----	43.6	7/16	9/29	27	3.3	1.0	1.0
Essex-----	35.0	7/15	10/02	23	2.9	1.0	1.3

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 18. Soybean Seed Quality and Size of Soybean Varieties when Planted May 30, 1974, at Gulf Coast Substation

Variety	Seed* quality Rating	Purple* stain Rating	Seed size g/100 seed
Dare-----	1	1	17.5
Essex-----	3	3	20.2
Forrest-----	1	1	15.8
Coker 136-----	1	2	17.3
Tracy-----	1	1	19.6
Pickett 71-----	1	1	14.8
Davis-----	1	1	17.3
Lee 68-----	1	1	16.8
Lee 74-----	1	1	16.2
FFR 777-----	1	1	15.4
McNair 600-----	1	1	16.3
Ransom-----	1	1	18.9
Bragg-----	1	1	18.0
McNair 800-----	1	1	17.7
Coker 338-----	1	1	18.8
Hampton 266A-----	1	1	17.9
Hutton-----	1	1	20.8
Coker 71-211-----	1	1	17.5
Cobb-----	1	1	16.0
W-46-----	1	1	14.8

\* 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 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

Table 19. Three-Year Averages for Yield, Date of Maturity, Plant and First Pod Height and Lodging of Soybean Varieties Planted June 4 at Gulf Coast Substation, 1972 through 1974

Variety	<u>Yield</u> <sup>1/</sup> Bu/A	<u>Maturity</u> <sup>2/</sup> Dates	<u>Plant ht.</u> <sup>2/</sup> In.	<u>Ht. 1st pod</u> <sup>2/</sup> In.	<u>Lodging</u> <sup>2/</sup> Rating
Davis-----	46.4	10/04	38	4.9	1.7
Hutton-----	46.0	10/20	38	6.6	1.8
McNair 600-----	44.5	10/08	36	4.3	1.6
Ransom-----	43.9	10/14	34	6.3	1.2
Lee 68-----	43.5	10/05	26	4.7	1.2
Dare-----	43.3	9/26	28	3.6	1.0
McNair 800-----	43.2	10/11	36	5.1	2.1
Bragg-----	43.0	10/12	38	5.8	1.7
Hampton 266A-----	41.0	10/17	42	6.1	2.6

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 20. Four- and Five-Year Averages for Yield of Soybeans  
at Gulf Coast Substation 1970-74<sup>1/</sup> Planted June 5

Variety	4-yr.	5-yr.
	71-74 Yield Bu/A	70-74 Yield Bu/A
Hutton-----	47.1	45.2
Davis-----	46.7	45.4
Ransom-----	46.3	----
McNair 600-----	45.5	45.3
McNair 800-----	45.0	43.3
Bragg-----	44.7	44.8
Lee 68-----	44.3	44.3
Dare-----	43.6	41.1
Hampton 266A-----	42.3	41.3

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

Table 21. Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted May 15, 1974 at Prattville Experiment Field

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Tracy-----	49.9 a	7/20	10/10	40	6.3	3.5	2.1
Ransom-----	47.2 ab	7/26	10/21	39	7.5	2.3	1.0
Davis-----	45.5 abc	7/26	10/05	39	5.8	3.3	1.0
Lee 74-----	45.4 abc	7/25	10/16	36	7.0	2.5	1.0
Forrest-----	45.0 abcd	7/16	9/25	37	5.0	1.6	1.0
D64-4636-----	44.8 bcd	7/18	9/30	33	3.8	2.0	1.0
Essex-----	44.6 bcde	7/15	9/23	26	4.8	1.0	1.0
Coker 136-----	43.4 bcdef	7/22	9/27	40	7.0	1.5	1.0
Hutton-----	43.4 bcdef	7/31	10/21	41	6.3	3.9	1.0
Hood-----	42.5 bcdef	7/23	9/30	36	4.3	3.4	1.0
McNair 600-----	42.4 bcdef	7/20	10/07	41	6.0	3.5	1.0
FFR 666-----	42.4 bcdef	7/19	10/09	30	4.0	1.6	1.0
Bragg-----	42.2 bcdef	7/27	10/18	45	8.3	4.4	1.0
Coker 338-----	42.2 bcdef	7/27	10/24	43	4.8	2.8	1.0
Cobb-----	41.9 bcdef	8/02	11/03	46	4.3	4.4	1.0
Lee 68-----	41.5 cdef	7/20	10/16	34	4.3	2.0	1.0
McNair 800-----	40.4 cdef	8/05	10/16	36	5.8	3.0	1.0
FFR 777-----	39.8 def	7/26	10/07	42	6.3	3.5	1.0
Dare-----	39.8 def	7/20	9/23	35	4.8	1.5	1.0
Coker 71-211----	39.7 def	7/31	10/23	45	3.8	4.5	1.0
Hampton 266A----	39.3 ef	7/31	10/23	44	4.5	3.4	1.0
W-46-----	38.3 f	8/05	10/23	47	3.5	3.9	1.0

C.V.% 7.7

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

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

Table 22. Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted June 18, 1974 at Prattville Experiment Field

Variety	Yield <sup>1/</sup>	1st Bloom <sup>2/</sup>	Maturity <sup>2/</sup>	Plant ht. <sup>2/</sup>	Ht. 1st pod <sup>2/</sup>	Lodging <sup>2/</sup>	Shattering <sup>2/</sup>
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Cobb-----	39.1 a	8/13	11/07	38	5.3	3.0	1
Coker 71-211-----	35.9 ab	8/13	10/31	40	5.8	4.0	1
Forrest-----	35.3 abc	8/04	10/16	27	2.8	3.4	1
Davis-----	34.2 bcd	8/07	10/18	32	1.8	2.6	1
Bragg-----	33.0 bcde <sup>e</sup>	8/07	10/29	34	5.0	3.3	1
McNair 800-----	33.0 bcde	8/14	10/17	27	2.8	2.1	1
Coker 338-----	32.9 bcde	8/10	10/31	37	4.8	2.9	1
McNair 600-----	32.4 bcde	8/07	10/25	32	3.0	2.1	1
D64-4636-----	32.0 bcdef	8/05	10/16	26	2.3	2.4	1
Hutton-----	31.8 bcdef	8/12	10/31	33	4.3	2.1	1
Hampton 266A-----	31.5 bcdef	8/13	10/31	37	4.8	4.0	1
Hood-----	31.2 bcdefg	8/05	10/16	28	1.3	3.9	1
Lee 74 & Bragg <sup>3/-</sup> -----	31.1 bcdefg	8/07	10/31	35	3.5	2.5	1
Essex-----	30.7 bcdefg	8/03	10/05	22	2.8	1.3	1
Dare-----	30.5 cdefg	8/03	10/05	25	3.3	1.5	1
W-46-----	30.0 cdefg	8/16	10/29	39	5.0	2.4	1
Tracy-----	29.9 defg	8/07	11/07	34	3.5	3.9	1
Coker 136-----	29.8 defg	8/07	10/16	30	2.8	2.5	1
Davis & Bragg <sup>3/-</sup> -----	28.1 efg	8/07	10/30	34	3.0	2.8	1
Pickett 71-----	26.7 fgh	8/08	10/23	29	3.3	1.3	1
Lee 74-----	26.1 gh	8/07	11/05	27	2.8	1.5	1
Ransom-----	24.2 h	8/07	10/31	32	4.0	1.5	1
Lee 68-----	19.5 i	8/07	11/09	26	2.7	1.2	1

C.V.% 10.3

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

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

<sup>3/</sup>Blends of 50% of each variety shown.

Table 23. Effect of Planting Date on Seed Stain, Quality, and Size of Soybeans Grown on Prattville Experiment Field, 1974

Variety	Planting dates					
	May 15, 1974		June 18, 1974		Seed size g/100 seed	Seed size g/100 seed
	Seed* quality Rating	Purple** stain Rating	Seed size g/100 seed	Seed quality Rating	Purple stain Rating	
Dare	1	1	12.0	1	2	12.9
Essex	1	1	12.5	1	2	13.6
Forrest	2	1	12.2	2	1	12.4
Coker 136	1	1	12.7	1	1	15.3
D64-4636	1	1	13.6	1	1	13.4
Hood	2	1	13.2	2	1	16.2
Davis	1	1	14.4	1	1	14.3
Lee 68	1	1	12.4	1	1	14.7
Lee 74	1	1	12.0	1	1	14.3
FFR 666	1	1	13.0	***	***	***
McNair 600	1	1	11.9	1	2	14.2
Tracy	2	1	17.3	2	1	16.7
Bragg	1	1	13.5	1	1	15.4
McNair 800	1	1	11.4	1	1	10.9
Ransom	1	1	15.3	1	1	15.6
FFR 777	1	1	13.2	***	***	***
Hutton	1	1	15.7	1	1	17.5
Hampton 266A	2	1	14.9	2	1	17.0
Coker 338	1	1	15.4	2	1	17.2
Coker 71-211	2	1	14.5	2	1	17.0
Cobb	1	1	13.5	1	1	15.5
W-46	1	1	11.5	1	1	12.9
Davis & Bragg	***	***	1	1	1	15.1
Pickett 71	***	***	1	1	1	14.1
Lee 74 & Bragg	***	***	1	1	1	15.1

\*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. 9-10% purple staining; 5. over 20% purple staining.

\*\*\*Soybean varieties not in test.

Table 24. Two-year Averages for Yield, Date of First Bloom, Date of Maturity, Plant and First Pod Height, and Lodging of Soybean Varieties Planted May 17 at Prattville Experiment Field

Variety	Yield <sup>1/</sup>	1st Bloom <sup>2/</sup>	Maturity <sup>2/</sup>	Plant ht. <sup>2/</sup>	Ht. 1st pod <sup>2/</sup>	Lodging <sup>2/</sup>	Shattering <sup>2/</sup>
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Essex-----	35.4	7/11	9/18	23	3.3	1.0	2.3
Tracy-----	35.1	7/18	10/03	38	4.9	2.5	1.6
Davis-----	34.7	7/22	9/30	38	4.6	2.3	1.5
Forrest-----	34.0	7/12	9/19	31	3.5	1.3	1.5
Ransom-----	33.3	7/21	10/12	36	5.5	1.7	1.1
Coker 136-----	33.1	7/16	9/21	36	6.1	1.4	1.0
Lee 74-----	32.1	7/21	10/10	32	4.4	1.8	1.0
Hood-----	31.7	7/17	9/23	32	3.4	2.3	2.0
FFR 666-----	30.8	7/18	10/06	26	2.5	1.3	1.0
Hutton-----	30.4	7/25	10/17	40	6.0	2.7	1.0
Lee 68-----	30.2	7/16	10/10	31	3.3	1.5	1.0
Dare-----	30.1	7/14	9/21	30	3.6	1.3	1.9
McNair 600-----	29.4	7/16	10/02	36	4.5	2.3	1.0
Bragg-----	29.4	7/23	10/13	41	7.9	2.9	1.0
FFR 777-----	29.0	7/23	10/00	40	5.9	2.3	1.0
Coker 338-----	28.9	7/23	10/20	43	4.6	2.0	1.0
McNair 800-----	28.5	8/01	10/09	36	5.6	2.3	1.1
Coker 71-211	27.5	7/31	10/19	44	4.6	3.0	1.0
Hampton 266A-----	27.4	7/29	10/18	43	5.3	2.4	1.0

<sup>1/</sup>Yields adjusted to 13% moisture and 60 pounds per bushel.

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

Table 25. Two-Year Averages for Yield, Date of First Bloom, Date of Maturity, Plant and First Pod Height, Shattering and Lodging of Soybean Varieties Planted June 15 at Prattville Experiment Field, 1973-74

Variety	Yield <sup>1/</sup>	1st Bloom <sup>2/</sup>	Maturity	Plant ht. <sup>2/</sup>	Ht. 1st Pod <sup>2/</sup>	Lodging <sup>2/</sup>	Shattering <sup>2/</sup>
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Forrest-----	28.1	8/01	10/03	28	3.4	2.2	1.4
Davis-----	25.9	8/05	10/09	32	3.4	1.8	1.0
Essex-----	25.8	7/30	9/28	21	3.3	1.1	2.3
McNair 600----	25.6	8/05	10/15	33	3.0	1.6	1.0
Dare-----	25.6	8/01	9/31	26	3.3	1.3	1.5
Bragg-----	24.8	8/05	10/22	35	5.3	2.1	1.0
Hood-----	24.5	8/02	10/05	28	2.1	2.4	1.6
Coker 338----	24.5	8/07	10/28	39	6.6	1.9	1.0
Coker 136----	24.3	8/03	10/03	31	4.6	1.8	1.0
Coker 71-211---	24.1	8/11	10/28	41	6.9	2.5	1.0
Tracy-----	23.9	8/03	10/22	34	3.6	1.9	2.8
Hutton-----	23.6	8/09	10/23	34	5.4	1.6	1.0
Hampton 266A--	23.4	8/11	10/28	39	5.9	2.5	1.0
McNair 800----	22.6	8/11	10/14	29	3.9	1.6	1.8
Lee 74-----	22.0	8/05	10/24	29	3.9	1.3	1.0
Pickett 71----	21.5	8/06	10/16	29	4.1	1.4	1.4
Ransom-----	20.4	8/05	10/21	31	3.9	1.3	1.5
Lee 68-----	17.7	8/05	10/25	27	3.2	1.1	1.1

<sup>1/</sup>Yields adjusted to 13% moisture and 60 pounds per bushel.

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

Table 26. Three-Year Averages for Yield, Date of Maturity, Plant and First Pod Height and Lodging of Soybean Varieties Planted at Two Dates at Prattville Experiment Field, 1972-74

Variety	Yield <sup>1/</sup> Bu/A	Maturity <sup>2/</sup> Date	Plant ht. In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating
Three-year average planting date May 14					
Forrest	34.7	9/19	30	3.2	1.2
Davis	32.5	9/28	37	4.8	1.9
Hood	32.1	9/22	31	3.4	1.8
Tracy	31.5	10/04	35	4.4	2.0
Dare	30.8	9/20	29	3.3	1.2
FFR 666	28.0	10/01	27	2.8	1.2
McNair 600	27.2	10/01	34	4.3	1.8
Ransom	27.1	10/07	34	5.2	1.5
Lee 68	27.0	10/05	30	3.2	1.3
Hutton	25.4	10/16	38	5.6	2.2
McNair 800	24.7	10/09	36	5.6	1.9
Bragg	23.4	10/10	40	7.1	2.3
Hampton 266A	23.4	10/17	41	5.5	2.3
Three-year average planting date June 19					
Forrest	25.9	10/07	28	3.0	2.6
Bragg	24.3	10/11	35	4.1	2.5
McNair 600	23.9	10/06	33	2.6	1.9
Hutton	23.7	10/26	34	4.3	2.1
Tracy	23.6	10/11	34	3.5	1.8
Davis	23.4	10/13	32	3.4	1.9
Hampton 266A	23.0	10/30	37	4.6	3.1
McNair 800	22.2	10/05	29	3.8	1.4
Hood	21.9	10/07	29	2.6	2.3
Dare	21.5	10/01	28	3.7	1.8
Ransom	20.5	10/14	31	3.6	1.3
Pickett 71	20.3	10/09	28	3.6	2.5
Lee 68	18.5	10/22	27	3.2	1.5

<sup>1/</sup>Yields adjusted to 13% moisture and 60 pounds per bushel.

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

Table 27. Four- and Five-Year Averages for Yield of Soybean Varieties  
Grown at Prattville Experiment Field 1970-74  
At Two Planting Dates

Variety	Soybean yield <sup>1/</sup> by planting date			
	May 12 4-year 71-74	May 15 5-year 70-74	June 17 4-year 71-74	June 17 5-year 70-74
	Bu/A	Bu/A	Bu/A	Bu/A
Davis -----	35.5	37.1	27.5	29.9
Dare -----	33.4	35.4	24.6	27.2
Hood -----	33.4	34.5	25.2	27.3
McNair 600 -----	32.4	33.4	28.3	29.8
Hutton-----	31.9	33.3	28.6	29.7
Lee 68-----	32.1	33.1	23.8	25.8
Bragg -----	29.6	31.0	28.5	29.8
McNair 800 -----	29.4	30.3	26.2	26.7
Hampton 266A-----	28.6	24.4	27.4	27.6
Ransom-----	32.9	---	26.7	---

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



Table 29. Yield, Date of Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties  
Planted May 25, 1974 at Sand Mountain Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Essex-----	36.8 a	7/31	9/30	30	7.5	2.1	1
Dare-----	36.0 ah	8/02	9/30	35	6.3	3.1	1
York-----	35.3 abc	7/31	3/	33	5.0	3.0	1
Ransom-----	35.1 abcd	8/07	3/	38	7.0	3.3	1
Forrest-----	33.5 abcde	7/31	9/30	37	6.8	3.9	1
Lee 74-----	33.1 abcde	8/09	3/	34	6.8	3.6	1
Lee 68-----	32.6 bcdef	8/09	3/	31	6.3	3.8	1
McNair 600-----	31.9 bcdef	8/09	3/	35	7.3	4.3	1
Tracy-----	31.8 cdefg	8/04	3/	36	6.3	3.5	1
Coker 136-----	31.6 cdefg	8/09	3/	37	8.0	2.6	1
FFR 666-----	31.3 cdefg	8/04	3/	33	5.8	4.5	1
Hood-----	31.0 defg	8/07	3/	36	7.0	3.0	1
FFR 777-----	30.6 efgh	8/09	3/	35	6.3	2.9	1
D64-4636-----	30.4 efgh	7/07	3/	33	7.5	3.0	1
Davis-----	29.4 efgh	8/14	3/	37	6.8	3.5	1
Bragg-----	28.4 fgh	8/09	3/	36	7.3	2.9	1
Hutton-----	27.6 gh	8/12	3/	37	7.8	3.9	1
McNair 800-----	26.6 h	8/16	3/	34	7.8	5.0	1

C.V.% 7.9

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

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

<sup>3/</sup>Beans killed by frost, Oct. 3.

Table 30. Yield, Date of Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties When Planted June 26, 1974 at Sand Mountain Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Essex-----	31.9 a	8/20	3/	28	6.0	2.5	1
York-----	25.6 b	8/20	3/	28	5.0	3.5	1
Tracy-----	24.3 bc	8/20	3/	35	6.3	3.6	1
Coker 136-----	23.8 bc	8/20	3/	34	8.3	3.1	1
Forrest-----	23.0 bcd	8/20	3/	34	7.8	3.4	1
McNair 600-----	22.9 bcd	8/20	3/	35	5.2	3.3	1
D64-4636-----	21.6 bcde	8/20	3/	30	7.3	3.3	1
Lee 68-----	21.4 bcde	8/20	3/	33	7.0	3.1	1
Bragg-----	20.8 bcdef	8/20	3/	38	9.3	3.1	1
FFR 666-----	20.7 bcdef	8/20	3/	31	7.8	3.0	1
Dare-----	19.9 bcdefg	8/20	3/	31	5.3	3.5	1
Ransom-----	19.2 cdefg	8/20	3/	31	6.8	3.9	1
Lee 74-----	18.8 cdefg	8/20	3/	28	8.3	4.3	1
McNair 800-----	17.2 defg	8/20	3/	29	6.3	3.4	1
Davis-----	16.5 efg	8/20	3/	34	6.8	2.9	1
Hood-----	15.2 fgh	8/20	3/	34	8.0	3.6	1
Hutton-----	14.0 gh	8/20	3/	25	5.5	4.0	1
FFR 777-----	10.9 h	8/20	3/	34	7.0	3.6	1

C.V.%12.5

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

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

<sup>3/</sup>Beans killed by frost October 3, 1974.

Table 31. Soybean Seed Quality and Size by Variety When Grown at Sand Mountain Substation, 1974

Variety	Planting dates					
	May 8, 1974		May 25, 1974		Seed size g/100 seed	Seed size g/100 seed
	Seed* quality Rating	Purple** stain Rating	Seed size g/100 seed	Seed quality Rating		
Dare	1	1	12.8	1	1	13.0
Essex	1	1	15.7	1	1	12.9
Forrest	1	1	14.2	1	1	12.2
Coker 136	1	1	16.1	1	1	12.7
York	1	1	18.7	1	1	17.7
Hood	1	1	15.3	2	1	14.3
Davis	1	1	15.8	1	1	12.5
Lee 68	1	1	12.5	1	1	11.7
Lee 74	1	1	13.4	1	1	12.1
D64-4636	2	1	15.4	1	1	12.1
McNair 600	1	1	12.3	1	1	11.8
Tracy	1	2	18.7	1	1	12.43
Bragg	1	1	14.8	1	1	15.8
McNair 800	1	1	12.2	1	1	10.10
Ransom	1	1	14.8	2	1	13.6
rFR 666	1	1	14.0	1	1	12.10
Hutton	1	1	13.4	1	1	13.56
FFR 777	***	***	***	2	1	14.3

\*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 32. Two-Year Averages for Yield, Date of Maturity, Plant and First Pod Height and Lodging of Soybean Varieties Planted at Three Dates on Sand Mountain Substation 1973 and 1974

Variety	Yield <sup>1/</sup> Bu/A	Maturity <sup>2/</sup> Date	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Average planting date May 11						
Tracy-----	38.8	10/02	31	3.3	3.5	1
Essex-----	38.7	9/21	23	4.0	1.0	1
Forrest-----	38.6	9/26	31	4.4	2.6	1
Coker 136---	38.4	9/27	36	5.4	2.6	1
York-----	37.9	9/24	26	4.3	1.4	1
Dare-----	37.3	9/27	31	4.0	2.1	1
Lee 74-----	36.0	10/11 <sup>3/</sup>	33	6.9	1.8	1
Davis-----	35.7	10/04 <sup>3/</sup>	36	4.1	3.3	1
Ransom-----	34.8	10/05	31	6.0	2.1	1
Bragg-----	34.2	10/15	40	5.6	2.9	1
McNair 600--	33.9	10/01	33	4.9	2.5	1
Lee 68-----	33.1	10/10	32	5.1	1.6	1
Hood-----	32.1	9/27	31	5.4	2.0	1
Average planting date May 25						
Essex-----	35.6	9/24	26	4.8	1.6	1
Dare-----	35.0	9/28	32	4.6	2.1	1
Forrest-----	34.1	9/28	34	4.9	2.5	1
Coker 136---	33.1	9/27 <sup>3/</sup>	36	6.0	1.8	1
Tracy-----	33.0	10/05 <sup>3/</sup>	33	4.1	2.8	1
Ransom-----	33.0	10/12 <sup>3/</sup>	34	5.3	2.1	1
McNair 600--	32.9	10/06 <sup>3/</sup>	33	4.9	2.9	1
Lee 74-----	31.5	10/09 <sup>3/</sup>	31	5.1	2.9	1
Hutton-----	30.7	10/24 <sup>3/</sup>	33	5.1	2.9	1
Hood-----	30.3	10/01 <sup>3/</sup>	32	4.5	2.0	1
Bragg-----	29.6	10/15 <sup>3/</sup>	36	5.4	2.1	1
Davis-----	29.3	10/10 <sup>3/</sup>	35	5.0	2.8	1
D64-4636---	28.7	10/01 <sup>3/</sup>	30	5.1	2.1	1
Lee 68-----	28.7	10/10 <sup>3/</sup>	28	4.6	2.4	1
Average planting date June 21						
Essex-----	33.6	10/02 <sup>3/</sup>	25	5.3	1.8	1
Bragg-----	29.8	10/21 <sup>3/</sup>	38	8.6	2.7	1
Coker 136---	28.1	10/08 <sup>3/</sup>	34	7.4	2.3	1
Forrest-----	28.0	10/04 <sup>3/</sup>	33	6.3	2.8	1
Ransom-----	27.6	10/22 <sup>3/</sup>	31	6.5	2.4	1
McNair 600--	27.4	10/08 <sup>3/</sup>	34	4.8	2.3	1
Hutton-----	26.3	10/24 <sup>3/</sup>	29	6.5	3.0	1
Davis-----	26.1	10/23 <sup>3/</sup>	35	7.1	2.2	1
Dare-----	25.5	10/03 <sup>3/</sup>	31	4.9	2.4	1
Lee 68-----	24.6	10/14 <sup>3/</sup>	32	6.1	2.6	1
Lee 74-----	24.4	10/19 <sup>3/</sup>	30	7.6	4.1	1

<sup>1/</sup>Yield adjusted to 13% moisture and 60 pounds per bushel.

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

<sup>3/</sup>Frost killed beans 1974 on 10/3 - 1973 Maturity Dates are listed.

Table 33. Three-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, 1971, 1973, and 1974.

Variety	Yield <sup>1/</sup> Bu/A	Maturity <sup>2/</sup> Date	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating
Average planting date May 8					
Ransom	42.6	10/09	31	6.1	2.2
Dare	41.2	9/25	30	4.2	2.1
Davis	40.8	10/09 <sup>3/</sup>	37	5.2	3.0
Bragg	40.3	10/16 <sup>3/</sup>	41	6.2	3.2
York	40.2	9/25	25	3.6	1.3
McNair 600	39.9	10/03	33	4.4	2.6
Lee 68	39.6	10/09 <sup>3/</sup>	30	5.3	2.0
Hood	36.2	9/27	31	5.3	2.4
Average planting date May 29					
Ransom	37.6	10/15 <sup>3/</sup>	36	6.5	2.5
McNair 600	36.5	10/07 <sup>3/</sup>	34	5.1	3.1
Dare	35.8	9/28	33	4.8	2.2
Bragg	35.0	10/16 <sup>3/</sup>	35	6.3	2.5
Davis	34.3	10/14 <sup>3/</sup>	35	5.8	3.0
Hood	34.2	10/14 <sup>3/</sup>	32	4.8	2.3
Lee 68	33.1	10/09 <sup>3/</sup>	31	5.1	2.9
Average planting date June 24					
Ransom	31.4	10/20 <sup>3/</sup>	31	6.5	2.0
Bragg	30.5	10/21 <sup>3/</sup>	36	7.9	2.6
McNair 600	30.4	10/12 <sup>3/</sup>	34	4.7	2.3
Dare	30.3	10/08 <sup>3/</sup>	31	4.8	2.6
Davis	28.8	10/22 <sup>3/</sup>	35	6.3	2.3
Lee 68	27.3	10/23 <sup>3/</sup>	31	5.9	3.0

<sup>1/</sup>Yield adjusted to 13% moisture and 60 pounds per bushel.

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

<sup>3/</sup>Average maturity for 1971 and 1973 as frost killed soybean on October 3, 1974.

Table 34. Four-, and Five-Year<sup>2/</sup> Averages for Yield<sup>1/</sup> of Soybean Varieties Grown at Sand Mountain Substation At Three Planting Dates

Variety	May 8 4-yr. 70-74	May 6 5-yr. 69-74	May 29 4-yr. 70-74	May 27 5-yr. 69-74	June 23 4-yr. 70-74	June 21 5-yr. 69-74
	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A
Dare-----	43.9	42.9	36.4	35.2	31.7	29.0
Davis-----	42.7	41.6	35.1	34.7	30.3	28.1
York-----	42.5	41.2	----	----	----	----
Bragg-----	41.8	40.1	36.5	35.9	31.7	28.4
Lee 68-----	41.5	39.9	33.8	32.9	28.9	26.7
Hood-----	39.4	39.5	35.1	34.0	----	----
McNair 600-----	42.1	----	37.8	----	32.6	----

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

2/ These data do not include 1972 yield due to delayed harvest.

Table 35. Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties When Planted May 9, 1974 at Tennessee Valley Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom	Maturity	Plant		Lodging	Shattering
		Dates	Dates	In.	In.	Rating	Rating
Essex-----	49.6 a	7/10	9/25	28	5.3	1.5	1
York-----	47.3 ab	7/08	9/30	34	5.5	2.9	1
Dare-----	45.8 ab	7/12	10/01	40	6.5	2.6	1
Forrest-----	45.2 ab	7/11	9/30	36	5.3	2.9	1
Tracy-----	44.1 b	7/08	*	40	7.0	3.6	1
Hood-----	39.2 c	7/17	10/05	40	7.3	4.3	1
Coker 136-----	38.5 c	7/15	10/04	44	9.0	2.1	1
McNair 600-----	37.1 cd	7/11	*	40	6.3	3.3	1
Lee 74-----	36.5 cde	7/16	*	35	7.3	4.3	1
Ransom-----	36.0 cde	7/16	*	37	8.3	2.5	1
FFR 666-----	35.5 cde	7/13	*	31	7.0	2.8	1
Lee 68-----	33.9 cdef	7/15	*	36	5.8	2.4	1
Hutton-----	33.1 def	7/25	*	39	7.3	4.5	1
Bragg-----	31.7 def	7/25	*	45	10.5	4.4	1
Davis-----	31.1 ef	7/25	*	43	7.5	4.8	1
McNair 800-----	29.7 f	7/25	*	36	10.0	5.0	1
FFR 777-----	29.1 f	7/22	*	44	8.8	4.4	1

C.V.% 9.1

\*Frost killed soybeans Oct. 3, 1974.

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

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

Table 36. Two-year Averages for Yield, Date of First Bloom, Date of Maturity, Plant and First Pod Height, and Lodging of Soybean Varieties Planted May 10 at Tennessee Valley Substation, 1973 and 1974

Variety	Yield <sup>1/</sup>	1st Bloom <sup>3/</sup>	Maturity <sup>3/</sup>	Plant ht. <sup>3/</sup>	Ht. 1st pod <sup>3/</sup>	Lodging <sup>3/</sup>	Shattering <sup>3/</sup>
	Bu/A	Dates	Dates	In.	In.	Rating	Rating
Essex-----	53.7	7/09	9/25	32	4.6	1.7	1
Forrest-----	52.2	7/11	9/27	34	4.4	2.4	1
York-----	51.7	7/09	9/28	33	4.5	2.3	1
Dare-----	50.2	7/14	9/28	37	5.3	2.4	1
Coker 136-----	47.0	7/15	10/01	41	7.0	1.7	1
Hood-----	43.3	7/17	10/03	37	6.1	3.6	1
McNair 600-----	42.0	7/13	10/07 <sup>2/</sup>	38	4.9	3.4	1
Lee 74 -----	41.9	7/16	10/08 <sup>2/</sup>	36	7.1	4.0	1
Lee 68-----	41.4	7/14	10/07 <sup>2/</sup>	36	5.6	3.1	1
FFR 666-----	41.1	7/15	10/06 <sup>2/</sup>	33	6.5	2.9	1
Ransom-----	40.4	7/17	10/12 <sup>2/</sup>	38	7.1	2.8	1
Hutton-----	39.4	7/23	10/19 <sup>2/</sup>	40	6.9	4.4	1
Davis-----	38.6	7/23	10/11 <sup>2/</sup>	41	6.8	4.6	1
Bragg-----	38.4	7/22	10/13 <sup>2/</sup>	43	9.0	4.3	1
McNair 800-----	36.1	7/23	10/11 <sup>2/</sup>	38	8.3	4.5	1
FFR 777-----	32.8	7/20	10/06 <sup>2/</sup>	42	7.9	4.4	1

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

2/Maturity date for 1973 as frost killed soybeans Oct. 3, 1974.

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

Table 37. Three- and Four-Year Yield and Three-Year Averages for Date of Maturity, Plant Height and Lodging of Soybean Varieties Planted May 7 at Tennessee Valley Substation

Variety	Yield		Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating
	3-yr. Av. <sup>1/</sup> 72-74	4-yr. Av. 71-74			
FFR 666	44.6	----	10/12 <u>3/</u>	34	3.5
Ransom	42.3	43.3	10/15 <u>3/</u>	40	2.6
Davis	42.0	----	10/14 <u>3/</u>	42	4.3
Bragg	39.9	41.4	10/15 <u>3/</u>	45	3.9
McNair 800	36.8	40.3	10/14 <u>3/</u>	38	4.2

1/ 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/ Maturity dates 1971-1973. Frost killed soybeans October 3, 1974.

Table 38. Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted May 7, 1974 at Upper Coastal Plain Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Ransom-----	49.3 a	7/12	10/09	37	7.8	1.5	1
Lee 74-----	49.1 ab	7/12	10/07	33	7.8	2.3	1
Hampton 266A---	48.4 abc	7/25	10/20	40	7.5	3.0	1
Hutton-----	46.1 abcd	7/18	10/23	32	6.8	2.3	1
Davis-----	45.8 abcd	7/23	10/07	44	9.0	2.5	1
Bragg-----	45.8 abcd	7/14	10/18	42	10.3	1.8	1
Pickett 71----	45.5 abcd	7/15	10/08	30	6.0	2.5	1
Coker 338----	45.4 abcd	7/15	10/25	37	7.8	3.0	1
Coker 71-211---	45.1 abcd	7/23	10/23	41	7.3	3.0	1
Tracy-----	44.1 abcd	7/11	10/02	32	7.3	1.9	1
Cobb-----	43.5 abcd	7/28	10/28	46	10.0	2.3	1
Essex-----	42.9 abcd	7/10	9/18	26	4.0	1.0	1
Coker 136----	42.6 abcd	7/12	10/01	38	6.8	1.3	1
McNair 600----	42.2 abcd	7/11	10/02	34	6.3	1.3	1
Forrest-----	40.5 abcd	7/10	10/01	33	6.0	2.0	1
McNair 800----	40.0 abcd	7/30	10/07	37	7.8	2.8	1
Hood-----	39.2 abcd	7/11	10/01	33	6.5	1.8	1
FFR 777-----	39.0 abcd	7/15	10/07	40	9.5	1.3	1
Lee 68-----	38.9 bcd	7/11	10/07	33	5.5	1.8	1
York-----	38.2 cd	7/10	9/18	29	4.8	1.5	1
Dare-----	37.2 d	7/11	9/28	30	5.3	1.3	1
FFR 666-----	36.1 d	7/11	10/04	28	5.3	1.5	1

C.V.%14.4

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

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

Table 39. Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted June 14, 1974 at Upper Coastal Plain Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Hampton 266A-----	41.8 a	8/19	10/28	42	7.5	3.8	1
Tracy-----	40.9 a	8/12	10/18	38	4.3	2.8	1
Forrest-----	40.5 a	8/05	10/08	36	5.8	2.5	1
Lee 74-----	40.2 a	8/12	10/18	34	5.5	3.3	1
Ransom-----	40.1 a	8/12	10/20	36	6.3	2.0	1
Essex-----	38.9 a	8/05	10/01	29	4.3	1.3	1
York-----	38.8 a	8/05	10/05	31	3.8	1.8	1
Coker 136-----	36.6 a	8/12	10/12	38	7.8	2.0	1
Dare-----	36.4 a	8/05	10/07	37	5.8	1.5	1
Hutton-----	36.0 a	8/16	10/18	35	6.3	2.3	1
Lee 74 & Bragg <sup>3/</sup> -----	35.4 a	8/12	10/18	38	4.8	3.3	1
Bragg-----	35.3 a	8/14	10/20	45	6.3	2.8	1
Lee 68-----	34.8 a	8/10	10/18	31	4.3	2.3	1
Coker 71-211-----	34.5 a	8/21	10/28	43	6.0	3.8	1
Davis & Bragg <sup>3/</sup> -----	34.2 a	8/15	10/18	41	5.3	2.5	1
Davis-----	33.4 a	8/16	10/18	39	4.3	2.5	1
McNair 600-----	33.2 a	8/12	10/10	38	6.5	2.3	1
Hood-----	33.1 a	8/10	10/07	37	4.0	1.8	1
Coker 338-----	33.0 a	8/15	10/28	44	7.5	3.3	1
McNair 800-----	32.6 a	8/23	10/18	37	5.8	2.3	1
Pickett 71-----	32.5 a	8/12	10/18	33	5.0	3.3	1
Cobb-----	32.1 a	8/24	10/28	48	8.5	3.0	1
W-46-----	27.6 a	8/23	10/25	44	7.3	4.0	1

C.V.% 15.6

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.

3/ Blends of 50% of each variety shown.

Table 40. Soybean Seed Quality and Size by Variety Where Grown at Upper Coastal Plain Substation, 1974

Variety	Planting dates					
	May 7, 1974		June 14, 1974		Seed size g/100 seed	Seed size g/100 seed
	Seed* quality Rating	Purple** stain Rating	Seed size g/100 seed	Seed quality Rating	Purple stain Rating	
Dare	1	1	13.3	1	1	15.4
Essex	1	1	11.7	1	1	14.2
Forrest	1	1	12.8	1	1	14.1
Coker 136	1	1	15.1	1	1	16.1
York	1	1	15.4	1	1	17.0
Hood	1	1	15.7	1	1	16.8
Davis	1	1	15.5	1	1	14.8
Lee 68	1	1	13.70	1	1	14.0
Lee 74	1	1	14.7	1	1	13.1
FFR 666	1	1	14.7	-	-	-
McNair 600	1	1	14.4	1	1	13.2
Tracy	1	1	18.0	2	1	16.8
Bragg	1	1	15.97	1	1	13.9
McNair 800	1	1	14.1	1	1	11.7
Ransom	1	1	17.6	1	1	14.8
FFR 777	1	1	15.5	-	-	-
Hutton	1	1	17.7	1	1	13.7
Hampton 266A	1	1	15.9	1	1	14.3
Coker 338	1	1	17.6	1	1	15.2
Coker 71-211	1	1	15.6	1	1	14.3
Cobb	1	1	14.5	1	1	12.1
Pickett 71	1	1	14.9	1	1	13.1
Davis & Bragg	-	-	-	1	1	14.7
Lee 74 & Bragg	-	-	-	1	1	13.5
W-46	-	-	-	1	1	10.8

\*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.

Table 41. Two Year Average Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted May 16, 1973-74 at Upper Coastal Plain Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. <sup>2/</sup> In.	1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Lee 74-----	45.0	7/17	10/06	32	7.0	2.4	1	
Ransom-----	43.8	7/18	10/06	37	7.3	1.3	1	
Davis-----	43.4	7/23	10/02	41	6.4	1.9	1	
Tracy-----	43.3	7/17	9/30	33	5.8	1.4	1	
Pickett 71----	43.2	7/19	10/06	29	4.8	2.3	1	
McNair 600----	43.0	7/17	9/31	34	5.6	1.3	1	
Coker 136-----	42.4	7/17	9/28	37	6.9	1.1	1	
Forrest-----	42.3	7/13	9/27	33	5.9	1.6	1	
Coker 338-----	40.6	7/19	10/17	38	6.3	2.3	1	
Food-----	40.2	7/17	9/28	32	5.4	1.4	1	
Lee 68-----	40.0	7/17	10/03	33	5.4	1.6	1	
Bragg-----	39.5	7/19	10/12	42	10.0	1.4	1	
Hampton 266A---	39.5	7/25	10/15	38	7.1	2.4	1	
Hutton-----	39.1	7/21	10/15	36	8.3	1.9	1	
Coker 71-211---	39.0	7/23	10/16	40	7.0	2.4	1	
Essex-----	38.9	7/13	9/18	27	4.3	1.0	1	
FFR 666-----	38.1	7/17	9/31	28	4.9	1.4	1	
McNair 800----	38.1	7/30	10/06	38	7.6	2.1	1	
York-----	37.8	7/13	9/18	29	4.0	1.3	1	
FFR 777-----	37.0	7/19	10/06	38	8.8	1.3	1	
Dare-----	35.3	7/13	9/26	29	5.1	1.1	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 42. Two-year Average Yield, Date of First Bloom and Maturity, Plant and First Pod Height, Lodging and Shattering of Soybean Varieties when Planted June 20, 1973-74 at Upper Coastal Plain Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Essex-----	37.6	8/04	10/03	28	4.6	1.3	1.0
Lee 74-----	37.4	8/09	10/15	34	6.3	2.3	1.0
Forrest-----	36.9	8/04	10/06	34	5.4	1.8	1.0
Ransom-----	36.7	8/11	10/18	34	6.5	1.5	1.0
Tracy-----	36.5	8/11	10/13	35	5.4	2.3	1.3
York-----	36.0	8/04	10/05	29	4.0	1.4	1.0
Hampton 266A	34.7	8/19	10/25	41	7.1	2.5	1.0
McNair 600-----	34.1	8/11	10/09	37	5.0	1.8	1.0
Coker 136-----	34.0	8/11	10/09	37	7.6	1.5	1.0
Pickett 71-----	33.9	8/15	10/13	34	4.6	2.6	1.0
Coker 338-----	33.5	8/16	10/24	42	6.1	2.4	1.0
Dare-----	33.0	8/07	10/06	35	5.4	1.3	1.0
Hutton-----	31.6	8/13	10/17	35	7.3	1.6	1.0
Hood-----	31.3	8/14	10/08	35	5.6	1.4	1.0
Davis-----	31.2	8/17	10/13	37	4.5	1.9	1.0
Bragg-----	31.2	8/08	10/18	40	6.3	1.9	1.0
Lee 68-----	30.7	8/14	10/11	33	5.0	2.0	1.0
McNair 800-----	30.6	8/20	10/14	33	5.9	1.8	1.0
Coker 71-211	30.5	8/16	10/24	41	5.4	2.5	1.0

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 43. Three-Year Averages for Yield, Date of Maturity, Plant and First Pod Heights and Lodging of Soybean Varieties Planted at Two Dates at Upper Coastal Plain Substation, 1972-74

Variety	Yield <sup>1/</sup> Bu/A	Maturity <sup>2/</sup> Date	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating
Average planting date May 12					
Forrest	37.1	9/27	36	5.6	1.6
Hood	34.9	9/28	35	5.0	1.6
Pickett 71	34.8	10/07	32	4.7	2.0
McNair 600	34.4	9/29	37	5.4	1.2
Ransom	34.4	10/05	39	6.5	1.2
Davis	34.3	9/31	41	5.5	1.6
Hampton 266A	32.5	10/22	41	6.9	2.1
Lee 68	32.4	10/03	35	5.5	1.8
FFR 666	31.7	9/30	32	4.9	1.3
Bragg	31.6	10/14	45	9.0	1.3
Dare	31.6	9/26	34	4.8	1.3
Hutton	31.6	10/16	38	7.3	1.9
McNair 800	31.5	10/10	39	6.9	2.1
Average planting date June 19					
Ransom	32.9	10/18	35	7.2	1.3
Forrest	32.7	10/07	34	5.5	1.7
McNair 600	31.4	10/09	36	5.4	1.5
Hampton 266A	30.7	10/29	41	6.3	2.6
Pickett 71	30.6	10/15	35	4.8	2.8
Davis	29.1	10/10	37	5.5	1.6
Dare	28.9	10/05	33	5.0	1.5
Hutton	28.9	10/20	35	7.2	1.8
Lee 68	28.7	10/14	33	5.2	2.2
Hood	28.3	10/08	33	5.0	1.5
Bragg	28.0	10/18	40	6.6	1.8
McNair 800	27.4	10/15	32	5.9	1.5

<sup>1/</sup>

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

<sup>2/</sup>

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

Table 44. Four- and Five-Year Averages for Yield of Soybean Varieties Grown at the Upper Coastal Plain Substation<sup>1/</sup> At Two Planting Dates

Variety	Soybean yield by planting date			
	May 15	May 13	June 22	June 20
	4-yr.	5-yr.	4-yr.	5-yr.
	71-74	70-74	71-74	70-74
Bu/A	Bu/A	Bu/A	Bu/A	Bu/A
Dare-----	29.9	32.5	31.4	31.4
Pickett 71-----	32.2	31.1	32.6	32.1
Davis-----	32.2	30.8	33.0	32.8
McNair 600-----	33.4	30.8	33.5	32.4
Hood-----	32.3	30.1	31.6	32.0
Hutton-----	30.6	29.9	32.7	32.1
Bragg-----	30.4	29.8	30.8	30.0
Hampton 266A-----	30.8	29.1	34.4	33.3
Lee 68-----	31.0	28.8	31.2	30.6
McNair 800-----	29.6	28.5	29.7	29.7
Ransom-----	33.0	----	35.3	----

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

Table 45. Yield, Date of First Bloom and Maturity Plant and First Pod Height, Lodging, and Shattering of Soybean Varieties when Planted May 13, 1974 at Wiregrass Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating	Shattering <sup>2/</sup> Rating
Davis-----	46.9 a	7/15	10/05	38	3.3	2.4	1
McNair 800-----	44.1 ab		10/11	34	3.8	1.8	1
Tracy-----	43.8 ab	7/10	10/05	29	1.8	1.9	1
Dare-----	43.3 ab	7/10	9/16	27	3.5	1.0	1
Coker 338-----	42.6 bc	7/12	10/18	34	3.3	2.3	1
McNair 600-----	42.2 bc	7/12	10/09	28	1.8	1.0	1
Essex-----	42.1 bc	7/10	9/16	21	2.3	1.0	1
Ransom-----	41.9 bc	7/13	10/14	27	3.0	1.0	1
Forrest-----	41.9 bc	7/10	9/16	28	3.0	1.3	1
Hutton-----	41.4 bc	7/15	10/17	37	4.5	2.3	1
Coker 71-211-----	40.9 bc	7/17	10/17	36	3.8	3.3	1
Pickett 71-----	40.6 bcd	7/14	10/08	24	2.3	1.0	1
Hampton 266A-----	40.1 bcde	7/17	10/17	36	5.0	3.0	1
Lee 74-----	39.3 bcde	7/15	10/09	23	1.3	1.0	1
Coker 136-----	39.7 bcde	7/12	9/13	34	5.5	1.4	1
Bragg-----	38.7 cde	7/13	10/13	32	3.0	1.4	1
D 63-4636-----	38.4 cde	7/12	9/20	26	1.3	1.1	1
Lee 68-----	36.4 de	7/15	10/12	17	1.3	1.0	1
Cobb-----	36.1 e	7/18	10/21	41	2.0	3.3	1
W-46-----	32.0 f		10/17	41	4.3	3.8	1

C.V.% 6.9

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.

Table 46. Soybean Seed Quality and Size by Variety When Grown at Wiregrass Substation, and Planted May 13, 1974

Variety	Seed*	Purple**	Seed
	quality Rating	stain Rating	size g/100 seed
Dare-----	3	2	17.7
Essex-----	3	2	19.3
Forest-----	3	2	16.1
Coker 136-----	2	2	15.8
K 64-4636-----	1	2	17.6
Pickett 71-----	1	1	15.8
Davis-----	1	2	18.4
Lee 68-----	1	1	17.5
Lee 74-----	1	2	16.7
Ransom-----	1	1	17.7
McNair 600-----	1	2	15.6
Tracy-----	2	2	19.1
Bragg-----	1	1	15.4
McNair 800-----	1	2	13.5
Hampton 266A-----	1	1	17.4
Coker 338-----	1	1	18.1
Hutton-----	1	1	20.2
Coker 71-211-----	1	1	16.6
Cobb-----	1	1	15.8
W-46-----	1	1	13.9

\* 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

Table 47. Two Year Averages for Yield, Date of First Bloom, Date of Maturity, Plant and First Pod Height, and Lodging of Soybean Varieties Planted May 14 at Wiregrass Substation

Variety	Yield <sup>1/</sup> Bu/A	1st Bloom <sup>2/</sup> Dates	Maturity <sup>2/</sup> Dates	Plant ht. <sup>2/</sup> In.	Ht. 1st pod <sup>2/</sup> In.	Lodging <sup>2/</sup> Rating
McNair 800-----	36.0	..	10/13	27	4.0	1.4
Dare-----	33.3	7/09	9/20	22	3.1	1.0
Coker 71-211----	33.2	7/18	11/01	30	4.3	2.1
Davis-----	33.0	7/12	10/04	29	3.8	1.7
Bragg-----	33.0	7/12	10/29	28	4.1	1.2
Essex-----	32.8	7/08	9/20	18	2.5	1.0
Hutton-----	32.8	7/16	11/01	30	5.0	1.6
McNair 600-----	32.4	7/12	10/11	23	2.9	1.0
Hampton 266A----	32.0	7/18	10/28	29	4.6	2.0
Ransom-----	31.3	7/12	10/23	23	3.5	1.0
Forrest-----	30.2	7/08	9/20	22	2.9	1.1
Coker 338-----	30.2	7/14	11/01	27	3.9	1.6
Lee 74-----	29.6	7/13	10/16	21	2.1	1.0
D64-4636-----	29.2	7/09	9/22	21	2.0	1.1
Lee 68-----	28.6	7/13	10/14	17	2.6	1.0

<sup>1/</sup>Yields adjusted to 13% moisture and 60 pounds per bushel.

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





