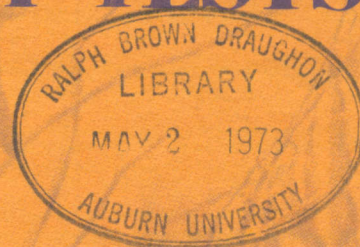


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NO. 10

ALABAMA SOYBEAN VARIETY TESTS 1972



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INTRODUCTION

Before a soybean variety is considered for planting, it should be evaluated at a number of locations, planting dates, and over a period of years. This will tend to average the differences in soil and climatic conditions that occur throughout the State. The most critical factor in soybean production is moisture and the most critical moisture period is during pod development and filling. Since soybeans are highly photo-periodic the blooming period, period of pod development and fill, and maturity date of a particular variety does not vary greatly from year to year. Therefore, it is important that varieties from more than one maturity group be evaluated.

EXPERIMENTAL PROCEDURES

A randomized block design in 4 replications was used at each of 6 locations. One to three planting dates were used at each location with the first planting at the optimal time for maximum yield. All locations were on units of the Auburn University Agricultural Experiment Station. All plots were 4 rows wide and 20 feet long with 16 ft of 2 center rows harvested for yield determinations. All plots were planted with a John Deere Flexi Planter with double disc openers. Row width varied from 36 inches to 42 inches depending on location.

SEASONAL CONDITIONS

Early in the 1972 season moisture was good and adequate stands were obtained at all plantings. Moisture was good during the early growth periods at all locations for the early planting dates. Severe drought conditions existed in 1972 during pod filling of mid to late season varieties at most locations. The 1972 season was similar to 1968 and 1969 for this respect.

Table 1. Rainfall by location during the period August 15 through September 25 for 1971 and 1972

Location	Rainfall from August 15 to September 25	
	1971	1972
	Inches	Inches
Black Belt Substation (Marion Junction)	8.47	1.45
Brewton Field (Brewton)	8.17	1.56
Gulf Coast Substation (Fairhope)	13.99	4.68
Prattville Field (Prattville)	7.27	2.70
Sand Mountain Substation (Crossville)	6.25	3.14
Upper Coastal Plain Substation (Winfield)	5.53	3.62

Table one indicates the big difference of rainfall for 1971 and 1972 at each location. The period of August 15 through September 25 is the period of pod development and fill for mid to full season varieties.

The very early varieties such as Dare were in the middle of pod filling by August 15 however Bragg had just finished blooming and was starting pod development.

Heavy rains caused delay in harvesting of some tests. The Sand Mountain varieties x date of planting test was not harvested until January 16, 1973. The early varieties for the first two planting dates in this test were severely shattered.

DATA RECORDED

Yield of soybeans was determined by hand harvesting the 2 center rows of each plot and threshing with a plot thresher. The yields were adjusted to 13% moisture and converted to bushels (60 lb.) per acre.

Maturity was taken 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 notes were taken on the border rows 14 days after maturity. The estimates were based 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 - 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 pods from ground at time of 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 number of seed per bushel (60 lb.).

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 damage, and brightness. Much of the poor quality reported was 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.
- 2 - 1 to 3% purple staining.
- 3 - 4 to 8% purple staining.
- 4 - 9 to 19% purple staining.
- 5 - over 20% purple staining.

VARIETY DATA

The entries included in these tests were varieties released prior to 1972 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 all have good nematode resistance.

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, Forrest, Hood, McNair 600, Lee 68 Davis

Plantings June 1 to 30

Dare, Forrest, Hood, Lee 68, Davis, McNair 800, Bragg, Ransom

Central Alabama

Plantings April 20 to May 15

Dare, Hood, McNair 600, Lee 68, Davis

Plantings May 16 to June 5

McNair 600, Lee 68, Davis, McNair 800, Ransom, Hampton 266A, Hutton, Bragg

Plantings June 6 to 30

Davis, Bragg, Ransom, Hampton 266A, Hutton

Southern Alabama

Plantings May 15 to June 1

Lee 68, Hood, Davis, McNair 600, Bragg, Ransom, McNair 800

Plantings June 2 to 30

Davis, Bragg, Ransom, McNair 800, Hampton 266A, Hutton

Soybean varieties grown in Alabama fall in Maturity Groups V, VI, VII, and VIII. The following is a list of the varieties and strains, with source of seed, tested over the past 5 years by maturity groups. For more information on these varieties, see Table 2. For information of other varieties see Bulletin 413.^{1/}

Very Early Varieties - Maturity Group V

Dare	Alabama Foundation Seed Stock Farm, Thorsby, Ala.
Forrest (D68-128)	USDA Delta Branch Experiment Station, Stoneville, Miss.

Early Varieties - Maturity Group VI

Davis	Alabama Foundation Seed Stock Farm, Thorsby, Ala.
Hood	Alabama Foundation Seed Stock Farm, Thorsby, Ala.
Lee 68	Alabama Foundation Seed Stock Farm, Thorsby, Ala.
McNair 600	McNair Seed Co., Laurinburg, N. C.
Pickett 71	USDA Delta Branch Experiment Station, Stoneville, Miss.
D67-4601*	USDA Delta Branch Experiment Station, Stoneville, Miss.
D64-4636*	USDA Delta Branch Experiment Station, Stoneville, Miss.
FFR 666*	Farmers Forage Research Corporation, W. Lafayette, Ind.
Coker 69-87A*	Coker Pedigreed Seed Co., Hartsville, S. C.

Mid-season Varieties - Maturity Group VII

Bragg	Alabama Foundation Seed Stock Farm, Thorsby, Ala.
Coker 68-38*	Coker Pedigreed Seed Co., Hartsville, S. C.
Coker 68-41*	Coker Pedigreed Seed Co., Hartsville, S. C.
McNair 800	McNair Seed Co., Laurinburg, N.C.
Ransom	Alabama Foundation Seed Stock Farm, Thorsby, Ala.

Late Varieties - Maturity Group VIII

Hampton 266A	Coker Pedigreed Seed Co., Hartsville, S.C.
Hutton (F63-4000)	USDA Delta Branch Experiment Station, Stoneville, Miss.
F66-1166*	USDA Delta Branch Experiment Station, Stoneville, Miss.

*Lines not released

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The author wishes to express appreciation to Superintendents J. K. Boseck, Emmett Carden, F. T. Glaze, S. E. Gissendanner, Robert Moore, Aubrey Smith and Harold Yates for growing and harvesting of variety tests.

^{1/}Soybean Production--Recent Research Findings, Auburn University Agricultural Experiment Station, Bulletin 413.

Table 2. Maturity and Other Characteristics of Soybean Varieties Tested

Group	Variety	Plant characteristics				Reaction to individual diseases ^{1/}					Nematode		Registration No. and Year ^{2/}	
		Pubes- cence	Flower color	Pod color	Hila color	Bacteria pustule	Wild- fire	Tar- get spot	Phyto- phthora rot	Purple seed stain	Resistance Cysts	Root- knot		
V	Dare	Grey	White	Tan	Buff	R	R	R	MR	R	R	MR	50	1966
	Forrest	Tawny	White	Tan	Black	R	R	R	MR	MR	R	R	-	-
VI	Hood	Grey	Purple	Lt. Tan	Buff	R	R	R	S	MR	S	S	30	1960
	Davis	Grey	White	Lt. Tan	Buff	R	R	R	R	MR	S	S	56	1966
	Lee 68	Tawny	Purple	Lt. Tan	Black	R	R	R	VR	R	S	S	72	1968
	Pickett 71	Grey	Purple	Tan	Black	R	R	MR	R	R	R	S	87	1971
	McNair 600 D64-4636	Tawny Grey	Purple White	Lt. Tan Tan	Black Buff	R R	R R	R R	S S	R MR	S S	R R	- -	- -
VII	Bragg	Tawny	White	Tan	Black	R	R	R	R	S	S	R	43	1964
	McNair 800	Grey	White	Tan	Buff	R	R	R	S	S	S	S	-	-
	Ransom	Tawny	Purple	Tan	Black	R	R	R	MS	R	S	S	95	1973
VIII	Hampton 266A	Grey	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	-	-
	F66-1166	Tawny	-	Brown	Black	R	R	R	S	S	S	R	-	-

^{1/}These are relative order of resistance: VR-very resistant; R-resistant; MR-moderately resistant; S-susceptible; VS-very susceptible.

^{2/}Registration of varieties are in Agronomy Journal from 1958-1963 and Crop Science 1964-1973.

Table 3. Yield of Soybean Varieties Tested at the Black Belt Substation^{1/}

Variety	Soybean Yield by 5 yr. Average Planting Date														
	May 14					June 5					June 27				
	1 yr. ^{2/} 72	2 yr. 71-72	3 yr. 70-72	4 yr. 69-72	5 yr. 68-72	1 yr. ^{2/} 72	2 yr. 71-72	3 yr. 70-72	4 yr. 69-72	5 yr. 68-72	1 yr. ^{2/} 72	2 yr. 71-72	3 yr. 70-72	4 yr. 69-72	5 yr. 68-72
Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	
Lee 68	40.7 ab	37.3	35.8	33.9	33.6	38.0 a	34.5	30.3	29.5	28.2	27.9 abc	24.5	20.4	19.7	17.8
Dare	36.9 bc	37.5	35.6	33.4	32.7	32.7 a	33.3	31.2	30.4	28.4	23.4 c	23.2	20.9	20.9	16.9
Davis	41.9 ab	37.8	34.7	32.6	32.4	38.0 a	36.8	32.7	30.3	29.2	34.1 a	29.7	25.0	25.3	-
Hood	41.6 ab	38.4	34.7	32.4	31.7	38.2 a	33.1	30.8	29.2	25.6	25.5 bc	22.8	20.4	19.7	16.6
Bragg	42.0 ab	37.0	31.9	31.1	31.0	38.3 a	36.4	30.9	30.6	28.1	31.9 ab	28.5	24.1	24.6	20.6
Hampton 266A	28.9 d	23.5	21.6	23.4	23.8	41.5 a	30.8	26.6	26.1	25.6	33.0 ab	25.6	21.8	20.4	18.4
McNair 800	41.8 ab	36.7	32.4	31.5	-	36.0 a	33.4	28.7	28.2	-	34.3 a	27.1	23.5	23.0	-
McNair 600	44.3 ab	41.1	37.1	-	-	37.8 a	36.6	32.1	-	-	29.0 abc	25.4	22.1	-	-
Hutton	41.7 ab	38.2	32.8	-	-	37.9 a	35.1	29.1	-	-	28.6 abc	25.2	21.8	-	-
Ransom	42.7 ab	41.9	-	-	-	42.9 a	40.5	-	-	-	32.1 ab	30.2	-	-	-
Forrest	45.9 a	-	-	-	-	38.1 a	-	-	-	-	24.4 c	-	-	-	-
Coker 69-87A	43.1 ab	-	-	-	-	40.4 a	-	-	-	-	29.0 abc	-	-	-	-
D64-4636	40.5 ab	-	-	-	-	40.2 a	-	-	-	-	29.5 abc	-	-	-	-
Coker 68-41	29.4 cd	-	-	-	-	42.9 a	-	-	-	-	29.4 abc	-	-	-	-
C.V.%	13.3					11.1					15.6				

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

^{2/}Yields followed by the same letter are not significantly different at .05 probability level. Planting dates were May 11, May 31, and June 23 for 1st, 2nd, and 3rd planting dates in 1972.

Table 4. Maturity Date, Lodging, Plant Height, and Height of First Pod of Soybean Varieties by Planting Dates When Grown on Black Belt Substation, 1972

Variety	Maturity date ^{2/}			Lodging rating ^{3/}			Plant height			Height 1st pod		
	Planting ^{1/}			Planting			Planting			Planting		
	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
							In.	In.	In.			
Dare	Sept. 17	Sept. 22	Oct. 6	3.1	2.2	1.7	35	38	29	3.5	4.1	4.5
Forrest	Sept. 23	Sept. 24	Oct. 9	2.0	2.0	2.4	33	41	27	3.2	5.5	4.5
Hood	Sept. 24	Sept. 29	Oct. 9	2.4	2.4	2.1	36	37	26	3.4	4.7	3.2
D64-4636	Sept. 26	Oct. 1	Oct. 9	1.9	2.1	2.6	34	34	26	3.2	3.2	4.7
Coker 69-87A	Sept. 27	Oct. 2	Oct. 10	2.4	2.1	1.9	37	40	29	5.4	7.0	5.7
Davis	Oct. 1	Oct. 5	Oct. 16	2.1	2.2	2.6	43	41	28	3.2	4.7	3.2
McNair 600	Oct. 9	Oct. 12	Oct. 17	2.1	2.7	2.7	37	40	30	3.0	4.6	3.4
Lee 68	Oct. 10	Oct. 11	Oct. 17	3.2	2.1	3.0	34	37	27	3.5	5.6	3.6
Ransom	Oct. 13	Oct. 20	Oct. 21	1.9	2.7	2.0	41	42	30	6.6	5.5	5.0
Hampton 266A	Oct. 16	Oct. 23	Nov. 9	4.1	2.4	3.0	43	46	33	7.0	7.0	5.5
Bragg	Oct. 17	Oct. 15	Oct. 21	3.1	3.2	3.4	42	43	33	6.0	5.5	5.0
McNair 800	Oct. 17	Oct. 14	Oct. 19	3.0	2.9	2.7	43	33	26	5.5	4.0	3.7
Coker 58-41	Oct. 25	Oct. 23	Oct. 30	4.1	2.7	3.0	43	47	31	5.0	5.7	5.0
Hutton	Oct. 29	Oct. 31	Oct. 23	3.2	3.2	2.9	42	40	29	4.7	4.5	4.2

^{1/}Planting dates were May 11, May 31, and June 23 for 1st, 2nd, and 3rd plantings, respectively.

^{2/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{3/}Lodging ratings were recorded on a scale of 1 to 5 according to:

1. almost all plants erect
5. all plants down

Table 5. Maturity Date, Lodging, Plant Height and Height of First Pod of Soybean Varieties by Planting Dates When Grown on Black Belt Substation, 71-72 Average

Variety	Maturity date ^{2/}			Lodging rating ^{3/}			Plant height			Height 1st pod		
	Planting ^{1/}			Planting			Planting			Planting		
	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
							in.	in.	in.	in.	in.	in.
Dare	Sept. 22	Sept. 26	Oct. 10	2.3	2.3	1.8	35	33	27	4.9	4.5	4.3
Hood	Sept. 27	Oct. 1	Oct. 10	2.5	2.3	1.8	34	31	24	4.1	4.9	3.4
Davis	Oct. 3	Oct. 9	Oct. 16	2.3	2.3	2.1	41	38	25	3.4	4.1	3.4
McNair 600	Oct. 7	Oct. 10	Oct. 15	1.8	2.3	2.0	37	37	27	4.0	5.2	3.4
Lee 68	Oct. 9	Oct. 11	Oct. 16	2.9	2.4	2.7	33	32	24	4.4	5.1	3.5
McNair 800	Oct. 15	Oct. 13	Oct. 19	2.5	2.2	1.9	41	30	22	6.0	4.7	2.8
Bragg	Oct. 16	Oct. 17	Oct. 21	2.8	2.8	2.4	42	39	29	6.4	5.6	4.5
Ransom	Oct. 16	Oct. 21	Oct. 22	1.8	2.0	1.6	38	36	26	6.5	5.5	4.3
Hutton	Oct. 24	Oct. 25	Oct. 23	3.5	2.9	2.1	41	35	26	5.4	5.4	4.1
Hampton 266A	Oct. 28	Oct. 31	Nov. 9	3.2	2.1	2.4	42	42	30	8.3	6.7	4.6

^{1/} Average planting dates were May 15, June 4, and June 26 for 1st, 2nd, and 3rd plantings, respectively.

^{2/} Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{3/} Lodging ratings were recorded on a scale of 1 to 5 according to:

1. almost all plants erect
2. all plants down

Table 6. Seed Quality and Size for Soybean Varieties by Planting Dates When Grown on Black Belt Substation, 1972

Variety	Seed quality rating ^{2/} Planting ^{1/}			Purple stain rating ^{3/} Planting			Number of Seed per Bushel Planting		
	1st	2nd	3rd	1st	2nd	3rd	1st Thous.	2nd Thous.	3rd Thous.
Dare	2	2	1.5	1	1.5	3	250	262	262
Forrest	4	4	4	1	1	3	233	278	276
D68-4636	3	2.5	1.5	1	1	2	219	243	252
Coker 69-87A	3	2.5	2	3	4	2	211	243	254
Hood	3	2	1.5	1	2	2.5	192	206	221
Lee 68	2	3	3	2	1	1	218	278	241
Davis	1.5	1.5	1.5	1.5	2	1	216	259	243
McNair 600	3	3	2	3	4	2	219	264	262
Bragg	2	4	2	3	2	1	196	233	235
Ransom	2	4	2	2.5	2	1	215	194	231
McNair 800	2	1.5	2	1	2	2	259	278	281
Coker 68-41	3	2	2	3	2	3	188	188	218
Hampton 266A	4	3	2.5	5	4	3	183	202	205
Hutton	2	3	2	2	1	1	169	188	233

^{1/}Planting dates were May 11, May 31, and June 23 for 1st, 2nd, and 3rd plantings, respectively.

^{2/}Seed quality ratings were on a scale from 1 to 5 according to 1 = very good and 5 = very poor.

^{3/}Purple stain ratings were on a scale from 1 to 5 according to 1 = no purple staining and 5 = over 20% purple staining.

Table 7. Yield of Soybean Varieties Tested at the Brewton Experiment Field, 1972^{1/}

Variety	Soybean yield by 5 yr. average planting dates									
	May 28					June 26				
	1 yr. ^{2/} 72	2 yr. 71-72	3 yr. 70-72	4 yr. 69-72	1 yr. ^{2/} 72	2 yr. 71-72	3 yr. 70-72	4 yr. 69-72	5 yr. 68-72	
Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	
Davis	16.9 a	29.8	35.4	37.2	12.4 abc	20.1	25.3	26.1	28.6	
Dare	17.3 a	28.8	33.2	33.4	13.0 ab	19.2	20.9	21.7	23.8	
Hampton 266A	9.5 de	25.1	28.7	32.4	13.5 a	17.8	26.4	28.3	30.1	
Bragg	11.5 cd	21.4	26.9	30.0	9.8 cdef	15.4	21.8	23.5	26.4	
Lee 68	11.9 c	24.0	27.6	28.5	8.9 def	17.4	19.7	21.1	22.2	
Ransom	10.3 cd	28.9	-	-	10.2 bcde	19.1	-	-	-	
McNair 600	14.3 b	27.5	-	-	11.6 abcd	20.3	26.0	-	-	
Hutton	8.0 e	27.4	-	-	7.7 ef	15.2	21.6	-	-	
McNair 800	11.1 cd	27.0	-	-	9.9 cde	17.8	24.5	24.9	-	
D64-4636	18.5 a	-	-	-	11.3 abcd	-	-	-	-	
Forrest	18.4 a	-	-	-	12.7 abc	-	-	-	-	
Coker 69-87A	17.8 a	-	-	-	13.3 a	-	-	-	-	
Coker 68-38	10.8 cd	-	-	-	13.7 a	-	-	-	-	
Coker 68-41	10.8 cd	-	-	-	13.5 a	-	-	-	-	
F66-1166	4.0 f	-	-	-	6.9 f	-	-	-	-	
C.V.%	11.8				16.6					

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

^{2/}Yields followed by the same letter are not significantly different at .05 probability level. Planting dates were June 2 and June 30 for 1st and 2nd plantings in 1972, respectively.

Table 8. Maturity Date, Lodging, Plant Height, and Height of First Pod of Soybean Varieties by Planting Date When Grown on Brewton Experiment Field, 1972

Variety	Maturity date ^{1/} Planting ^{2/}		Lodging rating ^{3/} Planting		Plant height Planting		Height 1st pod Planting	
	1st	2nd	1st	2nd	1st In.	2nd In.	1st In.	2nd In.
Dare	Sept. 16	Sept. 27	1	1	23	17	3.3	3.3
Forrest	Sept. 18	Oct. 1	1	1	21	17	3.3	2.3
Coker 69-87A	Sept. 18	Oct. 9	1	1	24	15	5.8	2.5
D64-4636	Sept. 20	Oct. 3	1	1	22	16	3.8	2.8
Davis	Sept. 25	Oct. 5	1	1	27	18	4.0	2.8
Lee 68	Sept. 27	Oct. 8	1	1	19	14	3.0	1.8
McNair 600	Sept. 28	Oct. 5	1	1	24	14	2.8	1.8
Ransom	Oct. 3	Oct. 12	1	1	25	17	5.0	3.5
McNair 800	Oct. 5	Oct. 12	1	1	22	12	5.5	1.8
Bragg	Oct. 5	Oct. 20	1	1	31	21	6.0	3.8
Coker 68-41	Oct. 9	Oct. 25	1.3	1	32	19	7.5	3.5
Hutton	Oct. 9	Oct. 25	1	1	31	22	7.5	4.5
Coker 68-38	Oct. 9	Oct. 27	1	1	30	18	7.3	3.5
Hampton 266A	Oct. 9	Oct. 27	1	1	34	20	8.3	4.8
F66-1166	Oct. 15	Oct. 30	1	1	35	22	7.5	4.8

^{1/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{2/}Planting dates were June 2 and June 30 for 1st and 2nd plantings, respectively.

^{3/}Lodging ratings were recorded on a scale from 1 to 5 according to 1 = almost all plants erect and 5 = all plants down.

Table 9. Maturity Date, Lodging, Plant Height, and Height of First Pod by Planting Dates When Grown on Brewton Experiment Field, 71-72 Average

Variety	Maturity date ^{1/}		Lodging rating ^{3/}		Plant height		Height 1st pod	
	Planting ^{2/}		Planting		Planting		Planting	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
					In.	In.	In.	In.
Dare	Sept. 17	Sept. 27	1.2	1.4	28	20	3.9	3.8
Davis	Sept. 27	Oct. 4	1.2	1.4	30	22	4.4	2.9
Lee 68	Oct. 1	Oct. 7	1.5	1.4	26	18	3.9	2.4
McNair 600	Oct. 1	Oct. 4	1.0	1.4	29	20	3.3	2.2
McNair 800	Oct. 5	Oct. 8	1.4	1.2	29	18	5.3	2.3
Bragg	Oct. 7	Oct. 14	1.2	1.7	36	25	6.4	3.4
Ransom	Oct. 8	Oct. 10	1.2	1.0	28	21	5.2	3.4
Hutton	Oct. 11	Oct. 18	1.5	1.7	35	24	6.3	4.4
Hampton 266A	Oct. 16	Oct. 25	1.4	1.8	38	25	8.6	4.1

^{1/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{2/}Planting dates were May 25 and June 21 for 1st and 2nd plantings, respectively.

^{3/}Lodging ratings were recorded on a scale from 1 to 5 according to 1 = almost all plants erect and 5 = all plants down.

Table 10. Seed Quality and Size for Soybean Varieties by Planting Dates When Grown on Brewton Experiment Field, 1972

Variety	Seed quality rating ^{1/} Planting ^{2/}		Purple stain rating ^{3/} Planting		Number of Seed per Bushel Planting	
	1st	2nd	1st	2nd	1st Thous.	2nd Thous.
Dare	2	2	1	1	313	296
Forrest	3	2.5	1	2	324	324
D64-4636	2	1.5	1	1	320	302
Coker 69-87A	2	2	1	1	269	276
Davis	2.5	2	1	1	262	302
Lee 68	1.5	5	1	1	296	264
McNair 600	2	2	1	1	291	281
Bragg	1.5	3	1	1	306	264
Ransom	2	5	1	1	309	259
McNair 800	1	1.5	1	1	328	278
Coker 68-38	1	3	1	2	281	243
Coker 68-41	2.5	2.5	2	1	283	264
Hampton 266A	2.5	2.5	1	2	283	225
Hutton	2	3	1	1	283	227
F66-1166	5	2	1	1	281	278

^{1/}Seed quality ratings were on a scale from 1 to 5 according to 1 = very good and 5 = very poor

^{2/}Planting dates were June 2 and June 30 for 1st and 2nd planting, respectively.

^{3/}Purple stain ratings were on a scale from 1 to 5 according to 1 = no purple staining and 5 = over 20% purple staining.

Table 11. Yield, Maturity Date, Lodging, Plant Height, and Height of First Pod of Soybean Varieties Grown at Gulf Coast Substation

Variety	Yield ^{1/}					Maturity Date ^{3/} 1972	Lodging Ratings ^{4/} 1972	Plant Height 1972	Height 1st Pod 1972
	1 yr. 72 ^{2/}	2 yr. 71-72	3 yr. 70-72	4 yr. 69-72	5 yr. 68-72				
	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A			In.	In.
Bragg	31.4 b	40.7	42.2	41.7	40.0	Sept. 30	2.0	34	5.2
Lee 68	38.5 a	42.6	43.2	41.6	40.0	Sept. 25	1.0	25	4.7
Davis	39.3 a	43.5	42.4	40.4	39.0	Sept. 25	1.2	35	5.5
Hood	39.4 a	41.8	38.5	38.4	38.0	Sept. 25	1.2	33	4.5
Dare	42.8 a	43.6	39.4	38.2	37.7	Sept. 20	1.0	29	4.2
Hampton 266A	26.8 c	36.5	36.8	36.0	35.8	Oct. 5	2.0	37	5.7
McNair 800	33.2 b	41.8	40.1	39.5	-	Sept. 30	1.0	35	5.7
McNair 600	40.3 a	44.4	44.4	-	-	Sept. 25	1.7	34	5.0
Hutton	27.4 c	38.8	38.5	-	-	Oct. 10	1.7	36	6.0
Ransom	31.9 b	42.7	-	-	-	Sept. 30	1.0	38	6.5
FFR 666	40.3 a	-	-	-	-	Sept. 25	1.0	26	4.7
Coker 69-87A	39.2 a	-	-	-	-	Sept. 25	1.5	35	6.0
Coker 68-38	32.0 b	-	-	-	-	Oct. 5	1.7	35	5.7
Coker 68-41	25.7 c	-	-	-	-	Oct. 5	1.7	36	6.7
C.V.%	9.2								

^{1/}Yields adjusted to 13% moisture and 60 pounds per bushel. Planting date was June 2 in 1972 and June 5 for 5 year average.

^{2/}Yields followed by the same letter are not significantly different at .05 probability level.

^{3/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{4/}Lodging ratings were on a scale of 1 to 5 according to 1 = almost all plants erect and 5 = all plants down.

Table 12. Maturity Date, Lodging Ratings, Plant Height, and Height of First Pod of Soybean Varieties When Grown on Gulf Coast Substation, 1971-72 Average

Variety	Maturity date ^{1/} 71-72	Lodging rating ^{2/} 71-72	Plant height 71-72 In.	Height 1st Pod 71-72 In.
Dare	Sept. 23	1.0	29	4.3
Hood	Sept. 30	1.1	32	4.4
Davis	Oct. 4	1.1	37	6.7
Lee 68	Oct. 4	1.0	28	5.3
McNair 600	Oct. 5	1.4	34	5.5
McNair 800	Oct. 8	1.0	35	6.1
Bragg	Oct. 10	1.5	36	5.9
Ransom	Oct. 13	1.0	31	5.3
Hampton 266A	Oct. 13	1.5	42	7.5
Hutton	Oct. 15	1.4	35	5.9

^{1/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{2/}Lodging ratings were recorded on a scale of 1 to 5 according to: 1 = almost all plants erect and 5 = all plants down.

Table 13. Yield of Soybean Varieties Tested at the Prattville Experiment Field

Variety	Soybean yield by 5 yr. average planting dates ^{1/}							
	May 10					June 18		
	1 yr. ^{2/} 72	2 yr. 71-72	3 yr. 70-72	4 yr. 69-72	5 yr. 68-70	1 yr. ^{2/} 72	2 yr. 71-72	3 yr. 70-72
	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A
Davis	28.1 b	36.3	38.6	38.8	38.5	18.2 cdef	29.0	32.5
Dare	32.2 ab	36.8	38.9	38.4	38.4	13.2 g	23.6	28.3
Hood	32.9 ab	35.0	36.4	36.4	37.4	16.7 f	26.0	29.1
Lee 68	20.7 efg	34.0	35.1	35.0	34.5	17.0 bcde	28.4	29.8
Bragg	11.2 g	29.8	32.1	32.4	31.9	23.4 ab	32.2	33.1
Hampton 266A	15.4 gh	29.8	22.4	31.2	30.4	22.3 ab	31.4	30.5
McNair 800	17.1 fg	30.2	31.5	30.8	-	21.2 abc	29.8	29.4
Hutton	15.4 gh	33.4	35.2	-	-	23.8 a	33.7	33.8
Pickett 71	21.1 ef	33.8	36.5	-	-	18.0 cdef	27.5	29.3
McNair 600	22.9 cde	35.4	36.1	-	-	20.7 abcd	31.0	32.6
Ransom	14.6 gh	32.4	-	-	-	20.8 abcd	33.1	-
Forrest	36.0 a	-	-	-	-	21.4 ab	-	-
D64-4636	33.1 ab	-	-	-	-	17.1 ef	-	-
Coker 69-87A	27.3 bcd	-	-	-	-	17.6 def	-	-
D674601	24.5 cde	-	-	-	-	22.9 ab	-	-
FFR 666	22.4 def	-	-	-	-	17.9 cdef	-	-
Coker 68-41	17.3 fg	-	-	-	-	21.7 ab	-	-
Coker 68-38	17.1 fg	-	-	-	-	21.6 ab	-	-
C.V.%	14.1					10.7		

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

^{2/}Yields followed by the same letter are not significantly different at .05 probability level. Planting dates were May 8 and June 28 for 1st and 2nd plantings, respectively, 1972.

Table 14. Maturity Date, Lodging, Plant Height and Height of First Pod of Soybean Varieties by Planting Dates When Grown on Prattville Experiment Field, 1972

Variety	Maturity date ^{1/} Planting ^{2/}		Lodging rating ^{3/} Planting		Plant height Planting		Height 1st pod Planting	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
					In.	In.	In.	In.
Dare	Sept. 18	Oct. 2	1	3.0	28	31	2.5	4.5
Forrest	Sept. 18	Oct. 14	1	3.4	28	30	2.7	2.2
D64-4636	Sept. 22	Oct. 18	1	2.1	26	29	2.2	4.2
Coker 69-87A	Sept. 22	Oct. 25	1	2.7	27	31	3.7	3.5
Hood	Sept. 21	Oct. 9	1	2.0	30	31	3.5	3.7
Davis	Sept. 24	Oct. 22	1	2.2	36	33	5.2	3.5
Lee 68	Sept. 25	Oct. 16	1	2.4	28	28	3.2	3.2
McNair 600	Sept. 28	Oct. 20	1	2.7	32	33	4.0	1.7
FFR 666	Sept. 23	Oct. 25	1	2.5	28	28	3.5	2.2
Pickett 71	Sept. 28	Oct. 25	1	4.5	29	27	3.5	2.7
D67-4601	Oct. 5	Oct. 20	1	1.6	30	33	3.5	3.2
Bragg	Oct. 5	Oct. 20	1	3.4	37	34	5.5	1.7
Ransom	Sept. 28	Oct. 30	1	1.4	30	31	4.7	3.0
McNair 800	Oct. 9	Oct. 20	1	1.2	36	30	5.7	3.5
Coker 6838	Oct. 15	Nov. 1	2	4.1	36	35	5.5	2.2
Coker 6841	Oct. 16	Nov. 1	2.1	4.2	40	34	5.2	2.2
Hampton 266A	Oct. 14	Nov. 1	2.1	4.2	38	34	6.0	2.0
Hutton	Oct. 16	Nov. 1	1.1	3.0	35	34	4.7	2.2

^{1/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{2/}Planting dates were May 8 and June 28 for 1st and 2nd plantings, respectively.

^{3/}Lodging ratings were recorded on a scale from 1 to 5 according to: 1 = almost all plants erect and 5 = all plants down.

Table 15. Average Maturity Date, Lodging, Plant Height, and Height of First Pod of Soybean Varieties by Planting Dates When Grown on Prattville Experiment Field, 1971 & 72

Variety	<u>Maturity date</u> ^{1/}		<u>Lodging rating</u> ^{3/}		<u>Plant height</u>		<u>Height 1st pod</u>	
	<u>Planting</u> ^{2/}		<u>Planting</u>		<u>Planting</u>		<u>Planting</u>	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
					In.	In.	In.	In.
Dare	Sept. 24	Oct. 7	1	2.3	28	28	2.7	3.4
Hood	Oct. 1	Oct. 12	1.1	2.4	29	29	3.2	2.9
Davis	Oct. 5	Oct. 20	1	2.3	36	32	4.3	2.8
McNair 600	Oct. 7	Oct. 18	1	2.6	32	31	3.4	1.8
Lee 68	Oct. 6	Oct. 16	1	3.2	30	28	3.3	2.5
Pickett 71	Oct. 7	Oct. 22	1	4.5	30	26	3.2	2.1
Bragg	Oct. 12	Oct. 22	1	3.2	39	33	5.5	2.1
Ransom	Oct. 10	Oct. 27	1	1.2	31	30	4.5	3.1
McNair 800	Oct. 14	Oct. 20	1.5	1.8	36	28	4.5	3.1
Hampton 266A	Oct. 22	Oct. 30	1.5	3.6	40	34	5.0	2.4
Hutton	Oct. 20	Oct. 30	1	2.3	38	33	4.7	2.9

^{1/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{2/}Average planting dates were May 7 and June 21 for 1st and 2nd plantings, respectively.

^{3/}Lodging ratings were on a scale from 1 to 5 according to 1 = almost all plants erect and 5 = all plants down.

Table 16. Seed Quality and Size For Soybean Varieties by Planting Dates When Grown at Prattville Field, 1972

Variety	Seed quality rating ^{1/} Planting ^{2/}		Purple stain rating Planting		Number of Seed per Bushel Planting	
	1st	2nd	1st	2nd	1st Thous.	2nd Thous.
Dare	1.5	2	1	2	276	293
Forrest	2	4	1	1.5	272	262
D64-4636	1.5	2	1	1.5	257	209
Coker 69-87A	2	2	1	3	276	199
Hood	2.5	3	1	2	245	231
Lee 68	1	1.5	1	2	324	235
Davis	2	2	1	3	237	218
McNair 600	2	3	1.5	3	285	199
Pickett 71	1.5	1.5	1	3	349	223
FFR 666	2	1.5	1	2	283	235
D 67-4601	2	2	1	1	250	169
Bragg	3	2	1	4	353	193
Ransom	2	2	1	5	336	180
McNair 800	2	1.5	1	2	340	221
Coker 68-38	2.5	3	1	5	344	190
Coker 68-41	2.5	3	1.5	4	328	190
Hampton 266A	3	2	2	2	269	206
Hutton	3	1.5	1	2	291	193

^{1/}Seed quality ratings were on a scale from 1 to 5 according to 1 = very good and 5 = very poor.

^{2/}Planting dates were May 8 and June 28 for 1st and 2nd plantings, respectively.

^{3/}Purple stain ratings were on a scale from 1 to 5 according to 1 = no purple staining and 5 = over 20% purple staining.

Table 17. Yield of Soybean Varieties Tested at the Sand Mountain Substation^{1/}

Variety	Soybean Yield by 5 yr. Average Planting Date														
	May 3					May 27					June 18				
	1 yr. 722/ Bu/A	2 yr. 71-72 Bu/A	3 yr. 70-72 Bu/A	4 yr. 69-72 Bu/A	5 yr. 68-72 Bu/A	1 yr. 722/ Bu/A	2 yr. 71-72 Bu/A	3 yr. 70-72 Bu/A	4 yr. 69-72 Bu/A	5 yr. 68-72 Bu/A	1 yr. 722/ Bu/A	2 yr. 71-72 Bu/A	3 yr. 70-72 Bu/A	4 yr. 69-72 Bu/A	5 yr. 68-72 Bu/A
Bragg	25.6 a	39.1	41.1	39.4	40.2	27.7 a	36.7	37.7	37.0	38.3	28.4 a	30.2	31.5	27.7	30.3
Lee 68	22.7 cd	37.6	40.4	39.0	39.5	25.3 ab	33.6	34.0	33.1	34.7	26.7 abc	29.6	30.7	27.7	30.1
Davis	16.2 f	33.7	38.1	38.2	38.8	17.4 de	30.8	32.8	33.1	34.4	22.7 ef	28.6	30.3	27.8	30.4
Dare	9.0 h	29.0	36.4	37.3	37.5	12.1 f	24.8	28.9	29.5	28.7	18.2 g	29.1	31.1	28.1	30.7
Hood	8.2 h	26.3	33.6	35.4	36.6	14.5 ef	28.2	31.1	31.0	32.8	21.6 f	29.6	30.2	27.7	30.1
McNair 800	16.6 f	31.5	35.2	35.7	-	19.1 cde	31.5	32.9	32.7	-	28.9 a	34.6	34.4	31.1	-
Pickett 71	23.8 bc	38.9	41.4	-	-	23.8 abc	32.6	34.0	-	-	25.9abcde	29.1	31.0	-	-
Hutton	22.1 de	36.9	41.2	-	-	26.0 ab	34.4	35.6	-	-	-	-	-	-	-
McNair 600	22.5 cd	37.2	40.7	-	-	25.6 ab	34.7	36.6	-	-	26.4 abcd	31.4	33.7	-	-
Ransom	22.7 cd	40.6	-	-	-	27.8 a	37.3	-	-	-	26.8 ab	33.0	-	-	-
Forrest	14.0 g	34.9	-	-	-	21.7 bcd	-	-	-	-	28.3 a	-	-	-	-
D64-4636	16.5 f	32.4	-	-	-	19.2 cde	-	-	-	-	23.3 cdef	-	-	-	-
Coker 68-41	24.9 ab	-	-	-	-	25.3 ab	-	-	-	-	-	-	-	-	-
FFR 666	21.7 de	-	-	-	-	23.4 abc	-	-	-	-	24.6bcdef	-	-	-	-
Coker 69 87A	21.3 e	-	-	-	-	21.8 bcd	-	-	-	-	23.0 def	-	-	-	-
C.V.%	4.2					13.8					8.7				

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

^{2/}Yields followed by the same letter are not significantly different at .05 probability level. Planting dates were May 1, May 24, and June 20 for 1st, 2nd and 3rd plantings, respectively for 1972.

Table 18. Maturity Date, Lodging, Plant Height and Height of First Pod of Soybean Varieties by Planting Dates When Grown on Sand Mountain Substation, 1972

Variety	Maturity date ^{1/} Planting ^{2/}			Lodging rating ^{3/} Planting			Plant height Planting			Height 1st pod Planting		
	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
							In.	In.	In.	In.	In.	In.
Dare	Sept. 22	Sept. 28	Oct. 13	2.8	2.8	3.5	37	39	38	8.3	6.8	6.8
Forrest	Sept. 22	Sept. 28	Oct. 18	2.3	2.8	4.0	38	39	36	8.5	7.5	7.8
D64-4636	Sept. 28	Oct. 13	Oct. 18	2.8	2.8	3.3	34	35	30	7.8	8.3	7.0
Coker 69-87A	Oct. 4	Oct. 13	Oct. 18	3.3	3.3	2.8	38	38	34	8.3	9.3	10.0
Hood	Sept. 22	Sept. 28	Oct. 18	4.0	3.3	3.8	36	37	32	8.5	6.3	6.8
Lee 68	Oct. 13	Sept. 18	Oct. 24	4.3	3.5	4.0	37	33	36	7.8	8.0	7.8
Davis	Oct. 13	Sept. 18	Oct. 30	4.3	3.8	3.5	39	41	34	9.3	9.3	7.5
McNair 600	Oct. 13	Sept. 18	Oct. 18	4.0	3.8	3.3	38	40	32	7.3	6.5	6.0
Pickett 71	Oct. 13	Sept. 18	Oct. 24	3.8	4.0	3.8	35	36	32	7.3	7.3	7.5
FFR 666	Oct. 13	Sept. 13	Oct. 18	3.8	4.0	4.0	34	34	29	7.3	8.3	7.5
Bragg	Oct. 18	Sept. 30	Oct. 30	3.0	3.0	3.8	43	45	38	11.8	9.0	9.0
Ransom	Oct. 18	Sept. 30	Oct. 30	2.8	3.3	2.8	35	39	33	7.8	8.5	9.5
McNair 800	Oct. 13	Sept. 24	Oct. 30	5.0	3.8	2.3	35	35	29	9.0	8.8	10.8
Coker 68-41	Oct. 24	Sept. 30	-	3.0	4.0	-	39	44	-	11.3	8.8	-
Hutton	Oct. 18	Sept. 30	-	4.0	3.8	-	39	38	-	8.5	9.0	-

^{1/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{2/}Planting dates were May 1, May 24, and June 20 for 1st, 2nd, and 3rd plantings, respectively.

^{3/}Lodging ratings were on a scale from 1 to 5 according to 1 = almost all plants erect and 5 = all plants down.

Table 19. Average Maturity Date, Lodging, Plant Height, and Height of First Pod of Soybean Varieties by Planting Dates When Grown on Sand Mountain Substation, 1971 & 1972

Variety	<u>Maturity date</u> ^{1/}			<u>Lodging rating</u> ^{3/}			<u>Plant height</u>			<u>Height 1st pod</u>		
	<u>Planting</u> ^{2/}			<u>Planting</u>			<u>Planting</u>			<u>Planting</u>		
	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
							In.	In.	In.	In.	In.	In.
Dare	Sept. 21	Sept. 28	Oct. 13	2.4	2.6	3.1	33	37	34	6.4	5.9	5.6
Forrest	Sept. 24	-	-	2.1	-	-	33	-	-	6.1	-	-
D64-4636	Sept. 29	-	-	1.9	-	-	29	-	-	5.9	-	-
Hood	Sept. 25	Oct. 2	Oct. 18	3.6	3.1	2.9	34	35	30	6.7	5.9	5.6
Lee 68	Oct. 10	Oct. 13	Oct. 18	3.6	3.6	3.9	32	34	33	6.6	7.0	6.6
Davis	Oct. 14	Oct. 18	Oct. 25	3.4	3.6	3.0	38	37	34	8.3	8.3	6.3
McNair 600	Oct. 10	Oct. 13	Oct. 17	3.4	3.6	2.8	36	37	33	5.4	6.0	5.2
Pickett 71	Oct. 13	Oct. 15	Oct. 21	3.4	3.9	3.6	32	35	31	6.3	6.3	6.5
Bragg	Oct. 17	Oct. 23	Oct. 25	3.4	3.2	3.0	43	40	35	9.0	8.5	7.7
Ransom	Oct. 17	Oct. 24	Oct. 24	2.6	3.3	1.9	33	39	32	7.0	8.7	8.0
McNair 800	Oct. 12	Oct. 21	Oct. 24	4.2	3.6	2.0	34	35	29	7.7	8.3	7.6
Hutton	Oct. 18	Oct. 25	-	3.9	4.4	-	38	39	-	7.7	10.1	-

^{1/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{2/}Average planting dates were May 2, May 31, and June 26 for 1st, 2nd, and 3rd plantings, respectively for 1971 & 1972.

^{3/}Lodging ratings were on a scale from 1 to 5 according to 1 = almost all plants erect and 5 = all plants down.

Table 20. Seed Quality and Seed Size of Soybean Varieties by Planting Dates When Grown on Sand Mountain Substation, 1972

Variety	Seed quality rating ^{1/} Planting ^{2/}			Purple Stain rating ^{3/} Planting			Number of Seed per Bushel Planting		
	1st	2nd	3rd	1st	2nd	3rd	1st Thous.	2nd Thous.	3rd Thous.
Dare	5	5	5	1	1	1	$\frac{4}{4}$	$\frac{4}{4}$	197
Forrest	5	5	3	1	1	1	$\frac{4}{4}$	$\frac{4}{4}$	206
D64-4636	5	5	2	1	1	1	205	192	189
Coker 69-87A	5	5	3	1	1	2	173	$\frac{179}{4}$	167
Hood	5	5	5	1	1	1	$\frac{4}{4}$	$\frac{4}{4}$	197
Lee 68	5	3.5	2.5	1	1	2	197	180	183
Davis	5	5	3	1	1	1	185	163	160
McNair 600	5	5	5	1	1	1	184	192L	196
Pickett 71	5	4	2	1	1	1	199	186	173
FFR 666	5	5	5	1	1	1	184	180	211
Bragg	5	3	4	1.5	1	2	173	151	149
Ransom	5	4	3	1	1	1	168	154	150
McNair 800	5	5	1.5	1	1	2	245	183	188
Coker 68-41	3	2	-	1.5	2	-	162	146	-
Hutton	4	4	-	2	1	-	177	150	--

^{1/}Seed quality ratings were on a scale from 1 to 5 according to 1 = very good and 5 = very poor.

^{2/}Planting dates were May 1, May 24, and June 20 for 1st, 2nd, and 3rd plantings, respectively. Plants were harvested January 16, 1973.

^{3/}Purple stain ratings were on a scale from 1 to 5 according to 1 = no purple staining and 5 = over 20% purple staining.

^{4/}Seed quality too poor to make size determinations.

Table 21. Yield of Soybean Varieties Tested at the Upper Coastal Plain Substation^{1/}

Variety	Soybean yield by average planting dates									
	May 12					June 21				
	1 yr. ^{2/} 72	2 yr. 71-72	3 yr. 70-72	4 yr. 69-72	5 yr. 68-72	1 yr. ^{2/} 72	2 yr. 71-72	3 yr. 70-72	4 yr. 69-72	5 yr. 68-72
	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A	Bu/A
Hood	24.3 a	24.4	23.4	19.4	31.2	22.3 a	31.9	32.4	33.9	35.7
Dare	24.1 a	24.4	30.6	32.3	31.1	20.8 a	29.8	30.4	31.4	31.8
Davis	16.0 b	21.0	22.4	26.5	30.6	24.8 a	34.8	33.8	36.9	38.6
Bragg	15.8 b	21.3	23.4	25.6	30.2	21.6 a	30.4	29.2	32.5	35.5
Hampton 266A	18.5 b	22.2	22.1	24.7	29.6	22.5 a	34.1	32.4	36.0	38.3
Lee 68	17.3 b	22.0	21.4	24.1	29.1	24.5 a	31.7	30.5	33.6	34.3
McNair 800	18.3 b	21.0	22.1	26.2	-	21.0 a	28.8	29.1	32.2	-
F63-4000	16.6 b	22.2	23.8	-	-	23.5 a	33.9	30.7	-	-
Pickett 71	18.0 b	21.2	23.0	-	-	23.9 a	31.2	30.9	-	-
McNair 600	17.1 b	23.7	22.7	-	-	26.1 a	32.8	31.3	-	-
Ransom	15.6 b	22.3	-	-	-	25.3 a	33.9	-	-	-
D68-128	26.6 a	-	-	-	-	24.5 a	-	-	-	-
D64-4636	24.1 a	-	-	-	-	24.1 a	-	-	-	-
FFR 666	19.0 b	-	-	-	-	25.8 a	-	-	-	-
Coker 68-41	17.2 b	-	-	-	-	19.8 a	-	-	-	-
Coker 69-87A	15.9 b	-	-	-	-	26.0 a	-	-	-	-
Coker 68-38	15.6 b	-	-	-	-	23.4 a	-	-	-	-
C.V.%	11.7					16.9				

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

^{2/}Yields followed by the same letter are not significantly different at .05 probability level. Planting dates were May 5 and June 21 for 1st and 2nd plantings, respectively.

Table 22. Maturity Date, Lodging, Plant Height, and Height of First Pod of Soybean Varieties When Grown on Upper Coastal Plain Substation, 1972

Variety	<u>Maturity date</u> ^{1/}		<u>Lodging rating</u> ^{3/}		<u>Plant height</u>		<u>Height 1st pod</u>	
	<u>Planting</u> ^{2/}		<u>Planting</u>		<u>Planting</u>		<u>Planting</u>	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
					In.	In.	In.	In.
Dare	Sept. 27	Oct. 3	1.7	2.0	42	30	4.0	4.2
Forrest	Sept. 27	Oct. 9	1.5	1.5	43	33	5.0	5.7
Hood	Sept. 27	Oct. 9	2.0	1.7	41	30	4.2	3.7
Lee 68	Oct. 3	Oct. 18	2.0	2.5	39	33	5.7	5.7
Davis	Sept. 27	Oct. 3	1.0	1.0	42	38	3.7	7.5
McNair 600	Sept. 27	Oct. 9	1.0	1.0	43	34	5.0	6.2
D64-4636	Sept. 27	Oct. 3	1.2	1.0	38	32	3.2	4.5
Coker 69-87A	Sept. 27	Oct. 9	1.0	1.2	40	35	5.5	4.7
Pickett 71	Oct. 9	Oct. 18	1.5	3.0	38	38	4.5	5.0
FFR 666	Sept. 27	Oct. 9	1.0	2.5	40	33	5.0	5.0
Bragg	Oct. 18	Oct. 18	1.0	1.7	50	40	7.0	7.2
Ransom	Oct. 3	Oct. 18	1.2	1.0	43	35	5.0	8.5
McNair 800	Oct. 18	Oct. 18	2.0	1.0	40	30	5.5	6.0
Coker 68-38	Oct. 18	Nov. 6	1.2	2.7	43	38	4.5	5.0
Coker 68-41	Oct. 24	Oct. 24	1.7	2.5	50	42	4.7	3.2
Hampton 266A	Nov. 6	Nov. 6	1.5	2.7	48	42	6.5	4.5
Hutton	Oct. 18	Oct. 24	2.0	2.0	44	34	5.5	7.2

^{1/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{2/}Planting dates were May 5 and June 21 for 1st and 2nd plantings, respectively.

^{3/}Lodging ratings were recorded on a scale from 1 to 5 according to: 1 = almost all plants erect and 5 = all plants down.

Table 23. Average Maturity Dates, Lodging, Plant Height and Height of First Pod of Soybean Varieties When Grown on Upper Coastal Plain Substation, 1971-72 Average

Variety	<u>Maturity date</u> ^{1/}		<u>Lodging rating</u> ^{3/}		<u>Plant height</u>		<u>Height 1st pod</u>	
	<u>Planting</u> ^{2/}		<u>Planting</u>		<u>Planting</u>		<u>Planting</u>	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
					In.	In.	In.	In.
Dare	Sept. 29	Oct. 11	1.4	1.8	34	31	3.5	3.8
Hood	Oct. 6	Oct. 14	1.5	1.4	34	30	4.3	3.5
McNair 600	Oct. 8	Oct. 18	1.0	1.1	39	32	4.4	4.9
Davis	Oct. 8	Oct. 14	1.0	1.0	38	36	4.1	5.5
Lee 68	Oct. 9	Oct. 18	1.5	2.0	34	31	5.1	4.9
Ransom	Oct. 11	Oct. 25	1.1	1.0	38	34	5.4	6.5
Pickett 71	Oct. 14	Oct. 22	1.3	2.0	33	33	4.3	3.9
McNair 800	Oct. 18	Oct. 24	1.5	1.0	36	29	5.4	4.7
Bragg	Oct. 18	Oct. 23	1.0	1.4	46	34	7.4	5.6
Hutton	Oct. 18	Oct. 28	1.5	1.5	41	34	6.5	5.4
Hampton 266A	Oct. 31	Nov. 5	1.3	2.1	43	41	6.3	4.8

^{1/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{2/}Average planting dates were May 12 and June 26 for 1st and 2nd plantings, respectively.

^{3/}Lodging ratings were recorded on a scale from 1 to 5 according to 1 = almost all plants erect and 5 = all plants down.

Table 24. Seed Quality, Purple Stain and Number of Seed per Bushel for Soybean Varieties Grown on Upper Coastal Plain Substation, 1972

Variety	Seed quality rating ^{1/} Planting ^{2/}		Purple Stain rating ^{3/} Planting		Number of Seed per Bushel Planting	
	1st	2nd	1st	2nd	1st Thous.	2nd Thous.
Dare	1.0	1.0	1.0	1.0	271	291
Forrest	1.5	1.0	1.0	1.0	294	291
Hood	1.5	1.0	1.0	1.0	245	281
Lee 68	1.0	1.5	1.0	1.0	272	231
Davis	2.0	1.0	1.0	1.0	256	252
McNair 600	2.0	2.0	2.0	1.0	294	264
D64-4636	1.0	1.0	1.0	1.0	231	297
Coker 69-87A	2.0	1.0	2.0	1.0	240	210
Pickett 71	1.0	1.0	2.0	2.0	288	239
FFR 666	1.0	1.0	1.0	1.0	294	256
Bragg	2.0	1.0	2.0	2.0	234	189
Ransom	2.0	1.0	1.5	2.0	261	195
McNair 800	1.5	1.5	1.0	1.5	269	255
Coker 68-38	1.5	1.5	2.5	5.0	212	201
Coker 68-41	2.0	1.0	5.0	4.0	212	190
Hampton 266A	2.0	1.0	5.0	5.0	191	197
Hutton	1.5	1.0	1.5	1.0	207	193

^{1/} Seed quality ratings were on a scale from 1 to 5 according to 1 = very good and 5 = very poor.

^{2/} Planting dates were May 5 and June 21 for 1st and 2nd plantings, respectively.

^{3/} Purple stain ratings were on a scale from 1 to 5 according to 1 = no purple staining and 5 = over 20% purple staining.

Table 25. Maturity Date, Lodging Rating, Plant Height, and Yield of Soybean Varieties Grown on Tennessee Valley Substation, 1972

Variety	Maturity Date ^{1/}	Lodging ^{2/} %	Plant Height Inches	Yield ^{3/}	2 Year Avg.
				'72 Bu/A	71-72 Bu/A
Ransom	Oct. 17	2.2	44	46.0 bc	46.3
McNair 800	Oct. 16	3.7	39	38.4 c	44.5
Bragg	Oct. 17	3.2	48	43.0 bc	44.4
Davis	Oct. 18	3.7	43	48.7 abc	
FFR 666	Oct. 18	4.7	36	51.5 abc	
Coker 68-41	Oct. 22	3.3	50	45.9 bc	
F63-4000	Oct. 23	3.3	47	54.1 ab	
Coker 68-38	Oct. 25	2.8	48	59.9 a	
C.V.%				9.2	

^{1/}Maturity was taken as the date when the pods were dry and most of the leaves had dropped. Under most conditions the stems were also dry.

^{2/}Lodging ratings were on a scale of 1 to 5 according to 1 = almost all plants erect and 5 = all plants down.

^{3/}Yields adjusted to 13% moisture and 60 pounds per bushel. Planted May 4, 1972. Yields followed by the same letter are not significantly different at .05 probability level.