

RESULTS OF THE COOPERATIVE UNIFORM SOYBEAN TESTS

PART II. SOUTHERN STATES

1944

Compiled by:

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INTRODUCTION

New strains of soybeans along with established varieties are being grown in Uniform Tests over the Southern Region. These strains have been grouped according to maturity. In 1943 the southern strains were grouped according to maturity into the Uniform Test Groups of V and VI. It was found that the range in maturity within each group was too great for proper testing, and at the collaborator's meeting in March 1944, the varieties were regrouped into the three Uniform Test Groups of V, VI, and VII. Interest in strains earlier than those of Group V led to the growing of a relatively large number of tests of Group IV in the Upper South. Also a number of tests of Group III were grown at several locations in the South. Dates of Planting tests were conducted at a number of locations during 1944.

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Of the three southern groups, the strains of Group V are of the maturity of Ogden and Arksoy, and are more adapted to the upper half of the Southern Region. Volstate and Palmetto are varieties typical of the maturity of the strains of Group VI. While the regional adaptation of this group of strains is the middle South, some of these strains do exceptionally well over much of the Southern Region. The strains of Group VII are the latest maturing strains adapted to the long growing season of the Lower South, Avoyelles, Delsta, Nanda and Wood's Yellow are typical varieties of this group.

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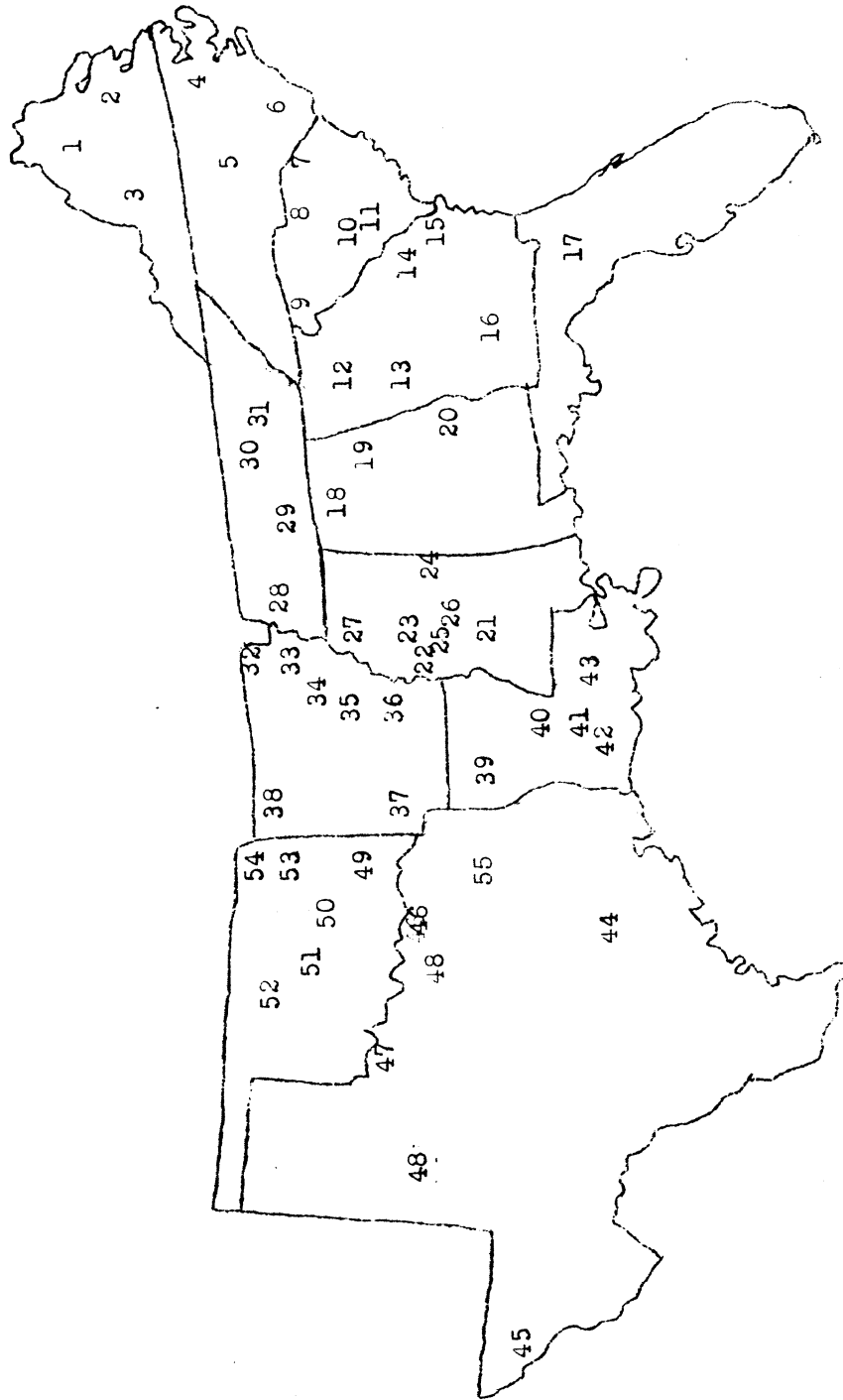
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LOCATION OF COOPERATIVE NURSERIES

No. on Map	LOCATION	COOPERATOR	Dates of Planting	UNIFORM TESTS						
				III	IV	V	VI	VII		
1	Orange, Va.	Orange County Agr. Exp. Sta.	X		X					
2	Blacksburg, Va.	Va. Agr. Exp. Sta.	X	X	X					
3	Williamsburg, Va.	James County Agr. Exp. Sta.	X			X				
4	Plymouth, N.C.	Blackland Exp. Sta.				X				
5	Raleigh, N.C.	N. Car. Agr. Exp. Sta.	X		X				X	
6	Willard, N.C.	Coastal Plain Exp. Sta.				X			X	
7	Florence, S.C.	Fee Dee Agr. Exp. Sta.					X		X	
8	Hartsville, S.C.	Coker Pedigreed Seed Co.			X		X		X	
9	Clemson, S.C.	S. Car. Agr. Exp. Sta.					X		X	
10	Blackville, S.C.	Edisto Exp. Sta.				X	X		X	
11	Monetta, S.C.	Miss Bessie Johnson				X	X		X	
12	Watkinsville, Ga.	So. Piedmont Conservation Exp. Sta.			X		X			
13	Experiment, Ga.	Ga. Agr. Exp. Sta.					X		X	
14	Millen, Ga.	Ben Franklin					X		X	
15	Richmond Hill, Ga.	Ford Farms					X		X	
16	Tifton, Ga.	Ga. Coastal Plain Sta.					X		X	
17	Gainesville, Fla.									
18	Belle Mina, Ala.	Tenn. Valley Substation					X		X	
19	Fairhope, Ala.	Gulf Coast Substation					X		X	
20	Auburn, Ala.	Ala. Agr. Exp. Sta.				X				
21	Raymond, Miss.	Raymond Br. Exp. Station							X	
22	Stoneville, Miss.	Delta Br. Exp. Sta.	X	X			X		X	
23	Heathman, Miss.	Bobshaw Chemurgic Plantation		X	X		X			
24	State College, Miss.	Miss. Agr. Exp. Sta.					X			

LOCATION OF COOPERATIVE NURSERIES (cont'd)

No. on Map	LOCATION	COOPERATOR	Date of Planting	UNIFORM TESTS						
				III	IV	V	VI	VII		
25	Setartia, Miss.	M.F. Cresswell					X	X		
26	Holly bluff, Miss.	L.S. Stoner				X				
27	Tunica, Miss.	K.H. Watson			X	X				
28	Jackson, Tenn.	West Tenn. Agr. Exp. Sta.			X	X				
29	Columbia, Tenn.	Middle Tenn. Agr. Exp. Sta.			X	X				
30	Crossville, Tenn.				X	X				
31	Knoxville, Tenn.	Tenn. Agr. Exp. Sta.	X		X	X				
32	Keiser, Ark.	Delta Substation, Cotton Br. Sta.			X	X				
33	Clarkedale, Ark.	Delta Substation, Cotton Br. Sta.	X			X	X			X
34	Marianna, Ark.	Cotton Branch Sta.				X	X			X
35	Stuttgart, Ark.	Rice Branch Sta.			X	X	X			X
36	Winchester, Ark.	J.A. Newton				X	X			
37	Hope, Ark.	Fruit & Truck Branch Sta.				X	X			X
38	Fayetteville, Ark.	Ark. Agr. Exp. Sta.			X	X	X			
39	Melrose, La.	J.H. Henry			X	X	X			X
40	Hamburg, La.	W.T. Nolan			X	X	X			X
41	Opelousas, La.	John Dumas			X	X	X			X
42	Crawley, La.	J.M. Jenkins			X	X	X			X
43	Baton Rouge, La.	La. Agr. Exp. Sta.	X		X	X	X			X
44	College Station, Tex.	Texas Agr. Exp. Sta.		X	X	X				
45	Ysleta, Texas	Texas Substation #17		X	X	X				
46	Denton, Texas	Texas Substation #6		X	X	X				
47	Chillicothe, Tex.	Texas Substation #12			X	X				
48	Lubbock, Texas	Texas Substation #8	X		X	X				
49	Heavener, Okla.	Okla. Agr. Exp. Sta.				X				
50	Wagoner, Okla.	Lonnie E. Blair			X	X				
51	Coweta, Okla.	G.A. Childress			X	X				
52	Stillwater, Okla.	Okla. Agr. Exp. Sta.	X		X	X				
53	Fairland, Okla.	G.V. Thomas			X	X				
54	Miami, Okla.	Leo Dohagne			X	X				
55	Dallas, Texas	Institute of Technology & Plant Ind., S.M.U.			X	X				



Map of the Southern States Showing Location of most of the Cooperative Uniform Tests, 1944.

METHODS

All uniform tests have been planted in replicated row-plots, using a randomized block design with four replications. Row widths used at the different test locations have varied from 36 to 42 inches, depending upon the width in common use or the equipment available for handling the crop. Seedlings have been made at the rate of 200 viable seeds per row. Satisfactory stands are usually obtained under normal soil and weather conditions at planting time at this rate of planting.

Yields were taken on individual replications after the seed had been dried to a uniform moisture content basis.

Chemical composition was determined for each strain in a Uniform Test on composite samples prepared by combining equal weights of seed from each replication at each location included in the particular Group Test. Percentage composition of the seed is expressed on a dry basis. Seed weight for each strain was also determined on the variety composite and was recorded as weight (in grams) per 100 seeds.

Lodging notes were recorded on a scale of 1 to 5 according to the following criteria.

- 1 almost all plants erect
- 2 Either all plants leaning slightly, or a few plants down
- 3 Either all plants leaning moderately, or 25% to 50% of the plants down
- 4 Either all plants leaning considerably, or 50% to 80% of the plants down
- 5 All plants down badly

Shattering notes were recorded on a scale of 1 to 5 as follows.

- 1 No shattering
- 2 1% to 5% shattered
- 3 6% to 10% shattered
- 4 11% to 24% shattered
- 5 25% and over shattered

Height was determined as the average length of plants in a plot from the ground to the top extremity at time of maturity.

Maturity was taken as the date when the leaves had dropped, the pods were ripe, and the stems were fairly dry. Maturity in all summaries is expressed as days earlier (-) or later than a standard or reference variety. Reference varieties used for the different Uniform Tests are as follows: Group III, Illini; Group IV, Gibson; Group V, Ogden; Group VI, Volstate and Group VII, Wood's Yellow.

Seed Quality was rated from 1 to 5 according to the following scale.

- | | | |
|-------------|--------|-------------|
| 1 Very good | 3 Fair | 5 Very poor |
| 2 Good | 4 Poor | |

The factors considered in estimating seed quality were: development of seed, wrinkling, damage, and color for the variety.

Statistical Analysis: All completed yield tests were analyzed by analysis of variance to determine differences required for significance. In general, the coefficients of variation of individual tests were high. The wide range in varietal productivity and adaption within each test, disease and insect injury, and lack of soil uniformity all contributed to the high variability. While the differences required for significance are listed in the tables, some caution should be exercised in their use.

UNIFORM TEST, GROUP III

The Group III Test was composed of six named varieties and fourteen selections from hybrids. Considerable revision of strains in this test was made in 1944. The origin of these strains and varieties is as follows:

Variety or Source or Strain	Originating Agency	Origin
Chief	Ill. Agr. Exp. Sta.	Sel. from Illini x Manchur
Dunfield	Purdue Agr. Exp. Sta.	P.I. 36846 ¹
Illini	Ill. Agr. Exp. Sta.	Selection from A.K.
Lincoln	Ill. A.E.S. and U.S. Reg. Soybean Lab.	L6-685 (Mandarin x Manchur)
Matoka	Purdue Agr. Exp. Sta.	Sel. from P.I. 70218-2
Viking	Ill. Agr. Exp. Sta.	T118 (Illini x Manchur)
A3-9	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Illini x Dunfield
A3-61	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Illini x Dunfield
A3-92	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Illini x Dunfield
A3-117	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Illini x Dunfield
A3-118	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Illini x Richland
A3-127	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Richland x Mandell
A3-128	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Richland x Mandell
A3-163	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Dunfield x Richland
A3-176	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Illini x Dunfield
A3-360-12	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Illini x Mandell
A3-1411-20	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Mukden x Dunfield
A3-1411-27	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Mukden x Dunfield
A3-1411-47	Iowa A.E.S. and U.S. Reg. Soybean Lab.	Sel. from Mukden x Dunfield
C84	Purdue Agr. Exp. Sta.	Sel. from CX531 (Midwest x Dunfield)

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The Uniform Test, Group III was grown at Blacksburg, Virginia, and at three locations in Texas. These varieties matured in mid-August in Texas before losses due to cotton root rot became excessive. Fair to high quality seed were produced under irrigation at Lubbock and Ysleta, Texas.

The agronomic and chemical data for the four tests are summarized in tables 1 to 6 inclusive. While the yields from Blacksburg were uniformly good, data from the Texas tests were extremely variable. Shattering of these strains at Ysleta, Texas, was severe with most strains. Chief, Viking, A3-127 and Dunfield shattered less than the other varieties of this group.

Viking, A3-1411-47, and Chief yielded well in most of the tests. New strains showing promise in these tests are A3-128, A3-9, and A3-1411-47.

Table 1. Summary of agronomic and chemical data for the strains in the Uniform Test, Group III, 1944.

Strain	Mean		Height (Inches)	Maturity 1/	Shattering (%) 2/	Seed Weight	Seed Quality	Percent-		Iodine No. of Oil
	Yield Bu./A.	Lodging						age of Protein	age of Oil	
Number of Tests	4	3	3	3	1	4	3	4	4	4
Viking	18.9	1.9	30	4	10	12.3	2.4	40.2	21.6	124.8
"3-1411-47	17.5	1.9	28	1	35	14.3	2.8	40.8	21.2	115.8
Chief	16.7	1.0	30	3	5	11.4	2.5	39.23/	21.83/	127.23/
Patoka	16.3	1.2	25	0	20	14.9	2.8	42.2	20.9	123.4
"3-128	16.3	1.2	24	7	-	14.4	2.5	41.5	21.0	126.9
Lincoln	15.9	1.7	23	2	26	13.3	3.1	42.0	21.2	127.5
"3-163	15.5	1.8	24	4	16	14.9	2.9	42.2	21.0	114.9
"3-9	15.3	1.3	25	-1	20	13.4	3.3	41.3	21.3	119.5
"3-360-12	15.3	1.8	24	-4	18	13.3	2.8	45.4	19.0	124.9
"3-118	15.1	2.5	26	1	49	13.5	3.0	40.8	20.7	121.5
"3-176	15.0	1.2	24	-4	35	12.8	2.0	39.6	22.7	123.0
"3-127	14.9	1.3	23	1	6	13.7	2.8	42.4	21.0	123.3
"3-1411-20	14.8	1.5	25	2	65	13.6	2.9	41.0	23.0	120.3
C84	13.8	1.6	25	4	21	12.2	3.0	41.5	20.3	121.6
"3-1411-27	13.7	1.7	25	2	34	13.2	2.8	40.6	21.8	118.1
Illini	13.6	1.6	22	0	33	11.4	2.7	41.3	21.2	125.2
"3-92	13.6	1.3	22	1	54	12.9	2.5	40.5	22.3	118.9
Dunfield	13.1	1.7	24	3	11	13.3	3.4	42.3	20.4	115.1
"3-61	12.8	1.4	24	0	65	11.6	2.5	42.5	20.6	116.3
"3-117	12.8	1.8	24	1	25	11.3	3.6	41.6	21.6	123.9
Mean	15.0	1.6	25	1	29	13.1	2.8	41.4	21.2	121.6

1/Days earlier (-) or later than Illini. Illini required 113 days to mature.

2/Ysleta data only, per cent loss 30 days after maturity.

3/Mean of three tests.

Table 2. Summary of yields in bushels per acre and yield rank for the strains in the Uniform Test, Group III, 1944.

Strains	YIELD - Bushel per Acre					YIELD RANK				
	Mean of 4 Tests	Blacks-	Lubbock	Ysleta	Denton	Blacks-	Lubbock	Ysleta	Denton	
		burg, Va.	Texas	Texas	Texas	burg, Va.	Texas	Texas	Texas	
Viking	18.9	23.2	20.4	22.9	9.1	5	5	1	5	
A3-1411-47	17.5	23.2	22.6	15.2	9.0	5	1	5	6	
Chief	16.7	21.7	16.6	21.9	6.4	8	13	2	17	
A3-128	16.3	21.5	21.1	11.5	11.1	10	3	13	1	
Patoka	16.3	24.7	20.7	13.1	7.2	2	7	8	14	
Lincoln	15.9	20.4	17.4	16.6	9.0	15	11	4	6	
A3-163	15.5	25.2	20.8	7.8	8.2	1	4	19	10	
A3-9	15.3	19.0	15.6	17.9	8.7	18	16	3	8	
A3-360-12	15.3	24.3	15.4	13.8	7.6	4	17	7	13	
A3-118	15.1	24.5	18.7	9.9	7.2	3	8	15	14	
A3-176	15.0	21.1	16.6	11.8	10.5	12	13	11	2	
A3-127	14.9	21.7	18.0	10.2	9.6	8	10	14	3	
A3-1411-20	14.8	19.6	21.3	8.7	9.5	16	2	18	4	
C84	13.8	21.0	15.9	12.7	5.7	13	15	9	18	
A3-1411-27	13.7	20.6	17.3	9.3	7.7	14	12	16	12	
Illini	13.6	18.2	20.4	9.2	6.7	20	5	17	16	
A3-92	13.6	22.5	12.1	11.8	7.8	7	20	11	11	
Dunfield	13.1	19.1	14.9	14.3	4.0	17	18	6	19	
A3-117	12.8	21.3	14.2	12.7	3.1	11	19	9	20	
A3-61	12.8	18.7	18.7	5.1	8.7	19	8	20	8	
Mean	15.0	21.6	17.9	12.8	7.8					
Coef. of Var. (%)	13.3	-	-	59.6	35.3					
Bu.Nec. for Sig.(5%)	4.1	Incomplete	Not	Not	Not					
		Data	Sig.	Sig.	Sig.					

Table 3. Summary of lodging notes and plant height data on the strains of the Uniform Test Group III, 1944.

Strains	LODGING				PLANT HEIGHT			
	Mean of		Mean of		Mean of		Mean of	
	4 Tests	Lubbock Texas	Ysleta Texas	Blacksburg, Va.	4 Tests	Lubbock Texas	Ysleta Texas	Blacksburg, Va.
Viking	1.9	2.0	1.5	2.3	30	29	23	37
A3-1411-47	1.9	2.0	1.0	2.8	28	29	23	31
Chief	1.0	1.0	1.0	1.0	30	29	25	36
A3-128	1.2	1.0	1.0	1.5	24	26	19	28
Patoka	1.2	1.0	1.0	1.5	25	22	21	32
Lincoln	1.7	2.0	1.0	2.0	23	20	20	30
A3-163	1.8	2.0	1.0	2.5	24	23	18	30
A3-9	1.3	1.0	1.0	1.8	25	21	23	30
A3-360-12	1.8	2.0	1.0	2.5	24	21	19	33
A3-118	2.5	3.0	1.0	2.5	26	21	21	35
A3-176	1.2	1.0	1.0	1.5	24	23	18	30
A3-127	1.3	1.0	1.0	2.0	23	24	16	28
A3-1411-20	1.5	1.0	1.0	2.5	25	24	19	32
C84	1.6	1.0	1.5	2.3	25	21	23	31
A3-1411-27	1.7	1.0	1.0	3.0	25	26	21	29
Illini	1.6	1.0	1.0	2.8	22	21	16	30
A3-92	1.3	1.0	1.0	1.8	22	14	20	31
Dunfield	1.7	1.0	1.5	2.5	24	19	21	31
A3-117	1.8	2.0	1.0	2.3	24	22	19	32
A3-61	1.4	1.0	1.0	2.1	24	21	18	33
Mean	1.6	1.4	1.1	2.2	25	23	20	31

Table 4. Summary of maturity data, days earlier (-) or later than Illini, and seed quality data for the strains of Uniform Test, Group III, 1944

Strains	MATURITY				SEED QUALITY				
	Mean of		Mean of		Mean of	Black-		Lubbock	Yaleta
	3 Tests	burg.	burg.	burg.	4 Tests	burg.	burg.	Texas	Texas
Viking	4.0	6	2	4	2.4	3.0	1.5	2.0	3.0
A3-1411-47	1.3	1	1	2	2.8	3.0	2.0	3.0	3.0
Chief	3.0	5	2	2	2.5	3.0	1.5	2.5	3.0
A3-128	.3	2	-1	0	2.8	3.0	2.0	3.0	2.0
Patoka	6.7	3	8	9	2.5	4.0	1.0	3.0	3.0
Lincoln	1.7	2	-1	4	3.1	4.0	2.5	3.0	3.0
A3-163	4.3	3	1	9	2.9	4.0	1.5	3.0	3.0
A3-9	-1.3	-2	-2	0	3.3	4.0	3.0	2.0	4.0
A3-360-12	-3.7	-8	-1	2	2.8	3.0	2.0	3.0	3.0
A3-118	1.3	1	1	2	3.0	4.0	2.0	3.0	3.0
A3-176	-3.7	-7	-2	2	2.0	3.0	2.0	2.0	1.0
A3-127	1.3	2	2	0	2.8	3.0	2.0	3.0	3.0
A3-1411-20	2.3	1	-1	7	2.9	4.0	1.5	3.0	3.0
C84	3.7	5	2	4	3.0	4.0	1.0	3.0	4.0
A3-1411-27	2.3	2	1	4	2.8	3.0	2.0	3.0	3.0
Illini	0	0	0	0	2.7	3.0	2.0	-	3.0
A3-92	1.0	1	0	2	2.5	3.0	2.0	2.0	3.0
Dunfield	3.0	3	-1	7	3.4	4.0	2.5	3.0	4.0
A3-117	0	1	-1	0	2.5	4.0	2.0	3.5	5.0
A3-61	1.0	2	1	0	3.6	4.0	2.0	3.0	1.0
Mean		-	-	-	2.8	3.5	1.9	2.7	3.0
Date Planted	5/13	5/5	5/5	4/18					
Date Harvested	9/6	8/18	8/18	8/14					

Table 5. Summary of seed weight in grams per 100 seed, and percentage protein for the strains of the Uniform Test, Group III, 1944.

Strain	SEED WEIGHT (Grams per 100 seed)				% PROTEIN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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1/ Mean of three tests.

Table 6. Summary of percentage oil and iodine number of oil for the strains of the Uniform Test, Group III, 1944.

Strain	% OIL				IODINE NUMBER OF OIL					
	Mean of 4 Tests	Blacksburg, Va.	Lubbock Texas	Ysleta Texas	Denton Texas	Mean of 4 Tests	Blacksburg, Va.	Lubbock Texas	Ysleta Texas	Denton Texas
Viking	21.6	20.4	21.7	24.0	20.1	124.8	128.6	125.8	127.2	117.7
3-1411-47	21.2	20.5	21.5	23.5	19.3	115.8	123.7	114.9	119.9	104.8
Chief	21.8	19.6	21.5	24.3	--	127.2	131.6	124.8	125.1	
3-123	20.9	20.1	21.8	21.5	20.2	123.4	129.1	122.5	124.7	117.4
Patoka	21.0	18.5	20.6	25.6	19.1	126.9	131.5	127.8	129.6	118.7
Lincoln	21.2	21.1	21.3	22.4	19.9	127.5	132.6	126.6	129.1	121.7
3-163	21.0	21.1	21.8	21.3	19.9	114.9	123.8	115.2	118.1	102.6
3-9	21.3	21.2	20.5	24.2	19.4	119.5	127.7	117.2	125.8	107.4
3-360-12	19.0	20.3	20.2	18.5	17.0	124.9	130.9	124.5	124.3	119.8
3-118	20.7	19.6	20.6	23.6	18.8	121.5	128.3	120.8	125.8	111.1
3-176	22.7	21.6	21.9	25.2	22.2	123.0	126.8	121.6	126.8	116.6
3-127	21.0	20.6	21.3	22.7	19.2	123.3	129.8	122.6	124.8	116.6
3-1411-20	23.0	21.9	23.5	25.6	20.9	120.3	125.5	119.4	124.7	111.6
C84	20.3	20.1	21.4	23.0	16.6	121.6	132.4	122.0	122.3	109.8
3-1411-27	21.8	20.9	22.4	24.6	19.4	118.1	125.8	116.5	121.2	108.8
Illini	21.2	20.2	21.7	22.8	19.9	125.2	130.5	123.3	127.7	119.4
3-92	22.3	21.6	22.1	24.0	21.3	118.9	126.0	116.6	123.9	109.2
Dunfield	20.4	21.0	21.2	21.3	18.2	115.1	127.7	113.8	115.1	103.9
3-117	20.6	20.5	21.1	21.7	19.0	116.3	128.4	115.5	118.1	103.1
3-61	21.6	20.3	22.0	23.3	20.9	123.9	129.9	122.7	126.5	116.4
Mean	21.2	20.6	21.5	23.2	19.5	121.6	128.5	120.7	124.0	112.5

$\frac{1}{\text{Mean of three tests.}}$

UNIFORM TEST, GROUP IV

The Group IV test consisted of five named varieties, three selections from hybrids, and one selection obtained as a rogue. The origin of these varieties and strains is as follows:

Variety or Strain	Source or Originating Agency	Origin
Boone	Missouri Agr.Exp.Sta.	Sel. from P.I. 54563-3 ¹
Chief	Illinois Agr.Exp.Sta.	Sel. from Illini x Manchu
Gibson	Purdue Agr.Exp.Sta.	Sel. from Midwest x Dunfield*
Macoupon	Elmer Hulcher	Sel. from commercial lot
Patoka	Purdue Agr. Exp. Sta.	Sel. from P.I. 70218-2
C101	Purdue Agr.Exp.Sta.	Sel. from Dunfield x Manchu
S55-10	Missouri Agr.Exp.Sta.	Sel. from Virginia x P.I. 37062
S55-35	Missouri Agr.Exp.Sta.	Sel. from Virginia x P.I. 37062
S100	Missouri Agr.Exp.Sta.	Rogue from Illini

¹Division of Plant Exploration and Introduction, Bureau of Plant Industry, Soils, and Agricultural Engineering, U.S.D.A.

The Uniform Test, Group IV, was grown at 27 locations. The velvet bean caterpillar destroyed tests at Melrose, Crawley, and Hamburg, Louisiana. Flooded conditions in the Brazos River Bottom at College Station, Texas, destroyed stands at too late a date for replanting. The agronomic and chemical data for the strains in the Uniform Test, Group IV, are given in tables 7 to 18 and summarized for the two years in tables 19 and 20.

S100 was again at the top of the group in yield, although not significantly better than C101. C101 is higher in oil, more resistant to bacterial pustule and to shattering, but produced seed of lower quality than S100. In the areas in the Upper South, where soybean varieties of this maturity normally produce good quality seed, this new strain from Indiana looks very promising. Shattering occurred in the two new strains, S55-10 and S55-35, along with Patoka and Boone.

The agronomic and chemical data for the two years, 1943 and 1944, are given in tables 19 and 20. S100 ranked first, at eight of the ten locations where two year data are available. However, if percentage oil continues to be the most valuable constituent in soybeans, a higher oil, higher yielding variety of this maturity must be developed.

Table 7. Summary of agronomic and chemical data for the strains in the Uniform Test, Group IV, 1944.

Strain	Yield in Bu/A.		Lodg- ing	Plant Height	Matu- rity $\frac{1}{2}$	Seed Quality	Seed Weight	Shatter- ing	Bacter- ial		Protein	% Oil	Iodine No. of Oil
	20	17							9	13			
No. of tests in mean	20	17	20	20	18	22	20	9	13	24	24	24	24
S100	20.0	1.9	34	9	2.7	13.7	1.8	2.3	43.5	19.3	129.5		
C101	19.8	2.1	29	3	3.1	15.0	1.4	1.9	41.8	20.5	126.5		
S55-10	17.8	1.8	28	-1	2.9	14.0	2.5	2.2	43.2	20.4	129.4		
Gibson	17.7	1.9	28	0	3.0	13.4	1.6	2.7	42.0	20.8	127.5		
S55-35	17.3	1.6	28	-1	3.1	15.2	2.4	2.4	44.6	19.7	127.2		
Macoupon	17.0	2.0	33	3	2.6	14.0	1.8	2.3	41.6	21.5	125.2		
Boone	16.8	1.9	32	2	3.3	14.0	2.1	2.3	43.1	20.6	122.1		
Patoka	15.7	1.1	23	-2	3.0	15.2	2.4	1.9	44.3	20.5	127.8		
Chief	14.8	1.7	30	-2	3.4	12.5	1.5	1.9	42.3	21.1	125.8		
Mean	17.4	1.8	29		3.0	14.1	1.9	2.2	42.9	20.5	126.3		

$\frac{1}{2}$ Days earlier (-) or later than Gibson. Gibson matured in 127 days.

Table 8. Summary of yields in bushels per acre for the strains of the Uniform Test, Group IV, 1944

Strains	Mean of 20 Tests	Stone-ville Miss.	Orange County Va.	Keiser Ark.	Coweta Okla	Tunica Miss.	Lubbock, Texas (1)	(2)	Cross-ville Tenn.	Blacks-burg Va.	Heath-man Miss.	Fair-land Okla.
S100	20.0	39.9	39.2	34.6	33.7	26.4	27.3	18.9	25.1	23.3	21.2	17.5
C101	19.8	42.2	34.1	38.3	32.5	29.4	25.0	21.9	26.3	20.1	18.5	18.5
S55-10	17.8	32.7	31.3	32.9	30.7	28.5	20.8	22.0	19.9	20.9	12.7	14.7
Gibson	17.7	32.4	35.9	32.1	31.5	26.6	21.8	20.8	19.5	21.3	11.8	15.5
S55-35	17.3	31.5	31.1	29.8	31.2	28.7	21.3	22.1	17.6	21.0	13.8	17.2
Macoupon	17.0	34.6	32.3	31.2	24.7	25.4	23.0	18.9	22.3	19.3	19.9	15.1
Boone	16.8	32.0	33.2	27.7	29.3	24.7	25.7	17.6	18.4	17.8	15.6	15.4
Patoka	15.7	21.3	29.3	28.3	22.3	24.3	19.9	22.5	17.8	20.8	15.1	15.7
Chief	14.8	29.8	23.2	30.6	24.8	23.9	25.2	22.8	16.2	17.5	12.5	8.2
Mean	17.4	32.9	32.2	31.7	29.0	26.5	23.3	20.8	20.3	20.2	15.7	15.3
Coef. of var(%)	20	20	11	17	11	19	12	15	16	13	23	11
Bu.Nec. for Sig.(5%)	9.7	5.1	Not Sig.	Not Sig.	5.2	Not Sig.	4.0	Not Sig.	4.8	Not Sig.	6.3	2.6

Yield Rank

S100	2	1	2	1	1	5	1	7	2	1	1	2
C101	1	3	1	1	2	1	4	5	1	6	3	1
S55-10	4	6	3	3	5	3	8	4	4	4	7	8
Gibson	5	2	4	4	3	4	6	6	5	2	9	5
S55-35	7	7	7	7	4	2	7	3	8	3	6	3
Macoupon	3	5	5	8	8	6	5	7	3	7	2	7
Boone	6	4	9	6	6	7	2	9	6	8	4	6
Patoka	9	8	8	9	9	8	9	2	7	5	5	4
Chief	8	9	6	7	7	9	3	1	9	9	8	9

1/ Planted June 2.

2/ Planted May 2.

3/ Av. of only 3 replications.
Not included in mean.

Table 8. (Continued)

Strain	Wagoner Okla.	Knox- ville Tenn.	Fayette- ville Tenn.	Jackson Tenn.	Still water Okla.	Miami Okla.	Stutt- gart Ark.	Columbia Tenn.	Denton Texas	Chilli- cothe Texas	Dallas Texas	Ysleta Texas
S100	15.0	18.8	15.0	10.8	14.1	9.3	9.0	8.8	6.0	7.1	3.5	18.1
C101	16.0	16.0	12.1	11.8	8.8	11.3	8.2	10.7	7.3	5.2	2.4	21.4
S55-10	14.5	16.8	12.3	10.7	10.9	11.1	6.0	8.0	5.6	6.3	3.0	17.8
Gibson	16.9	14.0	9.6	9.2	8.3	11.7	7.3	7.3	7.1	5.4	2.7	24.9
S55-35	15.9	12.3	10.7	10.0	10.6	10.7	8.9	5.2	4.6	5.2	2.5	14.9
Macoupin	14.6	14.9	11.1	8.9	10.4	9.1	7.2	7.5	4.9	5.4	2.5	11.9
Boone	13.1	13.0	10.1	10.4	13.5	9.7	8.4	4.8	5.7	5.2	2.7	8.1
Patoka	15.5	12.5	10.3	9.1	10.6	10.7	7.5	5.1	6.3	3.5	2.5	16.3
Chief	11.5	9.5	6.8	11.3	12.6	3.9	5.7	.7	8.1	3.5	3.4	24.1
Mean	14.8	14.2	10.9	10.2	10.0	9.7	7.6	6.5	6.2	5.2	--	--
Coef. of var. (%)	8	19	20	18	17	24	15	18	28	11		
Bu.Nec. for Sig. (5%)	1.8	4.0	3.2	Not Sig.	2.7	3.2	1.7	1.7	Not Sig.	1.4		
Yield Rank												
S100	5	1	1	3	1	7	1	2	5	1	1	4
C101	2	3	3	1	8	2	4	1	2	5	9	3
S55-10	7	2	2	4	4	3	8	3	7	2	3	5
Gibson	1	5	8	8	9	1	6	5	3	4	4	1
S55-35	3	8	5	6	5	4	2	6	9	5	6	7
Macoupin	6	4	4	7	7	8	7	4	8	3	6	8
Boone	8	6	7	5	2	6	3	8	6	5	4	9
Patoka	4	7	6	9	5	4	5	7	4	8	6	6
Chief	9	9	9	2	3	9	9	9	1	8	2	2

3/average of 3 replications. Not included in mean.

4/Not included in mean.

Table 8. (Continued)

Strain	Baton		Baton		Opelousas	
	Rouge	La.	Rouge	La.	Rouge	La.
	4/ 5/	4/ 6/	4/ 5/	4/ 6/	4/ 5/	4/ 6/
S100	21.8	14.1	21.8	14.1	21.9	14.1
Cl01	24.8	16.6	24.8	16.6	25.8	16.6
S55-10	24.1	14.7	24.1	14.7	21.4	14.7
Gibson	16.4	10.7	16.4	10.7	20.7	10.7
S55-35	16.0	16.6	16.0	16.6	21.3	16.6
Macoupon	18.6	13.8	18.6	13.8	20.6	13.8
Boone	14.3	12.1	14.3	12.1	21.6	12.1
Patoka	20.0	19.7	20.0	19.7	22.3	19.7
Chief	19.1	6.9	19.1	6.9	16.6	6.9
Mean	19.4	13.9	19.4	13.9	21.4	13.9
Coef. of var. (%)	12.1	28.6	12.1	28.6	16.2	28.6
Bu.Nec. for Sig. (5%)	3.4	6.9	3.4	6.9	Not Sig.	6.9
Yield Rank						
S100	3	5	3	5	3	5
Cl01	1	2	1	2	1	2
S55-10	2	4	2	4	5	4
Gibson	7	8	7	8	7	8
S55-35	8	2	8	2	6	2
Macoupon	6	7	6	7	8	7
Boone	9	6	9	6	4	6
Patoka	4	1	4	1	2	1
Chief	5	9	5	9	9	9

4/ Not included in mean.

5/ Planted June 7, 1944. 6/ Planted March 28, 1944.

Table 9. Summary of lodging data for strains of the Uniform Test, Group IV, 1944.

Strain	Mean of										
	Stone- ville Tenn.	Orange- Va.	Coweta Okla.	Tunica Miss.	Lubbock, (1)	Texas (2)	Cross- ville Tenn.	Blacks- burg Va.	Fair- land Okla.	Ysleta Texas	
S100	1.9	3.7	2.0	3.0	2.1	2.0	3.0	2.8	2.0	2.0	
C101	2.1	3.0	3.5	3.0	2.8	2.0	2.0	3.3	2.0	2.0	
S55-10	1.8	2.7	2.0	2.0	3.0	2.0	2.0	2.8	2.0	1.5	
Gibson	1.9	3.2	3.3	2.0	2.8	1.0	2.0	2.5	1.0	2.5	
S55-35	1.6	3.0	2.0	2.0	2.4	2.0	1.5	2.0	2.0	2.0	
Macoupin	2.0	3.0	3.3	2.0	2.4	2.0	3.0	3.8	2.0	2.0	
Boone	1.9	3.4	2.5	3.0	3.1	2.0	2.0	3.8	1.0	2.0	
Patoka	1.1	1.5	1.3	1.0	1.4	1.0	1.0	1.3	1.0	2.0	
Chief	1.7	2.8	1.3	3.0	3.0	2.0	2.0	2.0	2.0	2.0	
Mean	1.8	2.9	2.4	2.3	2.6	1.8	2.1	2.7	1.7	-	

Strain	Mean of									
	Wagoner Okla.	Knox- ville Tenn.	Jackson Tenn.	Still- water Okla.	Miami Okla.	Stutt- gart Ark.	Columbia Tenn.	College Station Texas	Dallas Texas	
S100	2.0	1.8	1.5	2.0	1.0	1.0	1.0	-	1.0	
C101	2.0	1.5	1.3	2.0	2.0	1.0	1.8	1.0	1.0	
S55-10	2.0	1.0	1.8	2.0	1.0	1.0	1.3	1.0	1.0	
Gibson	2.0	1.5	1.8	2.0	2.0	1.0	1.5	1.0	1.5	
S55-35	1.0	1.0	1.5	2.0	1.0	1.0	1.3	1.0	1.0	
Macoupin	2.0	1.5	1.3	2.0	1.0	1.0	1.5	-	1.0	
Boone	1.0	1.5	1.5	2.0	1.0	1.0	1.8	1.0	1.5	
Patoka	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Chief	2.0	1.3	1.0	2.0	1.0	1.0	1.0	1.0	1.3	
Mean	1.7	1.3	1.4	1.9	1.2	1.0	1.4	1.0	1.1	

1/Not included in mean.

Table 10. Summary of height data for the strains of the Uniform Test, Group IV, 1944.

Mean of		Stone- Orange	Coweta	Tunica	Lubbock, Texas	Cross-	Blacks-	Heath-	Fair-	wagoner
Strains	20	ville Va.	Okla.	Miss.	(1)	(2) ville	burg	man	land	Okla.
	Tests	Miss.				Tenn.	Va.	Miss	Okla.	
S100	34	53	41	44	39	42	34	29	32	38
C101	29	38	32	36	31	31	31	23	26	34
S55-10	28	34	32	40	30	30	29	20	28	30
Gibson	28	42	34	32	32	33	29	21	24	28
S55-35	28	36	28	38	32	33	28	21	26	30
Macoupin	33	53	36	44	38	40	34	25	30	34
Boone	32	49	34	42	33	34	34	25	26	34
Patoka	23	29	24	30	27	28	25	19	24	26
Chief	30	44	22	42	35	32	27	20	28	36
Mean	29	42	31	38	33	34	30	27	29	32

Table 10. (Continued)

Strain	Knox- ville Tenn.	Fayette- ville Tenn.	Jackson Tenn.	Still- water Okla.	Miami Okla.	Stutt- gart Ark.	Columbia Tenn.	Chilli- cothe Texas	College Station Texas	Dallas Texas	Ysleta Texas
S100	22	32	37	38	28	20	29	30	-	31	41
C101	18	27	33	31	24	20	28	17	28	24	29
S55-10	18	27	30	30	28	20	26	16	12	23	27
Gibson	17	23	34	28	26	16	27	23	20	27	29
S55-35	16	25	31	30	28	18	26	16	20	23	29
Macoupin	19	28	37	30	30	19	29	25	--	33	36
Boone	20	29	40	32	24	17	30	21	5	30	32
Patoka	15	22	27	24	24	15	20	14	12	19	24
Chief	17	28	34	34	26	15	26	22	18	26	26
Mean	18	27	34	31	26	18	27	19	--	26	--

1/ Not included in mean.

Table 11. Maturity data for strains of the Uniform Test, Group IV, 1944.1/

Strain	Mean of 18 Tests	Stone-ville Miss.	Orange-Va.	Keiser Ark. 2/	Coweta Okla.	Tunica Miss.	Lubbock, Texas (1)	Columbia Tenn.	Dallas Texas	Blacksburg Va.
S100	9	11	7	0	19	7	9	8	9	10
C101	3	0	5	0	9	1	-2	-1	0	7
S55-10	-1	-7	-2	0	0	-1	-4	0	0	5
Gibson	0	0	0	0	0	0	0	0	0	0
S55-35	-1	-7	0	-17	0	0	-5	2	0	6
Macoupin	3	0	0	0	6	2	9	3	0	7
Boone	2	2	0	0	9	3	-7	5	0	6
Patoka	-2	0	0	0	0	2	-7	-2	0	-3
Chief	-2	-11	-7	-17	6	7	-7	-1	0	-1
Date Planted	5/4	5/9	5/9	5/31	5/12	5/17	6/2	5/5	5/13	5/13
Gibson Matured	8/28	9/18	9/18	10/2	9/1	9/18	9/14	9/1	10/1	9/12
Days to Mature	116	132	132	124	112	124	104	118	141	122

Strain	Fair-land Okla.	Wagoner Okla.	Knox-ville Tenn.	Jackson Tenn.	Still-water Okla.	Miami Okla.	Stutt-gart ark.	Columbia Tenn.	Dallas Texas	Ysleta Texas
S100	17	8	0	4	10	15	10	0	15	15
C101	7	3	-5	-3	5	5	10	4	2	4
S55-10	2	0	-5	-18	5	0	10	-6	-4	0
Gibson	0	0	0	0	0	0	0	0	0	0
S55-35	2	0	0	-7	5	0	0	8	0	-1
Macoupin	0	0	0	0	3	8	10	-6	4	11
Boone	0	0	0	4	0	0	10	4	6	11
Patoka	0	-6	-3	-7	-4	-2	0	0	-2	0
Chief	2	0	-5	-25	0	8	0	9	10	-5
Date Planted	5/11	5/12	4/20	4/21	4/27	5/10	5/26	4/20	4/27	4/18
Gibson matured	9/13	9/7	9/19	9/8	9/5	9/15	9/15	10/1	8/28	8/28
Days to mature	125	118	153	141	132	128	112	165	124	132

1/ Days earlier (-) or later than Gibson.
2/ Date harvested.
3/ Not included in mean.
Gibson matured in 127 days.

Table 12. Summary of Seed Quality data for the strains of the Uniform Test, Group IV, 1944.

Strains	Mean of Stone- 22 Tests	Orange- ville Va.	Keiser Ark.	Coweta Okla.	Tunica Miss.	Lubbock, (1)	Texas (2)	Cross ville Tenn.	Blacks- burg Va.	Heath- man Miss.	Fair- land Okla.	Ysleta Texas L/
S100	2.7	4.4	4.5	2.0	3.3	1.0	1.0	2.0	2.0	2.1	3.0	2.0
C101	3.1	4.5	3.8	3.0	3.5	1.5	1.5	2.3	4.0	3.0	3.0	2.0
S55-10	2.9	3.1	2.5	2.0	2.9	1.5	2.0	2.5	2.0	3.0	3.0	2.5
Gibson	3.0	4.3	2.8	2.0	3.6	1.0	1.3	1.8	3.0	2.8	4.0	2.5
S55-35	3.1	3.6	1.5	3.0	2.9	1.5	1.5	1.8	2.0	3.0	3.0	3.0
Macoupin	2.6	4.0	2.3	2.0	2.8	2.0	1.5	1.0	2.0	2.1	2.0	2.0
Boone	3.3	5.0	3.3	3.0	3.6	3.0	1.8	1.3	3.0	3.1	3.0	3.5
Patoka	3.0	4.5	3.0	3.0	3.4	1.3	1.0	1.8	2.0	3.0	3.0	2.0
Chief	3.4	3.4	3.8	3.0	3.8	2.0	1.5	2.5	3.0	3.5	5.0	2.0
Mean	3.0	4.1	3.6	1.9	2.6	3.3	1.6	1.5	1.9	2.6	2.8	3.2

L/Not included in mean.

Table 12. (Continued)

Strains	Wagoner Okla.	Knox- ville Tenn.	Fayette- ville Ark.	Jackson Tenn.	Still- water Okla.	Miami Okla.	Stutt- gart Ark.	Columbia Tenn.	Denton Texas	Chilli- cothe Texas	College Station Texas	Dallas Texas
S100	2.0	3.0	2.0	3.8	2.0	2.0	2.0	4.0	3.0	5.0	1/ -	3.0
C101	2.0	4.0	2.0	3.8	4.0	3.0	3.0	3.8	3.0	4.0	4.0	4.0
S55-10	3.0	3.3	2.0	3.5	2.0	3.0	3.0	4.0	4.0	5.0	2.0	4.0
Gibson	2.0	3.5	2.0	3.8	3.0	2.0	4.0	4.3	3.0	4.0	4.0	5.0
S55-35	3.0	3.3	2.0	4.0	4.0	3.0	4.0	5.0	4.0	4.0	2.0	5.0
Macoupin	2.0	2.5	2.0	4.0	3.0	3.0	3.0	3.3	4.0	3.0	-	4.0
Boone	3.0	3.8	3.0	4.3	3.0	3.0	3.0	4.5	4.0	4.0	3.0	4.0
Patoka	3.0	3.5	3.0	4.3	4.0	3.0	3.0	4.0	3.0	3.0	2.0	5.0
Chief	3.0	4.0	3.0	2.5	3.0	4.0	5.0	5.0	3.0	4.0	3.0	5.0
Mean	2.6	3.4	2.1	3.8	3.1	2.9	3.3	4.3	3.4	4.0	-	4.3

1/ Not included in Mean.

Table 13. Summary of seed weight in grams per 100 seeds for the strains in the Uniform Test, Group IV, 1944.

Strains	Mean of 20 Tests		Stone-ville		Orange-Va.		Keiser-Ark.		Coweta-Okla.		Tunica-Miss.		Lubbock, Texas (1)		Cross-ville Tenn.		Blacks-burg Va.		Heath-man Miss.	
S100	13.7	12.5	12.5	15.4	17.3	11.4	12.1	14.3	11.7	18.6	16.3	11.9								
Cl01	15.0	13.5	13.5	16.9	17.1	13.0	13.7	15.0	13.9	20.2	17.8	12.8								
S55-10	14.0	12.3	12.3	17.5	17.0	12.7	12.8	14.3	13.9	18.4	16.2	12.6								
Gibson	13.4	12.7	12.7	16.5	16.5	11.5	12.8	14.4	12.5	15.6	15.3	12.6								
S55-35	15.2	13.4	13.4	19.1	17.4	13.9	14.1	16.2	15.4	18.8	17.3	14.1								
Macoupin	14.0	12.7	12.7	16.3	17.5	12.7	13.5	15.7	13.2	17.7	16.9	12.2								
Boone	14.0	13.1	13.1	15.1	17.0	11.8	12.7	13.7	11.6	17.6	16.4	12.0								
Patoka	15.2	13.7	13.7	18.9	17.6	14.4	12.9	15.9	15.4	20.3	16.2	13.8								
Chief	12.5	11.2	11.2	16.3	13.0	12.4	12.5	12.8	12.2	14.6	13.2	11.0								
Mean	14.1	12.8	12.8	17.0	16.7	12.6	13.0	14.7	13.3	18.0	16.2	12.6								

Table 13. (Continued)

Strains	Fair- land Okla.	Wagoner Okla.	Knox- ville Tenn.	Fayette- ville ark.	Jackson Tenn.	Still- water Okla.	Miami Okla.	Stutt- gart ark.	Columbia Tenn.	Denton Texas	Ysleta Texas
S100	14.7	10.8	16.3	16.5	12.3	11.8	14.5	13.4	11.7	9.7	12.3
C101	17.4	12.7	16.6	17.7	13.7	11.6	17.5	14.9	13.0	11.5	13.1
S55-10	15.5	12.2	15.0	15.4	11.6	10.0	15.5	14.9	12.7	9.2	13.6
Gibson	14.5	11.4	14.7	15.0	12.6	9.3	15.6	12.3	12.8	8.6	15.5
S55-35	17.4	13.4	16.2	16.5	12.9	11.7	17.2	15.5	12.7	10.7	17.1
Macoupin	14.5	13.3	13.2	15.1	12.8	9.8	14.5	13.6	14.4	10.5	16.6
Boone	14.4	12.1	16.4	15.7	14.5	10.6	15.0	15.4	15.6	9.9	13.1
Patoka	18.0	14.7	16.3	16.4	12.5	10.5	18.0	14.2	13.2	11.0	17.6
Chief	14.1	13.4	11.4	14.8	10.2	11.3	14.1	9.8	11.0	9.7	12.4
Mean	15.6	12.7	15.1	15.9	12.6	10.7	15.8	13.8	13.0	10.1	--

Ysleta not included in mean.

Table 14. Summary of shattering data for the strains of the Uniform Test, Group IV, 1944.

Strains	Mean of 9 Tests		Stone-ville Miss.	Coweta Okla.	Fair-land Okla.	Wagoner Okla.	Fayette-ville ark.	Still-water Okla.	Miami Okla.	Stutt-gart ark.	Dallas Texas	Ysleta Texas ^{2/}
S100	1.8 ^{1/}	1.0	3.0	2.0	2.0	2.0	-	2.0	1.0	2.0	1.5	5.0
C101	1.4	1.3	1.0	2.0	2.0	2.0	1.0	2.0	1.0	1.0	1.0	5.0
S55-10	2.5	1.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0	2.3	5.0
Gibson	1.6	1.8	2.0	1.0	2.0	2.0	1.0	3.0	2.0	1.0	1.0	5.0
S55-35	2.4	1.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	1.0	4.0	5.0
Macoupon	1.3	1.3	1.0	2.0	2.0	2.0	3.0	3.0	1.0	2.0	1.3	5.0
Boone	2.1	1.8	3.0	3.0	3.0	3.0	2.0	2.0	1.0	2.0	1.5	5.0
Patoka	2.4	1.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	1.0	2.8	4.0
Chief	1.5	1.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	1.0	2.3	4.0
Mean	1.9	1.2	2.2	2.2	2.2	2.4	2.3	2.3	1.4	1.6	2.0	4.8

1/ Average of eight tests.
2/ Not included in mean.

Table 15. Summary of disease readings for strains of the Uniform Test, Group IV, 1944.

BACTERIAL PUSTULE

Strains	Mean of Stone-Keiser		Baton Cross-Fair-		Wagoner Knox-Fayette-		Jackson Still-		Miami Columbia	
	13 ville	Tests	Okla.	Rouge ville	land	Okla.	ville ville	Tenn.	water	Okla.
	Miss.	Miss.	La.	La.	Tenn.	Okla.	Tenn.	Ark.	Okla.	Tenn.
	2/	2/	4/	4/	6/	4/	6/	3/	5/	6/
Ratings taken	7/20	9/7	7/24	6/29	8/1	7/	8/2	6/29		
S100	2.3	2.8	4.0	1.0	3.3	2.3	3.0	2.5	3.5	0
C101	1.9	1.8	4.0	1.0	2.5	2.0	2.5	1.3	2.5	0
S55-10	2.2	2.0	4.3	1.5	3.0	2.0	2.5	1.3	3.3	1.0
Gibson	2.7	3.0	4.3	1.8	3.0	2.0	3.0	2.0	3.5	2.0
S55-35	2.4	2.3	4.3	1.3	3.0	2.0	3.0	2.8	3.5	1.0
Lacoupin	2.3	2.0	3.8	1.3	3.5	2.0	2.5	1.8	3.5	1.0
Boone	2.3	2.0	4.3	1.3	3.0	2.0	3.3	1.8	3.0	1.0
Patoka	1.9	1.8	4.0	1.0	2.5	1.8	2.5	1.5	2.5	1.0
Chief	1.9	1.0	3.3	1.5	3.3	1.8	2.3	1.5	2.5	1.0

Ratings made by:

- 1/ J.L. Weimer
- 2/ E.M. Cralley
- 3/ E.M. Cralley, J.L. Weimer and Howard Marsh
- 4/ H. W. Staten
- 5/ Dr. Hoffmeister
- 6/ John W. Washko
- 7/ Average of two readings made 8/10 and 9/4.

Table 16. Summary of percentage protein for the strains in the Uniform Test, Group IV, 1944.

Strain	Mean of Stone-ville Miss.		Orange Va.		Keiser Ark.		Coweta Okla.		Tunica Miss.		Lubbock, Texas (1)		Texas (2)		Cross-ville Tenn.		Blacks-burg Va.		neath-man Miss.	
	24 Tests	Miss.																		
S100	43.5	42.4	42.9	43.3	42.1	41.6	42.4	41.4	41.9	45.8	39.9									
C101	41.8	38.0	39.5	37.9	37.7	39.9	41.2	39.5	41.9	44.3	38.7									
S55-10	43.2	41.8	41.8	40.7	40.1	42.3	42.0	42.7	41.0	47.2	39.3									
Gibson	42.0	38.4	40.6	39.2	38.6	39.8	42.4	41.2	39.3	45.7	39.4									
S55-35	44.6	41.7	42.3	40.6	39.7	42.4	43.7	43.2	43.1	48.4	39.1									
Macoupon	41.6	38.3	40.3	39.7	39.1	37.7	40.7	41.1	39.8	44.1	37.4									
Boone	43.1	39.9	40.4	40.0	39.2	39.8	42.1	40.8	42.1	45.8	38.3									
Patoka	44.3	42.5	43.4	41.0	38.9	42.1	42.6	42.1	42.3	46.9	39.5									
Chief	42.3	38.3	43.6	39.1	38.8	41.3	41.4	40.2	40.8	45.0	39.0									
Mean	42.9	40.1	41.6	40.2	39.4	40.8	42.1	41.4	41.4	45.9	39.0									

Table 16. (Continued)

Strains	Fair- land Okla.	Wagoner Okla.	Knox- ville Tenn	Fayette- ville Ark.	Jackson Tenn	Still- water Okla.	Miami Okla	Stutt- gart ark.	Columbia Tenn	Denton Texas
S100	45.6	43.1	46.8	44.5	42.4	47.3	45.2	47.1	45.5	41.9
C101	43.3	42.5	44.3	44.0	42.8	44.4	45.4	45.7	48.2	41.7
S55-10	46.0	45.0	46.2	45.2	40.3	46.4	47.7	49.4	48.4	41.6
Gibson	44.9	43.3	44.4	43.2	42.5	44.5	45.0	47.8	46.7	41.5
S55-35	47.1	46.2	48.9	47.2	43.3	48.4	48.6	49.4	50.9	43.2
Macoupin	45.7	41.5	43.2	43.4	42.5	43.1	46.1	47.5	44.3	39.5
Boone	46.9	47.3	46.9	45.1	42.6	45.9	47.3	46.6	46.9	43.7
Patoka	49.6	46.1	44.9	47.7	44.7	47.0	49.8	48.2	50.6	43.6
Chief	45.6	42.4	45.7	46.6	37.1	43.3	44.8	45.5	50.8	40.8
Mean	46.1	44.2	45.7	45.2	42.0	45.6	46.7	47.5	48.0	41.9

Table 16. (Continued)

Strain	Baton Rouge		Baton Rouge		Opelousas La.	Ysleta Texas
	La. (Early Planting)	La. (Late Planting)	La. (Late Planting)	La.		
S100	47.4	43.9	46.2	32.3		
C101	45.0	40.9	40.7	35.6		
S55-10	45.5	41.8	40.9	33.9		
Gibson	43.9	38.6	40.1	37.1		
S55-35	47.4	42.8	43.0	39.1		
Macoupon	44.6	40.6	40.7	38.1		
Boone	46.9	42.9	42.6	34.0		
Patoka	47.8	43.6	40.7	33.4		
Chief	46.2	39.9	39.5	38.6		
Mean	46.1	41.7	41.6	36.3		

Table 17. Summary of percentage oil for the strains in the Uniform Test, Group IV, 1944.

Strains	Mean of 24 Tests	Stone- ville Miss.	Orange Va.	Keiser Ark.	Coweta Okla.	Tunica Miss.	Lubbock, Texas (1)	(2)	Cross- ville Tenn.	Blacks- burg Va.	Heath- man Miss.
S100	19.3	19.6	20.7	19.8	19.3	19.5	19.6	18.8	19.7	18.1	20.7
C101	20.5	21.7	22.3	22.0	21.8	21.7	20.6	20.9	20.6	19.4	21.7
S55-10	20.4	21.0	21.7	22.1	21.4	21.3	21.2	20.9	21.2	18.7	22.1
Gibson	20.8	21.9	21.3	21.7	22.2	21.3	20.4	21.3	21.0	19.3	21.8
S55-35	19.7	20.7	21.3	21.4	20.4	20.9	19.6	20.3	20.5	17.9	21.2
Macoupon	21.5	22.1	22.8	22.6	22.4	22.6	21.1	21.0	21.7	20.1	22.9
Boone	20.6	21.4	22.3	22.4	21.2	22.2	21.3	20.8	21.3	19.4	22.4
Patoka	20.5	21.5	21.3	21.8	22.2	21.0	20.8	21.6	21.6	19.2	22.6
Chief	21.1	21.7	20.9	22.2	22.2	21.7	20.6	21.2	21.1	19.8	22.0
Mean	20.5	21.3	21.6	21.8	21.5	21.4	20.6	20.8	21.0	19.1	21.9

Table 17. (Continued)

Strains	Fair- land Okla.	Wagoner Okla.	Knox- ville Tenn.	Fayette- ville Tenn.	Jackson Tenn.	Still- water Okla.	Miami Okla.	Stutt- gart Ark.	Columbia Tenn.	Denton Texas
S100	18.9	18.9	18.3	19.0	19.3	17.3	18.2	19.3	19.2	18.1
C101	19.9	20.0	20.0	19.6	20.1	18.3	18.3	20.6	17.2	19.7
S55-10	18.6	19.4	20.0	18.9	20.9	17.6	17.8	19.0	18.1	19.3
Gibson	19.7	20.9	20.2	20.2	21.0	19.2	18.8	21.6	18.1	19.4
S55-35	17.8	18.5	18.5	17.8	19.7	17.3	16.8	19.4	17.8	19.1
Macoupon	19.6	21.6	21.5	20.6	21.7	20.4	19.0	21.0	19.6	21.1
Boone	18.7	18.9	19.9	19.9	20.8	18.3	17.6	20.2	18.7	19.5
Patoka	18.4	19.7	20.6	19.3	19.8	18.7	17.9	19.7	16.8	20.0
Chief	19.5	20.8	19.1	19.8	22.6	20.6	20.2	21.7	20.3	21.3
Mean	19.0	19.9	19.8	19.5	20.7	18.6	18.3	20.7	18.4	19.7

Table 17. (Continued)

Strain	Baton Rouge		Baton Rouge		Opelousas La.	Ysleta Texas
	La. (Early Planting)	La. (Late Planting)	La.	La.		
S100	18.8		19.4		19.5	23.3
C101	20.3		21.4		22.7	22.3
S55-10	20.6		21.6		22.7	24.4
Gibson	20.9		21.8		23.4	22.1
S55-35	19.9		21.0		21.6	22.7
Macoupin	20.9		22.4		23.2	23.3
Boone	20.2		20.5		22.0	24.5
Patoka	20.1		21.0		22.5	23.1
Chief	20.3		22.2		23.1	21.9
Mean	20.2		21.3		22.3	23.1

Table 18. Summary of iodine number of oil for the strains in the Uniform Test, Group IV, 1944.

Strains	Mean of 24 Tests	Stone- ville Miss.	Orange Va.	Keiser Ark.	Coweta Okla.	Tunica Miss.	Lubbock, Texas (1)	(2)	Cross- ville Tenn.	Blacks- burg Va.	Heath- man Miss.
S100	129.5	127.5	130.3	129.6	131.7	132.9	128.9	128.6	134.6	133.4	132.5
C101	126.5	123.3	129.1	132.3	130.7	132.9	124.0	123.4	137.4	133.8	131.7
S55-10	129.4	133.2	132.1	133.4	133.0	133.4	127.8	127.7	135.7	132.6	134.1
Gibson	127.5	129.9	131.2	131.5	131.7	131.7	126.5	126.4	136.6	132.6	131.6
S55-35	127.2	131.5	130.0	131.3	129.6	131.7	-	126.5	133.5	131.0	131.0
Macoupon	125.2	128.3	129.4	130.0	129.4	130.3	126.0	124.2	135.4	131.7	131.9
Boone	122.1	120.9	133.5	128.3	128.3	127.7	123.2	122.6	134.4	129.8	131.1
Patoka	127.8	131.7	131.5	133.2	131.6	133.2	126.7	127.8	133.4	132.6	131.0
Chief	125.8	127.7	130.2	131.1	125.9	129.7	123.5	125.2	135.1	131.2	131.2
Mean	126.8	128.8	130.8	131.2	130.2	131.5	125.8	125.8	135.1	132.1	131.8

$\frac{1}{2}$ Average of 23 tests.

Table 18. (Continued)

Strains	Fair- land Okla.	Wagoner Okla.	Knox- ville Tenn.	Fayette- ville Ark.	Jackson Tenn.	Still- water Okla.	Miami Okla.	Stutt- gart Ark.	Columbia Tenn.	Denton Texas
S100	132.2	126.6	133.1	129.6	130.6	124.4	129.5	128.2	133.4	117.4
C101	128.1	119.8	130.3	126.0	119.4	118.7	123.8	121.5	135.9	107.8
S55-10	131.5	121.9	129.2	128.6	125.7	124.0	127.0	127.3	132.8	117.3
Gibson	128.2	122.0	130.0	126.1	120.2	120.8	125.0	122.7	132.0	110.9
S55-35	129.9	118.8	127.0	126.1	125.2	120.0	126.0	120.8	133.1	116.3
Macoupin	124.6	116.6	124.5	121.7	119.2	119.3	120.6	126.0	129.4	104.0
Boone	122.5	110.5	122.2	118.1	115.5	117.1	118.3	120.9	128.3	100.8
Patoka	124.8	118.9	129.2	121.5	125.9	123.4	121.8	128.0	130.9	115.9
Chief	123.2	117.0	127.4	122.0	125.3	117.6	120.3	123.5	133.9	117.8
Mean	127.2	119.1	128.1	124.4	123.0	120.6	123.6	124.3	132.2	112.0

Table 18. (Continued)

Strain	Baton Rouge La. (Early Planting)	Baton Rouge La. (Late Planting)	Opelousas La.	Ysleta Texas
S100	127.2	128.4	125.5	130.9
Cl01	122.6	126.3	124.1	126.9
S55-10	128.0	131.3	129.2	128.8
Gibson	127.3	130.9	125.5	129.4
S55-35	123.5	129.5	126.1	126.4
Macoupin	123.5	126.8	124.0	127.0
Boone	113.5	117.8	119.3	125.5
Patoka	128.8	129.3	127.9	128.0
Chief	124.3	127.7	126.5	123.0
Mean	124.3	127.6	125.4	127.3

Table 19: Two-year summary of agronomic and chemical data for the strains in the Uniform Test, Group IV, for 1943-1944.

Strain	Yield in Bu/A.		Lodg- ing	Height (Inches)	Matur- ity	Seed		% Protein	% Oil		Iodine No. of Oil
	No. of Tests	10	7	7	7	Quality	Weight	9	9	9	9
S100		16.0	1.8	34	8	2.2	13.0	44.5	18.6		128.3
Gibson		14.6	2.2	28	0	2.5	12.2	42.7	20.4		126.4
Macoupin		12.9	1.9	32	5	2.4	13.3	42.8	20.6		123.7
Patoka		13.8	1.1	25	-2	2.5	14.4	45.3	19.5		126.6
Boone		12.9	1.9	31	3	3.1	13.7	44.0	19.6		121.0
Chief		12.3	1.8	30	-2	3.2	11.6	42.4	20.6		123.7

L/Days earlier (-) or later than Gibson.

Table 20: Two-year summary of yields in bushels per acre for the strains in the Uniform Test, Group IV, for 1943-44.

Strain	Mean of Blacks-		burg Va.	Orange Va.	Lubbock Texas	Still- Stutt-		wagoner water	gurt ark.	ville ark.	Miami Okla.	Chilli- cothe Texas
	10 Tests	10	26.0	24.9	21.3	13.6	14.1	13.7	13.7	10.7	7.2	6.4
S100	16.0	16.0	26.0	24.9	21.3	13.6	14.1	13.7	13.7	10.7	7.2	6.4
Gibson	14.6	14.6	26.3	22.1	19.0	13.3	10.9	10.6	10.6	7.4	9.6	5.7
Macoupin	12.9	12.9	22.6	19.8	17.2	11.0	8.7	10.4	10.4	7.6	6.9	4.7
Patoka	13.8	13.8	29.8	18.5	18.4	12.4	11.3	9.7	9.7	7.5	8.4	3.0
Boone	12.9	12.9	18.5	20.1	19.9	9.3	11.9	10.8	10.8	7.4	7.6	4.3
Chief	12.3	12.3	24.5	14.4	19.3	8.3	9.4	9.7	9.7	6.7	5.0	4.1
Mean	13.8	13.8	24.6	20.0	19.2	11.3	11.1	10.8	10.8	7.9	7.5	4.7

UNIFORM TEST, GROUP V

The Group V Test was composed of 6 named varieties, one introduction and four new strains. The origin of these varieties and strains is as follows:

Variety or Strain	Source or Originating Agency	Origin
Arksoy 2913	Ark. Agr. Exp. Sta.	Selection from Arksoy
Araredo	Ariz. Agr. Exp. Sta.	Selection from Mamredo
Magnolia	U.S. Dept. of Agr.	P.I. 85537 from Suigen, China, 1929
Mamredo	Delta Exp. Sta., Stoneville, Miss.	Sel from a cross (Mam. Yel. X Laredo)
N. 41-39	N. Car. Exp. Sta.	Sel. from Herman
Ogden	Tenn. Agr. Exp. Sta.	Sel. from a cross (Tokyo X P.I. 54610)
P.I. 97066	U.S. Dept. of Agr.	Nanmen, Chosen, 1930
Ralsoy	Purina Mills, G.H. Banks	Sel. from Arksoy 2913
2-40a	Paul B. Hutchens	Sel. from Arksoy
26-39M	Paul B. Hutchens	Sel. from a mixed seed lot
6-40M	Paul B. Hutchens	Sel. from a mixed seed lot

UNIFORM TEST, GROUP V

In all, 37 tests of the Uniform Group V were grown over the Southern Region in 1944. Because of poor stands, velvet bean caterpillar damage and other difficulties, five tests were discarded. The agronomic and chemical data for the year are given in tables 21 through 33. The two-year summary of the agronomic and chemical data and the yields by locations are given in tables 34 and 35.

Ogden was again the outstanding variety of this maturity group, yielding significantly more than any of the other varieties. Injury by Bacterial Fustule was less on Ogden than the other varieties. Ogden does shatter under very dry conditions and may be too short to combine on infertile soils. The new strain, 2-40A, appears promising, in that it shatters less than Ogden, has an equally good oil content, and 1.4% more protein. This strain, however, is as susceptible to diseases as Arksoy and is also as short as Ogden. Armredo is definitely superior to Mamredo in yield and shattering resistance. 26-39M yielded well at a number of locations. However, this strain being 17 days later than Ogden, is too late for this maturity group.

Only five varieties of the maturity of Group V were tested both years. The superiority of Ogden is readily apparent in that it ranked first in 15 of the 16 two-year tests.

Table 21: Summary of agronomic and chemical data for the strains in the Uniform Test, Group V, 1944.

Strain	Mean Yield Bu./A.	Lodg- ing	Plant Height	Matu- rity 2/	Seed Quality	Seed Weight	Shatter- ing	Stand
No. of tests	25	27	28	25	28	28	16	9
Ogden	24.9	1.1	27.1	0	2.0	15.1	2.3	7.2
2-40A	21.7	1.4	27.6	2	2.1	13.4	1.3	7.0
26-39M	20.9	1.6	33.6	17	2.0	15.6	1.9	6.9
Armredo	19.8	1.9	28.5	2	1.9	11.1	1.4	6.2
Arksoy 2913	19.5	1.5	24.8	-1	1.7	12.9	1.4	7.2
Ralsoy	-	1.4 ^{1/}	25.0	+1	1.8 ^{3/}	-	1.5 ^{6/}	2.4 ^{7/}
Magnolia	18.4	2.6	36.3	3	2.2	14.9	2.8	6.6
Mamredo	18.2	1.8	29.2	1	2.1	13.7	2.7	6.4
6-40M	18.2	1.6	22.8	4	1.9	16.2	1.5	7.0
P.I. 97066	17.7	2.8	37.2	-1	2.3	12.2	2.8	6.8
N-39	16.9	1.6	39.4	1	2.1 ^{4/}	13.2 ^{5/}	1.5	6.1
Mean	19.6	1.8	30.1		2.0	13.8	2.0	6.7

Strain	Bacter- ial Fustule	Pod & Stem Blight	Wild- fire	Cercos- poria	Percent- age of Protein	Percent- age of Oil	Iodine No. of Oil
No. of tests	19	7	7	5	32	32	32
Ogden	1.5	1.5	1.1	1.1	40.9	21.2	132.6
2-40A	2.3	1.6	1.0	.6	42.3	21.0	130.2
26-39M	1.8	1.5	1.0	.4	43.1	18.8	132.9
Armredo	2.2	1.5	1.1	.8	42.3	19.5	133.4
Arksoy 2913	2.4	1.5	1.0	.2	43.2	20.3	131.9
Ralsoy	2.4	1.5	.9	.6	42.5 ^{8/}	20.5 ^{8/}	131.2 ^{8/}
Magnolia	2.7	1.7	1.1	.6	42.1	21.1	128.3
Mamredo	2.7	1.5	1.0	0	41.0	19.9	127.6
6-40M	2.6	1.5	1.1	.4	43.3	19.7	127.3
P.I. 97066	2.3	1.6	1.0	1.1	43.3	19.5	130.2
N41-39	2.9	1.5	1.0	1.1	41.7 ^{5/}	19.8 ^{5/}	127.3 ^{5/}
Mean	2.3	1.5	1.0	.6	42.3	20.1	130.2

1/ Mean 26 tests

2/ Days earlier (-) or later
than Ogden. Ogden matured
in 152 days

3/ Mean 25 tests.

4/ Mean 27 tests

5/ Mean 31 tests

6/ Mean 14 tests

7/ Mean 7 tests

8/ Mean of 30 tests.

Table 22: Summary of yields in bushels per acre and yield rank for the strains in the Uniform Test, Group V, 1944.

Strain	Mean of 25 Tests	Mari- anna Ark.	Keiser Ark.	Stone- ville Miss.	Clarke- dale Ark.	Coweta Okla.	Lubbock, Texas (1)	(2)	Knox- ville Tenn.
Ogden	24.9	44.9	48.4	50.4	45.2	43.2	32.1	29.4	27.1
2-40A	21.7	39.3	47.9	33.0	35.0	33.1	29.3	23.9	27.0
26-39M	20.9	34.6	40.4	32.6	32.7	29.7	34.3	28.0	33.7
Armredo	19.8	36.1	30.8	31.0	29.5	26.9	28.5	26.4	25.6
Arksoy 2913	19.5	38.0	32.9	25.6	25.4	33.6	21.5	24.3	24.6
Magnolia	18.4	33.8	26.7	31.4	36.7	28.5	20.9	17.3	23.8
Mamredo	18.2	36.2	28.6	30.2	26.1	24.0	24.4	22.4	20.3
6-40M	18.2	30.9	32.0	30.6	33.3	19.8	26.5	28.6	24.4
P.I. 97066	17.7	36.7	20.9	28.8	29.8	27.1	19.9	18.8	22.6
N-39	16.9	39.0	31.2	34.3	26.6	20.8	25.0	16.3	24.9
Mean	19.6	36.9	34.0	32.8	32.0	28.7	27.2	23.6	25.4
Coef. of var. (%)		11.2	18.3	20.1	20.2	13.4	14.3	13.6	12.0
Bu.Nec. for Sig. (5%)		6.0	9.0	9.6	9.4	5.6	5.4	4.7	4.4

Yield Rank

Ogden	1	1	1	1	1	2	1	2
2-40A	2	2	3	3	3	3	6	3
26-39M	8	3	4	5	4	1	3	1
Armredo	7	7	6	7	7	4	4	4
Arksoy 2913	4	4	10	10	2	8	5	6
Magnolia	9	9	5	2	5	9	9	8
Mamredo	6	8	8	9	8	7	7	10
6-40M	10	5	7	4	10	5	2	7
P.I. 97066	5	10	9	6	6	10	8	9
N-39	3	6	2	8	9	6	10	5

1/Planted June 2.
2/Planted May 5.

Table 22: (Continued)

Strain	Ply- mouth N.C.	Holly Bluff Miss.	Cross- ville Tenn.	Tunica Miss.	Columbia Tenn.	Jack- son Tenn	Mc- Cullers N.C.	Win- chester Ark.	Watkins- ville Ga.
		3/							
Ogden	30.5	29.8	27.4	25.4	19.6	16.1	16.8	15.8	17.9
2-40A	26.2	21.1	21.6	24.6	17.8	17.1	15.1	14.8	14.7
26-39M	27.2	21.8	26.7	14.0	22.0	23.2	27.7	19.8	19.0
Mamredo	25.1	26.9	21.2	25.0	19.6	18.3	14.6	17.6	17.8
Arksoy 2913	23.1	21.6	22.5	28.1	18.5	16.1	12.3	18.1	14.6
Magnolia	25.6	20.6	23.5	14.8	14.4	15.9	15.0	17.1	14.0
Mamredo	24.3	22.3	22.8	19.4	19.7	16.2	17.0	11.5	14.7
6-40M	19.8	22.4	23.1	19.5	17.1	16.2	10.1	15.7	14.3
P.I. 97066	26.1	20.4	21.7	11.8	17.4	14.7	17.1	15.0	16.5
N-39	22.3	21.5	14.9	15.0	12.6	13.8	19.4	12.8	13.1
Mean	25.0	22.8	22.5	20.0	17.9	16.8	16.5	15.8	15.6
Coef. of var. (%)	12.6	11.0	12.9	18.5	10.0	15.9	11.4	16.5	13.7
Bu. Nec. for sig. (5%)	4.6	4.3	4.2	5.3	2.6	3.9	2.7	3.8	3.1

Yield Rank

Ogden	1	1	1	2	3	6	5	5	2
2-40	3	8	8	4	6	3	6	8	5
26-39M	2	5	2	9	1	1	1	1	1
Mamredo	6	2	9	3	3	2	8	3	3
Arksoy 2913	8	6	6	1	5	6	9	2	7
Magnolia	5	9	3	8	9	8	7	4	9
Mamredo	7	4	5	6	2	4	4	10	5
6-40M	10	3	4	5	8	4	10	6	8
P.I. 97066	4	10	7	10	7	9	3	7	4
N.-39	9	7	10	7	10	10	2	9	10

3/Not included in mean.

Table 22: (Continued)

Strain	Stutt- gart Ark.	Monetta S.C.	Still- water Okla.	Wagoner Okla	Fayette- ville Ark.	Miller County Ark.	Heav- ener Okla.	Chilli- cothe Texas	Denton Texas
Ogden	17.5	15.4	21.3	16.4	15.0	14.4	9.5	12.2	9.8
2-40A	19.1	17.5	20.1	20.2	12.5	8.0	9.7	8.9	6.4
26-39M	18.9	12.9	3.3	4.4	5.0	9.7	7.5	11.1	3.1
Mamredo	14.4	14.6	11.0	14.9	7.9	10.5	10.8	8.4	8.0
Arksoy 2913	12.3	15.6	17.8	15.4	12.3	7.9	9.6	8.9	8.0
Magnolia	12.9	12.3	14.3	16.3	7.6	11.9	9.1	8.4	7.2
Mamredo	16.9	12.7	13.7	10.7	12.8	7.6	10.9	7.8	3.8
6-40M	14.2	14.4	7.8	14.2	8.7	11.3	9.5	8.1	3.1
P.I. 97066	14.2	14.7	14.5	13.5	10.8	8.5	8.8	6.8	6.6
N-39	15.0	9.3	11.4	8.9	7.5	9.0	8.6	5.5	5.1
Mean	15.5	13.9	13.5	13.5	10.0	9.9	9.4	8.6	6.1
Coef. of var. (%)	10.1	17.0	16.2	12.6	24.7	24.7	16.4	19.4	33.9
Bu. Nec. for sig. (5%)	2.3	3.4	3.2	2.5	3.6	3.5	2.2	2.4	3.0

Yield Rank

Ogden	3	3	1	2	1	1	5	1	1
2-40A	1	1	2	1	3	7	3	3	5
26-39M	2	7	10	10	10	5	9	2	8
Mamredo	6	5	8	5	7	4	2	4	2
Arksoy 2913	10	2	3	4	4	9	4	3	2
Magnolia	9	9	5	3	8	2	6	4	3
Mamredo	4	8	6	8	2	10	1	6	7
6-40M	7	6	9	6	6	3	5	5	8
P.I. 97066	7	4	4	7	5	8	7	7	4
N-39	5	10	7	9	9	6	8	8	6

Table 22: (Continued)

Strain	Baton Rouge, La. 3/	Opelousas, La. 3/
Ogden	25.7	42.2
2-40A	21.8	22.5
26-39M	2.7	1.2 ^{5/}
Armredo	23.8	25.6
Arksoy 2913	15.8	20.9 ^{4/}
Ralsoy	11.9	10.6 ^{4/}
Magnolia	23.7	23.3
Amredo	17.7	17.5
6-40M	11.5	21.5
P.I. 97066	9.7	13.7
N.-39	21.2	4.0
Mean	16.9	
Coef. of var. (%)	16.4	
Bu. Nec. for Sig. (5%)	4.0	

	<u>Yield Rank</u>	
Ogden	1	1
2-40Z	4	4
26-39M	11	11
Armredo	2	2
Arksoy 2913	7	6
Ralsoy	8	9
Magnolia	3	3
Amredo	6	7
6-40M	9	5
P.I. 97066	10	8
N.-39	5	10

3/ Not included in mean.

4/ average of 3 replications.

5/ average of 2 replications

Table 23: Summary of lodging data for the strains in the Uniform Test, Group V, 1944.

Strain	Mean of 27 Tests	Mari-anna ark.	Keiser ark.	Stone-ville Miss.	Clarke-dale ark.	Coweta Okla.	Lubbock, Texas (1)	(2)	Knox-ville Tenn.
Ogden	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.3
2-40A	1.4	1.0	1.0	2.5	1.0	3.0	2.0	1.5	2.0
26-39M	1.6	1.0	1.0	2.5	2.0	4.0	3.0	3.0	1.3
Armredo	1.9	1.0	3.0	3.4	3.0	3.0	3.0	3.0	2.0
Arksoy 2913	1.5	2.0	1.0	2.4	1.0	2.0	2.0	2.0	2.5
Ralsoy	1.4 ^{1/}	2.0	1.0	2.1	1.0	2.0	2.0	2.0	2.0
Magnolia	2.6	5.0	2.0	4.0	2.0	4.0	4.0	3.0	3.0
Mamredo	1.8	1.0	1.0	3.0	1.0	2.0	3.0	2.0	3.0
6-40M	1.6	2.0	1.0	2.4	1.0	1.0	3.0	2.0	2.5
P.I. 97066	2.8	5.0	3.0	4.1	3.0	4.0	4.0	4.0	3.3
N-39	1.6	2.0	1.0	2.8	1.0	3.0	2.0	3.0	1.8
	1.8	2.1	1.5	2.8	1.5	2.6	2.6	2.4	2.2

Strain	Ply-mouth N.C.	Holly Bluff Miss.	Cross-ville Tenn.	Tunica Miss.	Columbia Tenn.	Jack-son Tenn.	Mc-Culler Ark.	Watkins-ville Ga.	Stutt-gart Ark.	Mon-etta S.C.
Ogden	2.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0
2-40A	3.0	1.0	1.0	1.3	1.5	1.5	1.0	1.0	1.5	1.0
26-39M	3.0	1.5	1.3	1.5	1.3	1.5	1.0	1.0	1.0	1.0
Armredo	3.0	1.5	1.3	2.0	1.0	1.8	1.0	1.0	1.3	1.0
Arksoy 2913	2.0	1.3	1.8	1.8	1.8	1.5	1.0	1.0	1.5	1.0
Ralsoy	-	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.8	1.0
Magnolia	4.0	1.5	2.5	2.8	2.3	2.5	4.0	2.0	3.5	2.0
Mamredo	3.0	1.5	2.0	2.0	1.8	2.3	1.0	1.0	1.8	1.0
6-40M	2.0	1.0	1.8	2.3	1.8	1.3	1.0	1.0	2.0	1.0
P.I. 97066	4.0	1.8	2.3	2.8	2.8	2.0	3.0	2.0	2.8	2.0
N-39	4.0	1.3	1.0	2.0	2.0	1.5	1.0	1.0	2.5	1.0
Mean	2.7	1.3	1.5	1.9	1.7	1.7	1.5	1.2	1.9	1.2

^{1/}average of 26 tests.

Table 23: (Continued)

Strain	Still-Wagoner water Okla. Okla	Fayette- ville Ark.	Miller County Ark.	Heavener Okla.	Chilli- cothe Texas	Auburn Ala.	College Station Texas	Denton Texas
Ogden	1.0	1.0	2.0	1.0	2.0	1.0	1.0	1.0
2-40A	1.0	1.0	2.0	1.3	3.0	1.0	1.0	1.0
26-39M	1.0	1.0	1.0	1.0	3.0	1.0	1.0	1.0
Armredo	2.0	2.0	2.0	1.0	4.0	1.0	1.0	1.0
Arksoy 2913	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
Ralsoy	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0
Magnolia	2.0	2.0	3.0	1.5	2.0	1.0	1.0	2.0
Armredo	2.0	2.0	2.0	1.0	4.0	1.0	1.0	1.0
6-40M	1.0	1.0	5.0	1.0	2.0	1.0	1.0	1.0
P.I. 97066	3.0	2.0	4.0	1.5	4.0	1.0	1.0	3.0
N-39	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean	1.6	1.5	2.5	1.1	2.5	1.0	1.0	1.2

Table 24: Summary of height data for the strains in the Uniform Tests, Group V, 1944.

Strain	Mean of 28 Tests	Mari-anna Ark.	Keiser Ark.	Stone-ville Miss.	Clarke-dale Ark.	Coweta Okla	Lubbock, Texas (1)	(2)	Knox-ville Tenn.	Ply-mouth N.C.
Ogden	27.1	26	38	34	39	32	29	31	22	28
2-40A	27.6	32	30	30	36	28	30	29	22	32
26-39M	33.6	36	36	39	44	40	33	31	29	42
Mamredo	28.5	32	32	36	34	28	31	28	22	34
Arksoy 2913	24.8	24	25	31	32	28	26	27	21	28
Ralsoy	25.0 ^{1/}	23	23	33	28	28	25	26	21	--
Magnolia	36.3	48	44	53	49	32	31	24	28	48
Mamredo	29.2	26	34	35	41	30	31	35	23	30
6-40M	22.8	21	26	23	28	24	24	26	19	26
P.I. 97066	37.2	48	46	58	49	34	38	38	28	48
N-39	39.4	45	49	53	53	36	42	40	32	48
Mean	30.1	30.1	32.8	38.6	39.4	30.9	30.9	30.5	24.3	33.1

Strain	Holly Bluff Miss.	Cross-ville Tenn.	Tunica Miss.	Columbia Tenn	Jack-son Tenn.	Mc-Culler N.C.	Win-chester Ark.	Watkins-ville Ga.	Stutt-gart Ark.	Monetta S.C.
Ogden	28	40	34	28	39	24	18	22	20	20
2-40A	26	41	26	29	43	24	20	24	21	25
26-39M	34	41	38	30	47	36	24	30	27	32
Mamredo	31	37	33	29	39	34	22	26	24	25
Arksoy 2913	25	40	28	28	41	22	19	18	20	20
Ralsoy	25	42	27	28	39	26	18	20	19	20
Magnolia	41	42	45	30	49	44	34	26	28	40
Mamredo	32	42	31	32	46	28	23	22	25	28
6-40M	23	39	27	26	34	22	17	18	18	22
P.I. 97066	43	41	44	34	47	44	31	26	26	40
N.-39	42	50	52	38	50	48	29	36	31	42
Mean	31.8	41.4	35.0	30.2	43.1	32.0	23.2	24.4	23.5	28.5

^{1/}average of 27 tests.

Table 24: (Continued)

Strain	Still- water Okla.	wagoner Okla.	Fayette- ville Ark.	Miller County Ark.	Heavener Okla.	Chilli- cothe Texas	Auburn Ala	College Station Texas	Dallas Texas
Ogden	30	28	31	18	26	14	16	20	22
2-40A	32	32	34	19	24	17	22	24	22
26-39M	38	38	36	15	26	20	36	34	30
Armredo	28	27	28	20	28	18	24	26	22
Arksoy 2913	30	30	31	15	18	18	20	12	18
Ralsoy	30	30	29	14	22	21	24	16	18
Magnolia	32	32	35	31	26	27	40	28	28
Mamredo	32	32	31	17	30	22	24	14	21
6-40M	25	26	28	16	22	11	14	16	16
P.I. 97066	34	34	35	22	30	21	40	28	34
N-39	36	34	38	29	32	23	36	36	33
Mean	31.5	31.2	32.4	19.6	25.8	19.3	26.9	23.1	24.0

Table 25: Summary of maturity data, days earlier (-) or later than Ogden, for the strains in the Uniform Test, Group V, 1944.

Strain	Mean of 25 Tests	Mari- anna Ark.	Keiser ark.	Stone- ville Miss.	Clarke- dale ark.	Coweta Okla.	Lubbock, (1)	Texas (2)	Knox- ville Tenn	Ply mouth N.C.
Ogden	0	0	0	0	0	0	0	0	0	0
2-40A	2	27	0	5	0	5	-4	1	8	-6
26-39M	17 ^{1/2}	27	0	13	18	12	10	16	18	12
Mamredo	2	0	0	7	0	0	-3	11	8	0
Arksoy 2913	-1	0	0	4	0	0	-4	-3	8	-6
Ralsoy	-1 ^{1/2}	0	0	0	0	-15	-5	-4	8	-
Magnolia	3	0	0	0	0	12	-2	6	8	-6
Mamredo	1	0	0	10	0	-6	0	0	8	0
6-40M	4	0	0	5	0	12	0	11	8	-6
P.I. 97066	-1	0	0	4	0	0	0	11	8	-6
N-39	1	0	0	5	0	-6	-2	9	0	2
Ogden Planted		5/18	5/31	5/2	5/9	5/12	6/2	5/5	4/20	5/2
Ogden Matured		10/13	10/27	10/2	10/23	10/20	10/20	10/9	10/10	10/10
Days to maturity	152	148	150	153	167	161	140	157	173	161

Strain	Cross- ville Tenn.	Colum- bia Tenn.	Jack- son Tenn.	Mc- Culler N.C.	Win- chester ark.	Watkins- ville Ga.	Stutt- gart ark.	Monetta S.C.	Still water Okla.	Holly Bluff Miss.
Ogden	0	0	0	0	0	0	0	0	0	0
2-40A	-9	4	1	0	0	6	8	10	4	-1
26-39M	0	25	11	23	-	6	20	42	24	8
Mamredo	0	0	0	5	0	10	0	25	0	-1
Arksoy 2913	-9	-4	-3	0	0	0	3	0	0	-1
Ralsoy	-9	4	1	3	0	0	3	0	0	-1
Magnolia	-9	5	5	0	6	10	3	24	4	-1
Mamredo	0	0	-16	3	-12	10	0	0	9	-1
6-40M	-9	0	5	0	0	6	3	21	19	-1
P.I. 97066	-9	-4	-10	-6	0	10	-1	5	0	-1
N-39	0	5	-14	7	0	6	-2	22	0	-1
Ogden Plant- ed	5/13	4/20	4/21	4/27	4/18	5/15	5/26	4/26	4/27	6/3
Ogden Matur- ed	10/27	10/5	10/16	10/1	10/5	9/25	10/3	9/20	10/1	10/2
Days to maturity	167	168	178	157	170	133	130	147	157	121

^{1/2}Mean of 24 tests.

Table 25: (Continued)

Strain	Wagoner Okla.	Fayetteville Ark.	Miller County Ark.	Heavenor Okla.	Auburn Ala.	Dallas Texas
Ogden	0	0	0	0	0	0
2-40a	0	0	8	-5	-7	-3
26-39M	27	18	21	15	7	27
Mamredo	0	0	0	0	0	-5
Arksoy 2913	0	0	0	-5	-7	-5
Balsoy	0	0	0	0	-7	-5
Magnolia	0	0	8	10	-7	-1
Mamredo	9	0	0	10	-7	-2
6-40M	19	0	0	10	-7	5
P.I. 97066	0	0	0	-5	-7	-4
N.-39	4	0	0	0	0	-9
Date of Planting	5/12	5/5	5/17	6/5	5/15	4/27
Ogden matured	10/1	10/4	9/27	10/10	10/13	10/11
Days to maturity	142	152	133	127	151	167

Table 26: Summary of seed quality data for the strains in the Uniform Test, Group V, 1944.

Strain	Mean of 28 Tests	Mari-anna Ark.	Keiser Ark.	Stone-ville Miss.	Clarke-dale Ark.	Cowata Okla.	Lubbock, Texas (1)	(2)	Knox-ville Tenn.	Ply-mouth N.C.
Ogden	2.0	1.0	2.0	2.0	1.0	2.0	1.0	1.0	1.0	2.0
2-40A	2.1	2.0	2.0	2.8	1.0	2.0	1.1	1.3	1.5	2.0
26-39M	2.0	1.0	1.0	2.0	1.0	2.0	1.0	1.1	1.3	2.0
Mamredo	1.9	1.0	2.0	2.0	1.0	2.0	1.0	1.3	1.8	3.0
Arksoy 2913	1.7	2.0	1.0	2.0	1.0	2.0	1.1	1.5	1.0	3.0
Ralsoy	1.8 ^{1/}	1.0	2.0	2.0	1.0	3.0	1.0	1.5	1.0	-
Magnolia	2.2	1.0	1.0	3.0	1.0	2.0	1.5	1.8	1.5	3.0
Mamredo	2.1	1.0	2.0	3.0	1.0	2.0	1.1	1.6	1.0	2.0
6-40M	1.9	1.0	2.0	2.0	1.0	3.0	1.1	1.0	1.0	2.0
P.I. 97066	2.3	1.0	2.0	3.0	1.0	2.0	1.8	1.8	1.5	3.0
N-39	2.1 ^{2/}	1.0	2.0	2.4	1.0	2.0	1.0	1.1	2.8	3.0
Mean	2.0	1.2	1.7	2.4	1.0	2.2	1.2	1.4	1.4	2.3

Strain	Holly Bluff Miss.	Cross-ville Tenn.	Tunica Miss.	Columbia Tenn.	Jack-son Tenn.	Mc-Cullers N.C.	Winchester Ark.	Watkins-ville Ga.	Stutt-gart Ark.
Ogden	3.5	1.0	2.6	1.5	2.0	3.0	2.5	1.0	2.0
2-40A	2.0	1.5	2.0	1.8	2.8	3.0	2.5	1.0	2.0
26-39M	3.0	1.3	1.5	1.3	2.0	1.0	1.8	1.0	1.0
Mamredo	2.0	1.8	2.0	3.0	2.5	3.0	2.0	1.0	2.0
Arksoy 2913	1.0	1.0	2.0	2.3	2.5	3.0	1.9	1.0	2.0
Ralsoy	1.8	1.0	2.0	1.5	2.8	3.0	1.5	1.0	1.0
Magnolia	3.1	1.5	2.5	2.5	2.5	3.0	3.0	1.0	2.0
Mamredo	3.0	1.0	3.5	2.3	2.5	2.0	3.5	1.0	2.0
6-40M	2.0	1.0	2.1	3.5	1.5	3.0	1.9	1.0	1.0
P.I. 97066	2.5	1.5	2.5	3.0	2.8	3.0	2.5	1.0	3.0
N-39	3.0	2.8	3.0	3.3	3.0	2.0	2.0	1.0	2.0
Mean	2.4	1.4	2.3	2.4	2.4	2.6	2.3	1.0	1.8

^{1/}Mean of 25 tests.

^{2/}Mean of 27 tests.

Table 26: (Continued)

Strain	Still- water Okla.	Wagoner Okla.	Fayette- ville Ark.	Miller County Ark.	Heav- ener Okla.	Chilli- cothe Texas	Denton Texas	Auburn Ala	College Sta. Texas	Dallas Texas
Ogden	1.0	3.0	2.0	3.0	2.0	1.0	3.0	3.0	2.0	3.0
2-40A	2.0	2.0	1.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0
26-39M	3.0	4.0	4.0	3.0	2.0	2.0	3.0	1.0	3.0	5.3
Armredo	2.0	2.0	1.0	3.0	1.0	2.0	4.0	1.0	2.0	2.0
Arksoy 2913	1.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0
Ralsoy	1.0	2.0	2.0	2.0	1.0	5.0	2.0	-	2.0	3.0
Magnolia	2.0	2.0	2.0	2.0	1.0	2.0	4.0	3.0	4.0	3.0
Manredo	2.0	3.0	1.0	2.0	1.0	3.0	4.0	2.0	3.0	3.0
6-40M	1.0	3.0	2.0	1.0	1.0	2.0	4.0	1.0	3.0	3.0
P.I. 97066	3.0	2.0	2.0	2.0	2.0	5.0	2.0	2.0	2.0	3.0
N-39	2.0	2.0	1.0	2.0	1.0	3.0	2.0	-	3.0	3.0
Mean	1.8	2.5	1.8	2.3	1.4	2.7	3.0	1.5	2.6	3.3

Table 27: Summary of seed weight in grams per 100 seeds for the strains in the Uniform Test, Group V, 1944.

Strain	Mean of 28 Tests	Marianna Ark.	Keiser Ark.	Stone- ville Miss.	Clarke- dale Ark.	Coweta Okla.	Lubbock Texas (1)
Ogden	15.1	15.9	17.2	13.9	17.9	14.4	16.7
2-40a	13.4	15.5	16.1	11.2	15.2	14.1	14.4
26-39M	15.6	16.1	19.5	12.0	16.4	17.5	17.4
Mamredo	11.1	11.0	11.3	9.8	10.9	10.2	11.8
Arksoy 2913	12.9	15.5	15.4	11.2	15.0	13.9	14.2
Magnolia	14.9	16.9	19.7	13.0	16.0	16.1	17.2
Mamredo	13.7	15.1	15.0	12.9	15.6	13.0	16.2
6-40M	16.2	18.1	17.9	15.8	16.8	18.3	18.6
P.I. 97066	12.2	14.2	13.5	10.0	12.8	13.4	14.2
N41-39	13.2 ^{1/}	15.8	16.4	12.2	15.2	13.3	14.0
Mean	13.8	15.4	16.2	12.2	15.2	14.4	15.5

Strain	Lubbock Texas (2)	Knox- ville Tenn.	Fly- mouth N.C.	Holly Bluff Miss.	Cross- ville Tenn.	Tunica Miss.	Columbia Tenn.	Jackson Tenn.
Ogden	18.0	16.0	14.2	13.7	16.4	14.4	13.4	16.4
2-40a	14.9	16.0	13.8	11.6	14.5	13.0	12.3	14.2
26-39M	18.1	17.9	15.8	9.8	18.0	15.9	13.6	16.2
Mamredo	12.7	10.5	11.4	8.8	13.2	9.0	14.3	9.8
Arksoy 2913	13.7	15.3	13.1	11.4	15.0	11.9	12.6	13.8
Magnolia	16.9	16.7	15.7	11.8	17.4	15.7	12.2	16.1
Mamredo	15.0	14.7	18.8	12.5	15.3	12.4	12.1	14.0
6-40M	18.5	18.8	17.8	13.9	13.5	14.6	16.3	17.0
P.I. 97066	14.6	14.3	12.1	10.6	14.0	11.8	11.1	11.7
N41-39	16.0	14.2	12.8	11.8	12.5	12.9	12.7	13.8
Mean	15.8	15.4	14.6	11.6	15.0	13.2	13.1	14.3

(1) Planted June 2.

(2) Planted May 5.

^{1/} Mean of 27 tests.

Table 27: (Continued)

Strain	Mc- Cullers N.C.	Win- chester Ark.	Watkins- ville Ga.	Stutt- gart Ark.	Monetta S.C.	Still water Okla.
Ogden	12.0	14.9	15.8	15.4	13.4	16.3
2-40A	13.1	12.9	15.1	14.1	13.8	14.5
26-39M	18.9	13.2	15.3	15.5	16.2	17.6
Armredo	9.6	9.5	11.4	10.2	12.5	12.0
Arksoy 2913	11.5	11.7	14.6	12.9	13.6	13.4
Magnolia	11.5	12.6	16.0	14.1	17.9	16.3
Mamredo	12.9	11.3	17.6	14.3	13.6	15.0
6-40M	12.3	14.8	17.8	16.7	16.9	17.2
P.I. 97066	10.2	11.9	13.2	12.9	12.9	14.3
N41-39	14.7	12.1	14.2	13.3	14.6	14.2
Mean	12.7	12.5	15.1	13.9	14.5	15.1

Strain	Wagoner Okla.	Fayette- ville Ark.	Miller County Ark.	Heavener Okla.	Chilli- cothe Texas	Denton Texas	Ysleta Texas	Auburn Ala.
Ogden	14.4	14.3	13.6	13.5	21.0	12.2	11.9	15.1
2-40A	12.1	12.6	10.1	12.0	13.0	9.8	10.7	14.2
26-39M	16.2	14.2	12.4	16.5	17.0	10.0	12.9	16.1
Armredo	10.0	9.4	9.5	10.0	11.0	9.0	10.2	9.5
Arksoy 2913	12.6	11.4	11.9	12.4	12.0	9.5	8.9	13.3
Magnolia	14.4	12.9	12.5	13.5	16.0	10.2	11.9	15.5
Mamredo	12.3	13.5	11.7	12.0	12.0	9.7	12.3	11.5
6-40M	17.8	14.7	13.9	15.5	18.0	11.6	13.6	16.9
P.I. 97066	11.3	11.4	10.1	11.4	10.0	10.2	10.3	11.9
N41-39	12.3	11.8	10.3	13.3	12.0	9.3	10.5	--
Mean	13.3	12.6	11.6	13.0	14.2	10.2	11.3	13.8

Table 28: Summary of shattering data for strains of the Uniform Test, Group V, 1944.

Strain	Mean of 16 Tests	Mari-anna Ark.	Keiser Ark.	Stone-ville Miss.	Clarke-dale Ark.	Goweta Okla.	Ply-mouth N.C.	Tunica Miss.	Mc-Cullers N.C.
Ogden	2.3	1.0	1.0	4.0	1.0	1.0	2.0	3.0	2.0
2-40A	1.3	1.0	1.0	2.0	1.0	1.0	2.0	1.0	2.0
26-39M	1.9	2.0	1.0	2.7	2.0	1.0	1.0	2.0	1.0
Mamredo	1.4	1.0	1.0	2.0	1.0	1.0	1.0	2.0	1.0
Arksoy 2913	1.4	1.0	1.0	2.0	1.0	2.0	1.0	2.0	1.0
Ralsoy	1.5 ^{1/}	1.0	1.0	2.0	1.0	1.0	-	1.0	1.0
Magnolia	2.8	1.0	1.0	5.0	1.0	2.0	3.0	5.0	5.0
Mamredo	2.7	1.0	1.0	5.0	1.0	2.0	3.0	4.0	3.0
6-40M	1.5	1.0	1.0	2.5	1.0	1.0	2.0	2.0	2.0
P.I. 97066	2.8	1.0	2.0	5.0	1.0	1.0	2.0	5.0	3.0
N-39	1.5	1.0	1.0	2.7	1.0	2.0	1.0	3.0	1.0
Mean	2.0	1.1	1.1	3.2	1.1	1.4	1.6	2.7	2.0

Strain	Stutt-gart Ark.	Still-water Okla	wagoner Okla.	Fayette-ville Ark.	Miller County Ark.	Heavener Okla.	suburn Ala.	Dallas Texas
Ogden	4.0	1.0	2.0	2.0	1.3	2.0	5.0	3.8
2-40A	1.0	2.0	1.0	1.0	1.0	1.0	2.0	1.0
26-39M	1.0	2.0	1.0	0	1.0	2.0	5.0	3.8
Mamredo	1.0	3.0	2.0	0	1.0	3.0	1.0	1.0
Arksoy 2913	1.0	1.0	2.0	2.0	1.0	2.0	1.0	1.0
Ralsoy	2.0	-	2.0	1.5	1.0	2.0	1.0	1.0
Magnolia	4.0	1.0	2.0	4.0	1.0	3.0	5.0	1.8
Mamredo	2.0	3.0	3.0	2.0	2.5	2.0	5.0	3.3
6-40M	2.0	1.0	1.0	1.0	1.0	2.0	3.0	1.0
P.I. 97066	3.0	3.0	3.0	4.0	1.3	4.0	5.0	1.5
N-39	1.0	1.0	3.0	1.0	1.0	2.0	2.0	1.0
Mean	2.0	1.6	2.0	1.7	1.2	2.3	1.6	1.8

^{1/}average of 14 tests.

Table 29: Summary of stand data for strains in the Uniform Test, Group V, 1944:

Strain	Mean of 9 Tests	Mari- anna Ark.	Keiser Ark.	Clarke- dale Ark.	Coweta Okla.	Still- water Okla.	wagoner Okla.	Fayette- ville Ark.	Miller County Ark.	Dallas Texas
Ogden	7.2	4.3	6.8	6.8	8.0	5.0	9.0	8.3	7.5	8.9
2-40A	7.0	3.1	5.0	6.5	9.0	4.5	10.0	8.0	8.0	8.5
26-39M	6.9	4.0	4.8	6.3	8.0	6.5	9.0	7.5	7.3	8.8
Armredo	6.2	3.4	6.5	5.3	10.0	7.0	9.0	7.3	7.5	8.8
Arksoy 2913	7.2	4.3	3.8	3.5	6.0	3.0	8.0	7.0	4.5	6.8
Ralsoy	2.4 ^{1/}	1.8	0.9	0.5	-	-	4.0	5.5	2.0	2.2
Magnolia	6.6	2.9	5.3	6.3	9.0	4.0	8.0	7.3	8.3	8.7
Mamredo	6.4	4.0	4.8	5.5	9.0	4.0	9.0	6.8	6.3	8.2
6-40M	7.0	4.5	5.0	7.3	10.0	5.0	8.0	7.3	7.3	8.4
P.I. 97066	6.8	4.9	4.5	6.0	9.0	6.0	9.0	7.5	5.8	8.9
N-39	6.1	3.8	4.3	6.0	9.0	5.0	7.0	7.0	6.3	6.8
Mean	6.7	3.9	5.1	6.0	8.7	5.0	8.6	7.4	6.9	8.3

^{1/} Average of 7 tests. Not included in mean.

Table 30: Summary of disease ratings of the strains of the Uniform Test, Group V, 1944.

BACTERIAL PUSTULE

Strain	Mean of 19 Tests	Marianna Ark. 1/	Keiser Ark. 2/	Stoneville Miss. 3/	Clarke Ark. 2/	Coweta Okla. 4/	Knoxville Tenn. 5/	Flymouth N.C. 6/	Crossville Tenn. 5/
Date rated		9/9	9/7	av. 7/21 & 8/30	av. 8/3 & 9/9	7/2	-	8/15	-
Ogden	1.5	2.0	1.0	2.3	1.8	1.3	1.3	2.0	1.0
2-40A	2.3	3.0	1.3	2.5	3.6	3.3	2.0	4.0	1.0
26-39M	1.8	2.3	1.6	2.3	3.0	2.0	1.3	1.0	1.0
Armredo	2.2	3.0	2.0	2.2	3.0	2.3	2.0	3.0	1.0
Arksoy 2913	2.4	3.0	1.3	2.3	2.8	3.3	2.0	4.0	1.5
Ralsoy	2.4	3.0	2.0	2.4	2.8	3.0	2.3	-	1.0
Magnolia	2.7	2.6	2.0	2.4	3.8	3.3	2.8	3.0	1.5
Mamredo	2.7	3.0	2.6	3.3	3.5	3.3	2.3	4.0	1.0
6-40M	2.6	2.6	1.3	2.8	3.1	3.3	3.0	4.0	1.0
P.I. 97066	2.3	3.0	1.6	2.5	3.3	3.0	2.0	3.0	1.0
N-39	2.9	3.0	2.6	2.7	4.0	4.0	2.0	4.0	1.3
Mean	2.3	2.8	1.8	2.5	3.2	2.9	2.1	-	1.1

Strain	Tunica Miss. 3/	Columbia Tenn. 5/	Jackson Tenn. 5/	Winchester Ark. 1/	Watkinsville Ga. 3/	Monetta S.C. 6/
Date rated	9/6	-	-	av. 8/7 & 9/11	8/22	7/25
Ogden	.3	2.0	1.0	1.8	1.0	2.0
2-40A	.8	2.0	1.5	2.8	1.0	3.0
26-39M	.5	2.0	1.3	2.3	1.0	2.0
Armredo	1.0	2.5	1.8	3.6	1.5	2.0
Arksoy 2913	1.0	2.3	1.8	2.8	1.3	3.0
Ralsoy	1.0	2.0	2.0	3.2	1.8	3.0
Magnolia	1.0	3.0	3.0	3.3	1.5	3.5
Mamredo	1.3	2.5	2.3	3.5	1.3	4.0
6-40M	.8	2.5	2.5	3.5	1.5	4.0
P.I. 97066	1.0	2.0	1.5	3.5	1.0	3.0
N-39	1.0	2.8	2.3	3.1	1.5	4.0
Mean	.9	2.3	1.9	3.0	1.3	3.0

Table 30: (Continued)

BACTERIAL PUSTULE

Strain	Still- water Okla. 7/	Wagoner Okla. 4/	Fayette- ville Ark. 8/	Miller County Ark. 1/	Dallas Texas 9/	Baton Rouge La. 3/
Date rated	8/2-3	8/1	av. 8/9 & 9/4	av. 8/9 & 9/4	8/25	7/24
Ogden	1.0	1.0	2.0	1.8	2.3	1.0
2-40a	3.0	3.0	3.3	2.3	2.8	1.0
26-39M	2.0	2.0	1.8	2.1	2.5	1.0
Mamredo	2.0	2.0	3.3	2.8	3.0	1.5
Arksoy 2913	3.0	3.0	3.5	2.8	2.8	1.3
Ralsoy	3.0	3.0	2.8	2.7	3.3	1.8
Magnolia	3.0	3.0	3.5	3.2	2.8	1.5
Mamredo	3.0	3.0	3.5	3.2	3.5	1.3
6-40M	3.0	3.0	3.8	2.7	3.5	1.5
P.I. 97066	3.0	3.0	3.0	2.7	2.0	1.0
N-39	4.0	4.0	4.0	2.8	4.0	1.5
Mean	2.7	2.7	3.1	2.6	3.0	1.3

Ratings made by:

1/E.M. Cralley and Howard Larsh

2/E.M. Cralley, Howard Larsh

and J.L. Weimer

3/J.L. Weimer

4/Hi W. Staten

5/John B. Washko

6/E.E. Hartwig

7/D.E. Hoffmeister

8/E.M. Cralley

9/M.L. Kinman

10/Not included in the mean.

Table 30: Summary of disease ratings of the strains of the Uniform Test, Group V, 1944.

WILD FIRE

Strain	Mean of 7 Tests	Marianna ark. 1/	Keiser ark. 2/	Stone- ville Miss. 3/	Clarke- dale ark. 2/	Tunica Miss. 3/	Win- chester ark. 1/	Miller County ark. 1/
Dated	Rated	9/9	9/7	av. 7/21 & 8/30	av. 8/3 & 9/9	9/6	av. 8/7 & 9/11	av. 8/9 & 9/13
Ogden	1.1	1.3	1.3	.8	1.0	.8	1.0	1.3
2-40A	1.0	1.6	1.3	1.0	1.0	1.0	0	1.3
26-39M	1.0	1.3	1.3	1.0	1.3	1.0	0	1.0
Mamredo	1.1	1.3	1.0	.8	1.0	1.0	1.0	1.3
Arksoy 2913	1.0	1.3	1.3	.8	1.0	1.0	0	1.3
Ralsoy	.9	1.3	1.0	.8	1.0	1.0	0	1.0
Magnolia	1.1	1.3	1.0	1.0	1.0	1.0	1.0	1.3
Mamredo	1.0	1.3	1.3	1.0	1.0	1.0	0	1.3
6-40M	1.1	1.3	1.3	1.0	1.0	1.0	1.0	1.3
P.I. 97066	1.0	1.3	1.3	.8	1.3	1.0	0	1.3
N-39	1.0	1.3	1.3	.8	1.0	1.0	0	1.3
Mean	1.0	1.3	1.2	.9	1.1	1.0	.3	1.2

POD AND STEM BLIGHT

Strain	Mean of 7 Tests	Marianna ark. 1/	Keiser ark. 2/	Stone- ville Miss. 3/	Clarke- dale ark. 2/	Tunica Miss. 3/	Win- chester ark. 1/	Miller County ark. 1/
Dated	Rated	9/9	9/7	av. 7/21 & 8/30	av. 8/3 & 9/9	9/6	av. 8/7 & 9/11	av. 8/9 & 9/13
Ogden	1.5	1.3	1.3	3.0	1.3	1.0	1.3	1.3
2-40A	1.6	1.3	1.6	3.0	2.0	1.0	1.3	1.3
26-39M	1.5	1.3	1.3	3.0	1.6	1.0	1.3	1.3
Mamredo	1.5	1.3	1.3	3.0	1.6	1.0	1.3	1.3
Arksoy 2913	1.5	1.3	1.6	3.0	1.0	1.0	1.3	1.3
Ralsoy	1.5	1.3	1.3	2.8	1.3	1.0	1.3	1.3
Magnolia	1.7	1.6	1.3	3.5	1.6	1.0	1.3	1.3
Mamredo	1.5	1.3	1.3	3.0	1.3	1.0	1.3	1.3
6-40M	1.5	1.3	1.3	3.0	1.6	1.0	1.3	1.3
P.I. 97066	1.6	1.6	1.6	3.0	1.6	1.0	1.3	1.3
N-39	1.5	1.3	1.6	3.0	1.3	1.0	1.3	1.3
Mean	1.5	1.3	1.4	3.0	1.5	1.0	1.3	1.3

Ratings made by: 1/E.M. Cralley and Howard Larsh 3/J.L. Weimer
2/E.M. Cralley, Howard Larsh and J.L. Weimer.

Table 30: Summary of disease ratings of the strains of the Uniform Test, Group V, 1944.

<u>CERCOSPOR.</u>						
Strains	Mean of 5 Tests	Marianna ark. <u>1/</u>	Keiser ark. <u>2/</u>	Clarke- dale, ark. <u>2/</u>	Winchester ark. <u>1/</u>	Miller County ark. <u>1/</u>
Date rated		9/9	9/7	9/7	9/11	9/13
Ogden	1.1	1.0	0	1.5	1.5	1.5
2-40A	.6	1.0	1.0	0	1.0	0
26-39M	.4	0	1.0	1.0	0	0
armredo	.8	1.0	1.0	0	1.0	1.0
arksoy 2913	.2	0	0	0	1.0	0
Ral soy	.6	1.0	1.0	0	1.0	0
Magnolia	.6	1.0	1.0	0	1.0	0
Mamredo	0	0	0	0	0	0
6-40M	.4	0	1.0	0	0	1.0
P.I. 97066	1.1	1.0	1.5	1.0	1.0	1.0
N-39	1.1	1.0	1.0	1.5	1.0	1.0
Mean	.6	.6	.8	.5	.8	.5

Readings made by:

1/E.M. Cralley and Howard Larsh.

2/E.M. Cralley, Howard Larsh, and J.L. weimer.

Table 31: Summary of percentage protein for the strains in the Uniform Test, Group V, 1944.

Strain	Mean of 32 Tests	Mari- anna Ark.	Keiser Ark.	Stone- ville Miss.	Clarke- dale Ark.	Coweta Okla.	Lubbock, (1)	Texas (2)	Knox- ville Tenn.
Ogden	40.9	40.0	40.3	39.2	39.1	39.4	39.7	41.3	41.1
2-40A	42.3	42.1	41.3	42.0	41.2	41.2	41.6	42.9	43.0
26-39M	43.1	43.0	42.9	42.2	42.9	41.6	41.6	41.9	43.2
Mamredo	42.3	39.4	41.4	39.5	40.7	40.1	39.6	42.5	43.2
Arksoy 2913	43.2	41.5	42.1	41.7	41.6	41.5	42.0	42.7	44.7
Magnolia	42.1	41.4	42.1	42.2	41.5	39.4	42.9	43.2	41.7
Mamredo	41.0	38.6	40.4	39.8	40.2	40.4	40.6	40.1	40.8
6-40M	43.3	41.2	43.5	42.4	42.9	43.0	42.0	41.9	44.2
P.I. 97066	43.3	43.7	44.2	43.1	43.3	43.6	42.6	43.7	42.9
N41-39	41.7 ^{1/}	41.3	41.0	40.2	41.5	41.5	41.9	43.5	41.1
Mean	42.3	41.2	41.9	41.2	41.5	41.2	41.5	42.4	42.6

Strain	Ply- mouth N.C.	Holly Bluff Miss.	Cross- ville Tenn.	Tunica Miss.	Columbia Tenn	Jackson Tenn.	Mc- Cullers N.C.
Ogden	46.0	41.1	41.2	42.0	38.2	38.7	44.7
2-40A	46.4	42.4	43.2	41.7	40.2	41.3	46.4
26-39M	47.3	43.7	42.3	43.6	39.9	39.2	42.9
Mamredo	46.0	40.6	41.7	41.2	40.9	39.9	47.0
Arksoy 2913	46.6	42.9	44.9	42.4	44.9	42.2	47.7
Magnolia	43.7	43.6	43.2	43.1	41.2	39.7	47.8
Mamredo	44.3	40.9	42.7	39.5	39.2	40.3	46.7
6-40M	46.8	41.3	44.5	42.2	40.4	40.4	49.9
P.I. 97066	46.9	43.6	43.7	43.8	41.4	39.2	47.0
N41-39	44.6	42.5	40.0	43.6	38.8	38.8	42.6
Mean	45.9	42.3	42.7	42.3	40.5	40.0	46.3

^{1/}Mean of 31 tests.

(1) Planted June 2.

(2) Planted May 5.

Table 31: (Continued)

Strain	Win- chester Ark.	Watkins- ville Ga.	Stutt- gart Ark.	Monetta S.C.	Still- water Okla.	Wagoner Okla.	Fayette- ville Ark.	Miller County Ark.
Ogden	41.2	37.6	44.1	43.2	46.5	41.3	41.6	38.5
2-40a	41.2	38.9	44.8	44.2	47.2	44.3	43.3	36.8
26-39M	42.5	38.9	44.0	46.6	48.2	46.9	46.8	35.4
Mamredo	39.8	40.6	43.6	45.8	50.1	44.0	46.3	35.6
Arksoy 2913	41.6	41.0	44.4	46.7	49.9	45.4	44.5	35.7
Magnolia	42.1	39.2	43.2	45.9	46.2	41.8	43.7	34.4
Mamredo	39.5	39.4	43.2	41.8	45.8	44.3	42.5	37.7
6-40M	43.1	40.0	46.4	44.9	49.7	46.6	46.8	35.1
P.I. 97066	42.8	39.1	46.0	44.4	50.7	46.1	45.7	36.3
N41-39	40.4	37.7	43.3	43.0	48.3	48.7	44.6	34.5
Mean	41.4	39.2	44.3	44.7	48.3	44.9	44.6	36.0

Strain	Heavener Okla.	Chilli- cothe Texas	Denton Texas	Ysleta Texas	Auburn Ala.	Baton Rouge, (1)	La. (2)	Opelou- sas La.	Will- iamsburg Va.
Ogden	37.8	43.4	43.7	31.2	39.9	42.9	41.5	42.5	39.9
2-40a	40.5	43.2	46.4	34.6	41.3	42.3	43.0	42.7	42.9
26-39M	41.1	43.5	47.5	35.4	41.3	46.9	47.1	46.1	42.9
Mamredo	44.7	43.7	48.4	36.8	40.7	42.3	42.9	43.9	41.9
Arksoy 2913	42.0	43.7	46.6	37.6	40.9	43.3	44.0	43.3	43.7
Magnolia	40.1	42.2	44.8	37.8	40.1	42.0	42.6	42.2	43.3
Mamredo	39.6	41.2	46.6	30.1	38.7	42.4	39.2	42.4	42.6
6-40M	41.9	46.2	46.5	38.1	40.4	43.9	43.3	42.9	43.0
P.I. 97066	39.3	45.4	46.4	35.0	38.5	43.7	43.3	44.7	43.7
N41-39	38.4	45.6	44.6	30.7	--	41.3	42.2	44.5	41.6
Mean	40.5	43.8	46.2	34.7	40.2	43.1	42.9	43.6	42.6

(1) Planted early.

(2) Planted late.

Table 32: Summary of percentage oil for the strains in the Uniform Test, Group V, 1944.

Strain	Mean of 32 Tests	Mari-anna Ark.	Keiser Ark.	Stone-ville Miss.	Clarke-dale Ark.	Coweta Okla.	Lubbock, Texas (1)	Lubbock, Texas (2)	Knox-ville Tenn.
Ogden	21.2	20.8	21.2	21.9	21.2	21.1	21.5	21.7	22.0
2-40A	21.0	20.7	21.3	20.8	21.7	20.7	20.4	20.7	21.3
26-39M	18.8	18.1	19.0	19.3	20.1	19.4	19.2	19.2	19.9
Mamredo	19.5	19.5	19.5	20.9	19.1	19.3	20.4	19.2	21.0
Arksoy 2913	20.3	20.7	20.5	20.9	20.8	19.9	20.6	20.8	21.0
Magnolia	21.1	21.4	21.0	21.7	21.2	22.1	20.5	20.5	22.1
Mamredo	19.9	20.0	19.5	20.4	20.5	19.5	19.7	20.1	20.3
6-40M	19.7	19.8	19.5	20.4	19.6	19.2	20.1	20.2	20.1
P.I. 97066	19.5	19.0	18.5	19.3	19.4	18.8	19.8	19.6	19.9
N41-39	19.8 ^{1/}	19.7	20.3	21.2	19.8	19.7	19.1	19.1	21.4
Mean	20.1	20.0	20.0	20.7	20.3	20.0	20.1	20.1	20.9

Strain	Fly-mouth N.C.	Holly Bluff Miss.	Cross-ville Tenn.	Tunica Miss.	Columbia Tenn.	Jack-son Tenn.	Mc-Cullers N.C.	Win-chester Ark.
Ogden	18.6	21.7	20.1	20.0	22.0	22.1	18.2	22.0
2-40A	18.6	21.1	20.1	20.1	21.2	21.4	19.2	22.6
26-39M	17.1	17.7	18.8	18.1	19.6	20.6	19.8	19.8
Mamredo	18.0	20.4	18.7	19.3	19.5	19.8	17.3	21.2
Arksoy 2913	18.3	21.3	19.3	20.2	20.3	20.4	18.4	21.6
Magnolia	20.8	21.3	20.2	20.6	21.0	20.4	17.7	21.2
Mamredo	18.0	20.5	18.5	19.8	20.5	20.2	17.3	21.0
6-40M	18.6	20.7	18.2	19.6	20.5	21.1	15.8	19.6
P.I. 97066	17.7	19.8	18.7	18.7	19.6	20.9	17.7	20.0
N41-39	19.1	20.3	19.5	18.7	19.7	20.5	20.3	21.1
Mean	18.5	20.5	19.2	19.5	20.4	20.7	18.2	21.0

(1) Planted June 2.

(2) Planted May 5.

^{1/} Mean of 31 tests.

Table 32: (Continued)

Strain	Watkins- ville Ga.	Stutt- gart ark. S.C.	Monetta S.C.	Still- water Okla.	Wagoner Okla.	Fayette- ville ark.	Miller County ark.	Heavener Okla.
Ogden	23.3	21.8	20.3	19.4	21.1	20.4	24.6	22.5
2-40A	23.8	21.1	21.2	18.7	19.5	19.8	24.0	21.9
26-39M	21.4	20.4	17.3	16.4	17.0	16.1	22.6	19.2
Mamredo	20.3	21.1	18.8	16.0	18.4	17.0	23.5	18.4
Arksoy 2913	22.1	20.1	20.1	17.9	19.5	19.3	23.4	20.5
Magnolia	23.6	22.1	20.2	19.0	21.2	19.5	24.3	22.1
Mamredo	21.2	20.2	19.9	18.1	18.6	18.9	22.4	20.3
6-40M	22.1	19.5	20.0	16.9	18.2	17.1	22.8	20.2
P.I. 97066	21.9	20.0	19.9	16.9	18.5	17.9	23.4	21.0
N41-39	21.9	20.2	19.6	17.3	17.1	17.7	22.5	20.9
Mean	22.2	20.7	19.7	17.7	18.9	18.4	23.4	20.7

Strain	Chilli- cothe Texas	Denton Texas	Ysleta Texas	Auburn Ala.	Baton Rouge, La (1)	Baton Rouge, La (2)	Opelou- sas La.	Williams- burg Va.
Ogden	19.8	20.6	23.5	22.8	20.2	20.5	21.0	20.1
2-40A	20.4	19.6	22.8	22.7	21.8	19.3	21.4	20.5
26-39M	18.6	17.8	21.5	20.5	17.3	15.9	16.9	18.2
Mamredo	18.2	17.4	21.3	20.4	20.9	19.8	21.9	18.0
Arksoy 2913	19.8	18.2	21.1	21.7	20.8	19.5	19.4	19.6
Magnolia	20.1	20.4	22.0	24.2	22.0	19.9	21.6	20.3
Mamredo	20.0	17.3	22.4	22.0	20.7	20.0	20.4	17.9
6-40M	18.5	19.1	21.0	22.2	19.3	19.7	20.7	19.3
P.I. 97066	19.5	17.2	22.5	22.7	19.2	18.7	18.5	18.8
N41-39	18.6	17.4	22.0	--	20.5	19.8	20.4	19.9
Mean	19.4	18.5	22.0	22.1	20.2	19.3	20.2	19.2

(1) Planted early.

(2) Planted late.

Table 33: Summary of iodine number of oil for the strains in the Uniform Test, Group V, 1944.

Strain	Mean of 32 Tests	Mari-anna ark.	Keiser ark.	Stone-ville Miss.	Clarke-dale ark.	Coweta Okla.	Lubbock, (1)	Texas (2)	Knox-ville Tenn.
Ogden	132.6	137.4	134.5	136.8	133.9	134.4	130.5	128.9	136.3
2-40 A	130.2	135.4	133.2	133.7	130.2	132.8	128.3	127.6	134.7
26-39M	132.9	137.7	132.9	134.4	135.9	132.5	131.8	131.2	136.3
Mamredo	133.4	137.4	134.3	134.8	134.4	134.0	131.7	131.0	136.6
Arksoy 2913	131.9	136.1	133.5	135.4	132.2	133.7	128.7	129.3	135.5
Magnolia	128.3	131.7	130.8	129.1	127.7	129.2	127.3	126.6	133.4
Mamredo	127.6	132.5	130.4	132.3	128.6	129.6	125.2	132.3	132.9
6-40M	127.3	131.7	128.0	130.0	128.1	126.5	126.4	126.5	130.9
P.I. 97066	130.2	134.4	133.3	132.2	131.5	129.4	128.4	127.2	135.8
N41-39	127.3 ¹	129.6	126.4	130.0	126.5	128.0	126.4	124.3	132.5
Mean	130.2	134.4	131.7	132.9	130.9	131.0	128.5	127.9	134.4

Strain	Ply-mouth N.C.	Holly Bluff Miss.	Cross-ville Tenn.	Tunica Miss.	Columbia Tenn.	Jacks-son Tenn.	Mc-Cullers N.C.	Win-chester ark.
Ogden	137.7	127.0	140.0	134.7	135.4	129.9	134.6	131.0
2-40A	135.4	127.6	135.3	133.2	134.2	128.6	132.9	129.4
26-39M	136.0	129.8	137.4	134.6	136.6	132.8	133.2	132.9
Mamredo	135.9	131.5	140.5	134.5	137.1	134.4	135.4	132.8
Arksoy 2913	136.9	130.0	135.9	133.7	133.5	129.5	135.0	133.3
Magnolia	129.6	124.6	136.2	129.2	133.2	128.8	131.3	127.6
Mamredo	132.9	124.1	136.6	131.6	131.7	126.5	128.4	126.3
6-40M	129.4	124.3	132.9	128.9	130.3	126.3	129.5	125.3
P.I. 97066	132.2	128.3	136.9	131.6	134.6	130.1	133.2	130.0
N41-39	131.2	124.6	138.3	128.6	133.5	127.7	128.1	126.4
Mean	133.7	127.2	137.0	132.1	134.0	129.5	132.2	129.5

(1) Planted June 2.

(2) Planted May 5.

¹/ Mean of 31 tests.

Table 33: (Continued)

Strain	Watkins- ville Ga.	Stutt- gart Arkansas	Monetta S.C.	Still- water Okla.	Wagoner Okla.	Fayette- ville Ark.	Miller County Ark.	Heavener Okla.
Ogden	134.0	130.6	132.1	122.3	128.2	128.0	130.0	126.0
2-40A	130.9	128.2	127.7	124.7	129.2	126.6	127.2	125.5
26-39M	134.3	130.1	130.3	130.6	132.2	133.4	130.0	131.5
Mamredo	134.7	132.9	131.2	128.8	131.3	131.2	131.5	131.6
Arksoy 2913	133.3	129.5	129.4	129.4	129.4	127.6	128.9	125.9
Magnolia	127.8	126.4	124.1	125.9	128.2	127.6	126.0	125.0
Mamredo	127.2	126.1	121.5	119.1	125.9	125.8	125.3	124.9
6-40M	129.4	125.1	126.5	123.4	125.5	124.6	123.8	122.3
P.I. 97066	131.8	128.2	129.2	122.3	128.6	128.3	129.5	128.8
N41-39	130.0	128.0	124.3	119.9	123.8	126.9	128.6	126.0
Mean	131.3	128.5	127.6	124.6	128.2	128.0	128.1	126.8

Strain	Chilli- cothe Texas	Denton Texas	Ysleta Texas	Auburn Ala.	Baton Rouge, (1)	La. (2)	Opelou- sas La.	Williams- burg Va.
Ogden	127.1	124.6	132.7	134.7	137.6	134.7	137.0	139.7
2-40A	126.3	120.6	126.6	127.2	130.6	132.7	134.5	136.9
26-39M	130.2	119.6	131.0	135.3	134.0	131.0	134.5	138.6
Mamredo	130.1	124.1	132.6	134.6	133.4	132.1	133.8	139.4
Arksoy 2913	126.7	124.0	128.0	133.6	136.0	133.2	136.6	137.2
Magnolia	127.6	118.7	127.5	126.4	128.7	128.1	128.7	133.5
Mamredo	121.3	116.9	129.5	127.2	124.6	128.9	127.2	136.4
6-40M	123.8	117.5	126.4	127.7	130.0	127.6	129.7	134.2
P.I. 97066	120.0	122.4	130.0	133.5	127.5	128.8	130.0	137.7
N41-39	119.4	123.4	128.7	-	124.9	126.1	119.2	135.6
Mean	125.3	121.2	129.3	131.1	131.1	130.7	131.6	136.9

(1) Planted early

(2) Planted late.

Table 34: Two-year summary of agronomic and chemical data for the strains in the Uniform Test, Group V, 1943-1944.

Strain	Mean Yield Bu/a.	Lodg- ing	Plant Height	Matur- ity 1/	Seed Quality	Seed Weight	% Protein	% Oil	Iodine No. of Oil
No. of tests	16	14	14	12	14	14	14	14	14
Ogden	23.3	1.2	30	0	1.8	14.8	42.1	20.3	132.4
Arksoy 2913	17.9	1.6	28	-3	1.9	12.6	45.0	19.3	131.8
Mamredo	16.9	1.9	33	0	2.0	13.4	42.2	19.3	127.8
P.I. 97066	16.6	3.0	39	-1	2.2	12.2	44.8	19.9	129.6
Magnolia	15.7	2.9	37	2	2.1	13.4	43.4	18.4	131.9

1/Days earlier or later than Ogden. Ogden required 152 days to mature.

Table 35: Two-year average yields in bushels per acre and yield rank for the varieties in the Uniform Test, Group V, 1943-1944.

Strain	Mean of 16 Tests	Stone- ville Miss.	Fly- mouth N.C.	Clarke- dale Ark.	Keiser Ark.	Knox- ville Tenn.	Marianna Ark.	Mc- Cullers N.C.
Ogden	23.3	45.3	28.1	31.6	34.3	33.6	27.0	25.1
Arksoy 2913	17.9	27.3	22.7	20.3	25.8	23.1	25.4	18.3
Mamredo	16.9	29.0	21.5	20.2	22.2	19.5	21.3	18.6
P.I. 97066	16.6	25.9	25.6	22.1	15.2	20.1	19.6	20.4
Magnolia	15.7	25.7	22.2	25.4	18.7	16.4	18.7	18.2
Mean		30.6	24.0	23.9	23.2	22.5	22.4	20.1

Yield Rank

Ogden	1	1	1	1	1	1	1	1
Arksoy 2913	3	3	4	2	2	2	2	4
Mamredo	2	5	5	3	4	3	3	3
P.I. 97066	4	2	3	5	3	4	4	2
Magnolia	5	4	2	4	5	5	5	5

Strain	Colum- bia Tenn.	Watkins- ville Ga.	Jack- son Tenn.	Wagoner Okla.	Stutt- gart Ark.	Win- chester Ark.	Still water Okla.	Heav- ener Okla.	Fayette- ville Ark.
Ogden	22.5	22.6	19.2	16.8	16.4	15.1	14.7	8.9	11.5
Arksoy 2913	18.5	18.5	15.8	13.7	13.0	14.1	12.5	8.6	8.7
Mamredo	18.6	16.0	15.1	13.3	14.3	11.3	10.5	9.6	8.9
P.I. 97066	17.3	18.3	15.5	13.7	14.0	11.8	8.9	8.7	7.8
Magnolia	14.2	12.9	16.8	14.9	11.5	12.7	9.7	7.6	5.0
Mean	18.2	17.7	16.5	14.5	13.8	13.0	11.3	8.7	8.4

Yield Rank

Ogden	1	1	1	1	1	1	1	2	1
Arksoy 2913	3	2	3	3	4	2	2	4	3
Mamredo	2	4	5	5	2	5	3	1	2
P.I. 97066	4	3	4	3	3	4	5	3	4
Magnolia	5	5	2	2	5	3	4	5	5

Uniform Test, Group VI

The Group VI test was composed of 11 named varieties, one introduction, and two new strains. The origin of these varieties and strains is as follows:

Variety or Strain	Source or Originating Agency	Origin
Auburn #1 C.N.S.	Ala. Agr. Exp. Sta. J.E. Wannamaker St. Matthews, S.C.	Sel. from Monetta Sel. from Clemson
Delsoy Mamloxi	U.S. Dept. of Agr. Delta Exp. Sta. Stoneville, Miss.	P.I. 85355 Sel. from a cross (Mam. Yellow X Biloxi)
Missoy Monetta N. 41-90 Ogden	U.S. Dept. of Agr. U.S. Dept. of Agr. N. Car. Agr. Exp. Sta. Tenn. Agr. Exp. Sta.	P.I. 71664 from Nanking, China, 1927 P.I. 71608 from Nanking, China, 1927 Sel. from Nanking Sel. from a cross (Tokyo X P.I. 54610)
Palmetto P.I. 89775 Rose Non-Pop Tenn. Non-Pop	U.S. Dept. of Agr. U.S. Dept. of Agr. W.P. Rose, Goldsboro, N. Car. Tenn. Agr. Exp. Sta.	P.I. 71587 from Nanking, China, 1927 Tang Shang, China, 1930 Origin unknown Sel. from a cross (Tokyo X P.I. 54610)
Tokyo Volstate	U.S. Dept. of Agr. Tenn. Agr. Exp. Sta.	P.I. 8424 from Tokyo, Japan, 1901 Sel. from a cross (Tokyo X P.I. 54610)

Uniform Test, Group VI

Tests of Group VI were grown at 35 locations. Data were obtained from 29 locations. The agronomic and chemical data for the varieties and strains of Group VI are given in tables 36 through 49. The average yields for the two years, 1943-44, are given in table 49. Attention is called to the fact that varieties in table 49 were not all in the same maturity group in 1943.

Volstate and N.41-90 were the two highest yielding strains of this maturity. These strains, similar in response to location, were very productive through the middle and upper South, but were not adapted to the lower Southeast. The composition of N.41-90, with few exceptions, ran higher in oil than Volstate.

A varietal response in the lower Southeast, similar to that obtained in 1943, was again apparent in 1944. Introductions and varieties from Nanking, China, were more adapted to this section than such grain types as Volstate, Ogden, and Delsoy. Promising strains for this southeast section were P.I. 89775A, C.N.S.. Monetta, Rose Non-Pop, Auburn #1, Missoy and Palmetto. Of this group, P.I. 89775A and Rose Non-Pop, shatter less than the other strains.

The disease notes indicate that C.N.S. is more resistant to Bacterial Pustule than the other strains. Ogden and Palmetto appear to carry some resistance to this organism.

Table 36: Summary of agronomic and chemical data for the strains in the Uniform Test, Group VI, 1944.

Strain	Mean		Matur-		Seed		Shatter-		Bacter-		Iodine	
	Yield	Plant	ity	Quality	Weight	ing	Stand	ial	%	%	No.	No.
	Bu/a.	Height	3/					Pustule	Protein	Oil	of Oil	
No. of Tests	23	19	27	29	23	24	13	6	17	26	26	26
N. 41-90	22.9	1.7	32	2	1.8	14.9	1.2	5.9	2.4	40.0	21.9	132.7
Ogden	22.2	1.3	24	-16	2.3	14.9	1.9	6.9	1.9	42.1	20.7	133.9
Volstate	22.2	1.7	31	0	1.7	14.3	1.6	6.3	2.5	39.9	21.5	134.2
Tenn. N.F.	20.3	2.0	40	3	2.5	17.3	1.5	6.9	2.7	42.8	20.3	134.5
P.I. 89775A	20.2	1.8	39	-8	2.7	12.6	1.6	6.9	2.7	43.6	19.1	133.3
Wood's Yellow	19.2	1.4	30	4	2.4	23.1	2.2	6.2	2.0	42.0	19.5	128.5
Tokyo	19.1	1.9	31	1	2.1	20.8	3.2	5.7	2.0	41.6	20.2	134.7
Mamloxi	19.0	1.7	40	8	2.5	14.5	1.4	6.6	2.6	42.9	17.8	136.3
C.N.S.	17.6	3.1	29	3	1.7	13.1	2.0	6.9	1.3	45.0	18.5	129.7
Monetta	17.5	3.0	34	-7	1.9	12.3	3.0	6.2	2.5	43.6	17.0	132.6
Rose N.F.	17.2	1.6	26	-11	2.2	13.2	1.2	6.0	2.7	41.4	20.3	130.3
Missoy	17.0	3.0	47	4	2.1	11.4	2.0	6.0	2.3	42.2	19.1	132.2
Auburn #1	16.9	3.2	34	-7	1.7	12.1	2.9	5.1	2.7	43.3	17.0	133.3
Palmetto	16.7	2.7	48	-1	2.0	11.7	3.3	6.7	1.9	44.9	17.8	130.6
Delsoy	16.4	1.7	26	-11	2.2	13.8	2.6	6.8	2.6	44.9	17.7	133.1
Mean	19.0	2.1	34		2.1	14.7	2.1	6.3	2.3	42.7	19.2	132.7

1/ Mean 18 tests. 2/ Mean of 26 tests. 3/ Days earlier (-) or later than Volstate.

4/ Mean of 28 tests. 5/ Mean of 22 tests. 6/ Volstate matured in 161 days.

7/ Mean of 12 tests. 8/ Mean of 21 tests.

Table 37: Summary of yields in bushels per acre and yield rank for the strains in the Uniform Test, Group VI, 1944.

Strain	Mean of 23 Tests	Florence S.C.	Keiser Ark.	Stone- ville Miss.	Mari- anna Ark.	Clarke- dale Ark.	Fly- mouth N.C.	Tifton Ga.
N. 41-90	22.9	37.1	33.5	43.0	41.8	34.1	31.9	21.6
Ogden	22.2	30.5	54.9	43.4	36.7	42.6	31.8	24.1
Volstate	22.2	34.5	34.8	37.5	39.1	32.0	32.9	21.8
Tenn. N.P.	20.3	34.5	32.1	42.3	36.6	30.8	24.6	24.2
P.I. 89775A	20.2	29.7	39.8	26.9	34.6	30.9	32.4	23.6
Wood's Yellow	19.2	32.4	29.6	29.0	27.5	27.4	30.5	20.7
Tokyo	19.1	32.6	26.1	29.2	23.1	27.5	31.0	26.4
Mamloxi	19.0	32.9	29.7	20.3	21.8	29.9	24.1	29.3
C.N.S.	17.6	30.4	19.6	21.9	27.5	20.1	18.8	28.0
Monetta	17.5	28.9	22.4	21.8	14.3	22.1	20.8	24.1
Rose N.P.	17.2	28.1	32.4	27.2	32.1	30.2	26.3	17.9
Missoy	17.0	28.1	20.6	25.7	24.8	21.8	21.4	30.3
Auburn #1	16.9	25.9	21.6	25.3	15.2	18.1	21.3	26.7
Palmetto	16.7	29.7	27.8	12.2	18.6	26.9	25.3	30.7
Delsoy	16.4	31.3	33.1	30.4	25.2	24.1	25.5	18.2
Mean	19.0	31.1	30.5	29.1	27.9	27.9	26.6	24.5
Coef. of var. (%)		9.7	27.6	14.6	16.3	14.4	13.7	12.7
Bu. Nec. for Sig. (5%)		4.0	12.0	6.1	6.5	5.8	5.2	4.4

Yield Rank

N. 41-90	1	4	2	1	2	3	11
Ogden	8	1	1	3	1	4	8
Volstate	2	3	4	2	3	1	10
Tenn. N.P.	2	7	3	4	5	10	7
P.I. 89775A	10	2	9	5	4	2	9
Wood's Yellow	6	9	7	8	9	6	12
Tokyo	5	11	6	11	8	5	6
Mamloxi	4	8	14	12	7	11	3
C.N.S.	9	15	12	7	14	15	4
Monetta	12	12	13	15	12	14	8
Rose N.P.	13	6	8	6	6	7	14
Missoy	13	14	10	10	13	12	2
Auburn #1	15	13	11	14	15	13	5
Palmetto	10	10	15	13	10	9	1
Delsoy	7	5	5	9	11	8	13

Table 37: (Continued)

Strain	Fairhope, Ala. (1)	Mc-Cullers (2)	Willard N.C.	Experiment Ga.	Stutt- gart Ark.	Miller County Ark.	Win- chester Ark.
N. 41-90	18.8	19.8	31.0	22.2	26.1	25.1	20.1
Ogden	21.7	14.4	16.0	21.6	24.1	18.7	13.6
Volstate	24.4	17.4	28.4	22.9	20.9	24.0	20.8
Tenn. N.P.	19.1	11.6	20.2	22.2	25.5	22.3	19.2
P.I. 89775a	15.0	6.1	17.5	21.7	23.3	19.1	17.9
Wood's Yellow	21.4	13.7	28.9	24.8	21.1	23.1	15.9
Tokyo	22.8	16.2	25.8	26.8	15.5	16.8	20.1
Mamloxi	28.0	17.0	24.4	21.6	27.2	18.7	17.5
C.N.S.	35.2	15.3	21.7	13.3	25.8	16.3	16.3
Monetta	32.7	18.4	18.4	19.7	20.8	18.7	16.5
Rose N.P.	12.1	7.3	15.4	17.7	18.0	17.5	12.9
Missoy	20.0	15.8	22.9	13.9	22.2	20.1	18.5
Auburn #1	27.6	17.9	17.8	20.4	11.4	21.4	17.5
Palmetto	26.5	26.2	24.3	25.1	10.3	19.9	10.6
Delsoy	12.1	6.0	16.5	17.0	17.0	15.9	13.8
Mean	22.5	14.9	21.9	20.7	20.6	19.8	16.7
Coef. of var. (%)	16.5	21.4	11.7	11.9	17.6	9.3	19.0
Bu.Nec. for Sig.(5%)	5.3	4.6	3.7	3.5	5.2	2.6	4.5

Yield Rank

N.41-90	12	2	1	5	2	1	2	2
Ogden	8	10	14	8	5	9	6	13
Volstate	6	5	3	4	9	2	1	1
Tenn. N.P.	11	12	9	6	4	4	7	4
P.I. 89775a	13	14	12	7	6	8	12	6
Wood's Yellow	9	11	2	3	8	3	3	11
Tokyo	7	7	4	1	13	13	4	2
Mamloxi	3	6	5	9	1	10	5	7
C.N.S.	1	9	8	15	3	14	9	10
Monetta	2	3	10	11	10	10	14	9
Rose N.P.	14	13	15	12	11	12	11	14
Missoy	10	8	7	14	7	6	9	5
Auburn #1	4	4	11	10	15	5	13	8
Palmetto	5	1	6	2	14	7	15	15
Delsoy	14	15	13	13	12	15	8	12

Table 37: (Continued)

Strain	State College Miss.	Richmond Hill Ga.	Watkins- ville Ga.	Millen Ga.	Monetta S.C.	Blacks- ville S.C.	Fayette- ville Ark.
N.41-90	18.9	10.8	15.6	12.9	12.8	9.0	9.5
Ogden	23.9	9.4	15.5	11.6	13.1	4.2	12.7
Volstate	19.6	8.1	13.2	12.9	14.5	8.9	9.8
Tenn. N.P.	17.4	9.1	11.5	8.7	10.4	9.2	8.3
P.I. 89775A	19.7	14.9	11.6	13.5	12.7	16.8	11.9
Wood's Yellow	15.0	11.8	11.7	7.8	10.6	8.1	3.3
Tokyo	14.9	14.6	12.1	5.6	11.5	5.6	6.8
Mamloxi	16.8	12.4	10.6	9.7	5.8	9.3	5.7
C.N.S.	6.6	11.5	7.6	11.8	12.2	17.1	8.1
Monetta	16.2	11.3	11.1	15.9	10.6	15.8	6.3
Rose N.P.	11.5	8.2	11.6	13.5	12.6	10.4	9.5
Missoy	9.2	13.2	8.8	10.8	9.7	8.1	5.3
Auburn #1	12.1	12.1	11.6	14.9	12.3	11.4	8.0
Palmetto	5.7	14.2	8.7	9.5	9.9	9.3	4.2
Delsoy	12.3	9.8	8.7	8.9	9.9	8.7	6.8
Mean	14.6	11.4	11.3	11.2	11.2	10.1	7.7
Coef. of var. (%)	27.6	38.2	12.1	19.5	15.3	36.4	34.2
Bu.Nec for Sig.(5%)	5.8	6.2	1.9	3.1	2.4	5.3	3.8

Yield Rank

N.41-90	4	10	1	4	3	8	4
Ogden	1	12	2	6	2	13	1
Volstate	3	15	3	4	1	9	3
Tenn. N.P.	5	13	9	11	11	7	6
P.I. 89775A	2	1	6	3	4	2	2
Wood's Yellow	8	7	5	12	10	11	15
Tokyo	9	2	4	13	8	12	10
Mamloxi	6	5	11	8	15	6	12
C.N.S.	14	8	15	5	7	1	7
Monetta	7	9	10	1	9	3	11
Rose N.P.	12	14	6	3	5	5	4
Missoy	13	4	12	7	14	11	13
Auburn #1	11	6	6	2	6	4	8
Palmetto	15	3	13	9	13	6	14
Delsoy	10	11	13	10	12	10	9

Table 37: (Continued)

Strain	Setartia Miss.	Auburn Ala. 1/	Belle Mina Ala. 1/	Clemson S.C. 1/	Holly Bluff Miss. 1/	Heath- man Miss. 1/	Baton Rouge La. 1/	Opelousas La. 1/
N. 41-90	6.3	12.3	29.8	24.0	21.7	22.8	8.1	14.7
Ogden	6.4	-	25.0	19.9	24.6	18.0	11.1	13.4
Volstate	6.3	10.7	30.1	20.7	22.9	-	11.8	10.9
Tenn. N.P.	8.8	-	27.2	23.1	18.5	19.5	7.4	9.1
P.I. 89775A	8.7	18.2	27.3	15.1	17.6	-	12.4	6.7
Wood's Yellow	4.7	-	30.3	17.6	14.5	24.2	10.6	7.2
Tokyo	7.2	-	-	15.1	12.1	18.1	6.1	8.8
Mamloxi	4.1	15.9	-	15.3	-	-	5.7	5.0
C.N.S.	3.6	10.3	23.1	17.1	11.2	15.3	5.0	11.0
Monetta	6.1	21.9	24.9	5.4	11.9	9.6	10.1	7.2
Rose N.P.	6.9	20.9	23.1	13.5	22.1	18.8	10.5	24.4
Missoy	2.4	7.6	18.4	18.6	9.9	12.3	8.1	12.4
Auburn #1	7.0	-	24.2	4.8	13.6	-	7.4	7.0
Palmetto	.5	5.6	17.8	19.8	4.5	-	3.9	5.9
Delsoy	8.4	-	24.1	18.5	15.4	11.7	12.6	13.8
Mean	5.8	-	-	16.6	-	-	8.7	10.5
Coef. of var. (%)	34.0							
Bu.Nec. for sig. (5%)	2.8							

Yield Rank

N.41-90	8	1	8	2
Ogden	7	4	4	4
Volstate	9	3	3	7
Tenn. N.P.	1	2	9	8
P.I. 89775A	2	11	2	13
Wood's Yellow	11	8	5	10
Tokyo	4	11	10	9
Mamloxi	12	10	11	15
C.N.S.	13	9	12	6
Monetta	10	13	7	11
Rose N.P.	6	12	6	1
Missoy	14	6	8	5
Auburn #1	5	14	9	12
Palmetto	15	5	14	14
Delsoy	3	7	1	3

1/Not included in mean.

Table 38: Summary of lodging notes for the strains in the Uniform Test, Group VI, 1944.

Strain	Mean of 19 Tests		Florence S.C.		Keiser ark.		Stone-ville Miss.		Mari-anna ark.		Clarke-dale ark.		Fly-mouth N.C.		Mc-Cullers N.C.		Willard N.C.		Experiment Ga.	
N. 41-90	1.7		1.0		3.0		1.5		2.5		3.5		3.0		1.5		1.0		1.0	
Ogden	1.3		1.0		1.0		1.9		2.0		1.0		2.0		1.0		1.0		1.0	
Volstate	1.7		1.0		3.0		1.8		2.5		3.0		3.0		1.3		1.0		1.0	
Tenn. N.P.	2.0		2.0		3.0		2.3		2.5		3.0		3.0		3.0		2.0		1.0	
P.I. 89775A	1.8		2.0		1.0		3.2		2.5		1.8		3.0		3.0		3.0		1.0	
Wood's Yellow	1.4		1.0		1.0		1.8		1.0		2.0		3.0		1.0		1.5		1.0	
Tokyo	1.9		2.0		2.0		2.0		2.3		3.5		3.0		2.0		1.5		1.0	
Mamloxi	1.7		1.0		2.0		1.8		2.0		2.5		3.0		3.0		3.0		1.0	
C.N.S.	3.1		3.0		5.0		3.0		4.8		5.0		4.0		3.0		3.0		2.0	
Monetta	3.0		3.0		4.0		3.0		5.0		4.8		4.0		3.0		2.5		2.0	
Rose N.P.	1.6		1.0		2.0		1.9		2.0		1.5		3.0		2.0		1.5		1.0	
Misoy	3.0		4.0		5.0		3.5		5.0		4.0		4.0		3.8		5.0		2.0	
Auburn #1	3.2		3.0		4.0		3.3		5.0		4.5		4.0		3.0		3.0		4.0	
Palmetto	2.7		3.0		3.0		3.5		4.8		3.0		4.0		3.0		2.5		1.0	
Delsoy	1.7		1.0		2.0		2.1		2.0		3.3		4.0		1.0		1.0		1.0	
Mean	2.1		1.9		2.7		2.4		3.1		3.1		3.3		2.2		2.2		1.4	

1/Mean of 18 Tests.

Table 38: (Continued)

Strain	Stutt- gart ark.	Miller County ark.	Watkins- ville Ga.	Fayette- ville ark.	Setartia Miss.	Auburn ala.	Clemson S.C.	Holly Bluff Miss.	Baton Rouge La.	Opelousas La.
N. 41-90	2.0	1.3	1.0	3.0	1.0	1.0	1.0	1.8	1.0	1.0
Ogden	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
Volstate	2.0	1.0	1.0	3.0	1.0	1.0	1.0	1.5	2.0	2.0
Tenn. N.P.	2.0	1.3	1.0	2.0	1.0	1.0	2.0	1.8	2.0	2.0
P.I. 89775a	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.3	2.0	2.0
Wood's Yellow	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	2.0
Tokyo	3.0	1.5	1.0	3.0	1.0	1.0	2.0	2.0	1.0	1.0
Mamloxi	1.0	1.0	1.0	1.0	1.0	1.0	2.0	-	2.0	2.0
C.N.S.	4.8	3.0	1.0	5.0	1.0	1.0	3.0	2.0	3.0	3.0
Monetta	5.0	2.5	3.0	5.0	2.0	1.0	2.0	2.3	3.0	3.0
Rose N.P.	1.3	1.0	1.0	2.0	1.0	1.0	1.0	1.0	3.0	2.0
Missoy	3.0	2.3	2.0	2.0	1.0	1.0	3.0	2.0	2.0	3.0
Auburn #1	5.0	2.3	2.0	5.0	1.0	1.0	2.0	2.1	3.0	3.0
Palmetto	4.0	2.0	1.0	3.0	1.0	1.0	3.0	2.0	4.0	3.0
Delsoy	2.5	1.0	1.0	2.0	1.0	1.0	1.0	1.3	2.0	2.0
Mean	2.6	1.5	1.3	2.7	1.1	1.0	1.7	1.7	2.3	2.2

Table 39: Summary of height data for the strains in the Uniform Test, Group VI, 1944.

Strain	Mean of 27 Tests	Florence S.C.	Keiser Ark.	Stone- ville Miss.	Mari- anna Ark.	Clarke- dale Ark.	Ply- mouth N.C.
N.41-90	32	36	44	42	42	53	44
Ogden	24	26	38	32	29	40	32
Volstate	31	36	43	38	46	50	44
Tenn. N.P.	40	45	54	57	56	53	45
P.I. 89775A	39	50	46	55	47	47	44
Wood's Yellow	30	36	33	38	34	42	38
Tokyo	31	36	39	40	37	48	44
Mamloxi	40 ^{1/}	56	42	48	47	49	46
C.N.S.	29	38	33	34	36	37	36
Monetta	34	46	42	46	37	43	48
Rose N.P.	26	32	32	32	32	39	34
Missoy	47	64	58	61	65	68	60
Auburn #1	34	46	36	47	41	39	48
Palmetto	48	64	57	66	62	65	54
Delsoy	26	34	37	32	31	44	36
Mean	34	43	42	44	43	48	44

Strain	Tifton Ga.	Mc- Cullers N.C.	Willard N.C.	Experi- ment Ga.	Stutt- gart Ark.	Miller County Ark.	Win- chester Ark.
N.41-90	21	36	26	40	31	31	20
Ogden	18	30	22	28	23	23	18
Volstate	21	36	26	32	31	30	25
Tenn. N.P.	42	44	46	40	38	34	38
P.I. 89775A	43	44	44	40	30	33	32
Wood's Yellow	27	38	32	34	27	29	22
Tokyo	25	35	30	34	29	28	26
Mamloxi	40	48	42	52	36	38	28
C.N.S.	25	32	24	36	24	27	22
Monetta	31	46	32	36	29	33	25
Rose N.P.	21	32	25	28	24	22	18
Missoy	51	66	52	54	35	37	42
Auburn #1	30	46	32	42	33	28	23
Palmetto	54	66	48	58	40	37	44
Delsoy	19	30	24	28	24	22	19
Mean	31	42	34	39	40	30	27

^{1/}Mean of 26 tests.

Table 39: (Continued)

Strain	State College Miss.	Richmond Hill Ga.	Watkins- ville Ga.	Millen Ga.	Monetta S.C.	Black- ville S.C.	Fayette- ville Ark.
N.41-90	25	19	26	18	30	22	39
Ogden	28	15	20	14	22	18	30
Volstate	28	19	26	18	30	23	36
Tenn. N.P.	34	31	24	34	42	29	36
P.I. 89775A	28	34	28	33	42	33	35
Wood's Yellow	35	23	22	22	36	21	35
Tokyo	24	21	24	23	32	26	36
Mamloxi	36	29	34	33	44	31	37
C.N.S.	24	20	20	21	34	24	32
Monetta	26	27	24	28	36	29	35
Rose N.P.	24	16	22	17	28	19	32
Missoy	34	37	36	38	46	37	41
Auburn #1	26	28	30	26	36	26	38
Palmetto	33	38	30	41	44	36	42
Delsoy	26	16	22	14	25	18	30
Mean	29	25	26	25	35	26	36

Strain	Satartia Miss.	Auburn Ala.	Clemson S.C.	Holly Bluff Miss.	Heath- man Miss.	Baton Rouge La.	Opelousas La.
N.41-90	22	28	26	44	30	38	36
Ogden	18	18	20	34	23	22	18
Volstate	24	18	25	40	30	34	30
Tenn. N.P.	31	30	36	42	37	38	36
P.I. 89775A	23	38	32	38	35	40	46
Wood's Yellow	24	22	27	34	24	28	30
Tokyo	28	26	26	36	31	22	23
Mamloxi	28	34	36	37	-	46	48
C.N.S.	23	20	26	35	24	34	30
Monetta	25	30	34	40	33	36	32
Rose N.P.	19	22	25	35	24	27	20
Missoy	35	34	48	50	38	48	46
Auburn #1	23	30	29	38	27	40	38
Palmetto	39	40	48	52	40	50	45
Delsoy	21	24	22	33	26	29	18
Mean	26	28	31	39	30	35	33

Table 40: Summary of maturity data, days earlier (-) or later than Volstate, for the strains in the Uniform Test, Group VI, 1944.

Strain	Mean of		Stone-		Mari-		Clarke-		Fly-		Tifton		Fairhope, Ala.		Mc-	
	Tests	S.C.	ark.	Miss.	ark.	anna	ark.	N.C.	mouth	N.C.	Ga.	(1)	(2)	N.C.	(1)	(2)
N.41-90	2	0	0	-3	0	0	0	2	2	6	6	11	2	0	11	2
Ogden	-16	-24	-14	-26	-27	-18	-18	-18	-18	-6	-6	-13	5	-25	-13	5
Volstate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tenn. N.Y.	3	0	0	1	0	0	0	2	2	8	8	4	8	2	4	8
P.I. 89775A	-8	-10	-14	-13	0	-18	-18	-12	-12	-2	-2	-3	-10	-12	-3	-10
Wood's Yellow	4	3	0	-4	0	0	0	2	2	8	8	25	26	4	25	26
Tokyo	1	0	0	-12	0	0	0	0	0	7	7	17	8	-2	17	8
Mamloxi	8	10	0	2	0	0	0	9	9	-	-	28	19	9	28	19
C.N.S.	3	3	0	-5	0	0	0	4	4	8	8	4	7	2	4	7
Monetta	-7	-10	-14	-18	0	-18	-18	-10	-10	-4	-4	-4	-1	-10	-4	-1
Rose N.P.	-11	-10	-14	-19	-27	-18	-18	-12	-12	-5	-5	-13	-16	-12	-13	-16
Misoy	4	3	-	-10	0	0	0	4	4	8	8	2	16	2	2	16
Auburn #1	-7	-10	-14	-17	0	-18	-18	-10	-10	0	0	-8	-6	-10	-8	-6
Falmetto	-1	0	-14	-10	0	-18	-18	-4	-4	-3	-3	2	2	-2	2	2
Delsoy	-11	-20	-14	-19	0	-18	-18	-13	-13	-7	-7	-13	-16	-22	-13	-16
Date planted	5/20	5/31	5/31	5/2	5/18	5/9	5/9	5/1	5/1	5/12	5/12	5/16	6/15	4/27	5/16	6/15
Volstate matured	10/25	11/10	11/10	10/28	11/9	11/10	11/10	10/28	10/28	10/9	10/9	10/16	10/28	10/26	10/16	10/28
Days to maturity	161	158	163	179	175	185	185	180	180	150	150	153	135	182	153	135

$\frac{1}{2}$ Mean of 28 tests.

Table 40: (Continued)

Strain	Willard N.C.	Experiment, Ga.	Stutt- gart Ark.	Miller County Ark.	Win- chester Ark.	State College Miss.	Richmond Hill Ga.	Watkins- ville Ga.	Millen Ga.
N.41-90	-3	0	0	0	0	8	3	5	1
Ogden	-19	-17	-17	-7	-15	-8	-2	-20	-7
Volstate	0	0	0	0	0	0	0	0	0
Tenn. N.P.	4	0	0	0	0	8	5	0	3
F.I. 89775a	-16	-14	-8	-7	-6	0	3	-10	-4
Wood's Yellow	4	-5	5	0	1	15	8	10	6
Tokyo	0	-5	3	0	0	8	5	10	1
Mamloxi	9	13	8	5	12	23	20	10	14
C.N.S.	0	0	3	0	0	8	5	5	4
Monetta	-16	-14	-4	-7	-5	0	1	0	-5
Rose N.P.	-16	0	-17	-7	-12	-8	0	0	-5
Misoy	0	0	3	0	0	23	4	0	5
Auburn #1	-16	0	-4	0	-6	0	1	-10	-5
Palmetto	-3	0	0	0	0	8	2	0	1
Delsoy	-16	-5	-14	-7	-9	-8	-2	5	-6
Date planted	4/17	5/17	5/26	5/17	4/18	5/26	5/16	5/15	5/16
Volstate matured	10/28	10/15	10/20	10/18	10/20	10/11	10/11	10/15	10/16
Days to maturity	194	151	147	154	185	138	148	153	153

Table 40: (Continued)

Strain	Blacks-		Fayette-		Setartia		Belle		Holly		Opelousas	
	Monetta	S.C.	ville	S.C.	ville	ark.	Miss.	ala.	Ga.	Bluff	Miss.	La.
N. 41-90	0	0	0	0	0	9	0	0	1	0	0	0
Ogden	-29	-6	-18	-18	-18	-18	-18	-7	-7	-43	-47	-47
Volstate	0	0	0	0	0	0	0	0	0	0	0	0
Tenn. N.F.	0	-1	9	9	0	7	0	1	1	0	8	6
P.I. 897754	-9	-6	-18	-18	-14	-14	-14	-7	-7	-28	-7	-7
Wood's Yellow	5	3	9	9	0	0	0	2	2	-13	-7	-7
Tokyo	5	-1	-7	-7	0	-7	0	1	1	-5	0	0
Mamloxi	9	15	9	9	-11	7	-11	4	4	-5	0	0
C.N.S.	0	2	9	9	0	0	0	2	2	-8	0	0
Monetta	-9	-7	0	0	-18	-14	-18	-7	-7	-13	-7	-7
Rose N.F.	-12	-7	-18	-18	-18	-14	-18	-7	-7	-30	-7	-7
Missoy	0	1	9	9	-11	0	-11	4	4	6	4	4
Auburn #1	-9	-7	-7	-7	-18	-14	-18	-7	-7	-13	-4	-4
Palmetto	0	-2	9	9	20	0	20	1	1	-28	-12	-12
Delsoy	-12	-7	-18	-18	-18	-14	-18	-7	-7	-30	-12	-12
Date planted	4/26	5/16	5/5	5/5	5/20	5/19	5/20	6/17	6/24	6/3	4/21	4/28
Volstate matured	10/23	10/18	11/1	11/1	10/19	10/27	10/19	10/27	10/15	10/5	11/2	11/1
Days to maturity	180	155	180	180	152	161	152	132	113	124	195	187

Table 41: Summary of seed quality data on the strains of the Uniform Test, Group IV, 1944.

Strain	Mean of 23 Tests	Stone-ville		Mari-anna		Clarke-ville		Fly-mouth		Fairhope, Ala.		Mc-Cullers		Experiment
		ark.	Miss.	ark.	ark.	ark.	ark.	N.C.	N.C.	(1)	(2)	N.C.	N.C.	Ga.
N.41-90	1.8	1.0	1.3	1.0	1.0	2.0	2.0	2.0	3.0	3.0	3.0	1.0	2.0	1.0
Ogden	2.3	2.0	2.0	1.0	1.0	1.0	2.0	2.0	5.0	3.0	3.0	4.0	2.0	1.0
Volstate	1.7	1.0	1.4	1.0	1.0	2.0	2.0	2.0	3.0	2.0	2.0	1.0	2.0	1.0
Tenn. N.P.	2.5	2.0	2.5	1.0	1.0	3.0	3.5	3.5	4.0	4.0	4.0	2.0	3.0	1.0
P.I. 89775 ^a	2.7	2.0	3.1	2.0	2.0	2.0	3.0	3.0	5.0	5.0	5.0	2.0	3.0	1.0
wood's Yellow	2.4 ¹ / ₁	1.0	1.8	1.0	1.0	3.0	2.0	2.0	4.0	4.0	4.0	1.0	2.0	1.0
Tokyo	2.1 ¹ / ₂	1.0	2.0	1.0	1.0	1.0	2.5	2.5	4.0	3.0	3.0	1.0	2.0	1.0
Mamloxi	2.5 ² / ₂	3.0	2.3	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	2.0	2.0	1.0
C.N.S.	1.7	1.0	2.4	1.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0	1.0	2.0	1.0
Monetta	1.9	2.0	2.6	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
Rose N.P.	2.2	1.0	3.0	2.0	2.0	2.0	3.0	3.0	5.0	2.0	2.0	3.0	3.0	1.0
Missoy	2.1	2.0	2.9	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	1.0
auburn #1	1.7	1.0	2.9	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
Palmetto	2.0	1.0	3.5	2.0	2.0	1.0	2.0	2.0	2.0	2.0	3.0	1.0	1.0	1.0
Delsoy	2.2	2.0	2.0	1.0	1.0	1.0	2.0	2.0	4.0	3.0	3.0	3.0	3.0	1.0
Mean	2.1	1.5	2.4	1.4	1.4	1.7	2.3	2.3	3.4	3.0	3.0	1.7	2.1	1.0

¹/Mean of 22 tests.

²/Mean of 21 tests.

Table 41: (Continued)

Strain	Stutt- gart ark.	Miller County ark.	Win- chester ark.	Ga.	Watkins- ville Ga.	Fayette- ville ark.	Setar- tia Miss.	Belle auburn ala.	Clemson S.C.	Holly Heath- Bluff man Miss.	Baton Opel- ousas La.
N. 41-90	1.0	2.0	1.9	1.0	1.0	2.0	2.5	1.0	2.0	2.5	3.0
Ogden	2.0	2.0	2.9	1.0	1.0	1.0	3.3	2.0	2.0	2.9	5.0
Volstate	1.0	2.0	1.5	1.0	1.0	2.0	2.6	1.0	2.0	2.0	3.0
Tenn. N.P.	2.0	3.0	2.0	1.0	1.0	2.0	2.8	2.0	2.0	2.4	5.0
P.I. 89775A	1.0	2.0	3.0	1.0	1.0	2.0	4.0	2.0	2.0	3.4	5.0
Wood's Yellow	2.0	3.0	3.4	1.0	1.0	3.0	2.2	3.0	2.0	3.3	5.0
Tokyo	1.0	3.0	1.8	1.0	1.0	2.0	2.9	-	2.0	2.0	5.0
Mamloxi	2.0	2.0	2.5	1.0	1.0	3.0	2.3	2.0	2.0	-	5.0
C.N.S.	1.0	2.0	1.5	1.0	1.0	1.0	1.7	1.0	2.0	2.4	3.0
Monetta	1.0	1.0	1.9	1.0	1.0	2.0	2.1	2.0	2.0	3.0	4.0
Rose N.P.	2.0	2.0	2.0	1.0	1.0	1.0	1.5	1.0	2.0	1.8	4.0
Missoy	1.0	2.0	2.4	1.0	1.0	2.0	2.0	2.0	2.0	3.0	5.0
auburn #1	1.0	1.0	1.6	1.0	1.0	1.0	2.0	1.0	2.0	2.4	3.0
Palmetto	1.0	2.0	1.5	1.0	1.0	1.0	2.5	2.0	2.0	3.0	5.0
Delsoy	2.0	2.0	2.1	1.0	1.0	2.0	2.5	2.0	2.0	2.0	4.0
Mean	1.4	2.1	2.2	1.0	1.0	1.8	2.5	1.5	2.0	2.4	4.3

Table 42: Summary of seed weight in grams per 100 seeds for the strains in the Uniform Test, Group VI, 1944.

Strain	Mean of		Flor- ence S.C.	Weiser Ark.	Stone- ville Miss.	Mari- anna Ark.	Clarke- dale Ark.	Fly- mouth N.C.	Tifton Ga.	Fairhope, Ala.	
	24 Tests	24 Tests								(1)	(2)
N.41-90	14.9	15.4	19.1	13.6	16.6	16.5	15.8	14.7	15.7	13.8	
Ogden	14.9	14.6	19.6	14.6	15.6	16.6	14.0	16.6	14.2	14.5	
Volstate	14.3	15.3	18.6	13.3	15.3	15.3	15.0	15.8	13.3	13.3	
Tenn. N.P.	17.3	19.4	21.0	16.0	17.8	19.3	19.4	19.1	15.2	13.7	
F.I. 89775A	12.6	14.2	15.1	11.4	14.9	13.9	12.6	12.0	10.2	9.9	
Wood's Yellow	23.1	27.2	28.8	20.0	24.9	26.3	23.8	25.7	23.2	19.5	
Tokyo	20.8	23.8	25.9	18.7	21.3	22.4	23.8	23.2	20.9	18.9	
Mamloxi	14.5	14.9	17.5	12.4	15.7	15.4	15.1	16.5	14.9	15.1	
C.N.S.	13.1	14.2	15.6	12.3	14.5	15.7	15.2	15.3	13.5	11.4	
Monetta	12.3	13.1	14.2	11.2	11.7	14.0	13.5	12.8	11.6	11.9	
Rose N.P.	13.2	15.4	17.0	12.4	15.1	14.5	12.7	12.9	10.5	9.3	
Missoy	11.4	11.4	12.2	11.1	11.8	13.3	12.7	13.2	16.3	10.7	
Auburn #1	12.1	12.9	14.0	11.1	11.3	13.2	12.9	12.7	11.2	11.6	
Palmetto	11.7	11.6	15.3	10.7	12.3	12.4	13.7	14.3	12.3	10.9	
Delsoy	13.8	14.7	17.1	12.5	16.5	14.8	15.3	14.4	11.0	10.6	
Mean	14.7	15.9	18.1	13.4	15.7	16.2	15.7	15.9	14.3	13.0	

Table 42: (Continued)

Strain	Mc-Cullers N.C.	Willard N.C.	Experiment Ga.	Stuttgart Ark.	Miller County Ark.	Winchester Ark.	State College Miss.	Richmond Hill Ga.	Watkinsville Ga.
N.41-90	17.8	15.1	17.5	14.8	11.4	13.0	10.9	12.5	15.8
Ogden	11.1	14.5	15.2	14.9	15.3	15.6	10.3	13.3	16.8
Volstate	16.5	14.7	16.8	14.2	11.3	13.1	9.7	11.9	15.1
Tenn. N.P.	20.9	19.7	19.2	19.1	15.3	16.1	11.8	15.7	16.8
P.I. 89775A	12.3	12.8	13.4	13.2	10.4	11.8	9.6	11.9	12.4
Wood's Yellow	26.0	24.4	25.3	24.2	19.7	22.7	16.5	20.0	20.3
Tokyo	23.5	21.7	22.7	21.8	16.6	19.6	15.5	18.4	18.1
Mamloxi	16.5	15.5	15.2	12.5	11.6	16.5	12.1	14.3	12.0
C.N.S.	14.8	14.0	14.7	14.7	9.7	11.1	8.8	12.1	11.3
Monetta	14.5	12.6	13.9	11.9	10.1	11.6	9.4	10.6	12.4
Rose N.P.	13.4	12.1	14.3	13.9	13.1	12.4	8.7	12.0	14.4
Missoy	12.0	12.1	13.0	10.6	8.4	10.1	9.7	10.9	9.3
Auburn #1	14.6	12.1	13.4	12.3	11.0	11.6	8.4	10.9	11.7
Falmetto	12.4	13.0	12.9	10.7	8.6	10.5	9.9	11.9	9.5
Delsoy	12.2	13.8	14.8	15.7	12.4	13.2	9.6	12.0	13.9
Mean	15.9	15.2	16.2	15.0	12.3	13.9	10.7	13.2	14.0

Table 42: (Continued)

Strain	Millen Monetta		Black- Fayette-		Setartia Auburn		Belle		Clemson		Holly		Heath-
	Ga.	S.C.	ville	S.C.	ville	Ark.	Miss. 1/	Ala. 1/	Ala.	S.C.	Bluff	Miss. 1/	Man
N.41-90	11.6	14.4	10.9	10.9	14.2	9.5	9.5	15.9	16.5	20.0	11.3	12.2	
Ogden	13.8	14.3	11.3	11.3	15.4	11.8	11.8	14.3	16.2	18.5	14.9	12.9	
Volstate	11.7	14.5	11.2	11.2	15.2	8.8	8.8	15.2	16.0	17.0	10.6	11.0	
Tenn. N.P.	16.4	16.5	14.2	14.2	16.5	11.1	11.1	18.2	18.5	18.5	11.5	13.2	
P.I. 89775A	11.6	13.3	12.0	12.0	10.2	9.5	9.5	12.1	14.7	19.0	10.1	-	
Wood's Yellow	19.2	23.1	17.3	17.3	24.0	-	-	27.4	28.3	25.0	14.0	19.2	
Tokyo	20.3	20.8	14.3	14.3	21.3	13.9	13.9	-	21.7	24.0	13.1	16.9	
Mamloxi	14.2	14.0	10.9	10.9	14.1	-	-	17.0	16.2	14.0	-	-	
C.N.S.	11.3	12.9	10.8	10.8	13.6	-	-	13.4	13.1	13.0	9.2	10.2	
Monetta	12.7	11.8	11.5	11.5	13.6	8.7	8.7	13.4	11.3	13.0	8.7	9.1	
Rose N.P.	13.0	14.6	11.9	11.9	12.1	8.5	8.5	13.8	13.6	17.0	11.7	10.4	
Missoy	10.2	11.4	8.1	8.1	10.8	-	-	11.7	12.1	11.5	9.6	8.3	
Auburn #1	11.5	12.3	11.3	11.3	12.6	9.3	9.3	13.9	12.8	12.5	8.7	9.4	
Palmetto	11.1	12.1	8.7	8.7	12.7	-	-	13.4	12.7	11.0	8.7	9.7	
Delsoy	14.9	15.3	12.6	12.6	12.2	9.8	9.8	13.8	14.7	17.5	11.7	10.4	
Mean	13.6	14.8	11.8	11.8	14.6				15.9	16.8			

1/Not included in the mean.

Table 43: Summary of shattering data on strains of the Uniform Test, Group VI, 1944.

Strain	Mean of 13 Tests	Keiser Ark.	Stone- ville Miss.	Mari- anna Ark.	Clarke- dale Ark.	Ply- mouth N.C.	Mc- Cullers N.C.	Stutt- gart Ark.
N.41-90	1.2	1.0	2.0	1.0	1.0	1.0	1.0	1.0
Ogden	1.9	1.0	4.3	1.0	1.0	2.0	2.0	1.0
Volstate	1.6	1.0	2.0	2.0	1.0	1.0	1.0	1.0
Tenn. N.P.	1.5	1.0	2.0	1.0	1.0	1.0	1.0	1.0
P.I. 89775A	1.6	1.0	2.3	1.0	1.0	1.0	1.0	1.0
Wood's Yellow	2.2	1.0	3.8	2.0	2.0	2.0	1.0	2.0
Tokyo	3.2	2.0	5.0	3.0	3.0	4.0	3.0	2.0
Mamloxi	1.4 ^{1/}	1.0	1.8	1.0	1.0	2.0	1.5	1.0
C.N.S.	2.0	3.0	2.5	2.0	1.0	1.0	1.0	1.0
Monetta	3.0	2.0	5.0	5.0	1.0	3.0	3.0	1.0
Rose N.P.	1.2	1.0	1.8	1.0	1.0	1.0	1.0	1.0
Missoy	2.0	1.0	3.8	2.0	1.0	2.0	1.0	1.0
Auburn #1	2.9	2.0	5.0	5.0	1.0	3.0	3.0	1.0
Palmetto	3.3	2.0	5.0	4.0	1.0	4.0	3.0	2.0
Delsoy	2.6	1.0	4.3	5.0	1.0	3.0	2.0	1.0
Mean	2.1	1.4	3.4	2.4	1.2	2.1	1.7	1.2

Strain	Miller Ark.	Fayette- ville Ark.	Setartia Miss.	Auburn Ala.	Clemson S.C.	Holly Bluff Miss.
N. 41-90	1.0	1.0	1.0	3.0	1.0	1.0
Ogden	1.0	2.0	2.0	3.0	3.0	2.0
Volstate	1.0	1.0	1.0	4.0	3.0	2.0
Tenn. N.P.	1.0	1.0	2.0	4.0	2.0	2.0
P.I. 89775A	1.0	1.0	2.0	4.0	4.0	1.0
Wood's Yellow	1.3	1.0	2.0	5.0	3.0	2.0
Tokyo	1.5	2.0	4.0	5.0	4.0	3.0
Mamloxi	1.0	1.0	2.0	4.0	1.0	-
C.N.S.	1.3	2.0	3.0	3.0	2.0	2.0
Monetta	3.0	3.0	3.0	3.0	5.0	2.0
Rose N.P.	1.0	1.0	2.0	2.0	1.0	1.0
Missoy	1.8	1.0	3.0	5.0	1.0	2.0
Auburn #1	2.5	2.0	3.0	3.0	5.0	2.0
Palmetto	3.5	3.0	5.0	5.0	3.0	2.0
Delsoy	1.0	2.0	4.0	3.0	4.0	2.0
Mean	1.5	1.6	2.6	3.7	2.8	1.7

^{1/}Mean of 12 tests.

Table 44: Summary of stand data for the strains in the Uniform Test, Group VI, 1944.

Strain	Mean of 6 Tests	Keiser Ark.	Marianna Ark.	Clarke- dale Ark.	Stutt- gart Ark.	Miller County Ark.	Fayette- ville Ark.
N. 41-90	5.9	4.8	2.8	5.8	9.3	5.5	7.3
Ogden	6.9	6.5	3.4	6.8	9.3	7.3	7.8
Volstate	6.3	4.8	2.6	7.0	9.0	6.8	7.5
Tenn. N.P.	6.9	5.0	3.6	7.0	10.5	7.3	8.0
P.I. 89775A	6.9	5.5	3.4	5.8	10.8	7.3	8.5
Wood's Yellow	6.2	4.8	2.5	5.5	9.0	7.3	7.8
Tokyo	5.7	3.8	2.0	6.5	8.5	6.8	6.8
Mamlqxi	6.6	4.8	3.3	7.0	9.5	6.8	8.0
C.N.S.	6.9	4.3	4.0	6.8	11.0	7.8	7.3
Monetta	6.2	4.3	3.3	4.8	9.8	7.5	7.3
Rose N.P.	6.0	4.3	3.3	5.8	8.3	6.5	8.0
Missoy	6.0	4.8	2.9	5.8	9.3	6.5	6.5
Auburn #1	5.1	3.5	1.8	3.5	9.0	5.8	6.8
Palmetto	6.7	5.8	3.5	5.3	10.0	7.8	7.8
Delsoy	6.8	6.0	2.4	7.5	9.8	7.0	8.3
Mean	6.3	4.9	3.0	6.1	9.5	6.9	7.6

Table 45: Summary of disease ratings on the strains in the Uniform Test, Group VI, 1944.

BACTERIAL PUSTULE

Strain	Mean of		Stone-ville Miss. 2/ Miss. 2/	Mari-anna ark. 3/ ark. 3/	Clarke- dale ark. 1/ ark. 1/	Ply-mouth N.C. 4/ N.C. 4/	Tifton Ga. 2/ Ga. 2/	Willard N.C. 4/ N.C. 4/	Experi- ment Ga. 2/ Ga. 2/
	17 Tests	17 Tests							
Dated	9/17	9/17	av. 7/20 & 8/31	9/9	av. 8/13 & 9/7	8/15	8/17	av. 7/13 & 8/24	
N. 41-90	2.4	1.6	2.5	2.6	3.6	3.0	4.0	3.0	1.9
Ogden	1.9	1.3	2.1	2.0	2.8	2.0	3.0	2.0	2.0
Volstate	2.5	1.3	2.5	2.6	3.8	3.0	4.0	3.5	2.4
Tenn. N.F.	2.7	2.0	2.5	2.6	3.8	3.0	3.0	3.5	2.3
F.I. 89775A	2.7	1.3	2.1	3.0	4.8	3.5	4.0	4.0	2.8
Wood's Yellow	2.0	1.6	2.0	3.0	3.0	2.0	4.0	2.0	2.0
Tokyo	2.0	1.6	2.1	2.3	3.0	2.5	3.0	2.0	2.1
Mamloxi	2.6	2.0	2.4	3.0	4.1	2.5	3.0	3.5	2.8
C.N.S.	1.3	1.3	1.5	1.6	2.3	1.0	2.0	1.0	1.3
Monetta	2.5	1.6	2.4	2.0	3.5	3.0	3.0	4.0	2.9
Rose N.P.	2.7	1.6	2.5	2.6	3.5	4.0	4.0	4.0	2.9
Missoy	2.3	1.6	2.0	1.6	3.5	3.0	3.0	3.0	2.3
Auburn #1	2.7	1.6	2.3	2.6	3.3	3.0	4.0	4.0	2.4
Palmetto	1.9	1.3	1.9	1.6	3.3	1.5	2.0	3.0	2.1
Delsoy	2.6	2.0	2.1	2.6	3.0	3.5	4.0	3.5	2.5
Mean	2.3	1.6	2.2	2.4	3.4	2.7	3.3	3.1	2.3

Table 45: (Continued)

BACTERIAL PUSTULE (cont'd)

Strain	Miller County Ark. 3/	Win- chester Ark. 3/	Richmond Hill Ga. 2/	Watkins- ville Ga. 2/	Millen Ga. 2/	Monetta S.C. 4/	Black- ville S.C. 4/	Fayette- ville Ark. 5/	Baton Rouge La. 2/
Date rated	AV. 8/9	AV. 8/11	8/22	8/22	8/22	8/22	AV. 8/9	AV. 8/9	AV. 7/24
N. 41-90	3.0	2.5	1.0	1.0	1.5	1.5	1.0	2.8	3.7
Ogden	2.7	1.8	1.0	.8	1.0	1.5	1.3	1.8	2.5
Volstate	4.8	2.3	1.0	1.0	1.5	2.0	.8	3.3	3.2
Tenn. N.P.	2.8	2.5	1.3	1.8	3.0	3.2	1.3	4.0	3.1
P.I. 89775A	2.5	2.7	1.5	1.5	2.3	2.2	1.0	3.3	2.8
Wood's Yellow	2.1	2.1	1.0	1.0	1.0	1.5	1.0	2.5	2.5
Tokyo	2.5	2.3	1.0	1.0	1.0	2.2	1.0	2.3	2.8
Mamloxi	3.0	3.1	1.3	1.5	2.3	3.0	1.3	3.3	2.9
C.N.S.	1.8	1.5	1.0	0	.3	1.0	1.0	2.5	1.5
Monetta	3.3	3.3	1.5	1.5	2.0	2.2	1.0	1.7	2.9
Rose N.P.	2.6	2.8	1.5	1.5	1.0	2.5	1.3	3.5	3.5
Missoy	3.0	3.0	1.0	1.5	1.5	2.5	1.0	3.3	2.8
Auburn #1	3.3	4.8	1.3	2.5	2.3	2.2	1.0	2.8	2.1
Palmetto	2.3	2.8	1.0	1.0	1.5	1.8	1.0	2.7	1.9
Delsoy	4.8	2.8	1.3	1.3	1.0	2.2	1.0	3.1	3.5
Mean	3.0	2.7	1.1	1.3	1.5	2.1	1.1	2.9	2.9

Ratings made by:

1/E.M. Cralley, Howard Larsh & J.L. Weimer

2/

J.L. Weimer

3/

E.M. Cralley, Howard Larsh

4/E.E. Hartwig

Table 45: Summary of disease ratings of the strains in the Uniform Tests, Group VI, 1944.

WILDFIRE

Strain	Mean of 6 Tests	Keiser Ark. 1/	Marianna Ark. 3/	Clarke- dale Ark. 1/	Miller County Ark. 3/	Win- chester Ark. 3/	Baton Rouge La. 2/ av. 7/24 & 9/8
Date rated		9/7	9/9	9/7	9/13	9/11	
N. 41-90	1.1	1.3	1.3	1.0	1.3	0	1.7
Ogden	1.1	1.0	1.3	1.0	1.3	1.0	.8
Volstate	1.1	1.3	1.3	1.0	1.3	0	1.4
Tenn. N.P.	1.3	1.3	1.3	1.0	1.3	1.0	1.6
P.I. 89775A	1.1	1.3	1.3	1.3	1.3	0	1.2
Wood's Yellow	1.1	1.0	1.3	1.0	1.3	0	2.2
Tokyo	1.2	1.0	1.3	1.0	1.3	1.0	1.6
Mamloxi	1.3	1.3	1.3	1.0	1.3	1.0	1.7
C.N.S.	1.3	1.3	1.3	1.3	1.3	0	2.4
Monetta	1.4	1.3	1.6	1.6	1.3	1.0	1.4
Rose N.P.	1.1	1.3	1.3	1.0	1.3	0	.9
Missoy	1.1	1.3	1.6	1.0	1.3	0	1.4
Auburn #1	1.4	1.3	1.6	1.3	1.3	1.0	1.3
Palmetto	1.0	1.3	1.3	1.0	1.3	0	1.2
Delsoy	1.1	1.3	1.6	1.0	1.3	0	1.6
Mean	1.2	1.2	1.4	1.1	1.3	.4	1.5

POD AND STEM BLIGHT

Strain	Mean of 6 Tests	Keiser Ark. 1/	Stone- ville Miss. 2/	Marianna Ark. 3/	Clarke- dale Ark. 1/	Miller County Ark. 3/	Win- chester Ark. 3/
Date rated		9/7	8/31	9/9	9/7	9/13	9/11
N. 41-90	1.5	1.6	1.8	1.3	1.6	1.3	1.3
Ogden	1.4	1.3	1.8	1.3	1.3	1.3	1.3
Volstate	1.5	1.6	1.8	1.3	1.6	1.3	1.3
Tenn. N.P.	1.6	1.6	2.0	1.3	2.0	1.3	1.3
P.I. 89775A	1.5	1.6	2.0	1.3	1.6	1.3	1.3
Wood's Yellow	1.4	1.3	1.8	1.3	1.3	1.3	1.3
Tokyo	1.5	1.3	2.0	1.3	1.6	1.3	1.3
Mamloxi	1.4	1.3	1.5	1.3	1.6	1.3	1.3
C.N.S.	1.7	1.6	2.0	2.0	2.0	1.3	1.3
Monetta	1.8	2.0	2.3	1.6	2.3	1.3	1.3
Rose N.P.	1.5	1.3	2.3	1.3	1.6	1.3	1.3
Missoy	1.5	1.6	1.8	1.6	1.6	1.3	1.3
Auburn #1	1.7	2.0	1.8	1.6	2.0	1.3	1.3
Palmetto	1.7	1.6	1.5	2.0	2.3	1.3	1.3
Delsoy	1.5	1.6	2.0	1.0	1.6	1.3	1.3
Mean	1.5	1.6	1.9	1.4	1.7	1.3	1.3

Readings made by:

1/E.M. Cralley, Howard Larsh & J.L. Weimer.

2/J.L. Weimer

3/E.M. Cralley & Howard Larsh.

Table 45: Summary of disease ratings for the strains in the Uniform Test, Group VI, 1944.

CERCOSPORA

Strain	Mean of 5 Tests	Keiser Ark. 1/	Marianna Ark. 2/	Clarke- dale Ark. 1/	Miller County Ark. 2/	Win- chester Ark. 2/
Date rated		9/7	9/9	9/7	9/13	9/11
N.41-90	.4	0	0	1.0	1.0	0
Ogden	.8	0	1.0	1.0	1.0	1.0
Volstate	.6	0	1.0	0	1.0	1.0
Tenn. N.P.	.8	0	1.0	1.0	1.0	1.0
P.I. 89775A	1.3	0	1.3	1.0	2.0	2.0
Wood's Yellow	.6	0	1.0	0	1.0	1.0
Tokyo	.6	1.0	0	0	1.0	1.0
Mamloxi	.4	0	0	0	1.0	1.0
C.N.S.	.2	0	1.0	0	0	0
Monetta	.8	1.0	1.0	0	1.0	1.0
Rose N.P.	.8	0	1.0	1.0	1.0	1.0
Missoy	.8	0	1.0	1.0	1.0	1.0
Auburn #1	.4	0	1.0	0	0	1.0
Palmetto	.2	0	1.0	0	0	0
Delsoy	.6	0	0	1.0	1.0	1.0
Mean	.6	.1	.8	.5	.9	.9

Readings made by:

1/E.M. Cralley, Howard Larsh & J.L. Weimer 2/E.M. Cralley & Howard Larsh.

Table 46: Summary of percentage protein for the strains in the Uniform Test, Group VI, 1944.

Strain	Mean of Flor-		Stone-ville		Clarke-		Ply-		Tifton Fairhope, Ga.		Mc-	
	26 Tests	ence S.C.	ence S.C.	Keiser ark.	ville Miss.	anna ark.	dale ark.	mouth N.C.	Ga.	(1)	(2)	N.C.
N.41-90	40.0	40.2	39.0	37.6	39.5	38.5	43.8	42.9	44.0	44.4	42.1	
Ogden	42.1	40.6	41.1	39.5	40.6	40.5	45.1	45.3	45.5	44.6	48.1	
Volstate	39.9	39.3	39.4	38.1	39.3	38.0	43.3	42.8	43.8	41.8	42.4	
Tenn. N.P.	42.8	41.9	41.9	41.5	42.3	42.6	47.3	45.9	46.2	43.9	44.5	
P.I. 89775A	43.6	42.4	42.5	44.0	44.0	42.5	45.1	45.6	47.9	48.6	44.6	
Wood's Yellow	42.0	40.7	42.1	42.6	42.5	41.4	45.3	45.8	44.9	44.8	40.7	
Tokyo	41.6	41.9	41.9	40.6	41.1	40.4	46.5	45.0	44.5	44.8	44.4	
Mamloxi	42.9	42.8	42.8	44.1	44.6	41.9	46.3	47.3	47.2	47.0	42.5	
C.N.S.	45.0	45.3	45.5	46.9	46.3	45.6	49.7	48.3	48.2	49.0	46.0	
Monetta	43.6	44.6	42.8	43.8	43.1	43.6	48.5	46.4	45.7	46.2	45.5	
Rose N.P.	41.4	41.5	40.4	41.1	41.0	40.3	45.5	42.7	43.5	45.4	44.8	
Missoy	42.2	42.0	43.9	43.7	43.0	41.4	48.5	46.2	45.1	44.1	41.9	
Auburn #1	43.3	43.6	43.2	43.3	43.7	43.6	48.0	44.3	43.7	44.2	44.6	
Palmetto	44.9	45.1	45.2	46.4	45.7	43.5	48.7	47.7	46.9	45.9	43.8	
Delsoy	44.9	43.4	44.4	44.4	44.0	44.4	47.9	46.7	48.3	51.4	48.7	
Mean	42.7	42.4	42.4	42.5	42.7	41.9	46.6	45.5	45.7	45.7	44.3	

Table 46: (Continued)

Strain	Experi-		Stutt-		Miller		Win-		State		Richmond		Watkins-		Monetta	
	Willard	Ga.	ment	Ga.	gart	Ark.	County	Ark.	chester	College	Hill	Ga.	ville	Ga.	Millen	S.C.
N.41-90	40.6	39.9	40.3	35.3	37.6	41.1	44.6	36.8	34.4	42.8						
Ogden	41.9	42.0	44.5	40.9	42.1	42.2	44.9	38.7	38.7	44.4						
Volstate	40.2	40.2	41.1	35.6	37.4	41.8	44.2	36.9	34.9	42.7						
Tenn. N.P.	44.3	41.2	45.0	39.6	41.2	44.2	46.0	40.0	39.2	45.7						
P.I. 89775A	45.3	42.5	43.7	36.6	40.9	43.9	46.8	38.9	41.3	46.4						
Wood's Yellow	43.4	41.2	42.8	38.3	41.6	43.4	46.4	37.3	34.3	45.7						
Tokyo	42.2	40.6	42.3	35.9	39.2	42.9	44.4	35.3	37.9	45.1						
Mamloxi	42.5	42.8	43.8	42.1	42.7	45.3	46.6	41.1	40.6	47.7						
C.N.S.	45.7	44.8	46.9	35.8	41.2	47.5	47.7	39.1	37.2	48.5						
Monetta	43.1	42.3	44.0	37.5	41.0	44.7	47.5	40.1	41.2	46.4						
Rose N.P.	41.5	42.7	42.0	37.8	38.3	41.5	44.1	37.0	38.8	42.7						
Wissoy	43.7	42.9	41.7	33.9	39.6	46.1	45.6	34.1	35.1	44.6						
Auburn #1	42.6	43.2	43.5	38.9	41.2	45.8	46.2	39.9	41.9	46.2						
Palmetto	45.9	44.7	45.0	36.7	41.9	48.8	46.7	39.1	43.1	48.3						
Delsoy	46.1	44.2	46.9	39.4	42.9	45.8	46.5	38.3	43.8	47.2						
Mean	43.3	42.3	43.6	37.6	40.6	44.3	45.9	38.2	38.8	45.6						

Table 46: (Continued)

Strain	Black- Fayette- ville		Setartia		Belle Auburn		Clemson		Holly Bluff		Baton Rouge, La.		Opel- Williams- burg	
	S.C.	Ark.	Miss.	Ala.	Ala.	S.C.	S.C.	Miss.	Miss.	(1)	(2)	Lg.	Vg.	
N.41-90	32.9	42.2	37.1	37.5	38.0	39.6	39.2	35.0	42.1	42.7	42.7	42.7	39.4	
Ogden	35.8	42.4	41.1	38.5	40.2	40.5	40.9	38.3	46.8	42.6	44.6	44.6	41.0	
Volstate	33.3	41.6	37.9	38.5	38.4	39.8	39.6	34.6	42.6	41.3	42.9	42.9	40.4	
Tenn. N.P.	36.2	43.4	39.1	40.6	41.1	41.6	43.6	37.2	42.9	44.4	44.6	44.6	41.9	
P.I. 89775A	41.4	43.3	40.0	39.6	42.6	45.3	42.7	-	44.9	45.7	48.4	48.4	42.3	
Wood's Yellow	35.9	44.0	-	42.6	38.6	41.6	44.3	39.5	44.3	44.9	46.2	46.2	41.0	
Tokyo	33.4	43.7	40.9	-	38.4	43.0	42.1	38.1	44.6	45.1	45.2	45.2	40.9	
Mamloxi	39.8	45.6	-	41.1	43.3	41.5	-	-	-	46.6	-	-	43.0	
C.N.S.	42.7	46.5	-	41.5	41.7	43.9	46.6	41.5	45.6	44.7	48.7	48.7	46.2	
Monetta	38.8	44.7	41.6	41.3	40.5	42.9	43.8	40.0	46.3	44.3	47.4	47.4	44.2	
Rose N.P.	35.6	41.2	36.7	37.7	40.4	42.8	39.4	35.5	44.4	40.6	43.3	43.3	42.1	
Missoy	33.5	44.3	-	40.4	41.7	40.7	45.0	38.3	46.2	44.1	47.6	47.6	45.0	
Auburn #1	38.5	43.8	42.1	42.5	39.7	42.3	43.4	39.5	44.7	46.6	46.3	46.3	43.7	
Palmetto	41.1	49.1	-	45.2	45.1	42.4	47.5	41.7	46.8	46.2	48.7	48.7	44.6	
Delsoy	41.1	44.6	42.6	42.9	43.8	43.9	43.3	38.8	48.2	43.6	48.1	48.1	45.0	
Mean	37.3	44.0	-	-	40.9	42.1	-	-	-	44.2	-	-	42.7	

—/Not included in the mean.

Table 47: Summary of percentage oil for the strains in the Uniform Test, Group VI, 1944.

Strain	Mean of Flor-				Stone- Mari-		Clarke- Fly-		Tifton Fairhope, Ala.		Inc- Cullers	
	26 Tests	ence S.C.	ence S.C.	ence S.C.	ville Miss.	anna Ark.	dale Ark.	mouth N.C.	Ga. (1)	(2)	N.C.	N.C.
N. 41-90	21.9	23.8	21.5	23.0	20.6	20.9	20.1	20.1	21.0	21.2	20.5	22.1
Ogden	20.7	20.8	20.8	21.8	20.2	21.0	19.0	19.0	21.3	20.6	19.9	16.9
Volstate	21.5	22.7	21.8	21.9	20.6	20.5	19.3	19.3	21.5	20.8	20.9	21.2
Tenn. N.P.	20.3	19.7	20.5	20.5	19.1	18.4	18.2	18.2	20.1	18.9	18.7	19.8
P.I. 89775A	19.1	19.4	19.4	19.2	18.5	18.5	18.3	18.3	19.5	17.4	15.8	19.2
Wood's Yellow	19.5	20.7	18.9	20.3	17.9	17.9	17.9	18.3	20.4	19.9	17.9	20.3
Tokyo	20.2	20.4	19.5	21.1	18.6	19.5	18.0	18.0	20.8	19.6	19.3	20.0
Mamloxi	17.8	18.4	18.0	18.2	16.7	17.6	16.9	16.9	18.0	17.3	16.3	18.5
C.N.S.	18.5	18.4	17.8	18.3	17.2	17.7	16.7	16.7	18.6	18.1	16.9	17.8
Monetta	17.0	16.5	16.5	17.0	16.0	16.0	15.6	15.6	17.2	16.5	15.9	17.0
Rose N.P.	20.3	20.4	20.3	21.0	19.7	19.9	18.1	18.1	21.1	20.3	17.9	19.3
Misoy	19.1	18.8	18.1	19.5	17.4	18.5	16.8	16.8	19.6	18.9	18.3	18.7
Auburn #1	17.0	16.6	16.6	17.1	15.9	15.4	15.5	15.5	17.6	17.1	16.7	17.1
Palmetto	17.8	17.8	17.5	17.9	17.1	17.9	16.4	16.4	18.4	17.8	17.4	17.9
Delsoy	17.7	18.1	17.6	17.9	17.6	17.6	16.1	16.1	18.0	16.7	14.4	15.6
Mean	19.2	19.5	19.0	19.6	18.2	18.5	17.6	17.6	19.5	18.7	17.8	18.8

Table 47: (Continued)

Strain	Willard ment		Experi-		Stutt-		Miller		Win-		State		Richmond		Watkins-		Millen		Monetta		Black-	
	N.C.	Ga.	ment	gark.	gark.	ark.	ark.	ark.	ark.	ark.	Miss.	Ga.	Ga.	Ga.	Ga.	Ga.	Ga.	Ga.	S.C.	S.C.	S.C.	S.C.
N.41-90	21.5	22.7	22.7	22.7	22.7	24.3	24.3	23.2	23.2	20.1	20.8	23.7	24.8	20.9	24.5							
Ogden	20.4	20.9	20.9	21.3	21.3	21.2	21.2	21.7	21.7	19.1	20.6	22.8	22.6	19.5	22.4							
Volstate	21.0	22.3	22.3	22.2	22.2	23.3	23.3	22.5	22.5	18.9	20.4	23.5	24.2	20.4	24.2							
Tenn. N.F.	19.6	21.0	21.0	20.4	20.4	21.5	21.5	20.6	20.6	18.5	19.6	21.7	21.6	18.4	22.6							
P.I. 89775A	18.4	20.0	20.0	20.2	20.2	21.3	21.3	20.5	20.5	17.8	18.5	21.3	20.1	17.8	19.9							
Wood's Yellow	19.3	20.2	20.2	20.3	20.3	21.1	21.1	20.1	20.1	18.9	19.7	21.3	22.9	17.2	21.4							
Tokyo	19.9	21.3	21.3	21.1	21.1	22.5	22.5	21.8	21.8	19.3	20.4	22.9	22.0	18.1	23.4							
Mamloxi	18.5	19.4	19.4	18.4	18.4	19.9	19.9	19.8	19.8	17.4	17.9	18.1	19.1	15.7	19.3							
C.N.S.	18.6	19.0	19.0	19.0	19.0	22.3	22.3	19.8	19.8	16.6	18.5	20.7	22.0	17.0	19.6							
Monetta	17.1	17.9	17.9	17.8	17.8	19.2	19.2	17.8	17.8	15.6	15.8	18.7	18.7	15.7	18.8							
Rose N.F.	20.1	20.4	20.4	21.3	21.3	21.3	21.3	21.6	21.6	19.1	20.0	22.9	22.1	19.9	23.2							
Misoy	19.0	19.4	19.4	20.1	20.1	22.7	22.7	20.4	20.4	18.2	19.2	21.3	22.2	17.7	22.1							
Auburn #1	16.9	17.5	17.5	17.9	17.9	18.5	18.5	17.6	17.6	16.0	16.3	18.5	18.4	15.8	19.1							
Palmetto	18.0	18.2	18.2	19.1	19.1	20.7	20.7	19.4	19.4	16.3	18.5	19.9	18.8	16.5	18.6							
Delsoy	17.2	18.6	18.6	18.4	18.4	19.3	19.3	19.2	19.2	15.5	17.4	21.1	18.7	17.7	19.6							
Mean	19.0	19.9	19.9	20.0	20.0	21.3	21.3	20.4	20.4	17.8	18.9	21.2	21.2	17.9	21.2							

Table 47: (Continued)

Strain	Fayetteville ark.	Setartia Miss. L/	auburn ala. L/	Belle Mina ala. S.C.	Holly Bluff Miss. L/	Heath- man Miss. L/	Baton Rouge, La. (1) L/ (2)	Opel- ousas La. L/	Williams- burg Va.
N. 41-90	20.2	21.9	23.9	23.3	22.5	23.4	19.1	18.7	20.5
Ogden	20.2	20.5	23.2	21.5	21.6	21.6	19.8	20.1	19.9
Volstate	20.2	20.6	23.6	22.9	22.6	23.2	18.7	19.0	20.0
Tenn. N.F.	19.1	19.6	22.4	21.4	20.8	22.0	18.0	18.0	19.6
P.I. 89775A	18.2	19.2	21.7	20.1	20.0	-	16.0	17.0	19.1
Wood's Yellow	17.5	-	19.9	21.2	20.0	20.2	17.6	16.7	17.8
Tokyo	19.0	19.8	-	21.4	19.9	21.3	17.8	16.8	19.0
Mamloxi	15.7	-	19.9	18.2	18.6	-	-	15.6	15.7
C.N.S.	17.8	-	20.7	19.9	18.5	19.6	15.8	17.8	16.2
Monetta	16.5	16.4	18.5	18.7	18.5	17.4	12.7	14.7	16.1
Rose N.F.	18.7	20.7	23.1	20.8	21.2	22.2	18.9	18.9	19.6
Missoy	17.7	-	20.2	19.2	19.1	20.2	16.7	17.8	16.2
auburn #1	16.9	16.2	18.2	19.0	17.4	17.4	18.8	15.2	16.2
Palmetto	15.6	-	19.5	18.0	18.6	18.6	13.4	14.6	17.0
Delsoy	17.7	17.6	19.7	18.6	19.5	19.1	16.6	17.2	16.4
Mean	18.1	-	-	20.3	19.9	-	-	17.2	18.0

L/Not included in the mean.

Table 48: Summary of iodine number of oil for the strains in the Uniform Test, Group VI, 1944.

Strain	Mean of		Florence 26 Tests	S.C.	Keiser ark.	Stone- ville Miss.	Mari- anna ark.		Clarke- dale ark.	Fly- mouth N.C.	Tifton Ga.	Fairhope, Ala.		Mc- Cullers N.C.
							(1)	(2)						
N.41-90	132.7	134.4	133.2	132.6	136.5	134.4	137.4	133.2	131.2	132.2	133.6			
Ogden	133.9	137.9	135.7	136.2	138.0	134.4	138.3	133.7	134.3	133.4	134.7			
Volstate	134.2	135.4	133.7	134.5	137.4	136.6	139.1	134.5	134.0	133.9	134.6			
Tenn. N.P.	134.5	135.4	133.2	135.3	134.8	135.6	139.4	133.9	136.1	136.3	134.5			
P.F.I. 89775A	133.3	134.3	133.2	133.7	136.3	134.5	135.4	130.9	132.3	136.0	132.9			
Wood's Yellow	128.5	128.8	130.0	129.1	134.5	133.0	132.9	124.2	122.6	126.6	129.6			
Tokyo	134.7	135.4	134.0	134.6	138.3	136.5	138.7	136.2	135.3	134.4	135.7			
Mamloxi	136.3	136.2	135.4	134.0	137.2	138.0	138.6	134.6	136.3	138.1	138.8			
C.N.S.	129.7	130.0	131.2	128.9	132.6	131.0	130.4	127.1	128.9	128.8	130.4			
Monetta	132.6	133.7	133.5	131.6	137.3	135.0	134.3	132.9	134.5	132.9	132.2			
Rose N.P.	130.3	132.1	130.6	132.3	133.9	132.2	135.1	129.4	129.9	135.1	131.0			
Missoy	132.2	133.0	133.7	128.0	135.3	133.1	133.7	128.0	130.3	133.7	135.7			
auburn #1	133.3	134.5	134.3	132.2	136.9	136.3	135.1	133.2	134.3	132.4	132.4			
Palmetto	130.6	131.8	131.0	127.2	132.6	133.1	132.7	124.6	127.7	131.1	132.9			
Delsoy	133.1	134.7	134.0	135.5	136.6	134.0	136.3	134.0	133.7	136.6	134.5			
Mean	132.7	133.8	133.1	132.4	135.9	134.5	135.8	131.4	132.1	133.4	133.6			

Table 48: (Continued)

Strain	Willard N.C.	Experi- ment Ga.	Stutt- gart ark.	Miller ark.	Win- chester ark.	State College Miss.	Richmond Hill Ga.	watkins- ville Ga.	Millen Ga.	Monetta S.C.	Black- ville S.C.
N. 41-90	135.4	134.5	130.7	127.1	131.6	132.6	131.8	132.8	132.2	127.7	127.7
Ogden	136.8	136.9	131.6	127.2	130.3	137.2	132.6	134.4	125.3	131.0	130.2
Volstate	136.0	135.7	132.2	129.3	132.4	134.3	133.4	134.0	132.8	129.6	130.1
Tenn. N.P.	136.6	137.1	131.8	129.3	133.6	136.6	132.5	134.2	133.4	129.6	130.8
P.I. 897754	134.1	135.3	132.3	129.5	134.3	134.3	129.3	135.4	131.7	128.3	132.9
Wood's Yellow	130.0	129.5	126.9	125.5	127.9	128.9	120.3	130.3	124.9	126.4	124.1
Tokyo	136.2	136.0	131.7	131.5	134.2	133.8	134.4	135.7	132.2	130.3	129.4
Mamloxi	136.7	137.7	135.4	129.3	134.0	134.6	133.2	138.3	134.7	134.1	134.7
C.N.S.	130.9	131.5	127.8	128.3	130.6	129.8	122.3	131.2	127.7	126.0	125.5
Monetta	133.7	132.5	130.7	127.7	132.4	132.9	133.2	133.4	130.6	127.3	129.4
Rose N.P.	132.1	131.6	127.8	125.5	128.4	135.0	125.0	131.5	126.6	125.2	129.3
Missoy	130.4	134.3	131.5	128.0	136.7	126.6	127.5	136.0	130.7	127.1	129.9
Auburn #1	134.3	134.3	130.7	129.4	132.6	134.3	133.4	133.9	131.2	127.5	131.0
Palmetto	131.2	132.2	129.9	128.7	131.5	128.7	126.6	133.0	127.3	126.0	128.2
Delsoy	134.2	134.3	130.8	128.7	131.6	136.9	132.4	133.7	129.4	128.7	131.1
Mean	133.9	134.2	130.8	128.3	132.1	133.1	129.9	133.9	130.0	128.3	129.6

Table 48: (Continued)

Strain	Fayetteville ark.	Setartia Miss. 1/	Suburn Ala. 1/	Belle Mina Ala.	Clemson S.C.	Holly Bluff Miss. 1/	Heath- man Miss. 1/	Baton Rouge, La (1) 1/ (2)	Opel- ousas La.	Williams- burg Va.	
N. 41-90	132.1	129.2	131.1	129.9	132.6	126.6	131.2	136.7	133.2	138.0	139.8
Ogden	128.0	129.2	132.7	134.3	135.8	127.3	134.0	136.0	133.2	137.9	140.5
Volstate	132.3	130.5	132.6	133.0	134.1	127.9	132.6	138.2	137.2	138.6	140.4
Tenn. N.P.	131.6	134.0	135.5	132.2	135.4	130.3	134.5	141.0	137.4	141.1	140.8
P.P.I. 89775A	131.6	132.4	134.2	132.0	132.9	130.3	-	131.8	133.2	132.3	139.3
Wood's Yellow	129.3	-	124.2	129.3	130.0	128.3	129.3	132.1	130.0	135.1	137.3
Tokyo	132.9	133.2	-	134.3	133.7	130.8	134.5	136.3	137.2	141.1	139.1
Mamloxi	138.8	-	136.4	134.8	138.4	-	-	-	137.3	-	143.7
C.N.S.	129.6	-	129.2	132.2	133.7	127.9	130.3	129.2	127.7	132.7	138.8
Monetta	129.4	132.0	132.6	131.2	135.4	129.8	132.6	138.4	129.2	136.3	140.1
Rose N.P.	126.4	130.3	129.4	128.1	130.8	126.3	132.1	125.2	131.1	128.2	131.1
Misoy	134.3	-	134.0	133.7	137.4	128.3	132.5	127.6	125.8	129.9	143.5
Suburn #1	129.6	131.7	133.1	132.2	136.3	129.3	132.5	137.1	132.6	138.7	139.9
Palmetto	133.1	-	130.5	130.8	136.7	126.8	129.9	127.2	125.2	129.9	141.4
Delsoy	129.5	133.5	132.2	131.5	133.7	129.6	135.1	132.8	133.7	136.0	131.1
Mean	131.2	-	-	132.0	134.5	-	-	-	132.3	-	139.1

1/ Not included in the mean.

Table 49: Two-year summary of yields in bushels per acre and yield rank for the strains of the Uniform Test, Group VI, 1943-44.

Strain	Mean of 15 Tests	Stone- ville Miss.	Mc- Cullers N.C.	Flor- ence S.C.	Willard N.C.	Clarke- dale Ark.	Richmond Hill Ga.	Mari- anna Ark.
Volstate	20.5	42.8	29.3	26.7	23.1	22.5	14.4	25.3
Tenn. N.P.	19.0	43.9	22.7	26.4	21.5	21.2	18.2	23.4
P.I. 89775A	18.3	28.6	22.2	22.3	20.2	24.2	20.9	20.8
Monetta	17.0	27.1	24.0	21.2	20.6	18.3	18.2	10.3
Delsoy	15.7	26.7	20.1	26.5	17.9	19.2	15.6	15.3
Mamloxi	15.2	23.5	20.7	20.5	22.5	19.6	11.7	13.8
Auburn #1	15.1	27.7	19.2	16.6	20.3	15.3	13.8	10.9
Missoy	15.0	23.1	18.6	18.3	17.8	16.7	16.2	15.5
Palmetto	14.3	16.1	20.2	16.7	22.6	18.7	19.5	12.3
Mean		28.8	21.9	21.7	20.7	19.5	16.5	16.4

Yield Rank

Volstate	2	1	1	1	2	7	1
Tenn. N.P.	1	3	3	4	3	3	2
P.I. 89775A	3	4	4	7	1	1	3
Monetta	5	2	5	5	7	3	9
Delsoy	6	7	2	8	5	6	5
Mamloxi	7	5	6	3	4	9	6
Auburn #1	4	8	9	6	9	8	8
Missoy	8	9	7	9	8	5	4
Palmetto	9	6	8	2	6	2	7

Table 49: (Continued)

Strain	Experi- ment, Ga.	Millen Ga.	Monetta S.C.	Watkins- ville Ga.	Stutt- gart Ark.	Fair- hope Ala.	Win- chester Ark.	Black- ville S.C.
Volstate	17.5	16.0	19.0	16.3	17.2	13.1	14.5	9.5
Tenn. N.F.	19.0	15.4	13.0	16.1	13.7	9.3	12.3	9.1
P.I. 89775A	17.5	17.7	14.5	15.5	13.5	9.3	15.2	12.8
Monetta	15.4	20.0	16.4	14.2	11.6	13.6	12.6	11.3
Delsoy	15.4	14.7	10.7	14.4	14.8	6.7	11.2	6.1
Mamloxi	20.0	14.1	9.8	11.8	10.8	12.5	10.0	7.3
Auburn #1	10.5	18.9	15.0	12.2	13.3	13.1	12.8	7.3
Missoy	17.9	13.6	12.5	10.0	11.8	13.3	11.5	7.7
Palmetto	10.0	6.4	15.0	11.4	11.2	20.5	8.1	5.9
Mean	15.9	15.2	14.0	13.5	13.1	12.4	12.0	8.6

Yield Rank

Volstate	4	4	1	1	1	4	2	3
Tenn. N.F.	2	5	6	2	3	7	5	4
P.I. 89775A	4	3	5	3	4	7	1	1
Monetta	6	1	2	5	7	2	+	2
Delsoy	6	6	8	4	2	9	7	8
Mamloxi	1	7	9	7	9	6	8	6
Auburn #1	8	2	3	6	5	4	3	6
Missoy	3	8	7	9	6	3	6	5
Palmetto	9	9	3	8	8	1	9	9

UNIFORM TEST, GROUP VII

The Group VII test was composed of eleven named varieties, four of them having been named and released during the past two years. The origin of these varieties and strains is as follows:

Variety or Strain	Source or Originating Agency	Origin
Acadian	La. Agr. Exp. Sta.	Formerly La. 40-290
Avoyelles	La. Agr. Exp. Sta.	Sel. from Otootan
Cherokee	U.S. Dept. of Agr.	P.I. 93057 from Nanchow, China
Delsta	Delta Exp. Sta. Stoneville, Miss.	Station Selection #6677, 1935
Gutan	Ga. Exp. Sta.	Sel. out of Otootan
L.Z.	La. Agr. Exp. Sta.	Formerly La. 40-400
Mamotan 6640	Delta Exp. Sta.	Sel. from a cross (Mam. Yellow X Otootan)
Nanda	U.S. Dept. of Agr.	P.I. 95727 from Shariin, Chosen, 1932
Pelican	La. Agr. Exp. Sta.	
Seminole	U.S. Dept. of Agr.	P.I. 93058 from Nanchow, China
Wood's Yellow	T.W. Wood & Sons	Sel. from Mamoth Yellow

The Uniform Test Group VII was grown at 24 locations in 1944. Yields were taken on only 15 of the tests due largely to defoliation by the velvet bean caterpillar, and to a lesser extent, poor stands. The agronomic and chemical data for the strains in Group VII are summarized in tables 50 through 61. Two year average yields by locations are given in table 62.

General conclusions can hardly be drawn from the Group VII tests since the relatively few tests completed represent widely different sections in the Southern Region. Through the middle and upper South, Mamotan, Nanda and Delsta, are the higher yielding varieties. In the lower South and Southeast, the Louisiana varieties, Pelican, Acadian and L.Z. look promising. In addition to yielding well, the Louisiana varieties shatter very little and are relatively high in both oil and protein.

The Cherokee and Seminole varieties yielded relatively more in the Southeast than at other locations. Attention is called to the extremely high protein content of these varieties.

Many of these varieties and strains yield well when interplanted in corn, a common practice through the lower half of the Southern Region. Since most of the present corn varieties mature in late August and early September, the late maturing soybean varieties may set and mature a good seed crop after corn. The Louisiana strains because of their late flowering habit should be excellent varieties for interplanting in corn.

Table 50: Summary of agronomic and chemical data for the strains of the Uniform Test, Group VII, 1944.

Strain	Mean Yield Bu/a.	Lodg- ing	Plant Height	Matur- ity 1/	Seed Quality	weight of Seed	Shatter- ing	Bacter- ial Pustule	%	Protein	%	Oil	Iodine No.
No. of tests in average	11	14	15	15	9	13	6	6	13	13	13	13	13
Mamotan 6640	21.2	1.5	36	3	1.7	17.6	2.0	2.0	42.7	19.6	134.9		
Pelican	20.6	3.0	53	4	1.4	11.6	1.3	2.6	43.2	20.0	134.8		
Acadian	20.4	2.7	53	2	1.3	12.7	1.7	2.3	43.4	20.0	133.7		
L.Z.	20.0	2.7	53	3	1.8	11.6	1.7	2.4	43.8	19.7	134.6		
Nanda	19.7	1.7	34	1	1.7	17.4	3.1	2.2	41.5	20.8	129.2		
Delsta	19.5	1.5	37	1	1.9	20.0	2.2	2.2	43.5	19.3	129.3		
Wood's Yellow	18.5	1.3	30	0	2.1	23.3	3.1	2.1	42.5	19.6	127.2		
Gatan	17.5	3.6	49	2	1.7	10.0	1.9	2.0	44.0	17.1	137.7		
Avoyelles	16.8	3.9	50	6	2.0	11.4	2.3	1.7	42.1	17.9	136.3		
Cherokee	15.6	2.2	44	5	2.1	18.7	2.3	1.6	46.0	18.4	131.9		
Seminole	15.2	2.6	43	4	2.2	26.0	1.9	2.1	45.0	19.6	130.5		
Mean	18.6	1.4	44		1.8	16.4	2.1	2.1	43.4	19.3	132.7		

1/ Days earlier (-) or later than Wood's Yellow. Wood's Yellow required an average of 169 days to mature.

Table 51: Summary of yields in bushels per acre and yield rank for the strains in the Uniform Test, Group VII, 1944.

Strain	Mean of 11 Tests	Ray- mond Miss.	Mari- anna Ark.	Tifton Ga.	Mc- Cullers N.C.	Experi- ment Ga.	Stone- ville Miss.	Clarke- dale Ark.
Mamotan 6640	21.2	27.9	25.1	24.0	25.7	23.2	29.9	25.6
Pelican	20.6	30.0	27.3	28.7	22.9	22.3	24.6	17.6
Acadian	20.4	27.2	23.0	30.6	22.3	22.7	26.0	14.3
L.Z.	20.0	30.7	23.0	30.0	20.5	21.8	20.3	19.6
Nanda	19.7	23.2	31.5	22.4	23.5	18.7	23.9	23.8
Delsta	19.5	23.8	30.7	22.5	24.7	20.4	22.6	22.5
Wood's Yellow	18.5	23.9	28.2	15.8	23.2	20.5	18.3	26.8
Gatan	17.5	21.1	23.1	20.4	18.4	18.4	17.4	14.2
Avoyelles	16.8	20.5	22.7	23.8	16.8	18.3	17.1	18.4
Cherokee	15.6	19.1	20.4	22.4	16.0	20.4	8.6	18.6
Seminole	15.2	22.5	14.6	24.4	17.3	18.9	9.1	12.9
Mean	18.6	24.5	24.5	24.1	21.0	20.5	19.8	19.5
Coef. of var. (%)		15.4	18.6	11.1	14.0	13.6	21.2	31.7
Bu. Nec. for Sig. (5%)		5.5	6.6	3.9	6.4	4.0	6.1	8.9

Yield Rank

Mamotan 6640	3	5	5	1	1	1	2
Pelican	2	4	3	5	3	3	8
Acadian	4	7	2	6	2	2	9
L.Z.	1	7	1	7	4	6	5
Nanda	6	1	9	3	9	4	3
Delsta	7	2	7	2	6	5	4
Wood's Yellow	5	3	11	4	5	7	1
Gatan	9	6	10	8	10	8	10
Avoyelles	10	9	6	10	11	9	7
Cherokee	11	10	8	11	6	11	6
Seminole	8	11	4	9	8	10	11

Table 51: (Continued)

Strain	Stutt- gart Ark.	Millen Ga.	Richmond Hill Ga.	Monetta S.C.	Hope Ark. 2/	Auburn Ala.	Baton Rouge La. 2/	Opelousas La. 2/
Mamotan 6640	17.7	15.3	13.0	5.9	17.1		10.5 3/	6.3
Pelican	18.2	14.5	16.4	5.0	12.9	22.7	21.0	20.2
Acadian	17.1	17.8	15.9	7.7	11.2	23.6	20.3	21.0
L.Z.	17.6	16.0	15.9	4.3	13.4	19.3	23.1	26.0
Nanda	20.7	12.9	8.4	9.3	21.3	12.8	16.1	15.8
Delsta	18.7	12.0	9.7	6.9	15.7	-	8.5	11.2
Wood's Yellow	21.3	9.5	8.6	7.4	20.2	-	-	-
Gatan	20.4	19.8	8.9	10.0	-	20.1	7.8	6.2 3/
Avoyelles	13.8	16.6	15.4	1.8	10.7	19.9	19.5	22.5
Cherokee	15.0	9.4	16.9	4.4	-	-	-	6.9
Seminole	14.7	15.4	10.9	6.8	8.2	-	10.2	5.0
Mean	17.8	14.5	12.7	6.3				
Coef of var. (%)	12.1	17.6	30.9	30.2				
Bu. Nec for Sig. (5%)	3.1	3.7	5.7	2.7				

Yield Rank

Mamotan 6640	6	6	6	7
Pelican	5	7	2	8
Acadian	8	2	3	3
L.Z.	7	4	4	10
Nanda	2	8	11	2
Delsta	4	9	8	5
Wood's Yellow	1	10	10	4
Gatan	3	1	9	1
Avoyelles	11	3	5	11
Cherokee	9	11	1	9
Seminole	10	5	7	6

1/ Average of two replications.

2/Not included in the mean.

3/ Average of three replications.

Table 52: Summary of lodging data for the strains in the Uniform Test, Group VII, 1944.

Strain	Mean of 14 Tests	Ray- mond Miss.	Mari- anna Ark.	Mc- Cullers N.C.	Experi- ment Ga.	Stone- ville Miss.	Clarke- dale Ark.	Stutt- gart Ark.
Mamotan 6640	1.5	1.0	1.0	1.0	1.0	2.0	2.5	1.3
Pelican	3.0	1.0	4.0	3.0	2.0	3.5	4.5	4.0
Acadian	2.7	1.0	3.5	2.0	2.5	3.8	3.5	3.3
L.Z.	2.7	1.0	3.5	2.0	2.5	3.5	4.0	4.0
Nanda	1.7	1.0	2.0	1.0	1.0	2.5	3.0	1.8
Delsta	1.5	1.0	1.3	1.0	1.0	2.0	2.5	1.3
Wood's Yellow	1.3	1.0	1.0	1.0	1.0	2.0	2.0	1.3
Avoyelles	3.9	4.0	5.0	5.0	2.5	4.0	5.0	4.8
Gatan	3.6	2.0	5.0	4.0	2.5	4.0	5.0	4.5
Cherokee	2.2	1.0	3.8	2.0	1.0	2.3	4.5	3.5
Seminole	2.6	1.0	5.0	3.0	1.0	3.0	5.0	4.5
Mean	2.4	1.4	3.2	2.3	1.6	3.0	3.8	3.1

Strain	Win- chester Ark.	Mc- Cullers N.C.	Clemson S.C.	Hope Ark.	Auburn Ala.	Baton Rouge La.	Opelousas La.
Mamotan 6640	1.0	1.0	2.0	1.0	1.2	3.0	2.0
Pelican	1.5	3.0	4.0	1.5	2.0	4.0	4.0
Acadian	1.5	2.0	3.0	1.5	1.8	4.0	4.0
L.Z.	1.0	2.0	3.0	1.0	2.0	4.0	4.0
Nanda	1.0	1.0	2.0	1.0	1.0	3.0	2.0
Delsta	1.0	1.0	2.0	1.0	1.2	3.0	2.0
Wood's Yellow	1.0	1.0	1.0	1.0	1.0	2.0	2.0
Avoyelles	1.7	5.0	5.0	1.7	3.0	4.0	4.0
Gatan	1.0	4.0	5.0	1.0	2.0	5.0	5.0
Cherokee	1.0	2.0	2.0	1.0	1.0	3.0	2.0
Seminole	1.0	3.0	3.0	1.0	1.8	2.0	2.0
Mean	1.2	2.3	2.9	1.2	1.6	3.4	3.0

Table 53: Summary of height data for the strains in the Uniform Test, Group VII, 1944.

Strain	Mean of 15 Tests	Mari- anna Ark.	Tifton Ga.	Mc- Cullers N.C.	Experi- ment Ga.	Stone- ville Miss.	Clarke- dale Ark.
Mamotan 6640	36	39	31	42	34	46	46
Pelican	53	61	52	60	46	60	69
Acadian	53	69	53	60	54	59	59
L.Z.	53	68	53	60	52	60	66
Nanda	34	36	34	38	33	38	51
Delsta	37	42	37	36	38	52	50
Wood's Yellow	30	34	27	32	31	39	44
Gatan	49	71	50	60	50	62	65
Avoyelles	50	70	45	60	46	58	72
Cherokee	44	49	44	52	42	52	57
Seminole	43	60	38	48	42	49	68
Mean	44	54	42	50	43	52	59

Strain	Stutt- gart Ark.	Millen Ga.	Richmond Hill Ga.	Win- chester Ark.	Mc- Cullers N.C.	Clemson S.C.	Baton Rouge Ala.	Opel- ousas La.
Mamotan 6640	30	26	28	39	42	28	30	36
Pelican	50	41	44	40	60	48	48	56
Acadian	47	43	46	44	60	48	48	50
L.Z.	45	42	45	42	60	42	42	58
Nanda	28	23	26	30	38	33	28	36
Delsta	34	28	32	38	36	34	30	34
Wood's Yellow	30	24	24	29	32	27	26	28
Gatan	43	42	43	35	60	48	42	30
Avoyelles	42	40	42	40	60	42	42	46
Cherokee	37	33	39	32	52	36	36	48
Seminole	35	33	36	38	48	35	36	38
Mean	38	34	37	37	50	38	37	42

Table 54: Summary of the maturity data for the strains in the Uniform Test,
Group VII, 1944.^{1/}

Strain	Mean of 15 tests	Raymond Miss.	Marianna Ark.	Tifton Ga.	Mc Cullers N.C.	Experi- ment Ga.	Stone- ville Miss.	Clarke- dale Ark.
Mamotan 6640	3	-9	0	10	4	10	0	0
Pelican	4	0	0	8	9	15	1	0
Acadian	2	-20	0	7	9	15	0	0
L.Z.	3	-10	0	7	9	15	1	0
Nanda	1	0	0	1	2	0	-1	0
Delsta	1	-9	0	6	4	0	0	0
Wood's Yellow	0	0	0	0	0	0	0	0
Gatan	2	-20	0	6	9	15	0	0
Avoyelles	6	15	0	7	13	15	3	0
Cherokee	5	-10	0	7	9	10	0	0
Seminole	4	15	0	1	4	10	0	0
Date Planted		5/18	5/18	5/12	4/27	5/17	5/2	5/9
Wood's Yellow matured		10/10	11/9	10/17	10/28	10/10	10/30	11/10
Days to maturity		145	175	158	184	164	181	185

Strain	Stutt- gart Ark.	Millen Ga.	Richmond Hill Ga.	Win- chester Ark.	Clemson S.C.	Auburn Ala.	Baton Rouge La.	Opel- ousas La.
Mamotan 6640	0	4	3	7	4	7	5	0
Pelican	0	-1	4	7	4	7	12	0
Acadian	0	0	3	7	4	7	8	-7
L.Z.	0	0	4	7	4	7	10	-2
Nanda	0	-1	0	0	0	0	12	-
Delsta	0	2	3	7	4	7	-5	-12
Wood's Yellow	0	0	0	0	0	0	0	0
Gatan	0	-1	2	7	4	7	2	-7
Avoyelles	3	5	8	7	4	7	5	-7
Cherokee	0	0	8	7	17	7	16	0
Seminole	0	0	1	7	4	7	5	0
Date Planted	5/26	5/16	5/16	5/17	6/24	5/15	4/21	4/28
W.Y. matured	10/26	10/25	10/22	10/23	10/28	10/28	10/20	11/1
Days to maturity	153	162	159	159	126	167	182	187

^{1/}Days earlier (-) or later than Wood's Yellow. Wood's Yellow
matured in 159 days.

Table 55: Summary of seed quality data of the strains of the Uniform Test, Group VII, 1944.

Strain	Mean of 9 Tests	Marianna Ark.	Mc- Cullers N.C.	Experi- ment Ga.	Stone- ville Miss	Clarke- dale Ark.	Stutt- gart Ark.
Mamotan 6640	1.7	1.0	1.0	1.0	2.1	3.0	2.0
Pelican	1.4	1.0	1.0	1.0	2.0	2.0	1.0
Acadian	1.3	1.0	1.0	1.0	2.0	2.0	1.0
L.Z.	1.8	1.0	2.0	1.0	2.5	2.0	2.0
Nanda	1.7	1.0	2.0	1.0	2.3	1.0	2.0
Delsta	1.9	1.0	2.0	1.0	2.1	3.0	1.0
Wood's Yellow	2.1	1.0	2.0	1.0	2.0	3.0	2.0
Gatan	1.7	2.0	2.0	1.0	2.0	2.0	1.0
Avoyelles	2.0	1.0	2.0	1.0	3.1	2.0	2.0
Cherokee	2.1	2.0	2.0	1.0	3.5	1.0	3.0
Seminole	2.2	1.0	2.0	1.0	3.9	2.0	3.0
Mean	1.8	1.2	1.7	1.0	2.5	2.1	1.8

Strain	Win- chester Ark.	Mc- Cullers N.C.	Clemson S.C.	Hope Ark. ^{1/}	Auburn Ga. ^{1/}	Baton Rouge La. ^{1/}	Opelousas La. ^{1/}
Mamotan 6640	2.0	1.0	2.0	2.0	2.0	5.0	3.0
Pelican	2.0	1.0	2.0	2.0	1.0	2.0	2.0
Acadian	1.0	1.0	2.0	1.0	1.0	1.0	2.0
L.Z.	2.0	2.0	2.0	2.0	2.0	1.0	2.0
Nanda	2.0	2.0	2.0	2.0	2.0	5.0	4.0
Delsta	3.0	2.0	2.0	3.0	2.0	5.0	5.0
Wood's Yellow	4.0	2.0	2.0	-	3.0	-	-
Gatan	1.0	2.0	2.0	1.0	1.0	2.0	1.0
Avoyelles	3.0	2.0	2.0	3.0	1.0	1.0	2.0
Cherokee	2.0	2.0	2.0	2.0	3.0	-	5.0
Seminole	3.0	2.0	2.0	3.0	-	5.0	5.0
Mean	2.3	1.7	2.0	-	-	-	-

^{1/} Not included in the mean.

Table 56: Summary of seed weight in grams per 100 seeds for the strains in the Uniform Test, Group VII, 1944.

Strain	Mean of 13 Tests	Ray- mond Miss.	Marianna Ark.	Tifton Ga.	Experi- ment Ga.	Stone- ville Miss.	Clarke- dale Ark.	Stutt- gart Ark.
Mamotan 6640	17.6	17.5	17.8	18.7	17.8	15.8	18.2	15.1
Pelican	11.6	10.6	12.6	12.3	11.7	10.5	13.2	10.0
Acadian	12.7	17.6	12.8	12.7	12.3	11.3	13.8	10.3
L.Z.	11.6	10.9	12.8	11.8	11.7	10.6	12.9	9.6
Nanda	17.4	17.7	19.2	19.8	17.5	16.1	20.8	16.4
Delsta	20.0	20.6	21.2	20.8	20.5	18.5	20.9	17.9
Wood's Yellow	23.3	19.8	25.7	25.3	25.7	21.5	25.4	23.8
Gatan	10.0	8.6	10.2	9.8	10.1	9.2	11.9	9.1
Avoyelles	11.4	10.6	11.4	12.0	11.6	10.4	13.0	9.8
Cherokee	18.7	18.4	20.2	20.5	19.6	17.4	22.0	17.1
Seminole	26.0 ^{1/}	28.2	26.2	30.1	30.0	21.2	29.1	24.5
Mean	16.4	16.4	17.3	17.6	17.1	14.8	18.3	14.9

Strain	Millen Ga.	Richmond Hill Ga.	Monetta N.C.	Auburn Ala.	Mc- Cullers N.C.	Miller County Ark.
Monetta 6640	16.6	15.5	17.8	21.2	19.5	17.0
Pelican	10.8	11.2	11.3	12.5	13.0	11.0
Acadian	11.7	11.6	12.7	13.0	13.3	11.6
L.Z.	11.1	11.2	11.8	12.8	12.3	10.8
Nanda	15.6	14.4	16.5	19.2	18.1	15.2
Delsta	17.5	17.7	18.9	24.0	22.0	19.8
Wood's Yellow	20.6	19.2	22.3	28.2	25.0	20.8
Gatan	10.5	9.0	10.6	10.4	11.6	9.2
Avoyelles	12.2	10.5	11.1	12.2	12.4	11.3
Cherokee	14.7	16.2	16.6	20.3	19.3	20.4
Seminole	23.2	24.7	27.1	-	24.2	23.6
Mean	15.0	14.7	16.1	17.4	17.3	15.5

^{1/} Average of 12 locations.

Table 57: Summary of shattering data for the strains in the Uniform Test, Group VII, 1944.

Strain	Mean of 6 Tests	Mari- anna Ark.	Stone- ville Miss.	Clarke- dale Ark.	Stutt- gart Ark.	Clemson S.C.	Auburn Ala.
Mamotan 6640	2.0	1.0	3.0	1.0	1.0	1.0	5.0
Pelican	1.3	1.0	1.0	1.0	1.0	1.0	3.0
Acadian	1.7	1.0	2.0	1.0	1.0	1.0	4.0
L.Z.	1.7	1.0	2.0	1.0	1.0	1.0	4.0
Nanda	3.1	2.5	4.0	2.0	2.0	3.0	5.0
Delsta	2.2	1.0	5.0	1.0	1.0	2.0	5.0
Wood's Yellow	3.1	2.5	4.0	2.0	2.0	3.0	5.0
Gatan	1.9	1.5	2.0	1.0	1.0	1.0	5.0
Avoyelles	2.3	1.0	3.0	1.0	2.0	2.0	5.0
Cherokee	2.3	1.0	5.0	1.0	1.0	1.0	5.0
Seminole	1.9	1.5	2.0	1.0	1.0	1.0	5.0
Mean	2.1	1.4	2.8	1.2	1.3	1.5	4.6

Table 58: Summary of disease ratings of the strains in the Uniform Test, Group VII, 1944.

BACTERIAL PUSTULE AND BLIGHT

Strain	Mean of 6 Tests	Tifton Ga.	Experi- ment Ga.	Stone- ville Miss.	Millen Ga.	Richmond Hill Ga.	Baton Rouge La.
Date Rated		8/11	av. 7/13 & 8/24	av. 8/30 & 7/20	8/8	8/10	av. 7/24 & 9/8
Mamotan 6640	2.0	3.0	2.1	2.0	1.0	1.0	2.9
Pelican	2.6	4.0	2.4	1.8	2.5	1.8	2.9
Acadian	2.3	4.0	2.1	1.8	1.5	1.5	2.6
L.Z.	2.4	4.0	2.3	1.8	2.0	1.0	3.0
Nanda	2.2	4.0	2.0	1.1	1.5	1.3	3.5
Delsta	2.2	3.8	2.0	2.0	1.3	1.0	2.9
Wood's Yellow	2.0	3.8	1.5	2.0	1.0	1.5	2.0
Gatan	2.0	3.3	2.3	1.8	1.3	1.0	2.3
Avoyelles	1.7	2.0	1.6	1.8	1.5	1.3	1.8
Cherokee	1.6	2.0	1.3	1.8	1.0	1.0	2.3
Seminole	2.1	3.3	1.9	1.9	1.5	1.3	2.9
Mean	2.1	3.4	2.0	1.8	1.5	1.2	2.6

Table 59: Summary of the percentage protein for the strains in the Uniform Test, Group VII, 1944.

Strain	Mean of 13 Tests	Ray- mond Miss.	Marianna Ark.	Tifton Ga.	Experi- ment Ga.	Stone- ville Miss.	Clarke- dale Ark.	Stutt- gart Ark.
Mamotan 6640	42.7	43.0	43.7	45.0	42.5	41.4	42.1	43.1
Pelican	43.2	44.0	41.8	46.1	42.2	42.6	42.5	44.7
Acadian	43.4	45.5	42.3	46.9	42.1	43.1	43.1	44.7
L.Z.	43.8	43.4	43.8	46.1	42.5	44.1	42.6	44.7
Nanda	41.5	40.9	41.5	43.7	40.1	40.9	41.9	42.4
Delsta	43.5	43.4	44.2	48.7	42.1	42.6	42.8	44.1
Wood's Yellow	42.5	43.9	42.8	47.2	41.4	42.3	41.5	43.3
Gatan	44.0	43.4	44.5	44.9	43.7	44.5	45.0	42.6
Avoyelles	42.1	42.1	41.2	43.7	41.2	43.0	42.1	42.5
Cherokee	46.0	46.1	46.5	49.4	46.1	46.3	44.1	48.0
Seminole	45.0 ^{1/}	46.2	45.2	47.2	44.9	44.9	45.1	47.7
Mean	43.4	43.8	43.4	46.3	42.6	43.2	43.0	44.3

Strain	Millen Ga.	Richmond Hill Ga.	Monetta S.C.	Auburn Ala.	Mc- Cullers N.C.	Miller County Ark.	Baton Rouge La. ^{2/}	Opelousas La. ^{2/}
Mamotan 6640	36.6	44.4	47.7	41.3	41.7	43.1	46.7	46.4
Pelican	41.6	44.1	46.8	42.7	42.6	39.4	45.6	45.2
Acadian	41.0	44.5	46.6	41.9	41.5	40.4	45.2	46.0
L.Z.	42.6	45.6	47.6	43.5	43.1	39.7	44.7	45.5
Nanda	37.5	45.6	45.2	39.2	41.0	39.5	43.5	44.6
Delsta	37.0	45.6	45.6	43.3	42.0	44.4	-	46.8
Wood's Yellow	34.7	46.2	45.6	41.6	39.6	42.4	-	-
Gatan	43.8	44.6	45.2	44.4	44.9	40.4	44.8	45.6
Avoyelles	39.6	43.8	45.5	41.1	41.9	40.0	43.7	43.1
Cherokee	38.7	47.1	48.8	46.0	45.6	45.3	-	46.1
Seminole	39.9	45.8	49.3	-	44.7	39.5	47.2	47.5
Mean	39.4	45.2	46.7	42.5	42.6	41.3	-	-

^{1/}Only 12 tests in average.

^{2/}Not included in the mean.

Table 60: Summary of the percentage oil for the strains in the Uniform Test, Group VII, 1944.

Strain	Mean of 13 Tests	Ray- mond Miss.	Marianna Ark.	Tifton Ga.	Experi- ment Ga.	Stone- ville Miss.	Clarke- dale Ark.	Stutt- gart Ark.
Mamotan 6640	19.6	20.1	18.2	20.5	19.7	20.3	18.5	19.9
Pelican	20.0	20.2	19.2	19.9	20.2	20.2	18.8	19.8
Acadian	20.0	19.8	18.9	19.7	20.1	20.5	18.5	19.6
L.Z.	19.7	20.0	18.3	19.4	20.0	19.8	19.0	19.7
Nanda	20.8	21.8	20.0	22.0	21.0	21.5	18.7	21.2
Delsta	19.3	19.9	17.9	20.1	19.5	19.9	18.2	19.6
Wood's Yellow	19.6	20.0	17.9	19.6	20.0	20.1	18.2	20.0
Gatan	17.1	17.5	15.9	17.3	17.1	17.4	16.1	17.3
Avoyelles	17.9	18.4	17.6	19.1	18.2	18.5	17.2	17.9
Cherokee	18.4	18.5	17.1	18.4	18.3	18.3	17.7	18.7
Seminole	19.6 ^{1/}	19.7	17.9	20.9	18.9	20.0	17.9	20.0
Mean	19.3	19.6	18.1	19.7	19.4	19.7	18.1	19.4

Strain	Millen Ga.	Richmond Hill Ga.	Monetta S.C.	Auburn Ala.	Mc- Cullers N.C.	Miller County Ark.	Baton Rouge La. ^{2/}	Opelou- sas La. ^{2/}
Mamotan 6640	21.1	20.4	16.0	20.8	19.5	19.3	15.4	16.8
Pelican	21.5	20.4	18.0	20.7	20.0	21.3	17.2	18.7
Acadian	21.7	20.3	18.5	21.1	20.1	20.9	17.7	18.4
L.Z.	21.0	20.1	17.7	20.3	19.8	20.8	17.8	17.7
Nanda	22.4	20.4	17.7	22.0	20.4	21.5	18.8	17.6
Delsta	22.1	19.9	16.4	19.8	19.1	18.9	-	15.6
Wood's Yellow	23.3	19.2	16.1	20.5	19.4	20.7	-	-
Gatan	17.6	17.3	16.1	17.3	17.0	17.9	15.9	16.4
Avoyelles	18.5	18.5	14.5	18.8	17.5	17.9	16.3	18.0
Cherokee	21.3	19.1	16.3	18.4	17.8	18.8	-	15.1
Seminole	21.3	20.7	17.1	-	19.3	20.9	14.7	16.4
Mean	21.1	19.7	16.8	20.0	19.1	19.9	-	-

^{1/}Only 12 tests in average.

^{2/}Not included in mean.

Table 61: Summary of iodine number of oil for the strains in the Uniform Test, Group VII, 1944.

Strain	Mean of 13 Tests	Ray- mond Miss.	Marianna Ark.	Tifton Ga.	Experi- ment Ga.	Stone- ville Miss.	Clarke- dale Ark.	Stutt- gart Ark.
Mamotan 6640	134.9	132.1	136.9	135.3	136.9	135.0	136.7	134.6
Pelican	134.8	131.7	136.3	133.6	137.2	132.6	136.2	133.7
Acadian	133.7	130.3	136.3	132.4	136.1	131.5	134.7	132.9
L.Z.	134.6	132.1	136.0	134.6	136.3	132.6	134.7	133.9
Nanda	129.2	127.5	135.6	126.5	131.1	131.3	133.2	130.2
Delsta	129.3	126.9	132.6	127.3	131.6	130.6	132.9	127.6
Wood's Yellow	127.2	126.4	133.2	124.2	129.4	129.2	132.6	126.4
Avoyelles	136.3	133.2	138.0	132.5	138.6	133.4	138.0	135.5
Gatan	137.7	134.0	140.0	137.4	139.9	135.1	140.0	137.4
Cherokee	131.9	129.7	133.1	130.0	134.7	130.6	133.6	129.5
Seminole	130.5 ^{1/}	128.4	135.7	128.3	133.4	130.4	135.4	128.3
Mean	132.7	130.2	135.8	131.1	135.0	132.0	135.3	131.8

Strain	Millen Ga.	Richmond Hill Ga.	Monetta S.C.	Auburn Ala.	Mc- Cullers N.C.	Miller County Ark.	Baton Rouge La. ^{2/}	Opel- ousas La. ^{2/}
Mamotan 6640	134.3	134.0	133.3	133.9	137.8	133.1	138.7	135.4
Pelican	134.0	135.0	132.6	136.6	138.7	134.7	134.1	131.4
Acadian	133.1	133.4	130.9	135.7	137.6	133.2	133.0	130.9
L.Z.	134.6	135.1	132.3	135.5	138.6	133.8	133.4	133.2
Nanda	125.9	122.8	126.7	127.7	132.5	128.3	129.9	131.3
Delsta	127.2	126.0	129.4	127.0	133.7	127.6	-	134.5
Wood's Yellow	124.4	119.9	128.0	125.2	130.3	125.1	-	-
Avoyelles	136.3	135.7	138.3	136.0	141.2	134.7	135.4	133.6
Gatan	136.9	138.2	133.1	139.6	141.3	137.2	130.3	133.2
Cherokee	131.6	131.0	130.1	133.0	137.4	129.9	-	135.5
Seminole	129.2	129.1	130.3	-	137.2	130.6	139.0	135.6
Mean	131.6	130.9	131.4	133.0	136.0	131.7	-	-

^{1/}Only 12 tests in average.

^{2/}Not included in the mean.

Table 62: Two-year summary of yield in bushels per acre, and yield rank for the strains in the Uniform Test, Group VII, 1943-1944

Strain	Mean of 13 Tests	Stoneville Miss.	McCullers N.C.	Tifton Ga.	Experiment Ga.	Marianna Ark.	Miller County Ga.	Richmond Hill Ga.	Clarkedale Ark.	Monetta S.C.	Stuttgart Ark.
Mamotan 6640	17.4	30.4	27.1	16.4	17.6	16.2	12.6	13.2	17.0	13.9	9.3
Nanda	17.2	27.7	26.1	17.4	15.7	20.2	13.5	11.7	16.9	12.0	10.6
Delsta	17.2	29.1	24.5	16.6	17.1	20.1	15.7	13.5	14.7	10.9	9.9
Acadian	16.5	24.3	22.3	21.6	16.6	12.9	19.5	16.7	10.7	11.7	9.0
Wood's Yellow	16.2	24.4	24.2	14.2	17.9	18.8	11.1	11.3	16.9	11.1	12.3
Pelican	16.1	22.5	23.9	19.1	15.8	16.7	14.9	13.4	12.4	10.6	11.2
L.Z.	15.8	20.3	24.8	23.0	16.2	13.5	11.4	14.4	13.9	10.2	10.1
Seminole	13.1	14.5	15.8	21.0	15.5	8.5	15.5	13.7	8.3	10.3	7.6
Avoyelles	12.6	18.4	15.4	15.7	14.0	12.8	12.1	13.3	10.1	7.4	7.0
Mean	23.5	22.7	18.3	16.3	15.5	14.0	13.5	13.4	10.9	9.7	

	Yield Rank	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Mamotan 6640		1	3	2	4	7	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Nanda		1	3	2	4	7	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Delsta		1	3	2	4	7	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Acadian		1	3	2	4	7	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Wood's Yellow		1	3	2	4	7	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Pelican		1	3	2	4	7	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
L.Z.		1	3	2	4	7	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Seminole		1	3	2	4	7	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Avoyelles		1	3	2	4	7	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

DATES OF PLANTING TESTS

Dates of planting tests were conducted at 10 locations in the Southern States in 1944. The varieties in the dates of planting varied from the Group III and IV varieties at Orange and Blacksburg, Virginia, to Group VII varieties in the Lower South. The agronomic and chemical data from the tests are summarized in tables 63 to 67.

In general, mid-season planting dates have given the best yields, although yields of all plantings up through mid-season have been good. Late plantings at Blacksburg, Virginia, and Stillwater, Oklahoma, were unusually productive. At other locations, yields usually decreased with late June and early July plantings. Consistent differences in the yield response of varieties to dates of planting are not apparent from the data. The oil and protein content of the seed of the varieties was not consistently reduced or increased by date of planting, except where very late planting resulted in extremely low yields. In these instances the seed of the lower yielding varieties was lower in oil and higher in protein than the same varieties at earlier dates of planting. All varieties did not respond the same with respect to iodine number of the oil. Only at Orange, Virginia, did the iodine number of the oil of all varieties increase with the later dates of planting.

Table 63: Summary of yields in bushels per acre of the varieities of the Dates of Planting Test, 1944.

Variety	Mean Yield	Date Planted							
		APRIL		MAY		JUNE		JULY	
		1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-
<u>Blacksburg, Va.</u>									
Scioto	29.2		26.2	31.0	32.5	27.0			
Lincoln	24.8		22.1	20.3	25.2	28.7			
Dunfield	25.0		25.4	25.5	22.2	27.0			
Patoka	24.2		21.8	23.6	28.4	25.5			
Mean			23.9	25.1	27.2	27.1			
<u>Orange, Va.</u>									
Gibson	34.0		37.0	37.4	34.2	27.3			
Patoka	29.5		27.6	29.3	29.1	31.8			
Macoupin	31.1		32.7	32.5	33.2	26.1			
S100	37.7		41.7	42.7	35.1	31.3			
Mean			34.8	35.5	32.9	29.2			
<u>Williamsburg, Va.</u>									
Ogden	14.2			16.6	15.1	12.1	13.1		
Tokyo	14.9			17.9	17.4	12.1	12.1		
Volstate	15.4			19.0	15.9	12.6	13.9		
Wood's Yellow	13.1			13.6	13.7	12.9	12.1		
Mean				16.8	15.5	12.4	12.8		
<u>Knoxville, Tenn.</u>									
Macoupin	12.6		10.7	12.7	14.5				
Ogden	21.4		21.8	20.1	22.3				
Volstate	22.7		23.6	23.1	21.3				
Mean			18.7	18.6	19.4				
<u>Stillwater, Okla.</u>									
S100	15.9		11.0	13.7	17.4	18.7	19.0		
Arksoy	17.0		15.4	17.4	13.5	15.7	18.1		
Ogden	16.5		14.9	15.4	16.3	16.7	19.4		
Volstate	11.4		11.8	10.2	9.4	10.7	14.9		
Mean			13.3	14.2	15.4	15.5	17.9		
<u>Clarkedale, Ark.</u>									
S100	18.1			15.5	24.3	29.9	11.5	9.3	
Arksoy	17.9			24.6	22.1	17.9	15.0	9.7	
Ogden	24.0			29.7	29.4	30.7	18.7	11.7	
Volstate	22.6			34.6	27.4	32.0	10.7	8.2	
Mean				26.1	25.8	27.6	14.0	9.7	

Table 63: (Continued)

Variety	Mean Yield	Date Planted							
		April		May		June		July	
		1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-
<u>McCullers, N. Car.</u>									
S100	21.8		30.3	29.9			16.3	10.8	
Ogden	17.0		15.9	17.8			22.8	11.4	
Volstate	21.0		26.3	22.8			23.3	11.4	
Palmetto	16.6		21.4	20.7			17.2	7.1	
Acadian	17.0		20.2	18.6			17.1	11.9	
Mean			22.8	22.0			19.3	10.5	
<u>Stoneville, Miss.</u>									
Macoupin	16.3	13.8	17.1	18.1		14.8 ^{1/}	14.8 ^{1/}		
S100	24.1	21.7	24.8	25.7		17.6	17.0		
Arksoy	25.1	30.1	25.8	19.5					
Ogden	45.4	44.9	47.9	43.5		24.6 ^{1/}	28.5 ^{1/}		
Volstate	44.0	47.6	45.5	38.8		32.9 ^{1/}	23.5 ^{1/}		
Acadian	29.6	31.5	30.7	26.5					
Mean		31.6	32.0	28.7					
<u>Lubbock, Texas</u>									
<u>Irrigated</u>									
Dunfield	18.6	15.9	18.4	18.5	20.4	23.5	16.6	17.2	
Macoupin	20.6	20.3	18.6	19.9	25.4	23.8	18.9	17.4	
Ogden	31.9	38.0	33.1	36.2	47.5	46.3	12.6	9.5	
Mean		24.7	23.4	24.9	31.1	31.2	16.0	14.7	
<u>Dry Land</u>									
Dunfield	13.0	13.5	11.6	8.7	15.3	14.6	13.0	14.6	
Macoupin	13.7	10.8	10.0	10.1	18.1	16.3	15.7	15.2	
Ogden	18.1	17.9	21.4	19.1	32.0	28.3	5.1	3.1	
Mean		14.1	14.3	12.6	21.8	19.7	11.3	11.0	
<u>Baton Rouge, La.</u>									
S100	9.8	3.4	7.6	16.9		14.0	8.9	8.0	
Ogden	14.0	14.5	17.3	20.5		12.9	8.3	10.6	
104881	10.7	8.4	10.1	13.1		10.9	12.4	9.4	
Acadian	14.7	11.4	13.9	13.2		12.4	16.8	20.3	
Mean		9.5	12.2	15.9		12.5	11.6	12.1	

^{1/} Average of 2 replications.

Table 64: Summary of days to maturity of the varieties of the Dates of Planting Test, 1944.

Variety	Date of Planting							
	April		May		June		July	
	1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-
<u>Blacksburg, Va.</u>								
Scioto		136	130	132		123		
Lincoln		130	126	127		119		
Dunfield		130	126	127		119		
Patoka		134	128	131		121		
<u>Orange, Va.</u>								
Gibson		140	130	127		122		
Patoka		139	132	130		128		
Macoupin		143	131	128		128		
S100		152	142	136		131		
<u>Clarkdale, Ark.</u>								
S100			148	134	130	133	119	
Arksoy			166	146	130	133	119	
Ogden			166	146	130	133	119	
Volstate			183	163	147	133	119	
<u>McCullers, N. Car.</u>								
S100		133	123		107	97		
Ogden		154	142		131	110		
Volstate		178	163		133	112		
Palmetto		178	163		133	112		
Acadian		186	170		140	119		
<u>Stoneville, Miss.</u>								
Macoupin	130	128	118		126	126		
S100	142	139	127		127	119		
Arksoy	183	167	148		133			
Ogden	177	167	148		147	129		
Volstate	205	191	170		151	120		
Acadian	207	193	173		171	150		
<u>Baton Rouge, La.</u>								
S100	129	113	109		107	94	87	
Ogden	158	139	143		122	104	91	
104881	181	164	153		139	124	107	
Acadian	205	187	168		153	135	121	

Table 65: Summary of the percentage protein for the varieties in the Dates of Planting Tests, 1944.

Variety	Mean	Dates of Planting							
		April		May		June		July	
		1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31
<u>Blacksburg, Va.</u>									
Scioto	42.4		42.8	43.1	41.1	42.5			
Lincoln	43.1		43.7	45.1	42.0	41.4			
Dunfield	41.1		41.8	41.1	41.7	39.8			
Patoka	45.3		46.7	45.6	44.5	44.5			
Mean	43.0		43.8	43.7	42.3	42.1			
<u>Orange, Va.</u>									
Gibson	38.5		41.0	37.2	38.0	37.6			
Patoka	41.3		44.2	41.2	38.7	41.2			
Macoupin	38.7		40.1	36.9	38.2	39.7			
S100	41.4		42.7	39.2	40.6	42.9			
Mean	40.0		42.0	38.6	38.9	40.4			
<u>Williamsburg, Va.</u>									
Ogden	43.2			43.0	43.7	42.9	43.1		
Tokyo	43.3			42.6	43.2	43.4	43.9		
Volstate	41.2			41.4	41.0	41.8	40.5		
Wood's Yellow	41.2			41.6	40.7	41.4	41.0		
Mean	42.2			42.2	42.2	42.4	42.1		
<u>Stillwater, Okla.</u>									
S100	46.3		46.3	46.6	47.1	45.6	45.2	46.7	
Arksoy	47.0		48.1	47.4	47.3	47.8	45.5	45.6	
Ogden	44.7		45.1	45.3	44.5	45.3	44.8	43.0	
Volstate	44.0		42.6	45.3	44.3	45.0	43.6	43.4	
Mean	45.5		45.5	46.2	45.8	45.9	44.8	44.7	
<u>Clarkedale, Ark.</u>									
S100	43.3			43.5	41.7	42.4	43.2	45.8	
Arksoy	43.4			44.0	38.7	43.7	44.4	46.2	
Ogden	41.5			40.7	40.3	38.9	42.1	45.3	
Volstate	39.5			38.6	38.6	36.9	40.5	42.8	
Mean	41.9			41.7	39.8	40.5	42.6	45.0	

Table 654 (Continued)

Variety	Mean	Date of Planting							
		April		May		June		July	
		1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31
<u>McCullers, N. Car.</u>									
S100	43.5		42.6	45.6			43.2	42.6	
Ogden	43.4		45.8	45.5			42.2	40.2	
Volstate	40.6		41.8	41.4			39.7	39.5	
Palmetto	44.5		44.3	44.3			43.4	46.0	
Acadian	42.7		42.8	42.4			42.5	43.1	
Mean	42.9		43.5	43.8			42.2	42.3	
<u>Stoneville, Miss.</u>									
Macoupin	42.1	41.3	42.2	41.7		42.8	42.3		
S100	44.2	43.7	43.2	43.5		45.1	45.5		
Arksoy	42.1	42.0	41.8	41.5		42.7	42.7		
Ogden	40.7	39.1	40.2	41.0		41.8	41.3		
Volstate	38.6	38.4	37.5	38.0		39.6	39.4		
Acadian	43.6	43.6	44.0	43.7		43.2	43.5		
Mean	41.9	41.4	41.5	41.6		42.5	42.5		
<u>Baton Rouge, La.</u>									
S100	44.6	44.9	45.4	45.0		43.1	43.8	45.3	
Ogden	43.1	44.9	44.9	45.3		40.8	40.6	42.1	
P.I. 104881	45.8	47.6	47.4	46.6		44.8	43.9	44.6	
Acadian	44.4	46.1	46.3	45.3		43.6	42.0	43.0	
Mean	44.5	45.9	46.0	45.6		43.1	42.6	43.8	

Table 66: Summary of the percentage oil for the varieties in the Dates of Planting Tests, 1944.

Variety	Mean	Date of Planting							
		April		May		June		July	
		1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31
<u>Blacksburg, Va.</u>									
Scioto	20.9		21.2	21.2	21.4	19.9			
Lincoln	21.0		20.9	20.6	21.6	21.0			
Dunfield	21.4		22.3	21.3	21.5	20.3			
Patoka	19.2		18.7	18.5	19.7	19.9			
Mean	20.6		20.8	20.4	21.1	20.3			
<u>Orange, Va.</u>									
Gibson	22.0		22.0	22.7	22.0	21.2			
Patoka	21.7		20.5	22.4	22.8	21.1			
Macoupin	22.7		22.6	23.4	23.0	21.8			
S100	20.4		20.2	21.0	20.8	19.5			
Mean	21.7		21.3	22.4	22.2	20.9			
<u>Williamsburg, Va.</u>									
Ogden	17.9			18.1	17.7	18.0	17.7		
Tokyo	17.0			17.9	16.7	17.0	16.4		
Volstate	18.2			18.1	17.9	18.1	18.6		
Wood's Yellow	17.0			16.7	17.3	17.2	16.9		
Mean	17.5			17.7	17.4	17.6	17.4		
<u>Stillwater, Okla.</u>									
S100	17.4		16.7	17.0	16.8	17.5	18.3	18.0	
Arksoy	17.8		17.0	18.1	17.8	17.6	18.4	17.8	
Ogden	19.4		19.6	19.1	19.5	19.0	19.3	19.8	
Volstate	19.0		19.5	18.6	18.7	18.5	19.1	19.6	
Mean	18.4		18.2	18.2	18.2	18.2	18.8	18.8	
<u>Clarksdale, Ark.</u>									
S100	19.5			19.5	20.5	19.8	19.5	18.4	
Arksoy	19.5			20.2	19.8	19.7	19.3	18.4	
Ogden	20.4			21.8	21.0	21.3	19.7	18.4	
Volstate	21.4			22.0	22.2	22.7	20.5	19.7	
Mean	20.2			20.9	20.9	20.9	19.8	18.7	

Table 66: (Continued)

Variety	Mean	Date of Planting							
		April		May		June		July	
		1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31
<u>McCullers, N. Car.</u>									
S100	19.2		19.1	18.4			19.2	20.0	
Ogden	19.7		18.0	19.3			20.9	20.7	
Volstate	21.6		21.6	21.7			21.7	21.2	
Palmetto	17.6		17.7	17.8			17.7	17.1	
Acadian	18.6		20.0	19.5			18.2	16.8	
Mean	19.3		19.3	19.3			19.5	19.2	
<u>Stoneville, Miss.</u>									
Macoupon	20.9	20.3	21.4	22.1		20.5	20.1		
S100	18.8	18.9	19.5	19.2		18.3	18.2		
Arksoy	20.1	20.9	20.3	20.1		19.6	19.4		
Ogden	20.8	22.2	21.3	20.5		20.0	20.2		
Volstate	21.8	21.9	21.8	21.4		21.9	21.8		
Acadian	19.3	20.1	20.1	20.0		19.6	16.7		
Mean	20.3	20.7	20.7	20.6		20.0	19.4		
<u>Baton Rouge, La.</u>									
S100	18.8	19.6	19.2	19.4		19.3	17.8	17.3	
Ogden	19.9	20.2	19.5	19.3		20.8	19.8	19.8	
P.I. 104381	17.0	15.7	15.7	16.7		17.5	18.5	17.8	
Acadian	18.1	16.8	17.2	17.7		18.3	18.9	19.4	
Mean	18.5	18.1	17.9	18.3		19.0	18.8	18.6	

Table 67: Summary of the iodine number of oil for the varieties in the Dates of Planting Tests, 1944.

Variety	Mean	Dates of Planting							
		April		May		June		July	
		1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31
<u>Blacksburg, Va.</u>									
Scioto	135.3		134.5	134.3	135.3	136.9			
Lincoln	133.6		133.2	134.6	133.4	133.1			
Dunfield	129.6		127.1	128.3	130.7	132.4			
Patoka	132.4		132.2	132.6	132.3	132.5			
Mean	132.7		131.8	132.5	132.9	133.7			
<u>Orange, Va.</u>									
Gibson	135.8		132.4	135.4	137.5	137.7			
Patoka	132.6		130.9	131.7	133.1	134.8			
Macoupin	132.2		128.7	130.7	136.7	132.6			
S100	133.3		131.5	132.5	133.3	136.0			
Mean	133.5		130.9	132.6	135.2	135.3			
<u>Williamsburg, Va.</u>									
Ogden	142.4			143.1	142.8	141.6	142.2		
Tokyo	141.7			141.4	141.6	142.0	141.7		
Volstate	143.6			143.9	144.3	143.7	142.6		
Wood's Yellow	138.2			139.1	137.7	137.9	138.0		
Mean	141.5			141.9	141.6	141.3	141.1		
<u>Stillwater, Okla.</u>									
S100	126.4		128.5	127.7	126.3	125.5	123.7	126.4	
Arksoy	125.2		125.4	124.7	124.6	125.5	125.0	125.8	
Ogden	126.0		124.3	124.0	122.6	125.3	128.0	132.0	
Volstate	132.4		131.5	132.1	132.4	133.0	132.8	132.4	
Mean	127.5		127.4	127.1	126.5	127.3	127.4	129.2	
<u>Clarkedale, Ark.</u>									
S100	130.0			130.3	130.3	127.4	130.4	131.7	
Arksoy	130.3			130.0	130.0	132.2	129.9	129.4	
Ogden	132.3			130.0	131.5	133.3	133.5	133.4	
Volstate	132.9			133.3	132.6	132.3	133.2	132.9	
Mean	131.4			130.9	131.1	131.3	131.8	131.9	

Table 67: (Continued)

Variety	Mean	Date of Planting							
		April		May		June		July	
		1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31
<u>McCullers, N. Car.</u>									
S100	131.5		133.8	130.2		129.2		132.9	
Ogden	134.2		134.4	132.6		133.2		136.6	
Volstate	134.7		134.0	133.7		134.5		136.6	
Palmetto	135.9		133.7	134.3		137.7		137.7	
Acadian	140.7		138.0	141.6		144.8		138.6	
Mean	135.4		134.8	134.5		135.9		136.5	
<u>Stoneville, Miss.</u>									
Macoupin	128.9	127.3	126.2	127.7		131.0	132.1		
S100	131.3	129.4	129.3	131.2		133.5	133.2		
Arksoy	135.8	136.3	137.1	136.9		135.5	133.2		
Ogden	136.5	135.6	136.9	137.4		136.3	136.1		
Volstate	134.1	135.0	134.8	134.6		133.4	132.8		
Acadian	132.8	131.9	132.3	132.2		133.6	133.8		
Mean	133.2	132.6	132.8	133.3		133.9	133.5		
<u>Baton Rouge, La.</u>									
S100	129.1	126.4	128.3	127.2		128.3	131.4	132.9	
Ogden	133.4	134.4	135.3	132.8		133.5	132.3	132.0	
P.I. 104331	125.7	125.2	124.9	124.3		126.9	126.0	126.3	
Acadian	132.7	131.8	132.0	132.4		133.9	133.5	132.6	
Mean	130.2	129.5	130.1	129.2		130.7	130.3	131.1	