U. S. Regional Soybean Laboratory
Urbana, Illinois

RESULTS OF THE COOPERATIVE UNIFORM SOYBEAN TESTS, 1945

Part II. SOUTHERN STATES
Hdqs: Stoneville, Mississippi

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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH ADMINISTRATION
BUREAU OF PLANT INDUSTRY
SOILS, AND AGRICULTURAL ENGINEERING,
DIVISION OF FORAGE CROPS AND DISEASES
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STATE AGRICULTURAL EXPERIMENT STATIONS

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RESULTS OF THE COOPERATIVE UNIFORM SOYBEAN TESTS

Part II. Southern States

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1945
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Compiled by

Staff of the Southern Section of the
U.S. Regional Soybean Laboratory

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INTRODUCTION

The year 1945 is the third of cooperative soybean research in the South between the Agricultural Experiment Stations of the 12 Southern States in the program and the U.S. Regional Soybean Laboratory. New strains as rapidly as they are developed are entered in the southern Uniform Variety Test Groups IV-S, VI, VII, and VIII, where they are evaluated along with standard varieties of similar maturity. Progress is being made in the development of new strains of soybeans for industrial utilization, the primary objective of the regional program. The progress in the development and testing of varieties is indicated by the changes which have been made in the varieties entered in Uniform Tests each year. A large number of established southern varieties were included in the tests the first year, 1943. Twenty-five of these varieties were dropped after one year of testing and 13 other varieties and new strains were added for testing in 1944. The tests were not changed greatly in 1945, three varieties being added while three were dropped. In planning the 1946 tests, the regional collaborators felt that sufficient information had been obtained on a number of the varieties and 20 were dropped from the Uniform Tests. At the same time, thirteen new strains developed either in the cooperative soybean program or by commercial breeders were added. At the present time only a few established varieties remain in the Uniform Tests as standards for evaluating new strains.

The southern varieties are entered in the progressively later maturing Uniform Variety Tests, Groups IV-S, VI, VII, and VIII. The strains of the Uniform Test, Group IV-S mature in mid-September across the upper South. Through the mid-South, the strains of Group VI normally mature in early October, those of Group VII in late October, and Group VIII in early November. The maturity of the varieties within these groups is a few days later across the upper South and several days earlier in the lower South. The Uniform Test, Group III, was grown at two locations in the South in 1945.

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LOCATION OF COOPERATIVE NURSERIES

No. on Map	LOCATION	COOPERATOR	Dates of Planting	UNIFORM TESTS III	IV-S	VI	VII	VIII
1	Orange, Va.	Orange County Agr. Exp. Sta.			X			
2	Blacksburg, Va.	Va. Agr. Exp. Sta.	X	X	X			
3	Williamsburg, Va.	James County Agr. Exp. Sta.	X		X	X		
4	Plymouth, N.C.	Blackland Exp. Sta.				X	X	
5	McCullers, N.C.	N. Car. Agri. Exp. Sta.				X	X(2)	X
6	Rocky Mount, N.C.	Upper Coastal Branch Sta.				X	X	
7	Willard, N.C.	Coastal Plain Exp. Sta.					X(2)	
8	Clemson, S.C.	S. Car. Agr. Exp. Sta.				X(2)	X(2)	
9	Florence, S.C.	Pee Dee Agr. Exp. Sta.					X(2)	X
10	Hartsville, S.C.	Coker Pedigreed Seed Co.			X	X	X	X
11	Monetta, S.C.	Miss Bessie Johnson				X	X	X
12	Blackville, S.C.	Edisto Exp. Sta.				X	X	
13	Watkinsville, Ga.	So. Piedmont Conservation Exp Sta.	X			X	X	
14	Experiment, Ga.	Ga. Agr. Exp. Sta.					X	X
15	Richmond Hill, Ga.	Ford Farms					X	X
16	Tifton, Ga.	Ga. Coastal Plain Sta.	X				X	X
17	Gainesville, Fla.							
18	Belle Mina, Ala.	Tenn. Valley Substation						
19	Auburn, Ala.	Ala. Agr. Exp. Sta.				X	X	X
20	Fairhope, Ala.	Gulf Coast Substation				X	X	X
21	Tunica, Miss.	R.H. Watson			X	X	X	
22	Stoneville, Miss.	Delta Branch Exp. Station	X		X	X	X	X
23	Greenwood, Miss.	W.L. Craig						
24	Anchorage, Miss.	L.S. Stoner				X	X	
25	Onward, Miss.	J.H. Hand, Jr.				X	X	
26	Satartia, Miss.	M.F. Cresswell					X	X
27	State College, Miss.	Miss. Agr. Exp. Sta.					X	
28	West Point, Miss.	Miss. Agr. Exp. Sta.					X	X
29	Raymond, Miss.	Raymond Branch Exp. Sta.					X	X

LOCATION OF COOPERATIVE NURSERIES (cont'd)

No. of Map	LOCATION	COOPERATOR	Date of Planting	UNIFORM TESTS III	IV-S	VI	VII	VIII
30	Knoxville, Tenn.	Tenn. Agr. Exp. Sta.	X		X	X		
31	Crossville, Tenn.	Plateau Exp. Sta.			X	X		
32	Columbia, Tenn.	Middle Tenn. Agr. Exp. Sta.			X	X		
33	Jackson, Tenn.	West Tenn. Agr. Exp. Sta.			X	X		
34	Sikeston, Mo.	S.E. Mo. Agr. Exp. Sta.			X	X		
35	Clarkedale, Ark.	Delta Substa., Cotton Br. Sta.				X	X	X
36	Marianna, Ark.	Cotton Branch Station				X	X	X
37	Stuttgart, Ark.	Rice Branch Station	X			X	X	X
38	Winchester, Ark.	J.A. Newton				X	X	
39	Fayetteville, Ark.	Ark. Agr. Exp. Sta.				X	X	
40	Hope, Ark.	Fruit & Truck Br. Station				X	X	X
41	Melrose, La.	J.H. Henry			X			
42	Hamburg, La.	W.T. Nolan					X	X
43	Opelousas, La.	John Dumas			X	X		
44	Crowley, La.	J.M. Jenkins			X	X	X	X
45	Baton Rouge, La.	La. Agr. Exp. Sta.	X		X	X	X	X
46	Miami, Okla.	Leo Dohagne			X			
47	Fairland, Okla	G.V. Thomas			X			
48	Heavener, Okla.	Okla. Agr. Exp. Sta.				X		
49	Wagoner, Okla.	Lonnie E. Blair			X			
50	Coweta, Okla.	G.A. Childress			X	X		
51	Stillwater, Okla.	Okla. Agr. Exp. Sta.	X		X	X		
52	College Station, Tex.	Texas Agr. Exp. Station					X	
53	Denton, Texas	Texas Substation #6		X				
54	Chillicothe, Texas	Texas Substation #12					X	
55	Lubbock, Texas	Texas Substation #8			X	X	X	
56	Ysleta, Texas	Texas Substation #17			X	X	X	

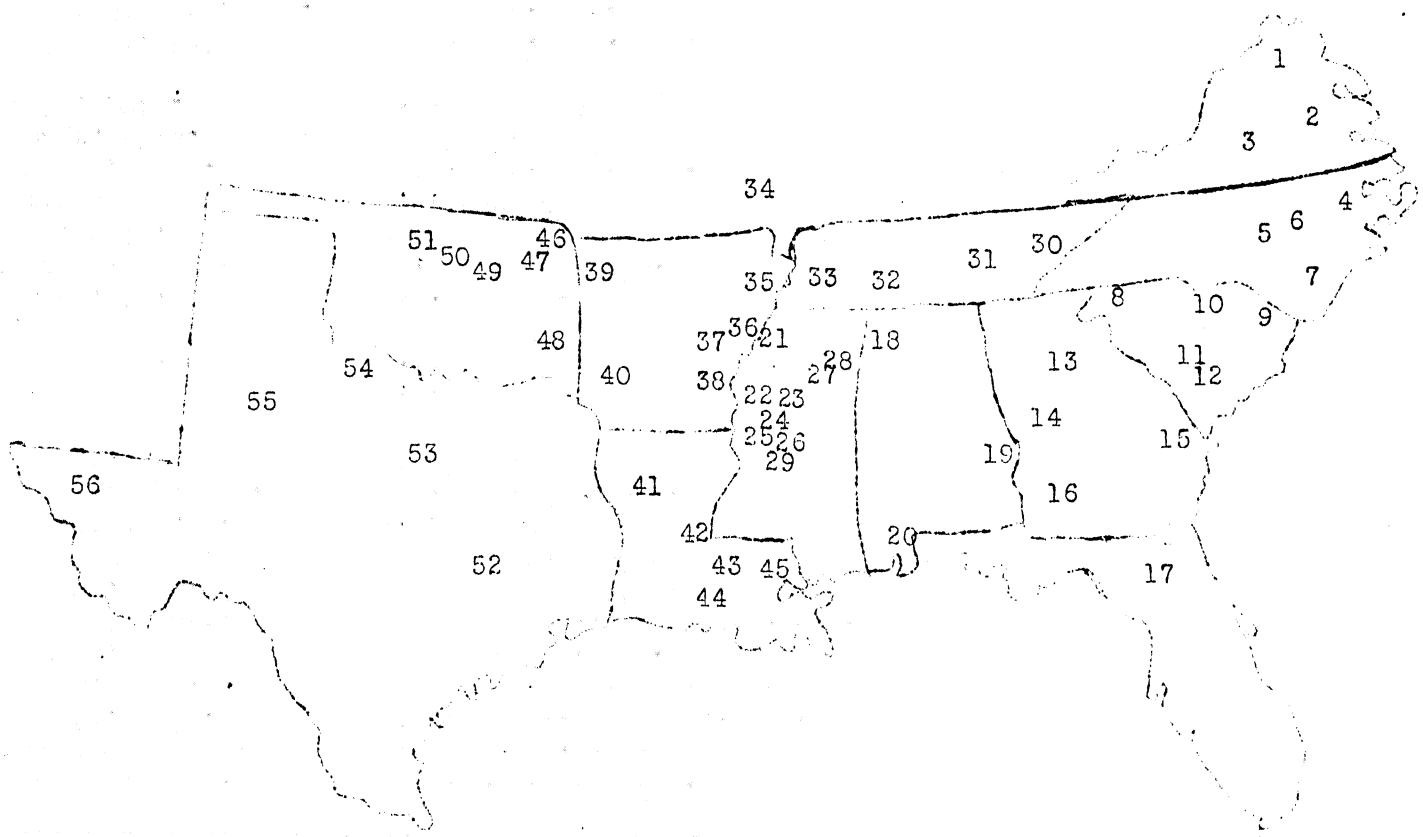

Fig. 1: Map of the Southern States Showing Location of Most of the Cooperative Uniform Tests, 1945.

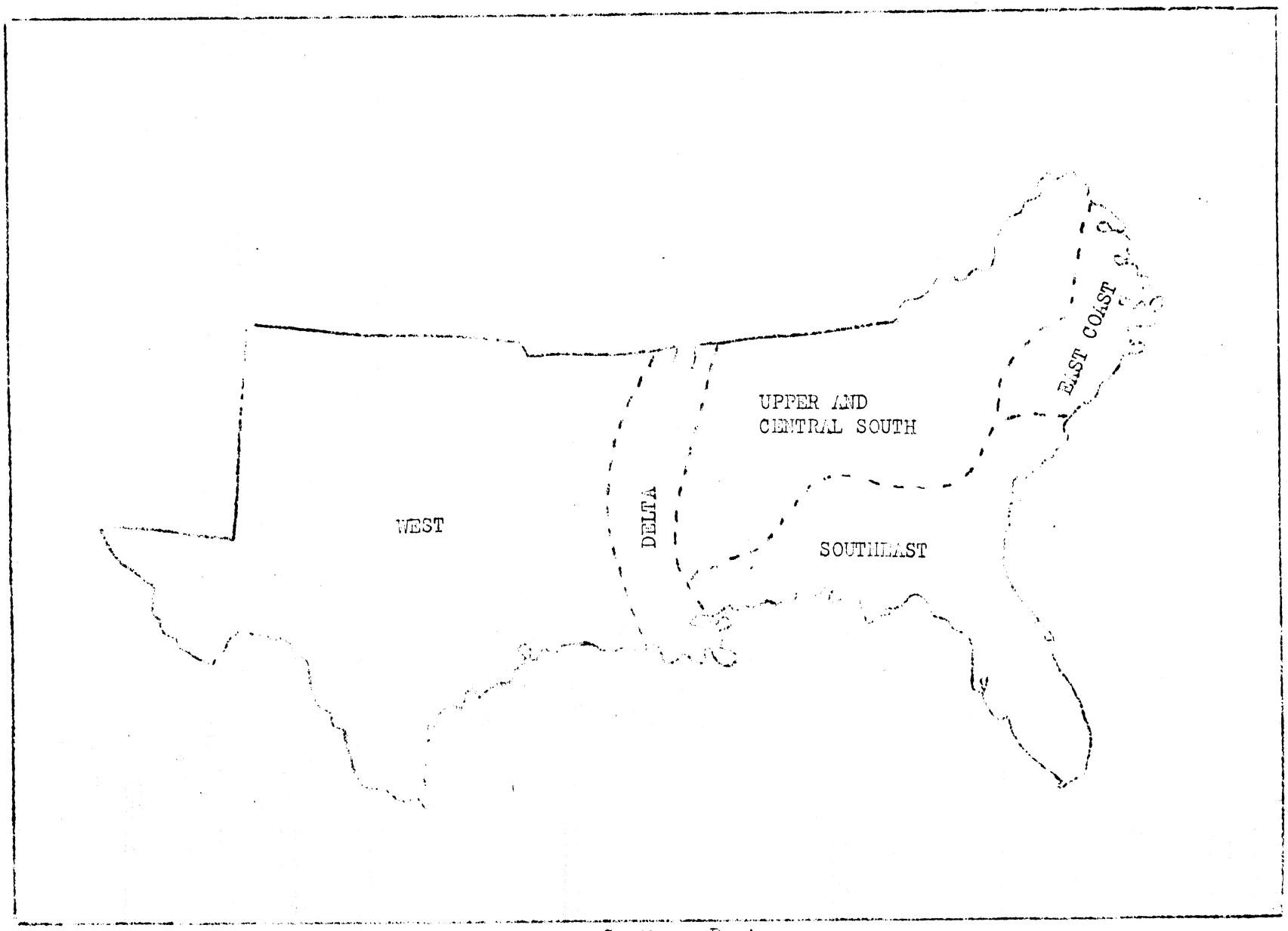

Figure 2. Subdivisions of the Southern Region.

METHODS

All uniform tests have been planted in replicated rod-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. Seedings 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 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-S, Gibson, Group VI, Ogden; Group VII, Volstate; and Group VIII, 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 analyses - all completed yield tests were analyzed by analyses of variance to determine differences required for significance. The coefficients of variability of individual tests are still high.

SUMMARY OF RESULTS

A wide range of soil types and climatic conditions occur within the 12 Southern States. Under such conditions the mean response of a variety over the region as a whole, as measured by agronomic and chemical data, may be of little value. The region has been subdivied into five areas based on the major soil divisions and to a certain extent on climatic variation. The areas as outlined, Fig. 2, are: (1) the East Coast, consisting of the coastal plain of Virginia, North Carolina and the upper half of South Carolina; (2) the Southeast area, containing the coastal plain soils of lower South Carolina, Georgia, Florida, Alabama and Mississippi; (3) the Upper and Central South extending from the Mississippi Delta area south and east to the Coastal Plain; (4) the Delta area, composed of the alluvial soils from the Mississippi River in the states of Tennessee, Arkansas, Mississippi and Louisiana; (5) the Western section, consisting of Texas, Oklahoma and the western half of Arkansas and Louisiana. It is realized that these somewhat arbitrary divisions are not all that can be desired, however, it is believed that a much better concept of the adaptation of the varieties can be obtained from the agronomic and chemical means from within the respective areas.

Uniform Test, Group III

The Group III Test was composed of six named varieties and seven selections from hybrids. The origin of these strains and varieties is as follows:

Variety or Strain	Source or Originating Agency	Origin
Chief	Ill. Agr. Exp. Sta.	Sel. from Illini x Manchu
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 Manchu)
Patoka	Purdue Agr. Exp. Sta.	Sel. from P.I. 70218-2[1]
Viking	Ill. Agr. Exp. Sta.	T118 (Illini x Manchu)
A3-117	Iowa A.E.S. and U.S.Reg.Soybean Lab.	Sel. from Illini x Dunfield
A3-128	Iowa A.E.S. and U.S.Reg.Soybean Lab.	Sel. from Richland x Mendell
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
A3-1411-20	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)
C461	Purdue A.E.S.and U.S.Reg.Soybean Lab.	Sel. from Dunfield x Mansoy

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

The Group III test was grown at the two locations, Blacksburg, Virginia and Denton, Texas in 1945. The response of the varieties was quite different at the two locations, Patoka at Blacksburg has been the highest yielding variety both years, 1944-45. The response of the varieties to the two years has been quite erratic at Denton, Texas. The lack of adaptation of these varieties and strains to conditions at Denton is reflected in the high percent of oil and the low iodine number of the oil.

Table 1: Summary of the agronomic and chemical data for the strains of the Uniform Test, Group III, 1946

Location	C84	C461	A3-117	Lincoln	Chief	Patoka	A3-163
			Yield				
Blacksburg, Va.	22.9	27.8	24.4	22.1	25.7	28.2	20.2
Denton, Texas	21.4	16.4	18.5	20.7	16.6	13.4	20.5
Mean	22.2	22.1	21.5	21.4	21.2	20.8	20.4
			Maturity (Days earlier (-) or later than Illini) 1/				
Blacksburg, Va.	8	10	2	1	12	15	5
Denton, Texas	8	15	11	8	8	15	8
Mean	8	13	7	5	10	15	7
			Height				
Blacksburg, Va.	42	36	37	34	45	37	33
Denton, Texas	38	30	30	30	38	30	30
Mean	40	33	34	32	42	34	32
			Seed Quality				
Blacksburg, Va.	2.0	1.0	3.0	2.3	2.0	2.0	1.8
Denton, Texas	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Mean	2.5	2.0	3.0	2.2	2.5	2.5	2.4
			Weight of Beans (Grams per 100 seed)				
Blacksburg, Va.	15.9	13.3	14.8	15.2	14.7	18.1	18.3
Denton, Texas	11.2	9.7	8.9	11.0	10.0	11.0	11.9
Mean	13.6	11.5	11.9	13.1	12.4	14.6	15.1
			% Protein				
Blacksburg, Va.	37.3	38.3	38.8	39.8	38.9	40.4	40.2
Denton, Texas	36.9	35.3	34.8	35.4	34.1	34.8	35.8
Mean	37.1	36.8	36.8	37.6	36.5	37.6	38.0
			% Oil				
Blacksburg, Va.	21.1	21.1	21.7	21.5	20.8	20.9	20.5
Denton, Texas	21.6	23.2	23.3	23.3	24.0	21.5	23.4
Mean	21.4	22.2	22.5	22.4	22.4	21.2	22.0
			Iodine No. of Oil				
Blacksburg, Va.	130.0	130.1	129.8	132.5	132.8	131.3	123.2
Denton, Texas	118.8	113.4	114.2	125.1	120.7	122.9	108.7
Mean	124.4	121.8	122.0	128.8	126.8	127.1	116.0

1/ Illini Planted - Blacksburg, Va. May 11 - Denton, Texas, May 11
Illini Matured - Blacksburg, Va. Sept. 12 - Denton, Texas, Aug. 20
Days to Maturity Blacksburg, Va. 130 days - Denton, Texas, 101 days

Table 1: (Continued)

Location	Dunfield	A3-128	A3-1411-20	Viking	A3-176	Illini	Mean
			Yield				
Blacksburg, Va.	22.2	24.4	26.4	21.7	24.1	18.4	23.7 2/
Denton, Texas	16.8	14.2	11.2	15.6	12.9	18.2	16.6 2/
Mean	19.5	19.3	18.8	18.7	18.5	18.3	20.2
			Maturity (Days earlier (-) or later than Illini) 1/				
Blacksburg, Va.	2	3	2	7	2	0	
Denton, Texas	11	5	0	8	11	0	
Mean	7	4	1	8	7	0	
			Height				
Blacksburg, Va	37	34	35	44	34	31	37
Denton, Texas	24	22	22	40	18	22	29
Mean	31	28	29	42	26	27	33
			Seed Quality				
Blacksburg, Va.	1.5	2.0	1.8	2.5	1.5	2.3	2.0
Denton, Texas	3.0	3.0	4.0	3.0	2.0	2.0	2.9
Mean	2.3	2.5	2.9	2.8	1.8	2.2	2.4
			Weight of Beans (Grams per 100 seed)				
Blacksburg, Va.	15.0	18.8	16.3	15.6	15.5	14.9	15.9
Denton, Texas	11.7	11.4	12.0	11.3	11.3	11.2	11.0
Mean	13.4	15.1	14.2	13.5	13.4	13.1	13.5
			% Protein				
Blacksburg, Va.	38.0	42.5	40.7	39.0	39.9	39.8	39.5
Denton, Texas	37.5	34.3	35.4	36.9	34.6	36.4	35.6
Mean	37.8	38.4	38.1	38.0	37.3	38.1	37.5
			% Oil				
Blacksburg, Va.	21.7	21.0	21.8	20.9	21.4	20.3	21.1
Denton, Texas	23.2	23.7	25.2	22.5	25.3	22.8	23.3
Mean	22.5	22.4	23.5	21.7	23.4	21.6	22.2
			Iodine No. of Oil				
Blacksburg, Va.	126.9	128.3	128.9	131.1	132.1	133.4	130.0
Denton, Texas	108.5	123.2	116.6	119.5	122.9	119.3	118.0
Mean	117.7	125.8	122.8	125.3	127.5	126.4	124.0

2/ Coef. of variance - Blacksburg, Va. 21.6 Denton, Tex. 30.3
Bu. Necessary for Sig. (5% level) - Blacksburg, Va. 5.1 Denton, Tex. Not Sig.

Uniform Test, Group IV-S

The Group IV-S test consists of six named varieties and five selections from hybrids. The origin of these strains and varieties 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
Hongkong	U.S. Dept. of Agr.	Introduction 22406, Hongkong, China 1908
Macoupin	Elmer Hulcher	Selection from commercial lot
Patoka	Purdue Agr. Exp. Sta.	Sel. from P.I. 70218-2[1]
C101	Purdue Agr. Exp. Sta.	Sel. from Dunfield x Manchu
S55-10	Missouri Agr. Exp. Sta.	Sel. from Virginia x P.I. 37062
S55-19	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

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

Strains and varieties of soybeans of Group IV maturity that had yielded well in the South in 1943-44 were regrouped in 1945 to form the Uniform Test, Group IV-S. The maturity of the strains of IV-S is not essentially different from those of Group IV. It is expected that as new strains are developed in the South, the average maturity of the strains of Group IV-S will be a few days later than those of Group IV.

Uniform Test, Group IV-S

Uniform Test, Group IV-S was grown at 21 locations in the South in 1945. The agronomic and chemical data from the test at Sikeston, Missouri, conducted in cooperation with the Missouri Agricultural Experiment Station and the U.S. Regional Soybean Laboratory is included because of the similarity of the data to that of other Mississippi Delta tests in the southern region. The agronomic and chemical data of the varieties and strains of Group IV-S is given in tables 2 to 12 inclusive.

S100 and C101 were again the leading varieties over much of the southern region. In tests in the eastern half of the region, S100 yielded slightly more than C101. However, the two-year average yields of the two strains at four locations indicate little if any differences in yielding ability. In the western area C101 was more productive than S100 in 1945, although the difference in yield for the two years is small. S100 in comparison with C101 is taller-growing, approximately seven days later in maturity and lower in percent oil. Both strains can be recommended across the upper south where an early variety is desired.

In addition to these two strains the three Missouri strains, S55-10, S55-35, and S55-19, have yielded well in the Delta area and the Upper South. Patoka has yielded well in the Upper South with the exception of the Western section. Chief, a distinctly low-yielding variety over much of the South was one of the higher yielding varieties in the western tests in 1945. Chief shattered less than most of the varieties at Ysleta, Texas.

The varieties and strains in tests at Miami and Cowcta, Oklahoma; Ysleta, Texas; and at Jackson and Crossville, Tennessee, in general contained a low percentage of protein, a high content of oil, with a lower iodine number of the oil. It is expected that climatological records from these sections might be of assistance in explaining these results.

Table 2: Summary of the agronomic and chemical data for the strains of the Uniform Test, Group IV-S, 1945

Location	No. of Locations	S100	C101	Gibson	Hong-kong	Patoka	Chief	S-55-10	S-55-35	S-55-19	Ma-coupin	Boone	Mean
						1945 Yields							
Eastern Coast	2	25.7	17.9	24.6	21.9	16.6	21.7	17.5	15.7	18.1	17.7	18.8	19.6
Cen. & Upper South	6	26.9	23.2	22.2	-	24.8	20.8	22.9	21.8	-	21.1	18.9	22.5
Delta Area	7	26.3	25.7	22.4	22.8	23.4	21.5	23.8	23.4	24.1	21.9	19.2	23.1
West	7	15.2	18.1	16.9	17.0	14.9	18.2	15.4	15.8	15.4	14.4	15.0	16.0
Mean		22.7	21.7	20.7	20.0	20.3	20.2	20.1	19.7	19.2	18.8	17.7	20.3
						1944-45 Yields							
Cen. & Upper South	6	24.0	21.5	20.0		20.3	17.0	20.4	19.0		19.3	18.2	20.0
Delta	4	26.4	26.6	22.9		22.7	20.2	23.7	23.6		22.8	20.6	23.3
West	6	18.9	19.4	18.5		15.7	17.7	17.5	17.4		15.7	16.4	17.5
Mean		22.7	22.0	20.2		19.2	18.1	20.1	19.6		18.8	18.1	20.3
						Maturity 1/							
Cen. & Upper South	4	4	0	0	-	-1	-7	-1	-2	-	2	7	
Delta Area	7	9	2	0	3	-2	-1	-2	-5	-4	2	3	
West	7	10	4	0	10	1	1	-2	-1	-2	6	6	
Mean		8	1	0	6	-2	1	-2	-3	-4	3	3	
						Lodging							
Cen. & Upper South	5	2.4	2.0	2.3	-	1.4	1.7	2.5	2.1	-	1.9	1.5	2.0
Delta	7	2.2	2.0	2.2	2.4	1.6	2.2	2.0	1.9	1.9	2.2	2.8	2.1
West	7	1.8	2.1	1.9	2.6	1.3	1.4	1.6	1.6	1.5	1.4	1.8	1.7
Mean		1.9	1.8	2.2	2.3	1.4	1.8	1.8	1.7	1.5	1.9	2.0	1.8
						Height							
Cen. & Upper South	5	45	36	37	-	31	39	37	36	-	41	40	38
Delta	7	38	30	29	32	27	35	27	27	31	37	35	32
West	7	32	27	27	26	22	31	25	26	26	30	29	28
Mean		34	29	30	28	25	33	29	29	27	34	32	31

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

Table 2: (Continued)

	No. of Location	S100	C101	Gibson	Hong-kong	Patoka	Chief	S-55-10	S-55-35	S-55-19	Ma-coupin	Boone	Mean
						Seed Quality							
Cen. & Upper South	5	2.2	2.5	2.1	-	2.5	2.8	2.9	2.9	-	2.1	2.5	2.5
Delta Area	7	3.0	2.8	2.4	2.7	3.1	3.3	2.6	2.8	2.5	2.3	3.5	2.8
West	7	3.0	3.1	2.6	2.8	3.2	3.4	2.9	2.9	3.0	3.0	2.8	3.0
Mean		2.7	2.8	2.4	2.8	2.9	3.2	2.8	2.9	2.8	2.5	2.9	2.8
						Weight of Beans							
East Coast	2	15.1	13.7	13.0	11.5	14.8	11.7	13.3	14.4	13.3	13.8	12.9	13.5
Cen. & Upper South	6	13.9	14.9	-	13.0	12.4	16.6	14.5	14.7	-	14.0	13.3	14.1
Delta	7	13.3	14.4	13.8	12.4	15.6	12.6	13.6	15.2	13.4	13.7	13.0	13.7
West	6	13.3	13.7	12.4	11.7	11.5	14.1	12.7	14.2	13.0	13.2	12.7	13.0
Mean		13.9	14.2	13.1	12.2	13.6	13.8	13.5	14.6	13.2	13.7	13.0	13.6
						% Protein							
East Coast	2	43.9	37.2	40.1	39.3	40.2	41.0	40.8	41.7	40.9	38.0	39.6	40.2
Cen. & Upper South	6	41.0	37.4	-	37.7	38.3	40.8	39.3	40.5	-	36.4	38.2	38.9
Delta	7	43.9	41.7	41.4	41.7	43.4	42.0	42.9	43.7	43.0	41.8	43.1	42.6
West	6	38.8	36.6	38.0	35.9	38.2	39.6	38.4	39.6	38.8	37.8	38.4	38.2
Mean		41.9	38.2	39.8	38.7	40.0	40.9	40.4	41.4	40.9	38.5	39.8	40.0
						% Oil							
East Coast	2	18.9	23.0	21.8	21.0	22.1	21.5	21.3	20.8	21.4	22.5	22.4	21.5
Cen. & Upper South	6	19.8	22.0	-	21.7	22.0	21.7	21.4	20.7	-	22.9	22.3	21.6
Delta	7	19.3	20.8	20.8	20.6	21.0	21.6	20.9	20.3	20.9	21.4	20.6	20.7
West	6	20.7	22.6	21.4	22.7	22.7	22.3	22.5	21.5	22.3	22.8	23.0	22.2
Mean		19.7	22.1	21.3	21.5	22.0	21.8	21.5	20.8	21.5	22.4	22.1	21.5
						Iodine No. of Oil							
East Coast	2	131.1	135.4	134.7	139.0	133.8	133.2	134.8	133.6	134.6	133.2	130.8	134.0
Cen. & Upper South	6	129.7	130.3	-	131.5	129.5	129.8	131.3	130.5	-	129.7	129.0	130.3
Delta	7	128.7	128.0	129.8	133.2	131.3	128.8	131.6	129.1	131.4	127.5	123.4	129.3
West	6	125.4	125.0	130.4	126.3	125.9	126.3	128.3	127.1	128.4	123.7	122.6	126.3
Mean		128.7	129.7	131.6	132.5	130.1	129.5	131.5	130.0	131.5	128.5	126.5	130.0

Table 3: Summary of yield in bushels per acre for the strains in the Uniform Test, Group IV, 1945

Location	S100	C101	Gibson	Hongkong	Patoka	Chief	S55-10
			East Coast				
Williamsburg, Va.	19.6	17.8	24.9	25.7	18.9	23.4	21.5
Hartsville, S.C.	31.8	18.0	24.2	18.1	14.2	19.9	13.5
Mean	25.7	17.9	24.6	21.9	16.6	21.7	17.5
			Upper and Central South				
Orange, Va.	36.7	34.6	30.6	35.3	41.2	33.2	34.2
Jackson, Tenn.	34.1	24.1	23.7	-	25.8	19.3	27.3
Crossville, Tenn.	30.8	25.9	25.8	-	26.3	23.8	23.2
Knoxville, Tenn.	22.4	21.5	21.2	-	22.3	24.1	21.3
Blacksburg, Va.	21.8	20.8	20.0	18.8	21.0	18.1	20.6
Columbia, Tenn.	15.8	12.2	11.6	-	12.0	6.4	10.6
Mean	26.9	23.2	22.2		24.8	20.8	22.9
			Delta				
Stoneville, Miss.	32.6	33.8	29.5	28.5	36.9	31.2	30.3
Tunica, Miss.	34.2	28.3	27.3	25.5	27.8	27.7	27.7
Sikeston, Mo.	31.4	28.3	21.8	27.3	24.5	23.6	27.3
Opelousas, La.	30.8	31.2	27.0	22.3	21.8	22.8	28.0
Crowley, La.	14.7	22.8	20.0	19.0	16.7	19.3	19.1
Melrose, La. 1/	16.6	18.0	15.5	10.4	7.0	5.7	10.1
Baton Rouge, La.	14.3	9.9	9.0	14.1	12.6	4.3	10.1
Mean	26.3	25.7	22.4	22.8	23.4	21.5	23.8
			West				
Coweta, Okla.	29.7	32.9	24.5	28.5	27.4	31.1	29.1
Fairland, Okla.	17.0	19.3	18.9	18.6	17.6	19.3	15.5
Ysleta, Texas	14.9	17.1	21.5	18.3	13.3	28.5	12.1
Lubbock, Texas 2/	9.0	17.0	16.6	14.1	12.8	10.8	19.1
Stillwater, Okla.	12.2	11.8	12.7	15.3	11.7	10.3	7.8
Miami, Okla.	8.5	10.5	7.3	7.4	6.6	8.9	9.0
Wagoner, Okla. 2/	6.6	4.4	6.0	8.0	5.7	3.8	3.6
Mean	15.2	18.1	16.9	17.0	14.9	18.2	15.4

1/ Not included in mean.
2/ Mean of three replications.

Table 3: (Continued)

Location	S55-35	S55-19	Macoupin	Boone	Mean	Coef. of Var.	Bu. Nec. for Sig. (5%)
			East Coast				
Williamsburg, Va.	17.0	22.6	19.3	20.8	21.0	22.8	Not Sig.
Hartsville, S.C.	14.4	13.5	16.0	16.7	18.2	14.0	3.6
Mean	15.7	18.1	17.7	18.8	19.6		
			Upper and Central South				
Orange, Va.	35.6	30.5	30.3	29.2	34.0	10.2	4.9
Jackson, Tenn.	23.6	-	24.6	22.9	25.0	14.0	5.1
Crossville, Tenn.	23.4	-	23.4	19.2	24.6	10.4	3.7
Knoxville, Tenn.	22.8	-	19.1	19.4	21.6	9.7	Not Sig.
Blacksburg, Va.	16.6	14.6	18.6	12.0	18.8	18.6	5.1
Columbia, Tenn.	8.8	-	10.5	10.5	10.9	13.3	2.1
Mean	21.8	-	21.1	18.9	22.5		
			Delta				
Stoneville, Miss.	32.0	33.0	24.5	24.1	30.6	12.8	5.6
Tunica, Miss.	28.8	27.2	25.1	22.9	27.5	15.2	Not Sig.
Sikeston, Mo.	28.4	28.5	26.2	22.7	26.4	7.4	2.8
Opelousas, La.	23.3	25.0	29.0	22.0	25.7	16.2	6.0
Crowley, La.	16.5	21.3	16.6	15.6	18.3	16.5	4.3
Melrose, La.1/	18.9	10.4	8.3	9.5	11.9		
Baton Rouge, La.	11.2	9.4	10.1	8.1	10.3	26.0	3.9
Mean	23.4	24.1	21.9	19.2	23.1		
			West				
Coweta, Okla.	30.5	31.0	23.0	27.6	29.1	18.1	Not Sig.
Fairland, Okla.	14.8	15.5	17.1	17.4	17.4	11.4	2.9
Ysleta, Texas	13.1	9.5	13.4	18.4	16.4	32.3	7.1
Lubbock, Texas2/	17.9	19.4	8.3	8.2	13.9	16.7	3.9
Stillwater, Okla.	10.0	7.9	10.3	9.5	10.9	20.0	3.1
Miami, Okla.	8.7	9.1	9.1	8.8	8.5	24.0	Not Sig.
Wagoner, Okla.2/	4.6	4.9	5.5	5.1	5.3		
Mean	15.8	15.4	14.4	15.0	16.0		

Table 4: Summary of two-year average yields of the strains of Uniform Test, Group IV-S, 1944-45.

Location	S100	C101	Gibson	S55-10	S55-35	Patoka	Macoupin	Boone	Chief	Mean
				Upper and Central South						
Orange, Va.	38.0	34.3	33.3	32.8	33.4	35.2	31.3	31.2	28.2	33.1
Crossville, Tenn.	28.0	26.1	22.6	21.6	20.5	22.1	22.8	18.8	20.0	22.5
Blacksburg, Va.	22.6	20.4	20.7	20.7	18.8	20.9	18.9	14.9	17.8	19.5
Jackson, Tenn.	22.5	17.9	16.5	19.0	16.8	17.4	16.8	20.4	15.3	18.1
Knoxville, Tenn.	20.6	18.7	17.6	19.1	17.6	17.4	17.0	16.2	16.8	17.9
Columbia, Tenn.	12.3	11.4	9.4	9.3	7.0	8.5	9.0	7.7	3.6	8.7
Mean	24.0	21.5	20.0	20.4	19.0	20.3	19.3	18.2	17.0	20.0
				Delta						
Stoneville, Miss.	36.3	38.0	31.0	31.5	31.7	29.1	29.5	28.0	30.5	31.7
Tunica, Miss.	30.3	28.8	27.1	28.1	28.7	26.1	25.2	23.8	25.8	27.1
Opelousas, La.	26.3	28.5	23.9	24.7	22.3	22.0	24.8	21.8	19.7	23.8
Baton Rouge, La.	12.5	11.2	9.7	10.6	11.8	13.7	11.7	8.6	4.7	10.5
Mean	26.4	26.6	22.9	23.7	23.6	22.7	22.8	20.6	20.2	23.3
				West						
Coweta, Okla.	31.7	32.7	28.0	29.9	30.8	24.9	26.4	28.5	28.0	29.0
Ysleta, Texas	22.8	21.7	26.0	20.3	17.7	16.2	15.6	14.6	27.9	20.3
Lubbock, Texas	19.5	21.6	19.5	20.1	19.8	16.9	16.7	18.2	19.0	19.0
Fairland, Okla.	17.2	18.9	17.2	15.1	16.0	16.6	16.1	16.4	13.7	16.4
Stillwater, Okla.	13.1	10.3	10.5	9.3	10.3	11.1	10.3	11.5	11.4	10.9
Miami, Okla.	8.9	10.9	9.5	10.0	9.7	8.6	9.1	9.3	6.4	9.2
Mean	18.9	19.4	18.5	17.5	17.4	15.7	15.7	16.4	17.7	17.5

Table 5: Summary of lodging data for the strains in the Uniform Test, Group IV-S, 1945

Location	S100	C101	Gibson	Hongkong	Patoka	Chief	S55-10	S55-35	S55-19	Macoupin	Boone	Mean
					East Coast							
Williamsburg, Va.	1.0	1.0	2.0	2.0	-	2.0	1.0	1.0	1.0	2.0	2.0	1.5
					Upper and Central South							
Orange, Va.	3.2	2.0	3.0	4.5	1.7	1.7	4.7	3.7	3.2	2.2	2.2	2.7
Jackson, Tenn.	2.8	2.5	3.0	-	1.5	1.5	2.3	2.3	-	2.3	1.3	2.2
Crossville, Tenn.	1.8	1.8	2.0	-	1.3	1.8	1.8	1.5	-	1.8	1.0	1.6
Knoxville, Tenn.	2.3	2.5	1.5	-	1.3	2.3	2.3	1.8	-	1.8	1.8	2.0
Columbia, Tenn.	2.0	1.3	1.8	-	1.0	1.0	1.3	1.0	-	1.3	1.3	1.3
Mean	2.4	2.0	2.3		1.4	1.7	2.5	2.1		1.9	1.5	2.0
					Delta							
Stoneville, Miss.	2.8	3.0	3.5	3.8	2.3	3.5	3.3	3.0	3.3	3.0	4.3	3.3
Tunica, Miss.	1.8	1.7	2.0	3.0	1.0	2.3	2.7	1.3	2.3	1.7	2.3	2.0
Sikeston, Mo.	2.8	2.5	3.0	3.3	1.8	2.8	2.8	2.8	2.8	3.0	3.3	2.8
Opelousas, La.	3.0	2.0	3.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0	3.0	2.6
Crowley, La.	2.0	2.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0	2.0	3.0	1.6
Melrose, La.	2.0	2.0	1.0	2.0	1.0	2.0	1.0	1.0	1.0	2.0	2.0	1.5
Baton Rouge, La.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.1
Mean	2.2	2.0	2.2	2.4	1.6	2.2	2.0	1.9	1.9	2.2	2.8	2.1
					West							
Cowcta, Okla	3.0	3.0	3.0	4.0	1.0	1.0	2.0	3.0	3.0	1.0	3.0	2.5
Fairland, Okla.	2.0	2.0	2.0	3.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	1.8
Ysleta, Texas	1.3	1.7	1.0	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.3	1.2
Lubbock, Texas	1.0	2.8	3.2	1.8	1.2	1.0	3.0	3.2	1.8	1.7	1.0	1.9
Stillwater, Okla	2.0	2.0	1.0	3.0	1.0	1.0	2.0	1.0	1.0	1.0	2.0	1.5
Miami, Okla.	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1
Wagoner, Okla.	2.0	2.0	2.0	3.0	2.0	3.0	1.0	2.0	2.0	2.0	2.0	2.1
Mean	1.8	2.1	1.9	2.6	1.3	1.4	1.6	1.6	1.5	1.4	1.8	1.7

Table 6: Summary of maturity data, days earlier (-) or later than Gibson, for the strains in the Uniform Test, Group IV-S, 1945

Lation	S100	C101	Gibson	Hongkong	Patoka	Chief	S55-10
			East Coast				
Williamsburg, Va.	4	-4	0	6	-4	-5	-4
			Upper and Central South				
Jackson, Tenn.	6	-1	0	-	0	15	-5
Crossville, Tenn.	0	0	0	-	-4	-4	0
Knoxville, Tenn.	7	0	0	-	0	0	0
Columbia, Tenn.	16	0	0	-	0	16	0
Mean	7	0	0	-	-1	7	1
			Delta				
Stoneville, Miss.	8	-3	0	1	-2	2	-2
Tunica, Miss.	9	-2	0	7	-5	-2	-2
Sikeston, Mo.	10	3	0	10	-1	-1	-1
Opelousas, La.	5	5	0	-5	1	0	-5
Crowley, La.	15	5	0	0	-5	0	0
Melrose, La.	5	0	0	0	-5	2	0
Baton Rouge, La.	13	5	0	11	0	-7	-5
Mean	9	2	0	3	-2	-1	-2
			West				
Coweta, Okla.	5	5	0	25	5	-5	5
Fairland, Okla.	-14	4	0	11	-4	-4	-8
Ysleta, Texas	10	4	0	8	-1	-3	-1
Lubbock, Texas	30	5	0	5	2	24	-2
Stillwater, Okla.	12	3	0	7	1	-1	-1
Miami, Okla	15	3	0	3	5	0	-5
Wagoner, Okla.	15	6	0	10	-3	0	-5
Mean	10	4	0	10	1	1	-2

Table 6: (Continued)

Location	S55-35	S55-19	Macoupin	Boone	Gibson Planted	Gibson Matured	Days to Maturity
			East Coast				
Williamsburg, Va.	-5	-5	0	-4	6/25	10/13	110
			Upper and Central South				
Jackson, Tenn	-6	-	6	6	4/25	9/19	147
Crossville, Tenn.	-2	-	0	0	5/22	9/28	129
Knoxville, Tenn.	0	-	0	7	5/23	9/12	112
Columbia, Tenn.	0	-	0	16	5/8	9/17	137
Mean	-2	-	2	7			
			Delta				
Stoneville, Miss.	-2	-3	-2	-3	5/22	9/4	105
Tunica, Miss.	-3	-4	-2	1	5/4	9/6	125
Sikeston, Mo.	-1	-1	-1	2	5/21	9/26	129
Opelousas, La.	-10	-10	0	3	5/4	8/20	108
Crowley, La.	-7	-5	10	8	6/14	9/10	88
Melrose, La.	-5	-2	5	5	5/14	9/10	128
Baton Rouge, La.	-5	-5	5	6	4/30	8/15	107
Mean	-6	-4	2	3			
			West				
Coweta, Okla.	-	5	5	0	5/11	9/20	132
Fairland, Okla	-4	-9	-2	3	5/24	9/14	113
Ysleta, Texas	2	0	8	7	5/10	9/8	121
Lubbock, Texas	-2	-2	21	30	5/22	9/14	115
Stillwater, Okla.	1	-1	1	3	5/2	9/5	126
Miami, Okla.	-5	-5	5	0	5/23	9/15	115
Wagoner, Okla.	-3	-6	5	2	5/10	9/15	128
Mean	-1	-2	6	6			

Table 7: Summary of height data for the strains of the Uniform Test, Group IV-S, 1945.

Location	S100	C101	Gibson	Hongkong	Patoka	Chief	S55-10	S55-35	S55-19	Macoupin	Boone	Mean
					East Coast							
Williamsburg, Va.	21	23	26	25	21	26	27	26	25	28	24	25
					Upper and Central South							
Orange, Va.	52	43	42	43	40	50	47	46	44	49	45	46
Jackson, Tenn	49	38	37	-	30	41	36	36	-	47	45	40
Crossville, Tenn	42	35	37	-	30	38	36	34	-	38	36	36
Knoxville, Tenn.	46	39	39	-	34	39	37	37	-	42	42	39
Columbia, Tenn.	35	27	29	-	22	27	28	25	-	30	30	28
Mean	45	36	37		31	39	37	36		41	40	38
					Delta							
Stoneville, Miss.	44	36	35	39	33	44	37	38	41	43	40	39
Tunica, Miss.	42	36	33	39	30	43	36	34	35	43	35	37
Sikeston, Mo.	37	29	27	31	24	34	27	28	30	31	30	30
Opelousas, La.	48	38	40	39	31	40	36	36	36	48	48	40
Crowley, La.	32	32	26	27	25	30	24	24	31	34	31	29
Melrose, La.	36	24	24	24	25	36	15	13	23	36	33	26
Baton Rouge, La.	28	15	15	24	19	18	17	17	18	24	26	20
Mean	38	30	29	32	27	35	27	27	31	37	35	32
					West							
Coweta, Okla.	36	30	32	30	30	32	24	32	34	28	34	31
Fairland, Okla.	24	24	20	24	18	26	18	18	16	24	20	21
Ysleta, Texas	42	36	31	31	24	35	34	36	32	41	39	35
Lubbock, Texas	28	25	27	26	22	30	29	27	31	33	28	28
Stillwater, Okla.	46	34	37	33	30	43	35	34	35	42	34	37
Miami, Okla	18	20	19	17	14	22	16	16	18	18	22	18
Wagoner, Okla.	30	23	26	22	18	30	22	20	18	26	24	24
Mean	32	27	27	26	22	31	25	26	26	30	29	28

Table 8: Summary of seed quality data for the strains of the Uniform Test, Group IV-S, 1945

Location	S100	C101	Gibson	Hongkong	Patoka	Chief	S55-10	S55-35	S55-19	Macoupin	Boone	Mean
					Upper and Central South							
Orange, Va.	1.5	3.2	1.5	1.2	3.5	2.2	3.2	2.2	3.0	1.7	2.7	2.4
Jackson, Tenn.	2.3	2.8	2.5	-	2.5	4.3	2.8	3.5	-	2.5	2.8	2.9
Crossville, Tenn.	1.3	1.0	1.3	-	1.0	1.3	1.8	1.8	-	1.0	1.3	1.3
Knoxville, Tenn.	2.5	2.3	2.0	-	2.3	2.5	2.8	3.0	-	2.5	2.8	2.5
Columbia, Tenn.	3.3	3.3	3.3	-	3.3	3.5	3.8	3.8	-	3.0	3.0	3.4
Mean	2.2	2.5	2.1	-	2.5	2.8	2.9	2.9	-	2.1	2.5	2.5
						Delta						
Stoneville, Miss.	3.0	3.0	3.3	3.0	3.5	5.0	3.5	3.5	3.5	2.8	4.3	3.5
Tunica, Miss.	2.3	3.7	3.4	3.6	3.8	3.1	3.1	3.3	3.6	3.0	4.5	3.4
Sikeston, Mo.	2.8	3.8	2.0	1.5	3.5	3.0	2.8	3.0	2.3	1.3	2.8	2.6
Opelousas, La.	3.0	2.0	3.0	3.0	3.0	3.0	2.0	3.0	2.0	2.0	3.0	2.6
Crowley, La.	2.0	2.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0	2.0	1.5
Melrose, La.	4.0	2.0	2.0	3.0	4.0	5.0	2.0	2.0	2.0	3.0	5.0	3.1
Baton Rouge, La.	4.0	3.0	2.0	4.0	3.0	3.0	3.0	4.0	2.0	2.0	3.0	3.0
Mean	3.0	2.8	2.4	2.7	3.1	3.3	2.6	2.8	2.5	2.3	3.5	2.8
						West						
Coweta, Okla.	2.0	3.0	4.0	2.0	4.0	4.0	3.0	3.0	4.0	3.0	3.0	3.2
Fairland, Okla.	3.0	2.0	1.0	1.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
Ysleta, Texas	2.7	2.0	2.0	2.5	2.2	2.0	2.0	2.0	2.0	3.0	2.5	2.3
Lubbock, Texas	2.0	2.0	1.0	2.0	2.0	3.0	1.0	1.0	1.0	2.0	2.0	1.7
Stillwater, Okla.	3.0	5.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9
Miami, Okla.	4.0	3.0	2.0	4.0	3.0	3.0	3.0	3.0	4.0	3.0	2.0	3.1
Wagoner, Okla	4.0	5.0	5.0	4.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	4.5
Mean	3.0	3.1	2.6	2.8	3.2	3.4	2.9	2.9	3.0	3.0	2.8	3.0

Table 9: Summary of seed weight data in grams per 100 seeds for the strains in the Uniform Test, Group IV- S, 1945.

Location	S100	C101	Gibson	Hongkong	Patoka	Chief	S55-10
			East Coast				
Williamsburg, Va.	15.2	15.8	13.2	12.6	17.4	11.1	14.5
Hartsville, S.C.	14.9	11.5	12.8	10.4	13.4	12.2	12.1
Mean	15.1	13.7	13.0	11.5	14.8	11.7	13.3
			Upper and Central South				
Orange, Va.	15.4	17.4	14.4	14.2	19.5	14.1	16.1
Jackson, Tenn.	12.6	13.4	12.7	-	15.3	12.2	13.2
Crossville, Tenn	14.0	14.9	11.9	-	16.5	11.3	13.8
Knoxville, Tenn.	12.6	12.9	11.1	-	14.1	11.0	12.2
Blacksburg, Va.	16.1	16.1	15.5	16.6	19.7	13.5	19.8
Columbia, Tenn.	12.4	14.5	12.3	-	14.3	12.0	11.7
Mean	13.9	14.9	13.0	-	16.6	12.4	14.5
			Delta				
Stoneville, Miss.	11.6	13.2	13.3	10.6	15.5	12.2	12.6
Tunica, Miss.	13.3	14.7	14.4	11.9	15.3	12.8	14.2
Sikeston, Mo.	13.9	16.4	14.5	12.9	17.4	12.8	15.8
Opelousas, La.	14.0	13.9	13.8	12.8	16.0	13.2	13.9
Crowley, La.	15.9	14.0	13.8	14.5	17.0	12.2	13.6
Melrose, La .	13.0	16.6	15.1	12.6	14.7	14.6	13.1
Baton Rouge, La.	11.7	12.2	11.7	11.6	13.6	10.5	11.9
Mean	13.3	14.4	13.8	12.4	15.6	12.6	13.6
			West				
Coweta, Okla.	14.6	13.6	12.9	15.9	14.7	12.7	12.3
Fairland, Okla.	11.5	13.4	11.8	10.4	14.6	12.0	13.4
Ysleta, Texas	14.4	15.3	12.8	12.5	15.6	11.6	13.7
Lubbock, Texas	15.0	16.0	13.0	14.0	15.0	12.0	15.0
Stillwater, Okla.	11.0	11.6	9.8	11.5	12.8	10.7	11.5
Miami, Okla.	13.2	12.3	9.8	10.2	11.9	10.0	10.2
Mean	13.3	13.7	11.7	12.4	14.1	11.5	12.7

Table 9: (Continued)

Location	S55-35	S55-19	Macoupin	Boone	Mean
		East Coast			
Williamsburg, Va.	14.4	14.0	15.1	13.9	14.3
Hartsville, S.C.	14.4	12.6	12.4	11.9	12.6
Mean	14.4	13.3	13.8	12.9	13.4
		Upper and Central South			
Orange, Va.	17.0	16.4	15.5	14.5	15.9
Jackson, Tenn.	14.1	-	13.5	12.2	13.2
Crossville, Tenn.	14.2	-	13.3	11.1	13.4
Knoxville, Tenn.	13.4	-	12.5	12.0	12.4
Blacksburg, Va.	15.7	16.4	16.0	16.9	16.6
Columbia, Tenn.	13.8	-	13.3	13.1	13.0
Mean	14.7	-	14.0	13.3	14.1
		Delta			
Stoneville, Miss.	14.9	12.9	11.2	11.8	12.7
Tunica, Miss.	15.6	13.5	13.3	13.9	13.9
Sikeston, Mo.	17.5	15.3	14.9	15.0	15.1
Opelousas, La.	14.5	14.1	13.9	12.5	13.9
Crowley, La.	14.9	12.8	15.3	13.2	14.3
Melrose, La.	15.7	13.1	14.9	13.6	14.3
Baton Rouge, La.	13.3	11.9	12.5	11.0	12.0
Mean	15.2	13.4	13.7	13.0	13.7
		West			
Coweta, Okla.	14.9	13.1	13.4	13.2	13.8
Fairland, Okla.	13.5	13.3	12.6	11.8	12.6
Ysleta, Texas	15.6	13.6	15.3	14.8	14.1
Lubbock, Texas	16.0	14.0	14.0	15.0	14.5
Stillwater, Okla.	12.2	11.4	12.1	10.8	11.4
Miami, Okla.	12.9	12.6	11.9	10.4	11.4
Mean	14.2	13.0	13.2	12.7	13.0

Table 10: Summary of the percentage protein for the strains in the Uniform Test, Group IV-S, 1945.

Location	S100	C101	Gibson	Hongkong	Patoka	Chief	S55-10	S55-35	S55-19	Macoupin	Boone	Mean
						East Coast						
Williamsburg, Va.	44.3	41.2	40.8	40.7	42.8	40.9	43.2	43.7	42.7	41.2	42.4	42.2
Hartsville, S.C.	43.4	33.1	39.3	37.8	37.5	41.1	38.3	39.6	39.0	34.8	36.7	38.2
Mean	43.9	37.2	40.1	39.3	40.2	41.0	40.8	41.7	40.9	38.0	39.6	40.2
						Upper and Central South						
Orange, Va.	41.4	39.0	38.6	38.8	42.7	38.4	39.1	41.6	42.0	36.3	37.5	39.6
Jackson, Tenn.	39.2	35.3	34.6	-	38.6	38.1	37.2	38.3	-	35.4	34.9	36.8
Crossville, Tenn.	40.4	34.6	34.9	-	38.4	34.0	36.6	36.5	-	34.7	36.6	36.3
Knoxville, Tenn.	39.3	37.5	37.4	-	41.5	38.0	40.6	41.7	-	36.1	39.3	39.0
Blacksburg, Va.	42.2	39.6	40.6	39.6	42.3	40.2	42.5	42.3	42.7	38.5	41.8	41.1
Columbia, Tenn.	43.2	38.4	40.2	-	41.0	41.0	39.9	42.6	-	37.2	39.1	40.3
Mean	41.0	37.4	37.7	-	40.8	38.3	39.3	40.5	-	36.4	38.2	38.9
						Delta						
Stoneville, Miss.	45.6	42.8	42.9	43.1	44.6	43.3	44.3	45.3	44.4	42.5	43.0	43.8
Tunica, Miss.	39.8	40.3	40.8	39.9	38.8	39.6	41.4	42.1	41.8	39.8	42.4	40.6
Sikeston, Mo.	43.3	41.7	40.9	40.4	44.2	41.6	42.9	43.0	41.6	40.9	42.4	42.1
Opelousas, La.	45.1	40.2	41.3	41.7	44.4	43.7	43.1	44.4	42.4	42.6	43.8	43.0
Crowley, La.	45.3	42.7	40.8	42.0	44.4	41.0	43.2	44.8	42.9	43.5	43.7	43.1
Melrose, La.	44.0	43.6	43.9	43.4	46.2	45.1	43.6	43.4	44.5	44.0	45.5	44.3
Baton Rouge, La.	44.3	40.9	39.5	41.5	41.2	39.8	41.8	43.2	43.2	39.4	41.1	41.4
Mean	43.9	41.7	41.4	41.7	43.4	42.0	42.9	43.7	43.0	41.8	43.1	42.6
						West						
Cowota, Okla.	40.0	38.3	33.2	38.7	38.7	40.1	38.0	38.1	40.2	35.9	39.5	38.2
Fairland, Okla.	41.3	38.5	39.0	42.2	44.5	38.7	41.8	43.0	41.1	40.1	41.2	41.0
Ysleta, Texas	36.4	34.6	33.8	36.8	36.1	34.4	35.8	36.9	35.7	37.3	37.0	35.9
Lubbock, Texas	44.4	41.6	40.8	41.6	43.5	41.5	40.7	41.8	40.3	42.3	42.4	41.9
Stillwater, Okla.	37.3	36.0	37.8	35.4	39.5	41.4	40.6	42.1	40.7	38.4	39.2	38.9
Miami, Okla	33.3	30.6	30.8	33.2	35.4	32.8	33.4	35.6	34.6	32.7	31.0	33.0
Mean	38.8	36.6	35.9	38.0	39.6	38.2	38.4	39.6	38.8	37.8	38.4	38.2

Table 11: Summary of percentage oil for the strains of the Uniform Test, Group IV-S, 1945

Location	S100	C101	Gibson	Hongkong	Patoka	Chief	S55-10	S55-35	S55-19	Macoupin	Boone	Mean
						East Coast						
Williamsburg, Va.	18.9	21.7	20.5	20.1	21.0	20.8	20.4	19.1	20.8	21.9	20.7	20.5
Hartsville, S.C.	18.9	24.2	23.1	21.9	23.2	22.2	22.1	22.4	22.0	23.0	24.1	22.5
Mean	18.9	23.0	21.8	21.0	22.1	21.5	21.3	20.8	21.4	22.5	22.4	21.5
						Upper and Central South						
Orange, Va.	19.9	21.7	21.8	20.9	21.1	22.3	21.3	20.4	21.3	22.7	22.3	21.4
Blacksburg, Va.	19.2	20.7	19.6	20.1	20.1	20.0	19.4	19.0	19.5	21.7	20.5	20.0
Jackson, Tenn.	21.0	23.5	23.9	-	23.6	23.5	23.5	22.5	-	24.0	24.1	23.3
Crossville, Tenn.	20.8	23.5	22.6	-	23.3	23.6	23.1	22.5	-	23.7	22.9	22.9
Knoxville, Tenn.	19.9	21.9	22.2	-	21.5	22.2	21.2	20.7	-	22.8	22.1	21.6
Columbia, Tenn.	17.8	20.8	19.8	-	20.5	20.4	20.1	19.3	-	22.5	21.9	20.3
Mean	19.8	22.0	21.7	-	21.7	22.0	21.4	20.7	-	22.9	22.3	21.6
						Delta						
Stoneville, Miss.	17.4	20.0	19.4	19.1	20.5	20.9	20.1	19.6	20.6	20.6	19.9	19.8
Tunica, Miss.	20.7	21.1	21.4	20.6	21.6	21.7	21.6	20.5	21.3	22.0	20.8	21.2
Sikeston, Mo.	19.6	21.2	21.3	20.4	20.7	21.7	20.6	20.2	20.8	21.7	21.1	20.8
Opelousas, La.	19.0	21.3	21.4	20.6	20.9	21.8	21.3	21.0	21.4	21.3	20.4	20.9
Crowley, La.	19.7	21.3	22.1	21.2	21.8	22.5	21.4	20.5	21.4	22.0	20.8	21.3
Melrose, La.	19.7	19.8	18.1	20.6	18.5	20.7	19.2	19.6	19.4	20.1	19.4	19.6
Baton Rouge, La.	19.2	21.0	22.0	22.0	22.8	21.6	22.1	20.9	21.7	21.6	21.5	21.5
Mean	19.3	20.8	20.8	20.6	21.0	21.6	20.9	20.3	20.9	21.4	20.6	20.7
						West						
Coweta, Okla.	20.9	23.0	24.8	21.9	23.2	23.5	23.1	22.6	23.0	23.9	22.9	23.0
Fairland, Okla.	20.7	20.7	21.7	19.8	20.6	23.1	21.5	20.8	21.6	22.0	21.5	21.3
Ysleta, Texas	22.8	23.7	23.5	22.6	23.9	23.5	24.0	23.4	23.5	23.6	23.5	23.5
Lubbock, Texas	18.5	20.5	20.8	20.3	20.2	20.1	21.6	20.4	21.5	20.4	20.1	20.4
Stillwater, Okla.	19.9	22.5	21.9	21.0	21.2	19.8	20.2	19.1	19.8	21.7	22.9	20.9
Miami, Okla.	21.1	24.9	23.4	23.0	24.5	26.0	24.8	22.9	24.6	25.4	27.2	24.3
Mean	20.7	22.6	22.7	21.4	22.3	22.7	22.5	21.5	22.3	22.8	23.0	22.2

Table 12: Summary of iodine number of oil for the strains in the Uniform Test, Group IV-S, 1945

Location	S100	C101	Gibson	Hongkong	Patoka	Chief	S55-10	S55-35	S55-19	Macoupin	Boone	Mean
					East Coast							
Williamsburg, Va.	133.0	135.1	137.1	138.6	133.2	134.6	135.1	135.0	134.8	134.3	131.7	134.8
Hartsville, S.C.	129.2	135.7	132.3	139.3	134.4	131.8	134.5	132.1	134.3	132.1	129.9	133.2
Mean	131.1	135.4	134.7	139.0	133.8	133.2	134.8	133.6	134.6	133.2	130.8	134.0
					Upper and Central South							
Orange, Va.	132.1	132.1	133.3	136.2	131.2	130.0	132.5	131.3	132.2	132.1	130.7	132.2
Jackson, Tenn.	128.4	131.8	131.7	-	132.3	129.5	133.4	131.3	-	130.8	129.3	130.9
Crossville, Tenn.	130.7	131.0	132.1	-	128.9	130.9	132.2	131.7	-	131.1	135.4	131.6
Knoxville, Tenn.	125.9	129.4	130.0	-	128.9	130.3	130.3	129.9	-	128.8	127.5	129.0
Blacksburg, Va.	133.3	132.9	133.3	135.4	131.7	133.2	129.3	131.5	131.3	132.2	127.6	132.0
Columbia, Tenn.	128.0	124.6	128.8	-	126.0	123.3	129.9	127.4	-	123.2	123.2	126.0
Mean	129.7	130.3	131.5	-	129.8	129.5	131.3	130.5	-	129.7	129.0	130.3
					Delta							
Stoneville, Miss.	133.8	134.3	131.0	137.0	133.4	130.9	135.1	132.2	135.0	131.8	129.6	133.1
Tunica, Miss.	129.5	119.8	126.1	126.9	129.7	124.5	129.3	127.2	128.3	126.9	125.8	126.7
Sikeston, Mo.	128.6	127.4	128.8	134.5	129.4	128.3	129.9	128.2	130.4	125.5	126.0	128.8
Opelousas, La.	126.4	128.2	128.8	134.8	130.9	126.3	130.4	128.3	129.9	125.3	118.3	128.0
Crowley, La.	122.9	124.1	129.4	134.5	129.9	129.6	131.5	127.7	131.2	122.1	120.1	127.5
Melrose, La.	129.3	129.3	134.7	128.7	133.7	129.2	133.0	129.7	133.4	128.3	115.3	129.5
Baton Rouge, La.	130.6	132.6	130.1	135.7	131.8	132.6	132.1	130.6	131.7	132.7	128.8	131.8
Mean	128.7	128.0	129.8	133.2	131.3	128.8	131.6	129.1	131.4	127.5	123.4	129.3
					West							
Cowota, Okla.	126.3	129.7	129.2	132.9	130.9	128.6	131.6	129.6	130.6	128.5	126.1	129.5
Fairland, Okla.	123.5	124.3	124.8	129.3	124.9	127.9	126.9	126.8	126.4	121.8	119.9	125.1
Ysleta, Texas	124.2	125.6	126.0	130.9	126.4	125.7	126.4	124.6	127.1	121.7	121.7	125.5
Lubbock, Texas	127.2	123.3	125.3	127.3	124.0	123.2	128.0	126.0	128.2	121.7	122.0	125.1
Stillwater, Okla.	124.9	124.1	126.9	131.6	127.8	124.1	129.4	129.3	130.3	123.8	122.2	126.8
Miami, Okla.	126.0	123.2	125.4	130.1	123.5	125.5	127.5	126.4	127.9	124.9	123.6	125.8
Mean	125.4	125.0	126.3	130.4	126.3	125.9	128.3	127.1	128.4	123.7	122.6	126.3

Uniform Test, Group VI

The Uniform Variety Test, Group VI, was composed of eight named varieties, one introduction and two new strains. The origin of these varieties and strains is as follows:

Variety or Strain	Originating Agency	
Arksoy 2913	Ark. Agr. Exp. Sta.	Selection from Arksoy
Armredo	Ariz. Agr. Exp. Sta.	Selection from Mamredo
Delsoy	U.S. Dept. of Agr.	P.I. 85355
Magnolia	U.S. Dept. of Agr.	P.I. 85537 from Suigen, China, 1929
Mamredo	Delta Station, Stoneville, Miss.	Sel. from a cross (Mammoth Yellow x Laredo)
Ogden	Tenn. Agr. Exp.	Sel. from a cross (Tokyo x P.I. 54610)
Ralsoy	Purina Mills, G.H. Banks	Sel. from Arksoy 2913
Rose Non-Pop	W.P. Rose, Goldsboro, N.C.	Origin unknown
P.I. 97066	U.S. Dept. of Agr.	Nanmen, Chosen, 1930
2-40A	Paul B. Hutchens	Sel. from Arksoy
6-40M	Paul B. Hutchens	Sel. from a mixed seed lot

Uniform Test, Group VI

In planning the variety tests for 1945, it was apparent from the 1944 data that the differences in maturity of the varieties of group IV as compared to those of group V were too wide to be covered by these two variety groups. Eventually a new group would have to be formed for testing such varieties. Under these circumstances, it appeared desirable to make these changes now before the group numbers became too firmly established over the region even though varieties were not available for testing at this time. Under this arrangement the new group was designated as Uniform Test V, and the groups V, VI and VII, as grown in 1944, became VI, VII and VIII, respectively, in the 1945 tests.

Delsoy and Rose Non-Pop because of maturity were shifted from the later group as grown in 1944 to group VI. As 26-39M was found to be too late for group VI, it was entered in group VII in 1945. N41-39 was omitted since it was low in yield and did not appear particularly desirable in other respects.

Thirty-five Uniform Tests of group VI were grown over the southern region in 1945. The yields, other agronomic and chemical data are given in tables 13 to 23 inclusive. Ogden continued to be the outstanding variety of group VI maturity, and is recommended across the upper half of the southern region. Although this variety shatters under dry conditions at harvest, shattering in general was not as severe in 1945 as in the previous year. Ogden is being used in crosses in the breeding program to develop high-yielding, non-shattering strains.

Rose Non-Pop, 2-40A and Delsoy made good yields at many locations in the upper half of the southern region. Arksoy 2913 has yielded well in Tennessee and northern Arkansas. Armredo has made a good showing on less fertile soils at a number of locations in the region.

Table 13: Summary of the agronomic and chemical data for the strains of the Uniform Test, Group VI, 1945

	No. of Locations	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Arksoy 2-40A	Ralsoy	Armredo	6-40M	Mamredo	Magnolia	P.I. 97066	Mean
						1945 Yields							
Eastern Coast	5	39.8	31.7	28.3	29.8	28.5	28.2	25.7	26.8	25.6	27.0	27.3	29.0
Southeast	4	21.2	19.3	17.7	18.6	19.9	18.9	21.6	17.0	13.7	15.3	14.6	18.0
Cen. & Upper South	7	24.8	21.5	20.0	22.0	21.4	20.7	18.1	21.4	21.2	17.1	18.5	20.6
Delta	12	29.4	23.4	21.4	19.8	20.1	19.5	19.7	19.4	19.0	20.0	17.9	20.9
West	7	20.8	17.9	15.4	14.3	14.0	15.1	16.0	12.5	12.2	12.0	12.0	14.7
Mean		27.3	22.6	20.5	20.4	20.3	20.0	19.7	19.2	18.4	18.2	17.8	20.4
						1944-45 Yields							
East Coast	2	34.2	-	24.6	22.3	23.3	-	20.8	19.1	20.4	22.5	24.4	
Southeast	3	19.8	17.6	16.7	17.2	-	16.1	-	-	13.8	14.8	14.6	
Cen. & Upper South	5	22.0	-	-	20.3	-	17.7	18.4	19.3	19.2	18.2	18.0	
Delta	9	31.5	24.5	20.3	22.2	23.7	20.6	23.4	21.4	21.7	21.8	19.4	
West	6	23.2	-	-	16.3	17.1	-	16.1	14.1	14.8	14.6	14.4	
Mean		26.1	-	-	19.7	-	-	-	-	18.0	18.4	18.2	
						1943-45 Yields							
East Coast	2	32.6	-	25.0	22.5	-	-	-	-	20.1	21.7	24.4	
Southeast	1	15.4	-	-	17.1	-	16.9	-	-	14.8	14.2	17.5	
Cen. & Upper South	5	22.9	-	-	18.8	-	16.9	-	-	17.9	16.0	17.2	
Delta	6	27.5	-	19.8	19.2	-	18.0	-	-	19.7	19.1	17.8	
West	4	15.9	-	-	11.4	-	-	-	-	10.7	9.8	10.1	
Mean		22.9	-	-	17.8	-	17.3	-	-	16.6	16.2	17.4	-
						Maturity							
East Coast	3	0	2	3	1	1	0	2	-2	2	-2	-3	
Southeast	4	0	0	0	0	1	-2	0	-3	-1	9	-2	
Cen. & Upper South	5	0	1	6	-5	-3	-5	0	-1	2	2	-8	
Delta	8	0	5	5	2	2	2	4	2	6	2	-1	
West	5	0	5	5	-4	-1	-3	4	-1	3	5	-3	
Mean		0	3	4	-1	0	-2	2	-1	2	3	-3	

Table 13: (Continued)

	No. of Locations	Ogden	Rose N.P.	Delsoy	Arksoy 2913	2-40A	Ralsoy	Armredo	6-40M	Mamredo	Magnolia	P.I. 97066	Mean
						Lodging							
East Coast	5	1.4	1.8	2.2	1.8	1.8	1.8	2.6	1.8	2.4	3.6	3.1	2.2
Southeast	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Cen. & Upper South	7	1.4	1.6	2.3	2.2	1.6	2.2	2.6	2.0	2.8	2.7	2.6	2.2
Delta	10	1.7	2.1	3.2	2.1	2.2	2.0	3.2	2.3	2.8	3.9	3.5	2.6
West	7	1.2	2.4	2.6	2.1	2.0	1.8	2.5	2.0	2.4	2.5	3.0	2.2
Mean		1.3	1.8	2.3	1.8	1.7	1.8	2.4	1.8	2.3	2.7	2.6	2.0
						Height							
East Coast	4	33	34	32	31	32	33	31	27	34	39	39	33
Southeast	2	29	31	32	31	32	33	31	27	34	39	39	33
Cen. & Upper South	7	35	36	36	34	34	35	33	29	39	41	40	36
Delta	12	29	30	30	28	29	29	30	23	33	43	36	31
West	7	32	33	31	28	28	27	31	24	32	34	35	31
Mean		32	33	32	30	31	31	31	26	34	39	38	32
						Seed Quality							
East Coast	4	1.8	2.0	2.3	2.0	1.8	1.8	2.0	1.8	2.3	2.3	2.3	2.0
Southeast	3	1.7	1.7	1.7	1.8	2.1	1.7	1.6	1.5	1.5	2.4	2.1	1.8
Cen. & Upper South	7	2.1	2.3	2.2	2.2	2.0	1.9	2.0	1.9	2.6	2.5	2.4	2.2
Delta Area	10	2.6	2.3	2.1	2.5	2.5	2.3	2.2	2.3	3.2	2.7	2.8	2.5
West	7	2.0	1.9	2.0	2.3	2.5	2.4	2.0	2.0	2.6	2.3	2.5	2.2
Mean		2.0	2.0	2.1	2.2	2.2	2.0	2.0	1.9	2.4	2.4	2.4	2.1
						Weight of Beans							
East Coast	5	15.8	14.1	14.6	14.2	14.8	14.4	11.4	18.7	14.6	14.3	12.9	14.5
Southeast	4	14.1	12.4	13.1	12.9	13.9	13.2	10.1	16.8	13.0	13.7	11.6	13.1
Cen. & Upper South	7	16.3	13.7	14.6	13.7	14.2	13.9	10.9	17.9	14.9	13.8	12.8	14.2
Delta	12	15.1	12.9	13.8	12.8	14.1	13.7	11.1	17.5	13.8	14.0	11.9	13.7
West	6	15.2	13.1	14.4	12.9	13.6	13.4	11.0	17.0	14.5	13.8	12.5	13.8
Mean		15.3	13.2	14.1	13.3	14.1	13.7	10.9	17.6	14.2	13.9	12.3	13.9

Table 13: (Continued)

	No. of Locations	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Arksoy 2-40A	Ralsoy	Arm-redo	6-40M	Mam-redo	Mag-nolia	P.I. 97066	Mean
						% Protein							
East Coast	5	41.2	42.5	45.5	44.1	43.6	44.3	42.7	42.9	42.0	43.0	44.2	43.3
Southeast	4	39.2	38.0	42.2	42.6	42.3	42.4	41.8	41.4	39.6	40.6	40.2	41.0
Cen. & Upper South	7	38.7	37.6	41.5	42.4	40.2	41.5	40.6	42.0	40.1	41.3	41.9	40.7
Delta	12	41.2	40.8	43.8	44.0	43.5	43.9	41.5	43.2	41.7	42.7	43.2	42.8
West	6	42.3	41.8	44.0	42.9	42.7	43.4	42.0	43.1	41.6	42.6	43.4	42.7
Mean		40.5	40.1	43.4	43.2	42.5	43.1	41.7	42.5	41.0	42.0	42.6	42.1
						% Oil							
East Coast	5	20.9	19.6	17.2	19.6	20.3	19.7	19.0	20.3	19.4	20.4	19.5	19.6
Southeast	4	22.7	22.0	19.2	21.3	21.9	21.7	20.0	21.4	21.3	21.9	21.3	21.4
Cen. & Upper South	7	22.5	21.6	19.3	20.8	21.9	21.3	20.3	20.8	20.3	21.4	20.3	21.0
Delta	12	21.1	20.4	18.3	19.8	20.6	20.0	19.9	19.9	19.7	20.3	19.5	19.9
West	6	20.3	19.3	17.3	19.6	20.4	19.8	19.2	19.5	20.0	20.0	19.4	19.5
Mean		21.5	20.6	18.3	20.2	21.0	20.5	19.7	20.4	20.1	20.8	20.0	20.3
						Iodine No. of Oil							
East Coast	5	135.8	132.3	134.6	133.7	133.5	133.4	135.7	127.6	131.2	128.8	129.3	132.3
Southeast	4	132.0	128.8	132.3	129.3	127.0	129.8	133.5	126.3	124.1	126.9	129.9	129.1
Cen. & Upper South	7	132.5	130.4	133.0	131.4	130.2	131.1	133.6	127.1	127.1	129.6	131.3	130.7
Delta	12	134.3	129.6	133.9	132.8	130.7	132.3	134.1	128.6	128.6	128.9	129.3	131.2
West	6	131.4	129.9	133.8	130.6	129.2	130.0	134.3	127.2	125.7	130.3	130.1	130.2
Mean		133.2	130.2	133.5	131.6	130.1	131.3	134.2	127.4	127.3	128.9	130.0	130.7

Table 14: Summary of yield in bushels per acre for the strains of the Uniform Test, Group VI, 1945

Location	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Ralsoy	2-40A	Arm-redo	6-40M	Mam-redo	Mag-nolia	P.I. 97066	Mean	Coef. of Var.	Bu.Nec. for Sig (5%)
						East Coast								
Williamsburg, Va.	49.3	41.6	35.3	40.1	34.4	36.2	32.1	41.6	34.8	34.8	39.4	38.1	10.7	5.9
McCullers, N.C.	49.0	33.5	30.1	33.2	30.6	33.9	24.3	28.2	27.6	26.7	35.7	32.1	20.0	9.3
Rocky Mount, N.C.	35.9	32.0	24.2	30.2	29.3	30.5	23.6	20.4	19.3	29.3	27.2	27.4	26.0	10.4
Hartsville, S.C.	24.5	22.5	25.9	25.4	25.3	24.0	29.6	26.0	33.7	21.8	17.4	25.1	10.0	3.8
Plymouth, N.C.	40.2	28.7	26.1	20.3	21.5	18.0	18.9	17.9	12.7	22.4	16.8	22.1	18.0	5.6
Mean	39.8	31.7	28.3	29.8	28.2	28.5	25.7	26.8	25.6	27.0	27.3	29.0		
						Southeast								
Monetta, S.C.	24.7	23.3	21.6	23.4	25.1	24.1	21.2	22.6	20.2	24.2	26.4	23.3	14.0	4.6
Fairhope, Ala.	32.6	22.5	23.0	22.2	20.9	23.1	22.0	18.8	12.1	21.4	21.1	21.8	15.0	4.6
Blackville, S.C.	19.5	17.5	12.4	17.7	18.1	18.7	26.1	13.7	13.2	10.4	7.0	15.8	17.9	4.1
Auburn, Ala.	7.8	13.9	13.8	11.1	11.5	13.5	17.0	12.9	9.2	5.3	3.9	10.9	26.0	4.1
Mean	21.2	19.3	17.7	18.6	18.9	19.9	21.6	17.0	13.7	15.3	14.6	18.0		
						Central and Upper South								
Clemson, S.C. (1)	37.7	37.2	31.9	28.5	28.0	26.0	24.8	31.9	31.1	16.0	29.4	29.3	16.9	7.1
Clemson, S.C. (2)	23.6	20.3	18.1	20.4	21.0	24.4	20.2	20.6	18.4	13.6	12.7	19.4	14.5	4.0
Crossville, Tenn.	31.6	22.0	21.2	31.2	26.4	27.0	19.9	30.3	27.1	27.1	28.6	26.6	11.3	4.3
Jackson, Tenn.	30.2	25.8	24.6	27.3	27.2	-	18.4	25.8	27.7	23.6	21.0	25.1	13.1	4.8
Knoxville, Tenn.	21.8	17.3	16.3	15.5	15.0	17.4	14.8	13.7	15.4	12.7	14.4	15.8	11.4	2.6
Columbia, Tenn.	15.0	16.2	15.4	18.6	15.1	-	15.8	15.2	17.2	15.1	11.9	15.5	14.8	2.8
Watkinsville, Ga.	13.6	11.6	12.2	12.8	12.1	12.4	12.5	12.4	11.2	11.7	11.6	12.2	11.6	2.1
Mean	24.8	21.5	20.0	22.0	20.7	21.4	18.1	21.4	21.2	17.1	18.5	20.6		

Table 14: (Continued)

Location	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Ralsoy	2-40A	Arm-redo	6-40M	Mam-redo	Mag-nolia	PI 97066	Mean	Coef. of Var.	Bu. Nec. for Sig.(5%)
						Delta								
Sikeston, Mo.	31.7	30.5	31.5	32.9	29.1	30.1	29.4	28.6	29.3	31.4	29.6	30.4	7.2	3.2
Clarkedale, Ark.	46.8	34.5	32.6	29.5	26.9	26.0	21.7	29.6	28.8	23.4	23.7	29.4	18.9	8.0
Tunica, Miss.	36.9	29.7	31.7	26.1	28.4	21.4	24.2	27.6	27.0	20.9	22.1	26.9	10.9	4.1
Winchester, Ark.	33.3	27.2	25.2	27.5	28.0	28.8	22.5	22.1	28.5	19.5	17.2	25.4	15.3	5.6
Anchorage, Miss.	37.3	26.9	22.1	16.5	22.8	16.0	25.5	21.9	18.0	17.4	15.6	21.8	18.3	5.8
Onward, Miss.	31.0	31.1	25.2	18.0	24.3	24.0	18.3	17.3	13.4	18.7	12.0	21.2	18.9	5.8
Marianna, Ark	26.3	21.4	19.3	23.2	20.2	23.2	17.1	20.5	20.0	20.2	18.9	20.9	8.4	2.5
Stoneville, Miss.	26.7	23.9	17.6	16.0	16.2	20.3	20.1	14.4	15.7	21.0	20.1	19.3	15.2	4.2
Stuttgart, Ark.	22.7	17.7	16.2	16.8	14.1	19.2	17.1	15.5	17.0	16.2	15.9	17.1	21.1	5.2
Baton Rouge, La.	18.6	15.5	16.6	13.7	9.3	15.0	21.0	12.2	11.0	19.6	10.5	14.8	23.6	5.0
Crowley, La.	20.4	15.2	13.4	13.9	11.9	13.9	9.8	16.8	14.6	12.0	11.3	13.9	15.9	3.2
Opelousas, La.	21.0	6.8	5.5	3.0	2.7	3.8	9.9	5.8	4.7	-	-	7.0		
Mean	29.4	23.4	21.4	19.8	19.5	20.1	19.7	19.4	19.0	20.0	17.9	20.9		
						West								
Coweta, Okla.	37.5	29.3	28.3	24.0	28.0	28.2	26.6	21.4	24.4	22.8	24.2	26.8	17.4	6.7
Hope, Ark.	37.7	28.1	24.2	20.4	21.8	24.8	21.9	19.9	15.2	15.6	14.2	22.2	15.2	4.9
Heavener, Okla.	18.4	14.1	14.3	17.2	16.9	14.3	16.5	17.1	17.9	13.7	17.6	16.2	10.8	2.5
Fayetteville, Ark.	26.0	18.5	19.5	14.0	10.1	4.4	15.7	16.8	16.3	18.0	16.7	16.0	17.7	4.1
Stillwater, Okla.	12.1	13.0	10.4	8.0	9.1	11.3	7.6	5.1	6.7	7.9	7.6	9.0	29.6	3.9
Lubbock, Texas	11.2	5.6	7.6	9.1	10.4	9.6	8.4	5.2	3.6	4.5	3.1	7.1	14.6	1.5
Ysleta, Texas	2.4	16.5	3.8	7.3	9.1	5.2	15.0	2.3	1.4	1.6	.8	5.9	31.3	2.7
Mean	20.8	17.9	15.4	14.3	15.1	14.0	16.0	12.5	12.2	12.0	12.0	14.7		

Table 15: Summary of two-year average yields of the strains of Uniform Test, Group VI, 1944-45

Location	Ogden	2-40A	Arksoy	Armredo	Mamredo	6-40M
			East Coast			
Plymouth, N.C.	35.4	22.1	21.7	22.0	18.5	18.9
McCullers, N.C.	32.9	24.5	22.8	19.5	22.3	19.2
Mean	34.2	23.3	22.3	20.8	20.4	19.1
			Southeast			
Monetta, S.C.	20.1	20.8	19.5	17.9	16.5	18.5
Auburn, Ala.	13.8	-	15.1	-	13.8	-
Fairhope, Ala.	25.5	-	17.0	-	11.0	-
Mean	19.8		17.2		13.8	
			Upper and Central South			
Crossville, Tenn.	29.5	24.3	26.8	20.5	25.0	26.7
Jackson, Tenn.	23.1	-	21.7	18.3	21.9	21.0
Knoxville, Tenn.	24.4	22.2	20.0	20.2	17.8	19.1
Columbia, Tenn.	17.3	-	18.6	17.7	18.4	16.2
Watkinsville, Ga.	15.8	13.5	13.7	15.2	12.9	13.4
Mean	22.0		20.3	18.4	19.2	19.3
			Delta			
Clarkedale, Ark.	46.0	30.5	27.5	25.6	27.5	31.5
Marianna, Ark.	35.6	31.3	30.6	26.6	28.1	25.7
Stoneville, Miss.	38.6	26.7	20.8	25.6	23.0	22.5
Tunica, Miss.	31.1	23.0	27.1	24.6	23.2	23.5
Anchorage, Miss.	33.6	18.6	19.1	26.2	20.2	22.2
Winchester, Ark.	24.6	21.8	22.8	20.1	20.0	18.9
Baton Rouge, La.	22.2	18.4	14.8	22.4	14.3	11.8
Stuttgart, Ark.	20.1	19.2	14.6	15.8	17.0	14.9
Opelousas, La.	31.6	13.6	11.9	17.5	11.1	13.7
Mean	31.5	23.7	22.2	23.4	21.7	21.4
			West			
Coweta, Okla.	40.3	30.7	28.8	26.8	24.1	20.6
Lubbock, Texas	21.7	19.5	15.3	18.5	14.0	15.9
Hope, Ark.	26.1	16.4	14.2	16.2	11.4	15.6
Fayetteville, Ark.	20.5	8.5	13.2	11.8	14.6	12.8
Heavener, Okla.	14.0	12.0	13.4	13.7	14.4	13.3
Stillwater, Okla.	16.7	15.7	12.9	9.3	10.2	6.4
Mean	23.2	17.1	16.3	16.1	14.8	14.1

Table 15: (Continued)

Location	Magnolia	P.I. 97066	Rose N.P. 1/	Delsoy 1/	Ralsoy 1/	Mean
		East Coast				
Plymouth, N.C.	24.0	21.5	-	25.8	-	23.0
McCullers, N.C.	20.9	27.3	24.5	23.3	22.9	23.6
Mean	22.5	24.4	-	24.6	-	23.3
		Southeast				
Monetta, S.C.	18.3	20.6	18.0	15.8	18.6	19.0
Auburn, Ala.	8.6	8.9	17.4	-	14.0	-
Fairhope, Ala.	17.5	14.3	17.3	17.6	15.8	-
Mean	14.8	14.6	17.6	16.7	16.1	-
		Upper and Central South				
Crossville, Tenn.	25.3	25.1	-	-	23.2	25.4
Jackson, Tenn.	19.8	17.9	-	-	19.7	20.5
Knoxville, Tenn.	18.3	18.5	-	-	18.4	20.1
Columbia, Tenn.	14.8	14.6	-	-	15.0	16.8
Watkinsville, Ga.	12.8	14.0	11.6	10.5	12.2	13.9
Mean	18.2	18.0			17.7	19.3
		Delta				
Clarkedale, Ark.	30.1	26.8	32.4	28.4	20.3	30.7
Marianna, Ark.	27.0	27.8	26.8	22.3	26.2	29.1
Stoneville, Miss.	26.2	24.5	25.6	24.0	25.7	24.7
Tunica, Miss.	17.8	16.9	-	-	25.4	23.4
Anchorage, Miss.	19.0	18.0	24.5	18.8	22.9	22.1
Winchester, Ark.	18.3	16.1	20.1	19.5	-	20.3
Baton Rouge, La.	21.6	10.1	-	13.1	10.6	17.0
Stuttgart, Ark.	14.6	15.1	17.6	16.1	12.9	16.4
Opelousas, La.	-	-	-	-	-	-
Mean	21.8	19.4	24.5	20.3	20.6	22.8
		West				
Coweta, Okla.	25.7	25.6	-	-	-	27.8
Lubbock, Texas	12.7	11.5	-	-	-	16.1
Hope, Ark.	13.8	11.4	21.9	20.9	13.2	15.6
Fayetteveille, Ark.	12.8	13.8	14.0	13.2	11.9	13.4
Heavener, Okla.	11.4	13.2	-	-	13.0	13.2
Stillwater, Okla.	11.1	11.1	-	-	-	11.7
Mean	14.6	14.4	-	-	-	16.3

1/ Not included in the mean.

Table 16: Summary of three-year average yields of the strains of Uniform Test, Group VI, 1943-45

Location	Ogden	Delsoy	Arksoy	Ralsoy	Mamredo	P.I. 97066	Magnolia	Mean
				East Coast				
McCullers, N.C.	33.0	25.7	23.2	24.9	21.6	26.1	21.1	25.1
Plymouth, N.C.	32.1	24.3	21.8	-	18.5	22.6	22.2	23.6
Mean	32.6	25.0	22.5	-	20.1	24.4	21.7	24.4
				Southeast				
Monetta, S.C.	15.4	-	17.1	16.9	14.8	17.5	14.2	16.0
				Upper and Central South				
Knoxville, Tenn.	29.6	-	20.7	18.8	18.2	18.2	15.1	20.1
Crossville, Tenn.	22.7	-	19.9	17.4	19.6	19.2	19.1	19.6
Jackson, Tenn.	22.8	-	19.2	17.7	19.2	17.3	19.0	19.2
Columbia, Tenn.	20.0	-	17.8	16.3	18.1	15.4	14.5	17.0
Watkinsville, Ga.	19.6	15.2	16.6	14.5	14.4	16.0	12.5	15.6
Mean	22.9	-	18.8	16.9	17.9	17.2	16.0	18.3
				Delta				
Stoneville, Miss.	39.0	27.6	23.9	25.8	24.6	23.9	24.1	27.0
Clarkedale, Ark.	36.7	26.5	23.1	19.0	23.0	22.6	24.7	25.1
Marianna, Ark.	26.7	18.6	22.5	20.2	20.8	20.3	19.2	21.2
Winchester, Ark.	21.2	16.6	18.6	-	17.0	13.6	15.0	17.0
Baton Rouge, La.	22.9	13.6	12.5	11.7	17.8	12.0	18.5	15.6
Stuttgart, Ark.	18.5	16.1	14.3	13.1	15.2	14.6	13.1	15.0
Mean	27.5	19.8	19.2	18.0	19.7	17.8	19.1	20.2
				West				
Hope, Ark.	21.5	17.2	12.8	16.0	10.0	9.3	11.2	13.0
Fayetteville, Ark.	16.3	-	10.4	-	11.4	10.8	9.3	11.4
Heavener, Okla.	12.0	-	11.5	11.6	12.3	11.6	9.6	11.4
Stillwater, Okla.	13.8	-	10.9	-	9.2	8.5	9.1	10.3
Mean	15.9	-	11.4	-	10.7	10.1	9.8	11.5

Table 17: Summary of maturity data, days earlier (-) or later than Ogden, for the strains of the Uniform Test, Group VI, 1945.

Location	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Ralsoy	2-40A	Armredo
			East Coast				
McCullers, N.C.	0	3	3	0	0	0	3
Rocky Mount, N.C.	0	3	6	3	3	3	3
Plymouth, N.C.	0	-3	0	0	-3	0	0
Mean		2	3	1	0	1	2
			Southeast				
Monetta, S.C.	0	0	0	-5	0	0	0
Fairhope, Ala.	0	-21	-21	-7	-21	-14	0
Blackville, S.C.	0	18	18	14	14	18	0
Auburn, Ala.	0	4	4	-1	0	0	-1
Mean	0	0	0	0	-2	1	0
			Upper and Central South				
Crossville, Tenn.	0	5	5	-9	-8	0	5
Jackson, Tenn	0	0	10	0	0	0	0
Knoxville, Tenn.	0	0	7	-4	0	0	-4
Columbia, Tenn.	0	0	4	-17	-17	-17	0
Watkinsville, Ga.	0	0	3	4	2	2	-2
Mean	0	1	6	-5	-5	-3	0
			Delta				
Sikeston, Mo.	0	4	8	1	1	5	5
Anchorage, Miss.	0	2	3	2	2	4	0
Marianna, Ark.	0	0	18	0	0	0	0
Stoneville, Miss.	0	14	3	1	2	2	4
Stuttgart, Ark.	0	2	2	2	2	2	12
Baton Rouge, La.	0	8	1	3	3	3	3
Crowley, La.	0	6	3	3	3	0	6
Opelousas, La.	0	7	1	3	3	1	2
Mean	0	5	5	2	2	2	4
			West				
Coweta, Okla.	0	0	5	0	0	0	10
Heavener, Okla.	0	6	4	-5	-4	3	5
Fayetteville, Ark.	0	11	11	-8	-8	-8	0
Stillwater, Okla.	0	9	6	-4	-2	4	6
Lubbock, Texas	0	1	1	-5	-4	-4	0
Mean		5	5	-4	-3	-1	4

Table 17: (Continued)

Location	6-40M	Mam-redo	Mag-Nolia	P.I. 97066	Ogden Planted	Ogden Matured	Days to Maturity
			East Coast				
McCullers, N.C.	0	0	0	-3	4/28	10/15	161
Rocky Mount, N.C.	0	6	-4	0	5/3	10/12	161
Plymouth, N.C.	-5	0	-3	-5	5/1	10/15	166
Mean	-2	2	-2	- 3			
			Southeast				
Monetta, S.C.	-11	0	4	-5	5/16	10/9	145
Fairhope, Ala.	-21	-4	0	-10	7/2	11/1	120
Blackville, S.C.	18	1	18	5	5/2	10/2	153
Auburn, Ala.	2	-1	13	0	4/27	10/8	163
Mean	-3	-1	9	-2			
			Upper and Lower South				
Crossville, Tenn.	-8	0	-9	-8	5/22	10/19	149
Jackson, Tenn.	2	10	8	-6	4/25	10/23	180
Knoxville, Tenn.	0	12	7	-4	5/23	10/15	144
Columbia, Tenn.	0	-10	0	-17	5/8	10/20	164
Watkinsville, Ga.	2	-1	4	-5	4/12	10/10	180
Mean	-1	2	2	-8			
			Delta				
Sikeston, Mo.	6	3	2	-8	5/21	10/20	152
Anchorage, Miss.	4	3	3	-	5/3	10/1	150
Marianna, Ark.	0	0	0	0	6/4	10/20	137
Stoneville, Miss.	3	5	4	2	5/22	10/4	134
Stuttgart, Ark.	2	12	3	-6	5/25	10/8	135
Baton Rouge, La.	1	10	-1	-2	4/30	10/2	154
Crowley, La.	6	10	8	8	6/14	9/25	102
Opelousas, La.	-5	8	0	-5	5/4	9/30	148
Mean	2	6	2	-1			
			West				
Coweta, Okla.	0	10	5	-2	5/11	10/20	161
Heavener, Okla.	4	5	12	0	6/2	10/15	134
Fayetteville, Ark.	-8	0	0	-8	5/12	10/25	166
Stillwater, Okla.	5	6	10	-3	5/2	10/14	164
Lubbock, Texas	-3	-4	0	-4	5/22	10/25	155
Mean	-1	3	5	-3			

Table 18: Summary of the lodging data of the strains of the Uniform Test, Group VI, 1945.

	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Ralsoy	2-40A
			East Coast			
Williamsburg, Va.	1.0	1.0	1.0	1.0	2.0	2.0
McCullers, N.C.	2.0	3.0	3.0	2.0	2.0	2.0
Rocky Mount, N.C.	2.0	2.0	3.0	2.0	2.0	2.0
Hartsville, S.C.	1.0	1.0	1.0	1.0	1.0	1.0
Plymouth, N.C.	1.0	2.0	3.0	3.0	2.0	2.0
Mean	1.4	1.8	2.2	1.8	1.8	1.8
			Southeast			
Monetta, S.C.	1.0	1.0	1.0	1.0	1.0	1.0
			Upper and Central South			
Clemson, S.C. (1)	2.0	4.0	3.0	4.0	4.0	2.0
Clemson, S.C. (2)	1.0	2.0	2.0	2.0	2.0	1.0
Crossville, Tenn.	1.5	1.0	1.8	2.3	2.0	1.8
Jackson, Tenn.	1.8	1.0	3.3	2.0	2.5	2.0
Knoxville, Tenn.	1.0	1.0	2.0	2.3	2.0	1.8
Columbia, Tenn.	1.5	1.0	2.0	2.0	2.0	1.5
Watkinsville, Ga.	1.0	1.0	1.0	1.0	1.0	1.0
Mean	1.4	1.6	2.3	2.2	2.2	1.6
			Delta			
Sikeston, Mo.	2.0	3.0	4.0	3.0	2.0	2.5
Clarkedale, Ark.	1.5	3.0	4.0	2.5	2.6	2.5
Winchester, Ark.	1.8	2.0	5.0	3.0	2.5	3.3
Anchorage, Miss.	2.0	2.0	3.0	2.5	2.0	2.3
Marianna, Ark.	1.3	1.3	4.0	1.7	2.7	2.7
Stoneville, Miss.	2.5	3.8	4.0	3.3	3.3	3.0
Stuttgart, Ark.	1.0	1.3	2.8	1.5	1.5	1.8
Baton Rouge, La.	2.0	2.0	2.0	1.0	1.0	2.0
Crowley, La.	1.0	1.0	1.0	1.0	1.0	1.0
Opelousa, La.	2.0	2.0	2.0	1.0	1.0	1.0
Mean	1.7	2.1	3.2	2.1	2.0	2.2
			West			
Coweta, Okla.	1.0	2.0	4.0	2.0	1.0	3.0
Hope, Ark.	1.8	2.0	2.8	2.5	3.0	2.3
Heavener, Okla.	1.0	3.0	2.0	2.0	2.0	2.0
Fayetteville, Ark.	1.3	3.3	4.0	2.3	1.3	1.8
Stillwater, Okla.	1.0	3.0	2.0	3.0	2.0	2.0
Lubbock, Texas	1.0	1.5	1.5	1.2	1.5	1.2
Ysleta, Texas	1.0	1.7	2.0	1.5	1.5	1.7
Mean	1.2	2.4	2.6	2.1	1.8	2.0

Table 18: (Continued)

	Armredo	6-40M	Manredo	Magnolia	P.I. 97066	Mean
			East Coast			
Williamsburg, Va.	2.0	2.0	1.0	2.0	2.0	1.5
McCullers, N.C.	4.0	2.0	3.0	5.0	3.5	2.9
Rocky Mount, N.C.	3.0	2.0	3.0	5.0	4.0	2.7
Hartsville, S.C.	1.0	1.0	1.0	1.0	1.0	1.0
Plymouth, N.C.	3.0	2.0	4.0	5.0	5.0	2.9
Mean	2.6	1.8	2.4	3.6	3.1	2.2
			Southeast			
Monetta, S.C.	1.0	1.0	1.0	1.0	1.0	1.0
			Upper and Central South			
Clemson, S.C. (1)	3.0	4.0	5.0	2.0	5.0	3.5
Clemson, S.C. (2)	5.0	1.0	2.0	3.0	4.0	2.3
Crossville, Tenn.	1.8	2.0	3.0	3.0	2.3	2.0
Jackson, Tenn.	3.3	2.3	2.8	3.5	2.8	2.5
Knoxville, Tenn.	2.5	1.8	3.0	3.3	1.8	2.0
Columbia, Tenn.	1.5	2.0	2.5	3.0	2.0	1.9
Watkinsville, Ga.	1.0	1.0	1.0	1.0	0	1.0
Mean	2.6	2.0	2.8	2.7	2.6	2.2
			Delta			
Sikeston, Mo.	3.8	3.0	2.3	2.8	3.0	2.9
Clarkedale, Ark.	5.0	2.7	2.7	4.7	3.5	3.2
Winchester, Ark.	4.3	2.5	4.0	4.8	5.0	3.5
Anchorage, Miss.	3.3	2.7	3.3	4.7	5.0	3.0
Marianna, Ark.	4.3	3.3	3.7	4.3	4.3	3.1
Stoneville, Miss.	3.8	2.8	3.8	5.0	4.5	3.6
Stuttgart, Ark.	2.3	1.8	2.0	3.3	3.3	2.1
Baton Rouge, La.	2.0	1.0	2.0	3.0	1.0	1.7
Crowley, La.	1.0	2.0	2.0	2.0	2.0	1.4
Opelousas, La.	2.0	1.0	2.0	4.0	3.0	1.9
Mean	3.2	2.3	2.8	3.9	3.5	2.6
			West			
Coweta, Okla.	4.0	2.0	3.0	3.0	4.0	2.6
Hope, Ark.	3.0	2.0	3.0	2.8	3.3	2.6
Heavener, Okla.	2.0	2.0	3.0	2.0	4.0	2.3
Fayetteville, Ark.	3.0	2.0	1.5	2.3	2.3	2.3
Stillwater, Okla.	2.0	2.0	3.0	2.0	3.0	2.3
Lubbock, Texas	1.5	2.0	1.3	2.5	2.0	1.6
Ysleta, Texas	2.2	1.7	1.7	3.0	2.5	1.9
Mean	2.5	2.0	2.4	2.5	3.0	2.2

Table 19: Summary of the height data for the strains of the Uniform Test, Group VI, 1946

Location	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Ralsoy	2-40A
			East Coast			
Williamsburg, Va.	24	28	24	23	22	26
McCullers, N.C.	36	36	32	36	36	36
Rocky Mount, N.C.	34	36	34	34	36	32
Plymouth, N.C.	36	36	36	30	36	34
Mean	33	34	32	31	33	32
			Southeast			
Monetta, S.C.	28	30	30	25	25	25
Blackville, S.C.	29	31	29	32	32	33
Mean	29	31	30	29	29	29
			Upper and Central South			
Clemson, S.C. (1)	32	30	30	32	28	28
Clemson, S.C. (2)	33	32	36	32	35	33
Crossville, Tenn.	40	42	41	41	42	44
Jackson, Tenn.	40	46	45	35	42	37
Knoxville, Tenn.	45	46	44	43	43	45
Columbia, Tenn.	31	34	31	30	34	28
Watkinsville, Ga.	24	24	24	24	24	24
Mean	35	36	36	34	35	34
			Delta			
Sikeston, Mo.	33	34	35	33	31	31
Clarkedale, Ark.	35	36	32	31	33	29
Tunica, Miss.	30	34	35	28	31	29
Winchester, Ark.	38	39	38	38	38	37
Anchorage, Miss.	24	26	27	25	28	25
Onward, Miss.	35	38	32	30	34	35
Marianna, Ark.	29	30	30	30	31	30
Stoneville, Miss.	34	35	33	29	34	34
Stuttgart, Ark.	22	24	23	25	22	24
Baton Rouge, La.	22	20	25	22	22	24
Crowley, La.	21	24	23	23	25	21
Opelousas, La.	24	23	28	24	23	25
Mean	29	30	30	28	29	29
			West			
Coweta, Okla.	30	30	36	28	28	30
Hope, Ark.	32	29	31	28	29	28
Heavener, Okla.	32	36	30	28	28	30
Fayetteville, Ark.	33	33	30	29	25	26
Stillwater, Okla.	32	38	31	27	27	31
Lubbock, Texas	26	27	26	26	26	27
Ysleta, Texas	36	37	34	29	26	27
Mean	32	33	31	28	27	28

Table 19: (Continued)

Location	Armredo	6-40M	Mamredo	Magnolia	P.I. 97066	Mean
		East Coast				
Williamsburg, Va.	24	26	26	26	24	25
McCullers, N.C.	30	26	36	48	48	36
Rocky Mount, N.C.	34	25	36	42	48	36
Plymouth, N.C.	36	30	36	38	36	35
Mean	31	27	34	39	39	33
		Southeast				
Monetta, S.C.	26	20	28	40	28	28
Blackville, S.C.	33	28	30	37	34	32
Mean	30	24	29	39	31	30
		Upper and Central South				
Clemson, S.C. (1)	36	28	28	33	42	32
Clemson, S.C. (2)	28	24	38	40	36	33
Crossville, Tenn.	37	34	47	46	43	42
Jackson, Tenn.	36	32	45	53	42	41
Knoxville, Tenn.	41	36	50	51	44	44
Columbia, Tenn.	30	30	39	35	37	33
Watkinsville, Ga.	22	18	24	30	34	25
Mean	33	29	39	41	40	36
		Delta				
Sikeston, Mo.	34	26	34	40	34	33
Clarkedale, Ark.	30	27	37	41	39	34
Tunica, Miss.	31	27	39	44	47	34
Winchester, Ark.	40	24	44	51	40	39
Anchorage, Miss.	28	20	29	42	29	28
Onward, Miss.	37	28	36	47	36	35
Marianna, Ark.	30	24	32	35	31	30
Stoneville, Miss.	31	26	38	47	34	34
Stuttgart, Ark.	24	19	25	32	25	24
Baton Rouge, La.	23	15	24	40	36	25
Crowley, La.	25	18	30	38	38	26
Opelousas, La.	23	18	24	56	46	29
Mean	30	23	33	43	36	31
		West				
Coweta, Okla.	30	24	28	36	36	31
Hope, Ark.	31	28	36	38	32	31
Heavener, Okla.	28	20	33	32	32	30
Fayetteville, Ark.	29	25	31	36	36	33
Stillwater, Okla.	31	19	35	34	35	31
Lubbock, Texas	27	25	27	28	29	27
Ysleta, Texas	38	29	35	37	45	34
Mean	31	24	32	34	35	31

Table 20: Summary of seed quality data for the strains of the Uniform Test, Group VI, 1946

Location	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Ralsoy	2-40A
			East Coast			
Williamsburg, Va.	1.0	1.0	2.0	2.0	1.0	1.0
McCullers, N.C.	1.0	1.0	2.0	1.0	1.0	1.0
Rocky Mount, N.C.	2.0	2.0	2.0	2.0	2.0	2.0
Plymouth, N.C.	3.0	4.0	3.0	3.0	3.0	3.0
Mean	1.8	2.0	2.3	2.0	1.8	1.8
			Southeast			
Monetta, S.C.	2.0	2.0	2.0	2.0	2.0	2.0
Fairhope, Ala.	1.2	2.0	1.8	1.2	1.2	2.2
Auburn, Ala.	1.8	1.0	1.2	2.2	1.8	2.0
Mean	1.7	1.7	1.7	1.8	1.7	2.1
			Upper and Central South			
Clemson, S.C. (1)	3.0	3.0	3.0	3.0	2.0	1.0
Clemson, S.C. (2)	3.0	3.0	3.0	3.0	2.0	2.0
Crossville, Tenn.	1.3	1.8	1.5	1.5	1.5	1.8
Jackson, Tenn.	1.5	2.3	2.0	2.0	2.0	2.5
Knoxville, Tenn.	1.8	1.8	2.3	2.3	2.5	2.5
Columbia, Tenn.	2.3	3.3	2.3	2.5	2.5	3.3
Watkinsville, Ga.	2.0	1.0	1.0	1.0	1.0	1.0
Mean	2.1	2.3	2.2	2.2	1.9	2.0
			Delta			
Sikeston, Mo.	1.0	1.0	1.0	1.0	1.0	1.0
Clarkedale, Ark.	1.8	1.3	1.0	1.3	1.0	1.5
Tunica, Miss.	2.0	2.0	2.1	2.6	2.3	2.6
Winchester, Ark.	2.8	2.5	3.0	2.5	2.5	2.8
Anchorage, Miss.	2.3	1.5	1.5	2.0	1.8	1.8
Onward, Miss.	2.8	3.0	2.3	2.3	2.0	2.5
Stoneville, Miss.	2.6	2.5	2.3	2.1	2.1	2.5
Baton Rouge, La.	4.0	3.0	2.0	3.0	3.0	2.0
Crowley, La.	3.0	2.0	2.0	3.0	2.0	3.0
Opelousas, La.	4.0	4.0	4.0	5.0	5.0	5.0
Mean	2.6	2.3	2.1	2.5	2.3	2.5
			West			
Coweta, Okla.	1.0	1.0	1.0	1.0	1.0	2.0
Hope, Ark.	3.3	2.0	2.8	2.5	3.3	2.5
Heavener, Okla.	3.0	2.0	2.0	3.0	3.0	3.0
Fayetteville, Ark.	1.0	1.3	2.0	1.8	2.8	2.3
Stillwater, Okla.	2.0	3.0	2.0	3.0	3.0	3.0
Lubbock, Texas	2.0	2.0	2.0	3.0	2.0	3.0
Ysleta, Texas	1.5	2.0	2.0	2.0	2.	1.7
Mean	2.0	1.9	2.0	2.3	2.4	2.5

Table 20: (Continued)

Location	Armredo	6-40M	Mamredo	Magnolia	P.I. 97066	Mean
		East Coast				
Williamsburg, Va.	1.0	1.0	1.0	2.0	2.0	1.4
McCullers, N.C.	2.0	1.0	2.0	2.0	1.0	1.4
Rocky Mount, N.C.	2.0	2.0	3.0	2.0	2.0	2.1
Plymouth, N.C.	3.0	3.0	3.0	3.0	4.0	3.2
Mean	2.0	1.8	2.3	2.3	2.3	2.0
		Southeast				
Monetta, S.C.	2.0	2.0	2.0	2.0	2.0	2.0
Fairhope, Ala.	1.5	1.0	1.5	2.5	2.0	1.6
Auburn, Ala.	1.2	1.5	1.0	2.8	2.2	1.7
Mean	1.6	1.5	1.5	2.4	2.1	1.8
		Upper and Central South				
Clemson, S.C. (1)	2.0	3.0	3.0	3.0	3.0	2.6
Clemson, S.C. (2)	2.0	2.0	4.0	3.0	4.0	2.8
Crossville, Tenn.	1.3	1.3	1.5	2.0	1.8	1.6
Jackson, Tenn.	2.5	1.3	2.5	3.0	2.3	2.2
Knoxville, Tenn.	2.8	2.3	3.3	2.5	2.0	2.4
Columbia, Tenn.	2.3	2.3	2.8	2.8	2.8	2.7
Watkinsville, Ga.	1.0	1.0	1.0	1.0	1.0	1.1
		Delta				
Sikeston, Mo.	1.0	1.0	1.0	1.0	1.0	1.0
Clarkedale, Ark.	1.8	1.8	2.5	2.3	2.3	1.7
Tunica, Miss.	2.0	2.1	4.0	2.8	3.0	2.5
Winchester, Ark.	3.5	2.8	2.5	3.0	2.3	2.7
Anchorage, Miss.	1.5	2.0	2.7	2.4	2.1	2.0
Onward, Miss.	2.5	3.0	3.8	4.0	4.0	2.9
Stoneville, Miss.	2.0	2.0	2.5	2.4	2.1	2.3
Baton Rouge, La.	2.0	2.0	5.0	3.0	4.0	3.0
Crowley, La.	2.0	2.0	3.0	3.0	4.0	2.6
Opelousas, La.	4.0	4.0	5.0	-	-	4.4
Mean	2.2	2.3	3.2	2.7	2.8	2.5
		West				
Coweta, Okla.	1.0	1.0	2.0	2.0	1.0	1.3
Hope, Ark.	3.3	2.3	3.8	2.3	3.8	2.9
Heavener, Okla.	2.0	2.0	3.0	3.0	2.0	2.5
Fayetteville, Ark.	3.0	2.5	1.8	1.0	3.0	2.0
Stillwater, Okla.	2.0	2.0	2.0	3.0	2.0	2.5
Lubbock, Texas	1.0	2.0	3.0	2.0	3.0	2.3
Ysleta, Texas	1.5	2.0	2.5	2.7	2.7	2.1
Mean	2.0	2.0	2.6	2.3	2.5	2.2

Table 21: Summary of seed weight in grams per 100 seeds for the strains in the Uniform Test, Group VI, 1945

Location	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Ralsoy	2-40A
			East Coast			
Williamsburg, Va.	14.7	13.4	15.7	14.5	14.1	14.8
McCullers, N.C.	16.4	15.1	14.5	15.0	15.1	15.5
Hartsville, S.C.	13.2	12.6	12.6	11.7	12.2	12.1
Rocky Mount, N. C.	17.3	15.0	14.7	15.7	16.4	16.2
Plymouth, N.C.	17.2	14.5	15.7	13.9	14.4	15.3
Mean	15.8	14.1	14.6	14.2	14.4	14.8
			Southeast			
Monetta, S.C.	15.0	13.6	13.3	14.5	14.4	14.8
Fairhope, Ala.	16.2	13.1	13.2	12.6	12.5	13.4
Blacksville, S.C.	12.4	11.7	13.0	12.4	12.8	13.5
Auburn, Ala.	12.6	11.0	12.7	12.2	13.0	13.9
Mean	14.1	12.4	13.1	12.9	13.2	13.9
			Central South			
Clemson, S.C. (1)	21.5	18.0	17.0	17.0	17.0	16.5
Clemson, S.C. (2)	16.5	14.5	16.0	15.0	15.0	15.5
Crossville, Tenn.	15.2	11.6	14.3	13.7	13.7	13.8
Jackson, Tenn.	14.8	11.0	13.0	11.9	13.2	12.7
Knoxville, Tenn.	15.5	13.4	14.0	11.1	11.8	13.0
Columbia, Tenn.	13.4	11.3	12.1	11.7	11.1	11.3
Watkinsville, Ga.	17.0	15.9	15.7	15.2	15.4	16.3
Mean	16.3	13.7	14.6	13.7	13.9	14.2
			Delta			
Sikeston, Mo.	16.2	14.3	16.2	14.6	15.5	16.1
Clarkedale, Ark.	16.2	11.4	13.7	12.4	13.7	14.2
Tunica, Miss.	14.8	12.2	14.0	13.1	14.6	14.3
Winchester, Ark.	16.1	14.7	14.8	14.5	15.2	15.9
Anchorage, Miss.	15.0	12.5	13.0	12.5	13.8	14.0
Onward, Miss.	19.2	17.5	17.5	14.7	16.6	16.5
Marianna, Ark.	14.9	13.0	13.7	12.7	13.6	14.5
Stoneville, Miss.	12.0	11.6	12.5	10.0	11.5	12.0
Stuttgart, Ark.	14.4	12.6	13.4	11.7	13.0	13.8
Baton Rouge, La.	12.9	12.6	12.8	12.4	12.1	13.0
Crowley, La.	15.7	12.1	12.7	13.7	13.0	13.3
Opelousas, La.	13.6	10.1	11.5	11.2	12.3	11.0
Mean	15.1	12.9	13.8	12.8	13.7	14.1
			West			
Coweta, Okla.	13.7	12.0	15.1	13.3	14.1	13.8
Hope, Ark.	18.3	14.8	15.9	14.7	14.8	15.5
Heavener, Okla.	12.9	10.9	11.9	10.9	11.1	11.8
Fayetteville, Ark.	16.0	13.6	16.4	13.8	14.4	14.6
Stillwater, Okla.	14.1	14.3	15.3	11.8	13.2	13.9
Lubbock, Texas	16.0	13.0	12.0	13.0	13.0	12.0
Mean	15.2	13.1	14.4	12.9	13.4	13.6

Table 21: (Continued)

Location	Armredo	6-40M	Mamredo	Magnolia	P.I. 97066	Mean
			East Coast			
Williamsburg, Va.	10.5	19.4	14.3	14.3	13.4	14.5
McCullers, N.C.	11.7	21.1	15.2	14.8	13.7	15.3
Rocky Mount, N.C.	11.9	19.1	16.3	15.2	14.3	15.6
Hartsville, S.C.	10.0	16.2	13.4	12.8	11.0	12.5
Plymouth, N.C.	12.7	17.5	13.9	14.5	11.9	14.7
Mean	11.4	18.7	14.6	14.3	12.9	14.5
			Southeast			
Monetta, S.C.	9.7	19.5	13.4	14.2	12.8	14.1
Fairhope, Ala.	9.7	16.9	13.5	14.4	13.2	13.5
Blacksville, S.C.	11.8	15.5	12.9	12.0	10.0	12.5
Auburn, Ala.	9.0	15.3	12.3	14.2	10.5	12.4
Mean	10.1	16.8	13.0	13.7	11.6	13.1
			Central South			
Clemson, S.C. (1)	12.5	22.5	18.0	17.0	15.5	17.5
Clemson, S.C. (2)	11.5	17.5	15.0	13.0	13.0	14.8
Crossville, Tenn.	10.6	19.0	14.5	14.4	13.5	14.0
Jackson, Tenn.	8.8	17.2	13.3	12.8	11.0	12.7
Knoxville, Tenn.	10.8	14.5	14.5	12.3	10.3	12.8
Columbia, Tenn.	9.8	15.3	13.8	13.2	12.0	12.3
Watkinsville, Ga.	12.3	19.2	15.4	14.1	14.3	15.5
Mean	10.9	17.9	14.9	13.8	12.8	14.2
			Delta			
Sikeston, Mo.	11.6	21.3	16.1	14.7	13.5	15.5
Clarkedale, Ark.	10.9	16.9	13.4	14.5	11.7	13.5
Tunica, Miss.	10.1	16.7	14.6	13.6	12.2	13.7
Winchester, Ark.	10.7	18.3	15.6	14.9	12.7	14.9
Anchorage, Miss.	10.0	18.2	13.0	12.5	11.5	13.3
Onward, Miss.	14.4	22.1	16.3	14.9	12.4	16.6
Marianna, Ark.	11.0	18.3	15.1	14.4	12.3	14.0
Stoneville, Miss.	9.5	14.0	11.8	12.8	9.5	11.6
Stuttgart, Ark.	10.4	18.1	14.8	13.9	11.5	13.4
Baton Rouge, La.	11.3	15.2	12.6	13.8	11.3	12.7
Crowley, La.	10.5	15.9	11.1	14.5	12.2	13.2
Opelousas, La.	12.4	14.8	10.6	-	-	11.9
Mean	11.1	17.5	13.8	14.0	11.9	13.7
			West			
Coweta, Okla.	11.1	18.5	15.6	13.6	14.1	14.1
Hope, Ark.	11.0	18.8	14.5	14.9	13.1	15.1
Heavener, Okla.	8.4	13.2	12.9	10.5	10.2	11.3
Fayetteville, Ark.	11.8	18.9	16.0	14.8	13.2	14.9
Stillwater, Okla.	12.6	17.3	14.9	15.8	11.6	14.1
Lubbock, Texas	11.0	15.0	13.0	13.0	13.0	13.1
Mean	11.0	17.0	14.5	13.8	12.5	13.8

Table 22: Summary of the percentage protein for the strains of the Uniform Test, Group VI, 1945

Location	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Ralsoy	2-40A
			East Coast			
Williamsburg, Va.	41.6	42.0	45.9	44.9	44.1	45.0
McCullers, N.C.	41.1	42.4	44.7	42.6	43.0	42.0
Rocky Mount, N.C.	44.6	44.5	47.9	46.3	46.5	45.2
Hartsville, S.C.	35.1	38.4	41.9	41.3	42.3	41.1
Plymouth, N.C.	43.8	45.1	46.9	45.5	45.6	44.5
Mean	41.2	42.5	45.5	44.1	44.3	43.6
			Southeast			
Monetta, S.C.	42.2	40.2	41.9	43.7	43.8	43.8
Fairhope, Ala.	42.3	40.5	45.3	44.2	44.8	44.4
Blacksville, S.C.	34.4	36.8	40.6	41.4	40.6	40.3
Auburn, Ala.	38.0	34.5	40.8	41.2	40.5	40.8
Mean	39.2	38.0	42.2	42.6	42.4	42.3
			Central South			
Clemson, S.C. (1)	40.2	41.0	42.9	42.6	42.6	41.1
Clemson, S.C. (2)	41.9	41.6	44.0	44.1	45.3	43.9
Crossville, Tenn.	38.4	36.8	41.1	41.6	40.6	38.3
Jackson, Tenn.	35.1	33.4	38.6	37.8	37.1	35.3
Knoxville, Tenn.	40.4	38.5	42.9	44.4	42.7	42.4
Columbia, Tenn.	35.1	33.5	37.2	41.6	38.1	37.2
Watkinsville, Ga.	39.9	38.7	44.1	44.9	44.4	43.2
Mean	38.7	37.6	41.5	42.4	41.5	40.2
			Delta			
Sikeston, Mo.	41.0	39.7	42.7	44.9	43.9	44.3
Clarkedale, Ark.	38.0	38.5	41.9	40.6	41.0	41.7
Tunica, Miss.	36.9	37.1	41.0	40.8	41.2	39.6
Winchester, Ark.	37.4	38.7	42.1	42.8	43.4	42.5
Anchorage, Miss.	42.0	40.4	42.6	44.3	43.3	43.1
Onward, Miss.	42.7	42.5	44.0	44.4	43.9	44.1
Marianna, Ark.	35.5	35.8	37.9	40.5	39.7	39.4
Stoneville, Miss.	44.2	43.7	45.3	44.2	43.9	43.3
Stuttgart, Ark.	43.4	43.0	46.6	46.8	47.3	47.1
Baton Rouge, La.	42.5	42.0	45.7	44.7	44.8	44.8
Crowley, La.	44.2	42.7	46.8	46.7	46.8	44.2
Opelousas, La.	46.2	45.1	48.8	47.8	48.1	47.7
Mean	41.2	40.8	43.8	44.0	43.9	43.5
			West			
Coweta, Okla.	41.4	39.4	41.8	40.6	40.8	41.2
Hope, Ark.	44.5	43.9	46.0	45.4	44.7	44.2
Heavener, Okla.	40.5	40.8	40.1	43.4	43.1	42.7
Fayetteville, Ark.	40.4	40.4	44.0	42.4	42.6	42.8
Stillwater, Okla.	43.8	42.7	46.7	40.4	44.7	42.0
Lubbock, Texas	42.9	43.6	45.6	45.3	44.7	43.1
Mean	42.3	41.8	44.0	42.9	43.4	42.7

Table 22: (Continued)

Location	Armredo	6-40M	Hamredo	Magnolia	P.I. 97066	Mean
			East Coast			
Williamsburg, Va.	42.1	42.5	42.6	44.5	45.3	43.7
McCullers, N.C.	41.9	44.2	41.4	43.1	45.1	42.9
Rocky Mount, N.C.	44.8	45.5	44.7	45.1	48.3	45.8
Hartsville, S.C.	40.6	38.0	38.6	37.0	35.7	39.1
Plymouth, N.C.	44.1	44.4	42.6	45.5	46.6	45.0
Mean	42.7	42.9	42.0	43.0	44.2	43.3
			Southeast			
Monetta, S.C.	39.8	43.8	41.7	42.9	42.6	42.4
Fairhope, Ala.	41.4	43.3	42.8	44.3	45.4	43.5
Blacksville, S.C.	41.5	38.3	36.7	37.7	37.1	38.7
Auburn, Ala.	44.4	40.2	37.2	37.4	35.7	39.2
Mean	41.8	41.4	39.6	40.6	40.2	41.0
			Central South			
Clemson, S.C. (1)	40.6	42.8	41.4	44.2	44.0	42.1
Clemson, S.C. (2)	43.1	44.9	40.8	42.8	45.6	43.5
Crossville, Tenn.	39.5	41.5	39.2	39.8	41.0	39.8
Jackson, Tenn.	36.8	37.5	38.4	36.4	37.5	36.7
Knoxville, Tenn.	42.3	42.8	41.5	42.7	41.5	42.0
Columbia, Tenn.	38.3	41.0	38.6	40.3	39.6	38.2
Watkinsville, Ga.	43.4	43.4	40.8	42.8	43.8	42.7
Mean	40.6	42.0	40.1	41.3	41.9	40.7
			Delta			
Sikeston, Mo.	41.1	44.4	42.0	40.9	43.1	42.6
Clarkedale, Ark.	40.5	39.3	39.1	40.4	40.7	40.2
Tunica, Miss.	38.5	39.7	39.3	41.0	39.6	39.5
Winchester, Ark.	38.3	40.7	39.4	41.6	41.9	40.8
Anchorage, Miss.	39.9	43.1	42.4	43.6	41.5	42.4
Onward, Miss.	42.1	43.5	42.6	43.8	46.7	43.7
Marianna, Ark.	38.8	38.8	38.2	39.2	39.3	38.5
Stoneville, Miss.	40.5	45.8	41.8	44.2	44.0	43.7
Stuttgart, Ark.	43.3	46.6	44.8	42.8	45.1	45.2
Baton Rouge, La.	42.1	44.2	43.1	45.1	45.6	44.1
Crowley, La.	44.3	44.6	42.1	46.6	47.5	45.1
Opelousas, La.	48.9	47.6	44.8	-	-	47.2
Mean	41.5	43.2	41.7	42.7	43.2	42.8
			West			
Coweta, Okla.	38.7	41.6	37.7	38.5	40.2	40.2
Hope, Ark.	40.9	41.2	42.5	43.1	41.7	43.5
Heavener, Okla.	41.9	42.3	41.6	41.8	42.4	41.9
Fayetteville, Ark.	40.8	43.8	41.9	41.9	44.6	42.3
Stillwater, Okla.	46.5	44.5	42.6	45.2	44.6	44.0
Lubbock, Texas	43.2	44.9	43.0	44.8	46.7	44.3
Mean	42.0	43.1	41.6	42.6	43.4	42.7

Table 23: Summary of the percentage oil for the strains in the Uniform Test, Group VI, 1945

Location	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Ralsoy	2-40A
			East Coast			
Williamsburg, Va.	20.0	19.6	17.0	19.3	19.4	19.8
McCullers, N.C.	21.2	20.1	17.8	20.8	20.7	21.5
Rocky Mount, N.C.	19.8	19.0	16.4	19.2	19.8	20.0
Hartsville, S.C.	23.3	20.9	18.6	19.9	19.8	20.5
Plymouth, N.C.	20.1	18.4	16.3	18.6	18.6	19.6
Mean	20.9	19.6	17.2	19.6	19.7	20.3
			Southeast			
Monetta, S.C.	22.0	21.8	19.4	21.5	21.4	21.9
Fairhope, Ala.	21.6	21.5	18.9	21.0	21.3	21.3
Blacksville, S.C.	24.1	21.8	18.8	21.3	21.4	22.0
Auburn, Ala.	23.1	22.9	19.7	21.2	22.7	22.5
Mean	22.7	22.0	19.2	21.3	21.7	21.9
			Upper and Central South			
Clemson, S.C. (1)	21.6	21.3	18.7	21.1	21.1	21.6
Clemson, S.C. (2)	22.4	21.2	19.3	21.1	20.9	21.6
Crossville, Tenn.	21.6	20.6	18.6	20.9	20.9	21.4
Jackson, Tenn.	23.9	23.5	20.3	22.3	23.0	24.2
Knoxville, Tenn.	21.9	20.9	19.0	19.9	20.8	21.2
Columbia, Tenn.	23.0	22.6	20.0	19.6	21.1	21.8
Watkinsville, Ga.	22.9	21.4	19.2	20.8	21.1	21.6
Mean	22.5	21.6	19.3	20.8	21.3	21.9
			Delta			
Sikeston, Mo.	20.8	21.0	18.3	19.6	20.0	20.5
Clarkedale, Ark.	21.6	20.7	17.8	20.5	20.4	20.4
Tunica, Miss.	23.4	22.4	19.1	21.3	21.6	22.7
Winchester, Ark.	23.2	21.7	19.6	20.6	20.8	22.0
Anchorage, Miss.	21.2	20.6	18.8	19.9	20.5	21.0
Onward, Miss.	20.8	19.7	17.5	19.3	20.0	20.2
Marianna, Ark.	23.7	22.5	20.3	21.6	22.1	22.8
Stoneville, Miss.	17.7	17.9	16.3	18.4	18.4	18.3
Stuttgart, Ark.	21.2	20.7	18.4	19.7	19.7	20.4
Baton Rouge, La.	20.3	19.7	17.1	19.6	20.0	20.4
Crowley, La.	20.7	19.8	17.1	19.4	19.3	20.2
Opelousas, La.	18.8	17.6	19.8	18.0	17.7	18.2
Mean	21.1	20.4	18.3	19.8	20.0	20.6
			West			
Coweta, Okla.	19.8	19.6	17.7	19.8	19.7	20.4
Hope, Ark.	20.4	19.5	17.2	18.9	19.7	20.2
Heavener, Okla.	20.7	19.5	18.1	21.0	20.8	21.1
Fayetteville, Ark.	21.3	20.7	18.2	20.1	21.1	21.0
Stillwater, Okla.	19.3	19.2	16.4	18.6	18.9	20.3
Lubbock, Texas	20.0	17.5	15.9	18.9	18.8	19.2
Mean	20.3	19.3	17.3	19.6	19.8	20.4

Table 23: (Continued)

Location	Armredo	6-40M	Mamredo	Magnolia	P.I. 97066	Mean
			East Coast			
Williamsburg, Va.	18.0	20.1	17.9	19.7	18.2	19.0
McCullers, N.C.	19.7	20.2	20.0	20.5	19.5	20.2
Rocky Mount, N.C.	18.6	19.4	19.3	19.4	17.9	19.0
Hartsville, S.C.	20.1	22.2	21.1	23.1	22.4	21.1
Plymouth, N.C.	18.5	19.4	18.5	19.5	19.7	18.8
Mean	19.0	20.3	19.4	20.4	19.5	19.6
			Southeast			
Monetta, S.C.	21.5	21.0	20.6	21.8	21.2	21.3
Fairhope, Ala.	20.3	21.1	20.3	20.8	18.6	20.6
Blacksville, S.C.	20.3	22.1	22.2	22.0	22.6	21.7
Auburn, Ala.	18.0	21.3	22.2	23.0	22.8	21.8
Mean	20.0	21.4	21.3	21.9	21.3	21.4
			Upper and Central South			
Clemson, S.C. (1)	20.3	20.6	19.9	20.9	19.8	20.6
Clemson, S.C. (2)	20.4	20.4	20.7	21.2	20.2	20.9
Crossville, Tenn.	19.2	20.8	19.9	22.0	20.3	20.6
Jackson, Tenn.	21.7	22.4	21.0	23.4	21.9	22.5
Knoxville, Tenn.	19.7	20.5	19.5	20.2	19.7	20.3
Columbia, Tenn.	20.8	20.0	20.3	20.5	19.9	20.9
Watkinsville, Ga.	20.0	21.0	21.1	21.6	20.6	21.0
Mean	20.3	20.8	20.3	21.4	20.3	21.0
			Delta			
Sikeston, Mo.	19.5	19.5	18.7	21.2	19.7	19.9
Clarkedale, Ark.	18.8	20.9	19.2	20.9	19.4	20.1
Tunica, Miss.	21.5	21.5	21.0	21.4	21.3	21.6
Winchester, Ark.	21.6	21.3	21.4	21.7	20.5	21.3
Anchorage, Miss.	20.3	20.1	19.8	20.8	20.0	20.3
Onward, Miss.	19.6	19.7	19.1	19.5	18.3	19.4
Marianna, Ark.	20.7	22.1	21.0	17.4	20.7	21.4
Stoneville, Miss.	18.8	16.8	18.8	19.1	17.3	18.0
Stuttgart, Ark.	20.5	20.3	20.1	21.4	20.7	20.3
Baton Rouge, La.	20.6	19.3	19.5	20.0	19.1	19.6
Crowley, La.	19.6	19.6	19.3	19.7	17.8	19.3
Opelousas	17.5	17.6	17.9	-	-	18.1
Mean	19.9	19.9	19.7	20.3	19.5	19.9
			West			
Coweta, Okla.	19.8	19.6	20.2	22.0	20.5	19.9
Hope, Ark.	20.9	20.6	21.2	20.2	20.6	19.9
Heavener, Okla.	19.8	20.3	21.1	20.7	19.9	20.3
Fayetteville, Ark.	19.4	19.9	19.4	20.8	19.6	20.1
Stillwater, Okla.	17.4	19.3	19.7	18.5	19.1	18.8
Lubbock, Texas	17.9	17.4	18.5	17.7	16.7	18.0
Mean	19.2	19.5	20.0	20.0	19.4	19.5

Table 24: Summary of iodine number of oil for the strains in the Uniform Test, Group VI, 1945

Location	Ogden	Rose N.P.	Delsoy	Arksoy 2913	Ralsoy	2-40A
			East Coast			
Williamsburg, Va.	137.5	135.6	135.7	132.2	131.7	132.3
McCullers, N.C.	136.9	131.7	134.4	133.4	133.4	133.4
Rocky Mount, N.C.	135.2	130.8	133.7	132.1	130.9	132.1
Hartsville, S.C.	135.2	130.0	133.7	135.9	136.0	134.0
Plymouth, N.C.	134.0	133.4	135.4	135.1	134.8	135.8
Mean	135.8	132.3	134.6	133.7	133.4	133.5
			Southeast			
Monetta, S.C.	134.2	129.8	132.9	132.6	133.2	131.5
Fairhope, Ala.	132.1	126.5	131.3	126.6	126.3	124.2
Blacksville, S.C.	132.3	129.7	132.8	129.2	130.6	127.1
Auburn, Ala.	129.4	129.2	132.3	128.7	129.2	125.2
Mean	132.0	128.8	132.3	129.3	129.8	127.0
			Upper and Central South			
Clemson, S.C. (1)	133.8	130.6	133.3	130.7	130.4	130.9
Clemson, S.C. (2)	129.4	125.9	129.7	128.0	128.0	127.7
Crossville, Tenn.	136.8	137.2	136.6	133.7	133.9	132.9
Jackson, Tenn.	134.4	133.3	135.1	134.6	134.5	133.2
Knoxville, Tenn.	130.8	127.5	131.4	131.3	130.1	128.6
Columbia, Tenn.	132.8	132.1	134.6	134.0	133.9	133.2
Watkinsville, Ga.	129.2	126.1	130.5	127.7	126.6	124.9
Mean	132.5	130.4	133.0	131.4	131.1	130.2
			Delta			
Sikeston, Mo.	135.5	132.6	135.7	131.2	132.0	129.9
Clarkedale, Ark.	136.5	133.8	136.0	134.5	134.2	135.0
Tunica, Miss.	133.4	129.9	134.5	132.8	132.8	131.2
Winchester, Ark.	130.9	126.5	130.4	129.8	130.0	127.2
Anchorage, Miss.	134.6	130.5	132.3	133.7	132.6	130.0
Onward, Miss.	134.5	129.3	133.5	133.6	132.8	130.7
Marianna, Ark.	132.3	128.6	134.0	130.7	130.5	129.1
Stoneville, Miss.	139.5	134.4	136.5	137.0	137.0	136.3
Stuttgart, Ark.	131.6	124.7	132.0	131.2	129.1	128.8
Baton Rouge, La.	136.6	129.4	134.5	136.0	134.0	130.7
Crowley, La.	130.5	128.6	132.5	128.6	130.2	129.3
Opelousas, La.	135.7	126.7	134.5	134.6	132.2	130.0
Mean	134.3	129.6	133.9	132.8	132.3	130.7
			West			
Coweta, Okla.	135.6	133.4	136.6	134.3	133.4	133.5
Hope, Ark.	134.3	129.9	133.5	131.8	131.6	130.6
Heavener, Okla.	126.6	127.4	130.8	129.5	129.3	127.7
Fayetteville, Ark.	135.1	132.9	134.7	133.0	131.7	129.8
Stillwater, Okla.	126.9	123.1	132.5	127.7	126.9	126.4
Lubbock, Texas	130.0	132.9	134.6	127.3	127.2	127.1
Mean	131.4	129.9	133.8	130.6	130.0	129.2

Table 24: (Continued)

Location	Armredo	6-40M	Mamredo	Magnolia	P.I. 97066	Mean
		East Coast				
Williamsburg, Va.	137.7	129.4	134.3	131.6	134.1	133.8
McCullers, N.C.	136.3	127.7	130.1	127.7	125.0	131.8
Rocky Mount, N.C.	134.1	124.2	128.6	126.9	126.6	130.5
Hartsville, S.C.	135.4	128.0	129.5	128.8	131.5	132.5
Plymouth, N.C.	135.1	128.6	133.7	128.8	129.1	133.1
Mean	135.7	127.6	131.2	128.8	129.3	132.3
		Southeast				
Monetta, S.C.	134.1	126.6	129.3	127.5	132.3	131.3
Fairhope, Ala.	133.5	123.9	123.2	124.8	126.5	127.2
Blacksville, S.C.	133.3	127.5	122.0	128.8	131.2	129.5
Auburn, Ala.	132.9	127.2	121.9	126.5	129.5	128.4
Mean	133.5	126.3	124.1	126.9	129.9	129.1
		Upper and Central South				
Clemson, S.C. (1)	133.7	127.5	130.1	126.9	131.8	130.9
Clemson, S.C. (2)	131.3	124.9	124.4	127.9	126.0	127.6
Crossville, Tenn.	138.1	129.4	132.3	133.4	135.1	134.5
Jackson, Tenn.	135.5	128.6	128.5	131.6	133.6	133.0
Knoxville, Tenn.	132.6	128.2	124.6	131.2	133.3	130.0
Columbia, Tenn.	133.8	125.8	127.1	129.9	132.1	131.8
Watkinsville, Ga.	130.4	125.3	122.6	126.4	127.1	127.0
Mean	133.6	127.1	127.1	129.6	131.3	130.7
		Delta				
Sikeston, Mo.	136.5	128.1	130.8	131.6	131.5	132.3
Clarkedale, Ark.	136.0	130.0	132.9	130.6	133.4	133.9
Tunica, Miss.	132.7	126.9	127.2	129.2	130.4	131.0
Winchester, Ark.	132.2	126.3	125.2	128.2	127.9	128.6
Anchorage, Miss.	134.3	126.9	127.6	127.0	125.5	130.5
Onward, Miss.	134.4	130.1	129.2	128.8	127.1	131.3
Marianna, Ark.	134.0	127.2	125.2	128.0	131.0	130.1
Stoneville, Miss.	136.2	133.1	133.2	131.5	133.2	135.3
Stuttgart, Ark.	135.4	126.4	123.6	129.3	128.8	129.2
Baton Rouge, La.	134.7	132.3	129.8	128.7	125.5	132.0
Crowley, La.	131.5	126.6	129.5	125.2	128.3	129.2
Opelousas, La.	131.7	129.2	129.2	-	-	131.5
Mean	134.1	128.6	128.6	128.9	129.3	131.2
		West				
Coweta, Okla.	137.2	130.0	129.9	130.6	133.0	133.4
Hope, Ark.	134.3	124.7	125.9	128.0	128.0	130.2
Heavener, Okla.	132.3	124.2	123.5	130.9	129.5	128.3
Fayetteville, Ark.	136.1	129.3	130.2	132.2	132.6	132.5
Stillwater, Okla.	131.4	126.6	118.2	128.3	127.3	126.8
Lubbock, Texas	134.7	128.3	126.6	131.6	129.9	130.0
Mean	134.3	127.2	125.7	130.3	130.1	130.2

Uniform Test, Group VII

The Uniform Variety Test, Group VII, was composed of eight named varieties, one introduction and one new strain. The origin of these varieties and strains is as follows:

Variety or Strain	Originating Agency	Origin
CNS	J.E. Wannamaker	Selection from Clemson
Missoy	U.S.D.A.	P.I. 71664 from Nanking, China, 1927
Monetta	U.S.D.A.	P.I. 71608 from Nanking, China, 1927
Ogden	Tenn. Agr. Exp. Sta.	Sel. from a cross (Tokyo x P.I. 54610)
Palmetto	U.S.D.A.	P.I. 71587 from Nanking, China, 1927
Roanoke	N. Car. Agr. Exp. Sta.	Sel. from Nanking, formerly N41-90
Volstate	Tenn. Agr. Exp. Sta.	Sel. from a cross (Tokyo x P.I. 54610)
Wood's Yellow	T.W. Wood & Sons	Selection from Mammoth Yellow
P.I. 89775A	U.S.D.A.	Tang Shang, China, 1930
26-39M	Paul B. Hutchens	Selection from a mixed seed lot

Uniform Test, Group VII

The varieties and strains of Group VII were grown at 39 locations across the southern region. The agronomic and chemical data for all locations are summarized in tables 25 through 36.

Roanoke, formerly N41-90 and Volstate are the two outstanding varieties of this maturity group for the central region of the southern states. While the differences in yield of these two varieties are not significant, the yield of Roanoke has been slightly more than that of Volstate in the majority of the tests. There has been little difference in the maturity of these varieties in the east and the upper delta area. However, through the central south Roanoke matured four to seven days later than Volstate and slightly ahead of Volstate at two locations in the Southeast. Roanoke is higher in oil, 21.7% as compared to 21.0% for Volstate, but differs little in other respects. Neither of these varieties are well adapted to the Southeast.

CNS, Missoy, Monetta, P.I. 89775A and Palmetto continue to be the higher yielding varieties of this maturity in the Southeast and along the Gulf Coast. In the two-year averages, CNS led the varieties of this group at Blackville, South Carolina and at Fairhope, Alabama and stood high at other locations in the area. Missoy for the two years, at Richmond Hill and Tifton, Georgia, led the varieties of this maturity. P.I. 89775A was in the top three at Auburn, Alabama, and Blackville, South Carolina; Richmond Hill, Georgia; and at Willard, North Carolina, for the two years, 1944-45. 26-39M in 1945 led the test at Monetta, the upland test at Clemson, and was among the top three varieties at Experiment and Watkinsville, Georgia, and at Marianna, Arkansas.

It should be noted from table 24 that the average oil content of the varieties of group VII is higher in the central and southeast sections than in any of the other areas.

Table 25: Summary of the agronomic and chemical data for the strains of the Uniform Test, Group VII, 1945

	No. of Locations	Roanoke	Volstate	Ogden	26-39M	Missoy	Woods Yellow	89775A	CNS	Palmetto	Monetta	Mean
						1945 Yields						
East Coast	9	28.1	26.5	30.2	21.9	24.9	23.2	23.5	18.6	24.6	16.4	23.9
Southeast	6	20.8	20.9	19.1	19.4	23.3	18.3	20.8	22.7	20.7	19.5	20.5
Cen. & Upper South	6	27.0	24.8	22.0	23.1	19.1	21.1	17.9	21.0	15.1	16.9	20.8
Delta	13	25.4	24.8	24.3	19.3	17.1	18.5	16.6	17.6	17.4	15.3	19.7
West	5	14.1	15.6	14.6	10.4	7.9	11.4	10.7	8.8	6.2	8.2	10.8
Mean		24.0	23.4	23.3	19.3	19.0	19.0	18.3	17.9	17.8	15.5	19.8
						1944-45 Yields						
East Coast	4	30.4	29.0	29.2	-	23.8	26.5	25.2	18.9	26.1	18.5	
Southeast	6	18.9	19.7	18.2	-	21.3	17.2	19.0	23.0	20.4	20.1	
Cen. & Upper South	3	22.2	19.7	19.9	-	15.5	16.9	17.4	15.4	11.0	15.6	
Delta	8	26.4	25.4	25.1	21.7	16.8	-	19.2	16.1	14.1	14.6	
West	2	22.3	24.4	21.2	-	12.9	18.0	14.6	13.6	9.7	12.0	
Mean		24.0	23.2	22.7	-	18.1	-	19.1	17.4	16.3	16.2	
						1943-45 Yields						
East Coast	3	-	27.4	26.1	-	21.8	24.6	22.8	-	22.6	20.2	
Southeast	6	-	16.2			16.7		13.0		16.7	18.4	
Cen & Upper South	3		18.2	18.4			15.3	15.7			14.4	
Delta	6		22.9	23.9		14.8		18.5			14.3	
Mean			21.2					18.8			16.8	
						Maturity 1/						
East Coast	7	0	0	-9	0	5	5	-2	4	0	-4	
Southeast	5	-1	0	-9	2	4	7	-12	4	0	-7	
Cen. & Upper South	4	5	0	-10	6	5	10	-6	5	2	0	
Delta	6	2	0	-22	-1	1	2	-3	-1	1	-8	
West	2	4	0	-11	2	5	6	-8	4	5	-10	
Mean		2	0	-12	2	4	6	-6	3	2	-6	

1/Days earlier (-) or later than Volstate.

Table 25: (Continued)

	No. of Locations	Roanoke	Volstate	Ogden	26-39M	Missoy	Woods Yellow	89775A	CNS	Palmetto	Monetta	Mean
					Height							
East Coast	8	38	37	31	37	57	38	44	34	57	40	41
Southeast	4	34	31	30	36	44	36	41	34	51	37	37
Cen. & Upper South	5	33	32	30	33	39	35	37	34	48	37	36
Delta	12	35	34	27	34	50	38	42	33	52	37	38
West	4	35	37	32	35	43	34	36	35	47	36	37
Mean		35	34	30	35	47	36	40	34	51	37	38
					Seed Quality							
East Coast	6	1.7	1.7	2.3	2.5	1.8	2.3	2.7	1.8	1.8	2.0	2.1
Southeast	3	1.7	1.9	2.0	2.4	1.6	2.3	2.6	1.4	1.6	1.3	1.9
Cen. & Upper South	5	1.2	1.4	2.2	1.2	1.4	1.4	2.4	1.4	1.2	1.5	1.5
Delta	12	2.1	2.2	3.1	2.3	2.7	2.9	3.6	1.9	2.7	2.5	2.6
West	4	2.2	1.8	1.7	1.9	2.2	2.6	2.7	2.2	2.5	2.0	2.2
Mean		1.8	1.8	2.3	2.1	1.9	2.3	2.8	1.7	2.0	1.9	2.0
					Seed Weight							
East Coast	9	15.2	15.6	16.3	17.1	12.1	21.0	14.9	14.1	12.5	12.8	15.2
Southeast	6	13.8	13.8	14.8	15.9	12.0	18.2	11.7	13.3	14.3	12.6	14.0
Cen. & Upper South	5	15.6	15.6	16.0	16.6	10.9	19.7	13.6	13.1	11.1	13.4	14.6
Delta	13	14.9	15.5	15.4	15.9	11.8	19.1	13.0	13.5	12.4	12.1	14.4
West	3	17.4	15.6	18.0	18.2	10.6	21.8	12.7	13.1	11.6	12.6	15.2
Mean		15.4	15.2	16.1	16.7	11.5	20.0	13.2	13.4	12.4	12.7	14.7

Table 25: (Continued)

	No. of Locations	Roanoke	Volstate	Ogden	26-39M	Missoy	Woods Yellow	89775A	CNS	Palmetto	Monetta	Mean
					% Protein							
East Coast	9	40.6	40.9	42.2	43.8	43.5	44.1	45.1	46.5	45.7	44.8	43.7
Southeast	6	39.3	39.8	41.2	43.0	43.3	44.9	42.8	46.1	45.8	44.1	43.0
Cen. & Upper South	5	39.2	39.6	41.8	42.4	41.4	42.8	42.6	43.8	43.6	43.2	42.0
Delta	13	40.0	40.4	41.7	43.7	43.5	44.8	43.6	45.8	45.2	44.7	43.3
West	3	40.6	40.4	42.7	43.5	42.9	43.0	41.5	46.9	45.0	44.7	43.1
Mean		39.9	40.2	41.9	43.3	42.9	43.9	43.1	45.8	45.1	44.3	43.0
					% Oil							
East Coast	9	21.7	21.0	20.8	18.9	18.4	18.9	18.3	17.8	17.4	16.5	19.0
Southeast	6	22.9	22.4	22.4	20.2	19.6	19.4	20.0	19.1	18.2	17.2	20.1
Cen. & Upper South	5	22.6	22.2	21.3	20.0	19.3	19.6	19.9	19.0	18.4	17.7	20.0
Delta	13	21.3	21.0	21.0	18.7	18.5	18.4	18.9	18.1	17.6	16.1	19.0
West	3	20.7	20.2	20.2	18.2	17.3	17.5	20.0	16.9	18.7	16.1	18.6
Mean		21.8	21.4	21.1	19.2	18.6	18.8	19.4	18.2	18.1	16.7	19.3
					Iodine Number of Oil							
East Coast	9	133.1	134.6	135.1	132.8	132.9	129.3	132.0	129.4	132.9	133.3	132.5
Southeast	6	130.9	132.1	130.2	130.5	128.8	125.9	130.9	127.3	127.1	131.6	129.5
Cen. & Upper South	5	131.5	132.4	131.2	130.9	132.1	129.4	132.0	130.0	130.5	131.4	131.1
Delta	13	132.9	133.4	134.2	132.3	130.3	128.9	132.4	128.9	128.8	132.4	131.6
West	3	132.9	136.0	133.1	134.0	137.3	133.5	134.0	133.6	136.3	136.6	134.7
Mean		132.3	133.7	132.8	132.1	132.3	129.4	132.3	129.8	131.1	133.1	131.9

Table 26: Summary of yields in bushels per acre for the strains of the Uniform Test, Group VII, 1945

Location	Roanoke	Vol-state	Ogden	26-39M	Missoy	Woods Yellow	89775A	CNS	Pal-metto	Mo-Netta	Mean	Coef. of Var.	Bu. Nec. for Sig.(5%)
						East Coast							
Willard, N.C. 6/11	35.1	31.2	35.4	23.0	33.6	31.0	21.8	22.5	33.3	21.1	28.8	15%	6.1
Willard, N.C. -4/27	29.1	29.5	36.8	20.0	28.7	20.6	32.3	19.3	31.9	16.6	27.5	17%	6.6
McCullers, N.C. 4/28	37.0	32.1	40.3	26.4	27.0	28.1	23.1	13.3	27.9	15.6	27.1	18%	7.1
McCullers, N.C. 6/4	31.8	32.2	35.3	26.3	23.4	24.7	26.2	20.3	29.4	18.2	26.9	22%	8.4
Hartsville, S.C.	24.0	21.5	25.1	16.8	21.9	17.7	29.3	23.0	20.0	18.5	21.8	15%	4.7
Florence, S.C. 5/4	27.3	26.5	24.8	23.4	31.1	23.4	20.8	21.0	25.1	18.2	24.2	15%	5.2
Florence, S.C. 6/20	14.8	15.0	15.9	17.2	17.8	19.0	14.3	18.4	11.2	12.9	15.7	10%	2.8
Rocky Mount, N.C.	26.4	25.9	29.1	24.4	23.3	21.4	19.5	16.4	22.9	16.7	22.6	25%	8.0
Plymouth, N.C.	27.4	24.7	29.4	19.7	17.3	23.0	24.2	13.6	19.9	9.5	20.9	18%	6.2
Mean	28.1	26.5	30.2	21.9	24.9	23.2	23.5	18.6	24.6	16.4	23.9		
						Southeast							
Fairhope, Ala.	30.7	31.5	33.1	24.4	33.6	29.5	20.2	34.1	32.5	25.2	29.5	11%	4.7
Monetta, S.C.	30.4	30.3	30.1	33.6	30.5	28.0	27.2	29.1	32.2	20.8	29.2	10%	4.1
Tifton, Ga.	25.2	27.2	22.3	21.1	24.4	17.4	23.6	21.6	22.6	25.0	23.0	11%	3.6
Richmond Hill, Ga.	16.4	16.4	14.2	16.6	22.2	12.8	16.6	17.3	15.6	16.9	16.5	31%	Not Sig.
Blackville, S.C.	13.4	13.9	10.1	10.4	21.1	11.6	19.5	23.7	10.1	18.2	15.2	29%	6.4
Auburn, Ala.	8.8	5.9	4.6	10.2	7.9	10.7	17.6	10.6	10.9	11.0	9.8	43%	6.1
Mean	20.8	20.9	19.1	19.4	23.3	18.3	20.8	22.7	20.7	19.5	20.5		
						Upper and Central South							
Clemson, S.C. (1)	35.3	31.9	31.8	27.8	22.8	29.9	23.2	29.8	19.8	23.9	27.6	17%	6.6
Clemson, S.C. (2)	26.9	27.4	22.0	28.4	20.4	22.6	16.4	22.8	14.4	15.4	21.7	11%	3.3
State College, Miss.	33.9	29.4	27.0	23.2	19.4	19.7	22.2	20.9	11.7	15.9	22.3	19%	6.3
Experiment, Ga.	20.5	17.6	16.0	19.8	17.5	18.5	14.4	17.2	14.8	17.6	17.4	13%	2.9
Watkinsville, Ga.	18.3	17.7	13.2	16.2	15.5	15.0	13.5	14.3	14.7	11.7	15.0	10%	2.3
West Point, Miss.[1]	11.1	14.1	13.0	7.5	6.4	7.9	14.1	8.5	2.8	6.2			
Mean	27.0	24.8	22.0	23.1	19.1	21.1	17.9	21.0	15.1	16.9	20.8		

[1] Not included in mean.

Table 26: (Continued)

Location	Roanoke	Vol-state	Ogden	26-39M	Missoy	Woods Yellow	89775A	CNS	Pal-metto	Mo-netta	Mean	Coef. of Var.	Bu. Nec. for Sig. (5%)
						Delta							
Raymond, Miss.	40.7	39.5	39.7	27.6	26.4	26.5	27.2	34.3	38.1	38.8	33.9	23%	11.4
Clarkedale, Ark.	39.0	40.6	43.7	33.0	21.9	-	27.8	19.0	20.8	17.5	29.2	20%	8.3
Tunica, Miss.	34.7	38.4	31.0	30.0	22.7	27.1	24.7	14.1	23.4	17.1	26.3	12%	4.7
Satartia, Miss.	38.7	29.7	25.8	26.0	23.1	31.3	21.1	22.1	19.3	17.2	25.4	15%	5.5
Stoneville, Miss.	26.7	28.1	24.0	21.1	18.3	27.3	20.9	19.2	16.1	20.0	22.2	19%	6.0
Anchorage, Miss.	34.5	35.6	27.6	19.6	19.6	24.5	10.5	15.2	16.1	12.2	21.6	29%	9.0
Marianna, Ark.	25.6	24.1	22.8	23.5	15.3	-	18.4	14.6	14.5	15.7	19.4	17%	4.9
Stuttgart, Ark.	20.8	19.8	19.5	15.6	17.5	-	14.7	19.5	16.4	16.8	17.8	14%	3.6
Onward, Miss.	17.8	17.7	26.9	13.9	11.9	19.5	16.3	13.0	12.2	11.8	16.1	22%	5.1
Winchester, Ark.	25.2	25.1	25.9	23.6	4.9	12.1	15.6	8.2	3.7	5.0	14.9	19%	4.3
Baton Rouge, La.	9.7	6.9	13.6	3.0	16.3	5.6	8.4	16.7	22.1	6.3	10.8	22%	3.4
Hamburg, La.	7.9	9.2	6.9	5.7	15.5	4.1	4.8	18.0	13.5	10.1	9.6		
Crowley, La.	8.8	8.3	7.9	8.7	8.7	6.8	5.2	15.0	9.5	10.0	8.9	30%	8.9
Mean	25.4	24.8	24.3	19.3	17.1	18.5	16.6	17.6	17.4	15.3	19.7		
						West							
Hope, Ark.	32.6	34.1	26.6	23.8	14.7	26.8	12.4	13.3	13.5	15.3	21.3	15%	4.6
Fayetteville, Ark.	21.8	28.3	26.6	16.4	14.8	19.8	18.7	16.1	12.6	15.6	19.1	24%	6.7
Lubbock, Texas	9.0	7.8	13.6	6.4	4.8	5.8	9.5	6.4	3.1	5.8	7.2	23%	2.4
Chillicothe, Texas	4.9	5.7	5.7	4.5	2.8	2.8	7.1	3.4	1.3	3.7	4.2		
Ysleta, Texas	2.2	2.1	.4	1.0	2.5	1.7	6.0	4.7	.3	.4	2.1	73%	2.3
Mean	14.1	15.6	14.6	10.4	7.9	11.4	10.7	8.8	6.2	8.2	10.8		

Table 27: Summary of two-year average yields of the strains of Uniform Test, Group VII, 1944-45.

Location	Roanoke	Ogden	Volstate	26-39M	P.I. 89775A
		East Coast			
Florence, S.C.	32.2	27.7	30.5	-	25.3
McCullers, N.C.	34.0	28.2	30.3	27.1	20.3
Plymouth, N.C.	29.7	30.6	28.8	23.5	28.3
Willard, N.C.	25.7	30.1	26.2	-	27.0
Mean	30.4	29.2	29.0	-	25.2
		Southeast			
Fairhope, Ala.	24.8	27.4	28.0	-	17.6
Tifton, Ga.	23.4	23.2	24.5	-	23.6
Monetta, S.C.	21.6	21.6	22.4	23.3	20.0
Richmond Hill, Ga.	13.6	11.8	12.3	-	15.7
Blackville, S.C.	11.2	7.1	11.4	-	18.1
Auburn, Ala.1/	10.6	-	8.3	-	18.0
Mean	18.9	18.2	19.7		19.0
		Upper and Central South			
Experiment, Ga.	23.3	20.1	19.3	-	18.9
State College, Miss.	26.4	25.4	24.5	-	20.9
Watkinsville, Ga.	17.0	14.3	15.4	17.6	12.5
Mean	22.2	19.9	19.7		17.4
		Delta			
Clarkedale, Ark.	36.6	43.2	36.3	32.9	29.4
Stoneville, Miss.	34.8	33.7	32.8	26.9	23.9
Marianna, Ark.	33.7	29.8	31.6	29.1	26.5
Stuttgart, Ark.	23.0	19.1	21.9	17.3	16.9
Holly Bluff, Miss.	28.1	26.1	29.3	20.7	14.1
Winchester, Ark.	23.4	20.4	23.6	22.4	17.2
Satartia, Miss.	22.5	16.1	18.0	-	14.9
Baton Rouge, La.	8.9	12.4	9.4	2.9	10.4
Mean	26.4	25.1	25.4	21.7	19.2
		West			
Hope, Ark.	28.8	22.6	29.7	16.8	13.9
Fayetteville, Ark.	15.7	19.7	19.1	-	15.3
Mean	22.3	21.2	24.4	-	14.6

1/Not included in mean.

Table 27: (Continued)

Location	Wood's Yellow	Missoy	CNS	Monetta	Palmetto	Mean
		East Coast				
Florence, S.C.	27.9	29.6	25.7	23.6	27.4	27.8
McCullers, N.C.	23.5	25.0	17.5	17.0	25.7	25.2
Plymouth, N.C.	26.8	19.4	16.2	15.2	22.6	24.2
Willard, N.C.	22.7	21.3	16.3	18.2	28.5	24.0
Mean	26.5	23.8	18.9	18.5	26.1	.
		Southeast				
Fairhope, Ala.	25.5	26.8	34.7	29.0	29.5	27.0
Tifton, Ga.	19.1	27.3	24.8	24.5	26.6	24.1
Monetta, S.C.	19.3	20.1	20.7	15.7	21.1	20.3
Richmond Hill, Ga.	12.3	17.7	14.4	14.1	14.9	14.1
Blackville, S.C.	9.8	14.6	20.4	17.0	9.7	13.3
Auburn, Ala.[1]	-	7.8	10.5	16.5	8.3	11.4
Mean	17.2	21.3	23.0	20.1	20.4	.
		Upper and Central South				
Experiment, Ga.	19.8	19.9	21.5	19.2	12.6	19.4
State College, Miss.	17.4	14.3	13.8	16.1	8.7	18.6
Watkinsville, Ga.	13.4	12.2	10.9	11.4	11.7	13.2
Mean	16.9	15.5	15.4	15.6	11.0	.
		Delta				
Clarkedale, Ark.	-	21.9	19.6	19.8	23.9	29.3
Stoneville, Miss.	28.1	22.0	20.5	20.9	14.1	25.8
Marianna, Ark.	-	20.1	21.1	15.0	16.5	24.8
Stuttgart, Ark.	-	18.8	17.9	17.8	18.2	19.0
Holly Bluff, Miss.	19.5	14.8	13.2	12.1	10.3	18.8
Winchester, Ark.	14.4	11.8	12.5	10.9	7.2	16.4
Satartia, Miss.	18.0	12.8	12.9	11.7	9.9	15.2
Baton Rouge, La.	8.1	12.2	10.9	8.2	13.0	9.6
Mean	.	16.8	16.1	14.6	14.1	.
		West				
Hope, Ark.	24.3	15.7	15.0	13.0	11.0	19.3
Fayetteville, Ark.	11.6	10.1	12.1	11.0	8.4	13.7
Mean	18.0	12.9	13.6	12.0	9.7	.

Table 28: Summary of three-year average yields of the strains of Uniform Test, Group VII, 1943-45.

Location	Ogden	Volstate	P.I. 89775A	Wood's Yellow	Missoy	Monetta	Palmetto	Mean
				East Coast				
McCullers, N.C.	28.5	30.2	22.5	27.4	21.4	21.2	22.5	24.8
Willard, N.C.	27.6	25.2	24.2	24.1	21.4	19.3	25.7	23.9
Florence, S.C.	22.3	26.7	21.8	22.3	22.5	20.2	19.5	22.2
Mean	26.1	27.4	22.8	24.6	21.8	20.2	22.6	
				Southeast				
Fairhope, Ala.	22.5	21.6	15.9	20.2	21.4	22.2	24.6	21.2
Tifton, Ga.	20.0	19.9	22.1	16.9	24.1	22.7	22.8	21.2
Monetta, S.C.	16.1	19.4	18.7	17.8	15.0	17.9	20.7	17.9
Richmond Hill, Ga.	13.7	15.1	19.4	12.8	18.2	17.8	18.2	16.5
Auburn, Ala.	-	10.3	16.9	-	9.1	16.0	6.7	11.8
Blackville, S.C.	7.2	11.0	15.0	8.4	12.2	13.5	7.3	10.7
Mean		16.2	18.0		16.7	18.4	16.7	
				Upper and Central South				
State College, Miss.	22.4	20.5	15.8	12.5	-	13.6	-	17.0
Experiment, Ga.	17.1	17.5	16.5	18.2	17.8	16.1	11.6	16.4
Watkinsville, Ga.	15.3	16.7	14.8	15.3	11.8	13.4	12.5	14.3
Mean	18.1	18.2	15.7	15.3		14.4		
				Delta				
Stoneville, Miss.	34.4	37.9	26.0	34.2	21.5	24.7	16.1	27.8
Clarkedale, Ark.	34.8	28.5	25.4	-	18.4	18.0	20.4	24.3
Marianna, Ark.	23.2	24.9	20.0	-	15.4	12.1	13.0	18.1
Stuttgart, Ark.	17.8	18.1	13.9	-	13.7	13.3	12.9	15.0
Winchester, Ark.	17.5	18.5	15.6	10.3	9.3	10.1	6.7	12.6
Baton Rouge, La.	15.4	9.2	10.0	6.6	10.6	7.3	-	9.9
Mean	23.9	22.9	18.5		14.8	14.3		

Table 29: Summary of the maturity data, days earlier (-) or later than Volstate for the strains of the Uniform Test, Group VII, 1945

Location	Roanoke	Volstate	Ogden	26-39M	Missoy	Wood's Yellow
		East Coast				
Willard, N.C. (2)	0	0	-5	-2	3	3
Willard, N.C. (1)	0	0	-13	0	3	5
McCullers, N.C. 4/28	0	0	-10	0	5	5
McCullers, N.C. 6/4	0	0	-5	0	5	5
Florence, S.C. 5/4	0	0	-12	0	4	4
Florence 6/20	0	0	-5	4	8	10
Rocky Mount, N.C.	0	0	-10	0	5	3
Plymouth, N.C.	0	0	-10	0	3	3
Mean	0	0	-9	0	5	5
		Southeast				
Monetta, S.C	0	0	-11	0	9	13
Tifton, Ga.	0	0	0	2	8	13
Richmond Hill, Ga.	-5	0	-5	4	0	4
Blackville, S.C.	-1	0	-5	4	4	4
Auburn, Ala.	0	0	-28	0	0	0
Mean	-1	0	-9	2	4	7
		Upper and Central South				
Clemson, S.C. (1)	7	0	-7	6	0	6
State College, Miss.	4	0	-21	2	4	12
Experiment, Ga.	5	0	-9	10	15	15
Watkinsville, Ga.	7	0	-2	4	2	6
Mean	5	0	-10	6	5	10
		Delta				
Stoneville, Miss.	0	0	-15	-5	1	1
Marianna, Ark.	0	0	-38	0	0	-
Stuttgart, Ark.	0	0	-20	0	0	-
Baton Rouge, La.	8	0	-18	5	6	6
Hamburg, La.	0	0	-12	-1	0	0
Crowley, La.	3	0	-27	-5	0	7
Mean	2	0	-22	-1	1	2
		West				
Fayetteville, Ark.	0	0	-11	0	0	5
Lubbock, Texas	9	0	-11	5	10	8
Mean	4	0	-11	2	5	6

Table 29: (Continued)

Location	89775A	CNS	Palmetto	Monetta	Planted	Matured	Days to Maturity
			East Coast				
Willard, N.C. (2)	0	3	0	0	6/11	10/25	136
Willard, N.C. (1)	-5	0	0	-5	4/27	10/25	181
McCullers, N.C. 4/28	0	5	0	-7	4/28	10/25	180
McCullers, N.C. 6/4	-3	5	0	-3	6/4	10/25	143
Florence, S.C. 5/4	-6	4	-4	-6	5/14	10/24	163
Florence, S.C. 6/20	0	8	5	0	6/20	10/20	122
Rocky Mount, N.C.	0	5	0	-5	5/3	10/25	175
Plymouth, N.C.	-3	3	0	-5	5/1	10/25	178
Mean	-2	4	0	-4			
			Southeast				
Monetta, S.C.	-8	9	0	-4	5/16	10/20	167
Tifton, Ga.	0	6	5	0	5/5	10/4	152
Richmond Hill, Ga.	-9	4	4	-5	5/3	10/16	166
Blackville, S.C.	-15	4	-10	-15	5/2	11/4	186
Auburn, Ala.	-28	0	0	-9	4/27	11/9	196
Mean	-12	4	0	-7			
			Upper and Central South				
Clemson, S.C.	-6	7	-7	-7	5/21		
State College, Miss.	-6	4	6	9	4/25	10/18	176
Experiment, Ga.	-9	10	15	0	5/21	10/10	142
Watkinsville, Ga.	-2	-2	-6	-3	4/12	10/24	195
Mean	-6	5	2	0			
			Delta				
Stoneville, Miss.	-5	-1	4	-4	5/22	10/21	152
Marianna, Ark.	-7	0	0	-20	6/4	11/27	176
Stuttgart, Ark.	-11	9	0	0	5/25	10/22	150
Baton Rouge, La.	5	-5	8	-10	4/30	10/28	191
Hamburg, La.	-1	-7	0	-7	5/3	11/1	182
Crowley, La.	-2	-5	-5	-5	6/14	10/25	133
Mean	-3	-1	1	-8			
			West				
Fayetteville, Ark.	-11	0	0	-11	5/12	11/5	177
Lubbock, Texas	-6	8	10	-10	5/22	11/5	167
Mean	-8	4	5	-10			

Table 30: Summary of lodging data for the strains of the Uniform Test, Group VII, 1945

Location	Roanoke	Volstate	Ogden	26-39M	Missoy
		East Coast			
Willard, N.C. 6/11	2.0	2.0	1.0	2.0	3.0
Willard, N.C. 4/27	2.0	2.0	1.0	2.0	4.0
McCullers, N.C. 4/28	2.0	2.0	2.0	3.0	5.0
McCullers, N.C. 6/4	3.0	3.0	2.0	3.0	4.0
Florence, S.C. 5/14	1.0	1.0	1.0	1.0	3.0
Florence, S.C. 6/20	1.0	1.0	1.0	2.0	2.0
Rocky Mount, N.C.	3.0	3.0	2.0	3.0	5.0
Plymouth, N.C.	3.0	3.0	1.0	2.0	5.0
Mean	2.1	2.1	1.4	2.3	3.9
		Southeast			
Monetta, S.C.	1.0	1.0	1.0	1.0	1.0
Tifton, Ga.	1.0	1.0	1.0	1.0	3.0
Richmond, Hill, Ga.	1.0	1.0	1.0	1.0	2.0
Blackville, S.C.	1.0	1.0	1.0	1.0	1.0
Mean	1.0	1.0	1.0	1.0	1.8
		Upper and Central South			
Clemson, S.C. (1)	2.0	1.0	1.0	5.0	1.0
Clemson, S.C. (2)	1.0	1.0	1.0	2.0	3.0
State College, Miss.	2.0	2.0	1.0	2.0	4.0
Experiment, Ga.	1.0	1.0	1.0	1.0	1.0
Watkinsville, Ga.	1.0	1.0	1.0	1.0	1.0
Mean	1.4	1.2	1.0	2.2	2.0
		Delta			
Raymond, Miss.	1.0	1.0	1.0	1.0	4.0
Clarkedale, Ark.	3.0	4.0	2.0	3.0	5.0
Stoneville, Miss.	5.0	5.0	3.0	4.0	5.0
Marianna, Ark.	4.0	3.0	2.0	3.0	4.0
Stuttgart, Ark.	1.0	1.0	1.0	1.0	4.0
Baton Rouge, La.	2.0	2.0	1.0	1.0	4.0
Hamburg, La.	1.0	1.0	1.0	1.0	3.0
Crowley, La.	2.0	2.0	1.0	2.0	3.0
Mean	2.4	2.4	1.5	2.0	4.0
		West			
Hope, Ark.	3.0	3.0	2.0	2.0	3.0
Fayetteville, Ark.	1.3	1.0	1.0	1.5	3.3
Lubbock, Texas	1.0	1.0	1.0	1.0	1.0
Ysleta, Texas	1.3	1.5	1.0	1.2	1.0
Mean	1.7	1.6	1.3	1.4	2.1

Table 30: (Continued)

Location	Wood's Yellow	P.I. 89775A	CNS	Palmetto	Monetta	Mean
		East Coast				
Willard, N.C. 6/11	2.0	2.0	3.0	3.0	3.0	2.3
Willard, N.C. 4/27	1.0	3.0	3.0	3.0	3.0	2.4
McCullers, N.C. 4/28	2.0	4.0	5.0	4.0	4.0	3.3
McCullers, N.C. 6/4	2.0	3.0	4.0	4.0	3.0	3.1
Florence, S.C. 5/14	2.0	2.0	3.0	3.0	3.0	2.0
Florence, S.C. 6/20	2.0	2.0	2.0	2.0	2.0	1.7
Rocky Mount, N.C.	2.0	3.0	4.0	5.0	4.0	3.4
Plymouth, N.C.	2.0	3.0	5.0	5.0	4.0	3.3
Mean	1.9	2.8	3.6	3.6	3.3	2.7
		Southeast				
Monetta, S.C.	1.0	1.0	1.0	1.0	1.0	1.0
Tifton, Ga.	1.0	1.0	1.0	3.0	1.0	1.4
Richmond Hill, Ga.	1.0	1.0	1.0	1.0	1.0	1.1
Blackville, S.C.	1.0	3.0	1.0	1.0	2.0	1.3
Mean	1.0	1.5	1.0	1.5	1.3	1.2
		Upper and Central South				
Clemson, S.C. (1)	5.0	4.0	1.0	3.0	2.0	2.5
Clemson, S.C. (2)	1.0	2.0	3.0	3.0	5.0	2.2
State College, Miss.	1.0	2.0	4.0	3.0	3.0	2.4
Experiment, Ga.	1.0	1.0	2.0	2.0	1.0	1.2
Watkinsville, Ga.	1.0	1.0	2.0	1.0	2.0	1.2
Mean	1.8	2.0	2.4	2.4	2.6	1.9
		Delta				
Raymond, Miss.	1.0	4.0	4.0	5.0	4.0	2.6
Clarkedale, Ark.	-	4.0	4.0	4.0	4.0	3.7
Stoneville, Miss.	3.0	4.0	5.0	5.0	5.0	4.4
Marianna, Ark.	-	3.0	4.0	4.0	5.0	3.6
Stuttgart, Ark.	-	3.0	4.0	3.0	4.0	2.4
Baton Rouge, La.	2.0	3.0	2.0	4.0	3.0	2.4
Hamburg, La.	2.0	3.0	3.0	3.0	2.0	2.0
Crowley, La.	1.0	2.0	3.0	3.0	4.0	2.3
Mean	1.8	3.3	3.6	3.9	3.9	2.9
		West				
Hope, Ark.	2.0	2.0	4.0	3.0	4.0	2.8
Fayetteville, Ark.	1.3	2.5	3.8	1.3	3.0	2.0
Lubbock, Texas	1.0	2.0	1.0	1.0	3.0	1.3
Ysleta, Texas	1.2	1.0	1.5	1.5	1.5	1.3
Mean	1.4	1.9	2.6	1.7	2.9	1.9

Table 31: Summary of height data for the strains of the Uniform Test, Group VII, 1945

Location	Roanoke	Volstate	Ogden	26-39M	Missoy
		East Coast			
Willard, N.C. 6/11	36	34	30	34	54
Willard, N.C. 4/27	38	36	32	38	54
McCullers, N.C. 4/28	44	42	38	38	60
McCullers, N.C. 6/4	40	40	32	40	60
Florence, S.C. (1)	36	34	28	38	56
Florence, S.C. (2)	30	30	22	32	54
Rocky Mount, N.C.	36	36	32	38	60
Plymouth, N.C.	42	42	36	40	54
Mean	38	37	31	37	57
		Southeast			
Monetta, S.C.	34	34	28	35	36
Tifton, Ga.	30	28	27	32	42
Richmond Hill, Ga.	36	35	34	44	55
Blackville, S.C.	34	28	29	33	43
Mean	34	31	30	36	44
		Upper and Central South			
Clemson, S.C. (1)	32	24	27	30	25
Clemson, S.C. (2)	42	38	33	42	42
State College, Miss.	32	38	36	35	40
Experiment, Ga.	34	34	32	30	50
Watkinsville, Ga.	24	26	20	30	36
Mean	33	32	30	33	39
		Delta			
Raymond, Miss.	36	43	29	42	42
Clarkedale, Ark.	46	44	36	36	44
Tunica, Miss.	44	44	30	41	54
Satartia, Miss.	34	29	28	31	55
Stoneville, Miss.	44	35	30	38	52
Anchorage, Miss.	35	33	25	35	58
Marianna, Ark.	37	36	30	34	42
Stuttgart, Ark.	33	34	20	28	42
Onward, Miss.	38	38	33	37	63
Baton Rouge, La.	27	30	25	25	50
Hamburg, La.	17	18	14	30	46
Crowley, La.	25	28	18	26	48
Winchester, Ark.[1]	47	-	34	-	57
Mean	35	34	27	34	50
		West			
Hope, Ark.	40	44	31	37	46
Fayetteville, Ark.	38	37	31	34	46
Lubbock, Texas	29	28	26	29	32
Ysleta, Texas	33	39	39	39	49
Mean	35	37	32	35	43

Table 31: (Continued)

Location	Wood's Yellow	P.I. 89775A	CNS	Palmetto	Monetta	Mean
		East Coast				
Willard, N.C. 6/11	36	36	30	48	36	37
Willard, N.C. 4/27	40	48	32	58	44	42
McCullers, N.C. 4/28	38	50	34	60	40	42
McCullers, N.C. 6-4	35	38	36	60	40	42
Florence, S.C. (1)	38	46	36	60	46	42
Florence, S.C. (2)	36	40	32	54	36	37
Rocky Mount, N.C.	40	48	32	60	42	42
Plymouth, N.C.	42	44	36	54	36	43
Mean	38	44	34	57	40	41
		Southeast				
Monetta, S.C.	34	38	35	60	36	37
Tifton, Ga.	35	37	31	38	33	33
Richmond Hill, Ga.	43	51	39	59	45	44
Blackville, S.C.	33	38	32	45	34	35
Mean	36	41	34	51	37	37
		Upper and Central South				
Clemson, S.C. (1)	32	36	35	42	33	32
Clemson, S.C. (2)	38	36	34	50	36	39
State College, Miss.	43	46	38	60	42	40
Experiment, Ga.	34	40	36	56	42	39
Watkinsville, Ga.	30	26	26	40	30	29
Mean	35	37	34	48	37	36
		Delta				
Raymond, Miss.	49	52	41	53	44	43
Clarkedale, Ark.	-	40	35	48	40	41
Tunica, Miss.	44	46	37	57	45	44
Satartia, Miss.	37	44	30	43	35	37
Stoneville, Miss.	42	44	35	60	42	42
Anchorage, Miss.	39	46	31	56	33	39
Marianna, Ark.	-	31	32	44	34	36
Stuttgart, Ark.	-	30	30	51	36	34
Onward, Miss.	40	50	40	59	43	44
Baton Rouge, La.	36	45	28	52	33	35
Hamburg, La.	27	43	25	53	27	30
Crowley, La.	30	36	31	50	33	33
Winchester, Ark.1/	39	43	44	63	46	-
Mean	38	42	33	52	37	38
		West				
Hope, Ark.	35	40	37	60	38	41
Fayetteville, Ark.	31	33	35	45	37	37
Lubbock, Texas	28	27	27	27	27	28
Ysleta, Texas	43	43	41	56	42	42
Mean	34	36	35	47	36	37

1/Not included in mean.

Table 32: Summary of the seed quality for the strains of the Uniform Test, Group VII, 1945.

Location	Roanoke	Volstate	Ogden	26-39M	Missoy	Wood's Yellow
		East Coast				
Willard, N.C. 6/11	1.0	1.0	2.0	2.0	1.0	2.0
Willard, N.C. 4/27	2.0	2.0	2.0	3.0	2.0	3.0
Florence, S.C. 5/4	1.0	1.0	2.0	2.0	1.0	2.0
Florence, S.C. 6/20	2.0	2.0	2.0	2.0	2.0	2.0
Rocky Mount, N.C.	2.0	2.0	3.0	3.0	2.0	3.0
Plymouth, N.C.	2.0	2.0	3.0	3.0	3.0	2.0
Mean	1.7	1.7	2.3	2.5	1.8	2.3
		Southeast				
Fairhope, Ala.	2.0	1.8	1.5	2.0	1.8	2.2
Monetta, S.C.	1.0	2.0	2.0	2.0	1.0	2.0
Auburn, Ala.	2.0	2.0	2.5	3.2	2.0	2.8
Mean	1.7	1.9	2.0	2.4	1.6	2.3
		Upper and Central South				
Clemson, S.C. (1)	2.0	2.0	3.0	2.0	2.0	3.0
Clemson, S.C. (2)	1.0	2.0	4.0	1.0	1.0	1.0
State College, Miss.	1.0	1.0	1.0	1.0	2.0	1.0
Experiment, Ga.	1.0	1.0	1.0	1.0	1.0	1.0
Watkinsville, Ga.	1.0	1.0	2.0	1.0	1.0	1.0
Mean	1.2	1.4	2.2	1.2	1.4	1.4
		Delta				
Clarkedale, Ark.	1.0	1.3	2.0	1.5	2.0	-
Tunica, Miss.	1.8	1.5	2.5	1.5	1.5	2.0
Satartia, Miss.	2.0	1.0	2.3	1.8	2.8	1.8
Stoneville, Miss.	2.3	2.3	2.6	1.5	2.9	2.0
Anchorage, Miss.	1.5	2.0	2.6	1.3	2.5	2.3
Marianna, Ark	1.3	1.0	1.8	1.3	1.0	-
Stuttgart, Ark.	1.8	1.5	2.5	2.3	2.0	-
Onward, Miss.	2.3	2.8	3.0	2.0	4.3	2.0
Winchester, Ark.	2.0	2.0	4.0	2.0	4.0	3.0
Baton Rouge, La.	2.0	4.0	4.0	4.0	2.0	3.0
Hamburg, La.	4.0	4.0	5.0	5.0	4.0	5.0
Crowley, La.	3.0	3.0	5.0	3.0	3.0	5.0
Mean	2.1	2.2	3.1	2.3	2.7	2.9
		West				
Hope, Ark.	2.0	2.0	3.0	2.5	2.3	2.0
Fayetteville, Ark.	1.8	1.0	1.0	1.0	2.3	3.5
Lubbock, Texas	3.0	2.0	1.0	2.0	2.0	3.0
Ysleta, Texas	2.0	2.0	1.7	2.0	2.0	2.0
Mean	2.2	1.8	1.7	1.9	2.2	2.6

Table 32: (Continued)

Location	P.I. 89775A	CNS	Palmetto	Monetta	Mean
		East Coast			
Willard, N.C. 6/11	2.0	2.0	1.0	2.0	1.6
Willard, N.C. 4/27	3.0	2.0	2.0	2.0	2.3
Florence, S.C. 5/4	2.0	1.0	1.0	2.0	1.5
Florence, S.C. 6/20	2.0	2.0	2.0	2.0	2.0
Rocky Mount, N.C.	3.0	2.0	2.0	2.0	2.4
Plymouth, N.C.	4.0	2.0	3.0	2.0	2.6
Mean	2.7	1.8	1.8	2.0	2.1
		Southeast			
Fairhope, Ala.	3.5	1.0	2.5	1.5	2.0
Monetta, S.C.	2.0	1.0	1.0	1.0	1.5
Auburn, Ala.	2.2	2.2	1.2	1.5	2.2
Mean	2.6	1.4	1.6	1.3	1.9
		Upper and Central South			
Clemson, S.C. (1)	4.0	2.0	1.0	1.5	2.3
Clemson, S.C. (2)	4.0	1.0	1.0	2.0	1.8
State College, Miss.	2.0	1.0	1.0	2.0	1.3
Experiment, Ga.	1.0	2.0	2.0	1.0	1.2
Watkinsville, Ga.	1.0	1.0	1.0	1.0	1.1
Mean	2.4	1.4	1.2	1.5	1.5
		Delta			
Clarkedale, Ark.	2.5	1.5	2.3	2.0	1.8
Tunica, Miss.	2.3	1.6	1.5	2.0	1.8
Satartia, Miss.	2.8	1.3	2.5	2.0	2.0
Stoneville, Miss.	2.8	2.3	3.3	2.0	2.4
Anchorage, Miss.	3.0	1.8	3.0	1.6	2.2
Marianna, Ark.	3.5	1.0	1.5	2.3	1.6
Stuttgart, Ark.	3.8	1.5	1.5	1.5	2.0
Onward, Miss.	3.5	3.8	4.3	3.0	3.1
Winchester, Ark.	4.0	3.0	4.0	4.0	3.2
Baton Rouge, La.	5.0	1.0	2.0	4.0	3.1
Hamburg, La.	5.0	3.0	4.0	4.0	4.3
Crowley, La.	5.0	1.0	2.0	2.0	3.2
Mean	3.6	1.9	2.7	2.5	2.6
		West			
Hope, Ark.	3.8	4.8	4.0	2.8	2.9
Fayetteville, Ark.	2.3	1.0	1.0	2.0	1.7
Lubbock, Texas	2.0	1.0	3.0	1.0	2.0
Ysleta, Texas	2.7	2.0	2.0	2.0	2.0
Mean	2.7	2.2	2.5	2.0	2.2

Table 33: Summary of the seed weight, in grams per 100 seeds, for the strains of the Uniform Test, Group VII, 1945

Location	Roanoke	Vol-state	Ogden	26-39M	Missoy	Wood's Yellow	89775A	CNS	Palmetto	Monetta	Mean
					East Coast						
Willard, N.C. 4-27	15.9	15.7	15.9	17.1	12.0	18.7	14.6	13.7	13.2	12.4	14.9
Willard, N.C. 6/11	16.1	16.3	17.6	17.9	12.6	20.8	15.5	13.8	13.3	13.3	15.7
McCullers, N.C. 4/28	15.7	19.6	15.8	17.0	12.7	24.9	19.7	16.4	12.6	12.6	16.7
McCullers, N.C. 6/4	17.5	17.7	18.2	18.8	12.9	23.1	15.3	14.5	13.1	14.2	16.5
Florence, S.C. 5/14	15.8	15.1	17.6	19.1	12.8	22.1	13.9	14.2	12.8	14.1	15.8
Florence, S.C. 6/20	12.2	12.9	13.9	16.0	11.1	20.3	14.3	13.4	11.0	12.2	13.7
Rocky Mount, N.C.	16.0	15.7	16.3	17.3	12.5	21.8	13.3	14.6	14.5	13.8	15.6
Hartsville, S.C.	12.4	12.2	13.9	13.7	10.0	16.7	13.2	12.8	9.2	10.4	12.5
Plymouth, N.C.	15.3	15.0	17.2	16.9	12.2	20.7	14.0	13.8	13.0	12.3	15.0
Mean	15.2	15.6	16.3	17.1	12.1	21.0	14.9	14.1	12.5	12.8	15.2
					Southeast						
Fairhope, Ala.	15.4	15.0	16.4	15.1	11.6	19.9	13.2	12.5	11.8	11.2	14.2
Monetta, S.C.	16.1	15.4	15.6	17.9	13.7	24.0	11.0	15.6	13.9	12.9	15.6
Tifton, Ga.	14.0	13.4	14.5	15.2	11.6	18.8	10.1	12.5	22.5	11.7	14.4
Richmond Hill, Ga.	13.2	14.1	16.1	16.0	11.8	19.2	12.9	12.4	13.8	12.4	14.2
Blackville, S.C.	11.2	12.2	14.3	15.5	11.4	11.3	11.3	14.4	12.1	13.4	12.8
Auburn, Ala.	12.9	12.8	12.1	15.6	11.7	16.0	11.0	12.3	11.9	14.0	13.0
Mean	13.8	13.8	14.8	15.9	12.0	18.2	11.7	13.3	14.3	12.6	14.0
					Upper and Central South						
Clemson, S.C. (1)	17.5	17.5	20.5	18.5	11.0	23.0	17.0	12.5	10.5	13.5	16.2
Clemson, S.C. (2)	16.0	17.0	17.0	14.0	10.5	21.0	12.5	13.5	11.0	14.5	14.7
State College, Miss.	14.0	14.0	14.4	15.1	9.5	12.2	12.4	11.9	11.0	12.7	12.7
Experiment, Ga.	14.3	13.0	12.1	15.7	11.5	19.8	11.5	13.2	10.3	12.5	13.4
Watkinsville, Ga.	16.4	16.4	16.1	19.9	11.9	22.3	14.5	14.2	12.7	14.0	15.8
Mean	15.6	15.6	16.0	16.6	10.9	19.7	13.6	13.1	11.1	13.4	14.6

Table 33: (Continued)

Location	Roanoke	Vol-state	Ogden	26-39M	Missoy	Woods Yellow	89775A	CNS	Palmetto	Monetta	Mean
					Delta						
Raymond, Miss.	15.4	14.6	16.0	16.0	11.6	19.1	12.3	12.8	11.3	12.4	14.2
Clarkedale, Ark.	15.5	16.0	15.5	17.1	11.5	-	13.7	13.0	11.9	12.0	14.0
Tunica, Miss.	15.7	16.0	15.1	18.2	12.8	21.0	13.6	14.6	13.3	13.7	15.4
Satartia, Miss.	16.1	15.7	15.0	16.0	13.6	24.6	12.0	13.9	13.3	11.5	15.2
Stoneville, Miss.	14.7	14.6	13.2	14.0	12.4	19.9	11.8	15.9	13.5	11.6	14.2
Anchorage, Miss.	16.0	17.1	16.9	16.4	12.2	19.3	15.1	13.0	13.1	10.5	15.0
Marianna, Ark.	16.0	14.9	16.3	17.3	11.0	-	12.1	12.2	10.5	12.2	13.6
Stuttgart, Ark.	15.0	14.1	13.1	14.9	10.6	-	11.1	13.8	9.7	10.9	12.6
Onward, Miss.	13.8	21.1	19.4	17.5	13.1	24.4	16.3	15.5	14.6	14.0	17.0
Winchester, Ark.	15.1	14.5	18.1	15.8	11.0	20.3	11.9	12.8	12.9	13.3	14.6
Baton Rouge, La.	12.7	14.6	12.8	13.8	11.3	13.9	13.4	12.4	12.7	11.9	13.0
Hamburg, La.	13.1	13.3	13.0	14.0	11.1	13.4	12.6	12.7	11.8	10.6	12.6
Crowley, La.	14.8	15.2	15.2	16.1	11.1	15.5	13.2	13.1	12.3	12.5	13.9
Mean	14.9	15.5	15.4	15.9	11.8	19.1	13.0	13.5	12.4	12.1	14.4
					West						
Hope, Ark.	19.5	16.3	20.4	18.8	11.8	24.3	12.7	15.6	13.4	14.9	16.8
Fayetteville, Ark.	17.8	16.5	16.2	18.7	11.0	24.1	12.4	12.8	11.3	12.8	15.4
Lubbock, Texas	15.0	14.0	17.5	17.0	9.0	17.0	13.0	11.0	10.0	10.0	13.4
Mean	17.4	15.6	18.0	18.2	10.6	21.8	12.7	13.1	11.6	12.6	15.2

Table 34: Summary of the percentage protein of the strains of the Uniform Test, Group VII, 1945

Location	Roanoke	Vol-state	Ogden	26-39M	Missoy	Woods Yellow	89775A	CNS	Palmetto	Monetta	Mean
					East Coast						
Willard, N.C. 6/11	42.3	42.3	43.9	45.1	45.1	45.5	47.0	47.9	47.9	46.2	45.3
Willard, N.C. 4/27	41.9	42.4	43.1	44.8	45.7	46.6	46.7	47.9	47.2	47.1	45.3
McCullers, N.C. 4/28	39.9	40.9	41.3	42.5	43.3	42.9	44.6	46.0	43.8	43.9	42.9
McCullers, N.C. 6/4	41.2	41.3	42.4	44.4	44.3	44.1	45.4	45.4	45.9	44.7	43.9
Florence, S.C. 5/14	40.0	40.2	41.4	42.8	40.9	43.1	43.3	44.2	43.2	43.7	42.3
Florence, S.C. 6/20	39.4	39.9	40.8	41.9	40.0	42.6	42.9	44.9	43.7	42.5	41.9
Rocky Mount, N.C.	42.6	43.2	44.6	46.1	46.0	45.4	47.0	48.5	48.1	46.5	45.8
Hartsville, S.C.	35.2	35.2	37.5	39.9	40.2	41.2	42.6	45.3	43.0	42.6	40.3
Plymouth, N.C.	42.8	42.6	44.7	46.5	46.1	45.4	46.2	48.1	48.5	46.4	45.7
Mean	40.6	40.9	42.2	43.8	43.5	44.1	45.1	46.5	45.7	44.8	43.7
					Southeast						
Fairhope, Ala.	39.9	40.3	41.7	42.5	43.1	43.1	43.5	45.0	43.9	42.4	42.5
Monetta, S.C.	41.4	41.1	43.2	43.8	44.9	44.9	43.8	47.5	46.2	44.6	44.1
Tifton, Ga.	41.0	41.0	43.2	45.5	45.4	46.9	40.3	48.1	48.1	45.2	44.5
Richmond Hill, Ga.	43.4	44.9	46.1	47.2	45.3	48.3	47.1	48.6	48.6	46.1	46.6
Blacksville, S.C.	33.6	34.1	37.6	39.2	40.9	42.5	41.3	44.7	44.9	42.6	40.1
Auburn, Ala.	36.3	37.3	35.3	39.7	40.0	43.4	40.9	42.6	43.2	43.5	40.2
Mean	39.3	39.8	41.2	43.0	43.3	44.9	42.8	46.1	45.8	44.1	43.0
					Upper and Central South						
Clemson, S.C. (1)	40.1	39.5	40.8	40.2	41.4	41.6	42.3	42.8	42.2	42.0	41.3
Clemson, S.C. (2)	38.2	40.2	44.2	43.0	39.4	42.1	43.5	44.2	42.8	44.3	42.2
State College, Miss.	39.8	41.0	42.9	43.6	44.8	45.5	43.2	47.3	46.8	45.7	44.1
Experiment, Ga.	39.6	37.8	40.9	41.7	40.6	42.0	41.3	43.5	42.1	43.1	41.3
Watkinsville, Ga.	38.4	39.4	40.1	43.6	40.6	42.8	42.6	41.3	44.1	40.8	41.4
Mean	39.2	39.6	41.8	42.4	41.4	42.8	42.6	43.8	43.6	43.2	42.1

Table 34: (Continued)

Location	Roanoke	Vol-state	Ogden	26-39M	Missoy	Wood's Yellow	89775A	CNS	Palmetto	Monetta	Mean
					Delta						
Raymond, Miss.	40.4	41.1	41.0	45.0	44.2	45.5	43.9	45.8	45.5	43.4	43.6
Clarkedale, Ark.	37.8	38.1	38.2	41.7	43.2	-	43.3	45.7	43.7	43.9	41.7
Tunica, Miss.	37.2	37.3	37.5	40.9	40.2	42.8	39.1	44.7	44.2	43.7	40.8
Satartia, Miss.	37.4	38.9	41.8	41.9	40.3	42.8	42.6	43.7	43.8	43.3	41.7
Stoneville, Miss.	40.6	41.1	43.5	43.2	43.9	44.1	43.2	46.5	44.6	44.3	43.5
Anchorage, Miss.	39.6	38.4	42.0	43.4	42.7	41.8	42.7	44.8	44.4	44.9	42.5
Marianna, Ark.	35.5	35.4	37.0	40.1	37.6	-	38.4	40.4	39.9	40.6	38.3
Stuttgart, Ark.	40.8	41.2	44.2	44.8	44.8	-	44.2	47.4	47.1	45.0	44.4
Onward, Miss.	40.1	40.7	39.9	44.1	44.6	43.4	45.3	45.7	46.9	44.4	43.5
Winchester, Ark.	39.2	38.1	39.8	39.8	45.4	42.3	42.6	45.7	45.6	46.6	42.5
Baton Rouge, La.	44.1	44.0	44.7	48.9	46.7	49.5	46.0	48.0	47.6	47.6	46.7
Hamburg, La.	42.8	43.9	46.5	46.7	46.4	46.8	47.3	47.7	46.1	46.6	46.1
Crowley, La.	45.1	46.8	47.7	47.7	45.8	49.4	48.7	48.8	48.9	47.4	47.6
Mean	40.0	40.4	41.8	43.7	43.5	44.8	43.6	45.8	45.2	44.7	43.3
					West						
Hope, Ark.	40.8	40.9	45.1	44.2	42.3	44.1	41.0	52.0	46.2	46.6	44.3
Fayetteville, Ark.	39.9	39.0	39.9	42.6	42.5	41.9	39.9	42.9	43.2	42.3	41.4
Lubbock, Texas	41.0	41.3	43.2	43.6	43.9	43.1	43.7	45.9	45.7	45.1	43.7
Mean	40.6	40.4	42.7	43.5	42.9	43.0	41.5	46.9	45.0	44.7	43.1

Table 35: Summary of the percentage of oil for the strains of the Uniform Test, Group VII, 1945

Location	Roanoke	Vol-state	Ogden	26-39M	Missoy	Woods-Yellow	89775A	CNS	Palmetto	Monetta	Mean
					East Coast						
Willard, N.C. 6/11	21.7	21.4	21.2	18.6	18.1	18.5	17.9	17.5	17.1	16.2	18.8
Willard, N.C. 4/27	21.6	21.1	20.8	18.4	18.1	18.2	18.4	17.8	17.3	16.1	18.8
McCullers, N.C. 4/28	22.1	20.7	21.0	19.5	18.6	19.8	18.7	18.1	18.5	17.3	19.4
McCullers, N.C. 6/4	21.5	21.1	21.1	19.0	17.7	18.2	18.6	17.5	17.0	16.8	18.9
Florence, S.C. 5/14	22.1	21.8	21.1	19.9	19.4	19.5	18.8	19.0	18.7	17.3	19.8
Florence, S.C. 6/20	21.7	21.0	20.6	19.7	18.6	18.6	18.8	18.0	16.9	15.9	19.0
Rocky Mount, N.C.	20.8	19.8	19.6	17.7	17.8	18.6	17.2	17.5	16.9	16.6	18.3
Hartsville, S.C.	23.0	22.4	22.4	20.2	19.3	19.9	19.2	18.2	17.8	16.5	19.9
Plymouth, N.C.	20.4	19.9	19.6	17.5	17.8	18.5	17.4	16.9	16.5	15.4	18.0
Mean	21.7	21.0	20.8	18.9	18.4	18.9	18.3	17.8	17.4	16.5	19.0
					Southeast						
Fairhope, Ala.	22.9	22.3	21.8	20.1	19.9	20.3	19.9	19.4	19.3	17.7	20.4
Monetta, S.C.	22.6	22.2	21.2	19.7	18.7	19.4	19.5	18.5	18.3	17.1	19.7
Tifton, Ga.	23.1	22.4	22.7	19.8	20.1	19.5	21.2	18.8	18.0	17.6	20.3
Richmond Hill, Ga.	22.1	20.9	22.1	19.9	19.9	19.2	19.6	19.1	17.3	16.1	19.6
Blackville, S.C.	23.4	23.4	23.2	20.9	19.2	18.3	19.6	19.0	17.3	16.7	20.1
Auburn, Ala.	23.3	23.1	23.4	21.0	19.7	19.4	20.2	19.7	19.0	18.1	20.7
Mean	22.9	22.4	22.4	20.2	19.6	19.4	20.0	19.1	18.2	17.2	20.1
					Upper and Central South						
Clemson, S.C. (1)	21.9	22.0	21.3	19.6	18.6	19.5	20.1	18.8	18.1	17.2	19.7
Clemson, S.C. (2)	23.1	22.7	21.3	20.7	18.6	20.2	20.1	19.0	18.8	18.0	20.3
State College, Miss.	22.3	21.3	20.2	19.7	18.9	18.6	19.0	17.5	17.5	16.8	19.2
Experiment, Ga.	22.8	22.4	20.6	19.9	20.3	20.2	20.0	19.3	19.2	17.7	20.2
Watkinsville, Ga.	22.8	22.5	23.1	20.2	20.1	19.7	20.2	20.2	18.4	18.6	20.6
Mean	22.6	22.2	21.3	20.0	19.3	19.6	19.9	19.0	18.4	17.7	20.0

Table 35: (Continued)

Location	Roanoke	Vol-state	Ogden	26-39M	Missoy	Woods Yellow	89775A	CNS	Palmetto	Monetta	Mean
					Delta						
Raymond, Miss.	22.1	21.5	21.6	19.6	19.9	18.6	19.2	18.5	18.3	17.4	19.7
Clarkedale, Ark.	21.9	21.4	21.9	18.6	17.3	-	18.5	16.4	17.1	16.5	18.8
Tunica, Miss.	22.4	22.3	23.1	20.1	17.9	19.0	20.4	18.2	18.5	16.8	19.9
Satartia, Miss.	22.5	21.8	21.4	19.4	20.1	19.9	19.1	18.9	18.2	16.5	19.8
Stoneville, Miss.	19.6	19.0	18.0	17.8	18.6	17.9	17.7	17.2	16.9	14.5	17.7
Anchorage, Miss.	22.4	22.2	21.2	19.0	19.6	19.3	19.4	18.3	19.1	15.8	19.6
Marianna, Ark.	23.1	22.9	23.5	19.5	18.9	-	20.5	18.2	18.4	17.9	20.3
Stuttgart, Ark.	22.2	21.6	21.3	18.4	18.3	-	20.7	17.2	17.4	17.2	19.4
Onward, Miss.	21.6	21.4	20.9	18.6	19.2	19.9	18.3	18.8	18.0	16.2	19.3
Winchester, Ark.	22.2	22.3	22.4	20.1	18.0	19.6	19.1	18.0	17.5	15.9	19.5
Baton Rouge, La.	19.5	19.4	19.8	16.6	17.2	16.4	17.7	17.0	16.4	14.0	17.4
Hamburg, La.	17.9	17.9	18.5	16.7	16.8	16.0	16.7	19.9	16.4	14.9	17.2
Crowley, La.	19.9	18.8	19.1	18.6	18.3	17.5	18.0	18.2	17.2	15.5	18.1
Mean	21.3	21.0	21.0	18.7	18.5	18.4	18.9	18.1	17.6	16.1	19.0
					West						
Hope, Ark.	20.9	20.2	19.4	19.1	18.7	18.1	21.9	18.6	19.0	16.7	19.3
Fayetteville, Ark.	21.4	21.1	21.5	18.7	17.1	18.3	20.4	16.9	17.1	17.0	19.0
Lubbock, Texas	19.9	19.2	19.8	16.7	16.2	16.2	17.6	15.3	19.9	14.5	17.5
Mean	20.7	20.2	20.2	18.2	17.3	17.5	20.0	16.9	18.7	16.1	18.6

Table 36: Summary of the iodine number of the oil for the strains of the Uniform Test, Group VII, 1945

Location	Roanoke	Vol-state	Ogden	26-39M	Missoy	Wood's Yellow	89775A	CNS	Palmetto	Monetta	Mean
					East Coast						
Willard, N.C.	131.7	133.2	131.1	131.0	132.1	128.4	129.8	127.4	131.2	132.6	130.9
Willard, N.C. 4/27	130.6	132.6	134.0	130.9	128.8	127.4	129.2	126.7	128.0	130.4	129.9
McCullers, 4-28	135.0	135.8	137.4	134.3	134.5	130.3	133.2	129.9	134.2	133.3	133.8
McCullers, N.C. 6/4	133.8	134.5	135.7	132.3	136.0	129.5	132.3	130.8	135.4	134.2	133.5
Florence, S.C. 5/14	131.2	133.6	132.0	131.7	132.6	128.3	130.1	130.0	132.3	131.6	131.3
Florence, S.C. 6/20	132.6	134.5	135.1	134.1	134.5	131.2	131.7	129.3	134.1	137.3	133.4
Rocky Mount, N.C.	134.5	135.7	137.2	134.3	131.6	129.3	133.7	128.8	132.1	131.6	132.9
Hartsville, S.C.	133.2	134.5	136.0	132.7	134.3	129.2	133.7	130.9	135.1	134.6	133.4
Plymouth, N.C.	135.3	137.4	137.4	133.7	132.0	129.8	134.2	131.2	133.3	134.4	133.9
Mean	133.1	134.6	135.1	132.8	132.9	129.3	132.0	129.4	132.9	133.3	132.6
					Southeast						
Fairhope, Ala.	132.1	132.1	132.2	132.1	132.2	127.7	130.9	129.7	128.6	132.4	131.0
Monetta, S.C.	133.0	134.0	134.6	132.6	131.4	127.8	133.5	127.3	130.6	133.2	131.8
Tifton, Ga.	131.5	133.2	132.9	130.9	122.7	122.3	130.0	127.0	120.8	131.5	128.3
Richmond Hill, Ga.	126.4	128.6	123.5	126.4	123.4	120.3	125.2	121.8	123.0	128.6	124.7
Blackville, S.C.	132.1	133.7	129.9	131.7	132.9	130.8	133.4	130.3	132.6	134.0	132.1
Auburn, Ala.	130.3	130.9	128.0	129.4	130.3	126.5	132.5	127.5	127.0	129.9	129.2
Mean	130.9	132.1	130.2	130.5	128.8	125.9	130.9	127.3	127.1	131.6	129.5
					Upper and Central South						
Clemson, S.C. (1)	132.8	133.4	133.3	132.3	136.1	129.6	133.0	132.1	134.6	133.9	133.1
Clemson, S.C. (2)	130.9	131.3	127.5	130.5	131.7	129.3	131.1	129.2	131.0	129.5	130.2
State College, Miss.	132.1	132.5	132.6	131.5	128.0	128.8	130.9	129.1	125.5	128.8	130.0
Experiment, Ga.	129.7	131.7	133.3	129.5	132.0	129.7	132.3	129.2	128.6	133.1	130.9
Watkinsville, Ga.	132.1	133.3	129.2	130.6	132.8	129.8	132.7	130.3	132.9	131.5	131.5
Mean	131.5	132.4	131.2	130.9	132.1	129.4	132.0	130.0	130.5	131.4	131.1

Table 36: (Continued)

Location	Roanoke	Vol-state	Ogden	26-39M	Missoy	Wood's Yellow	89775A	CNS	Palmetto	Monetta	Mean
					Delta						
Raymond, Miss.	129.4	131.2	133.3	130.3	126.6	126.3	130.6	128.7	125.0	129.8	129.1
Clarkedale, Ark.	135.1	136.5	137.4	135.0	136.3	-	135.6	133.4	135.7	134.8	135.5
Tunica, Miss.	134.0	135.2	133.2	133.7	134.4	132.3	134.4	131.0	133.3	133.8	133.5
Satartia, Miss.	132.5	130.4	133.8	131.5	130.9	128.3	131.6	131.0	129.4	132.6	131.2
Stoneville, Miss.	137.7	128.7	139.4	137.5	129.9	135.3	136.8	132.7	128.5	137.3	134.4
Anchorage, Miss.	132.2	133.4	134.1	132.6	128.3	128.0	131.7	128.7	128.3	132.7	131.0
Marianna, Ark.	132.6	133.7	132.6	133.7	137.4	-	133.8	133.7	137.4	134.0	134.3
Stuttgart, Ark.	131.5	133.7	132.5	133.2	134.5	-	133.1	127.7	131.2	132.9	132.3
Onward, Miss.	131.0	133.2	134.1	132.6	127.4	127.5	132.2	127.5	126.4	131.6	130.4
Winchester, Ark.	132.3	134.0	130.7	131.5	129.4	128.3	132.7	127.3	129.3	131.5	130.7
Baton Rouge, La.	133.6	136.0	134.5	131.2	126.9	128.0	128.7	124.2	121.7	133.0	129.8
Hamburg, La.	138.8	139.9	138.7	132.9	126.8	131.2	130.6	127.0	126.4	132.6	132.5
Crowley, La.	126.7	128.6	130.9	124.6	125.4	124.1	129.6	123.3	121.8	124.3	125.9
Mean	132.9	133.4	134.2	132.3	130.3	128.9	132.4	128.9	128.8	132.4	131.6
					West						
Hope, Ark.	133.4	136.3	134.7	132.3	134.4	132.3	131.6	129.1	130.9	133.0	132.8
Fayetteville, Ark.	134.7	136.7	135.3	136.1	141.1	134.5	137.3	137.2	139.8	138.4	137.1
Lubbock, Texas	130.7	135.0	129.4	133.5	136.3	133.7	133.2	134.6	138.3	138.3	134.3
Mean	132.9	136.0	133.1	134.0	137.3	133.5	134.0	133.6	136.3	136.6	134.7

Uniform Test, Group VIII

The Uniform Variety Test, Group VIII, is composed of thirteen named varieties. The origin of these varieties 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.	Selection from Otootan
Cherokee	U.S.D.A.	P.I. 93057 from Hangchow, China
Delsta	Delta Experiment Sta.	Station Selection #6677, 1935
Gatan	Georgia Exp. Sta.	Selection out of Otootan
L.Z.	La. Agr. Exp. Sta.	Formerly La. 40-400
Mamloxi	Delta Exp. Sta.	Selection from a cross (Mammoth Yellow x Biloxi)
Mamotan	Delta Exp. Sta.	Selection from a cross (Mammoth Yellow x Otootan)
Nanda	U.S.D.A.	P.I. 95727 from Shariin, Chosen, 1932
Pelican	La. Agr. Exp. Sta.	
Red Tanner	Mr. Jacob Hartz	Soybeans from Mr. Tom Tanner, Decatur, Alabama
Seminole	U.S.D.A.	P.I. 93058 from Hangchow, China
Wood's Yellow	T.W. Wood & Sons	Selection from Mammoth Yellow

Uniform Test, Group VIII

The Uniform Test, Group VIII, differed from the test of 1944 in that Red Tanner was added to the group, and Mamloxi was shifted from Group VII to Group VIII. Seventeen tests of Group VIII were completed in 1945. The agronomic and chemical data for Group VIII is given in tables 37 to 48.

In general, the grain forage varieties from Louisiana, Acadian, Pelican, and L.Z., were the higher yielding varieties in the Southeast and along the Gulf Coast. The strictly grain types, Mamloxi, Mamotan, Nanda, Delsta and Woods Yellow were more productive through the central South. Of the three Louisiana varieties, Acadian has a slight edge in yield over the other two. The two-year average yields of this group show Acadian to be among the top three varieties at McCullers, North Carolina, Richmond Hill and Tifton, Georgia, Auburn, Alabama, Raymond, Mississippi and Baton Rouge, Louisiana.

The difference in yield between the strictly grain types through the Central South are small. Nanda, Woods Yellow, Mamotan, and Mamloxi appear equally good. The Louisiana varieties through the Central South have yielded relatively better than the strictly grain types in the Lower South with the exception of Mamloxi.

Seminole led the varieties of this maturity in the Southeast in 1945, being high at Florence, South Carolina, Tifton and Richmond Hill, Georgia, and at Fairhope, Alabama. Cherokee has been a consistent low-yielding variety with few exceptions.

Table 37: Summary of agronomic and chemical data for the strains of the Uniform Test, Group VIII, 1945

Location	No. of Locations	Mamloxi	Acadian	Mamotan	Nanda	Pelican	L.Z.	Avoyelles	Woods Yellow	Delsta	Seminole	Gatan	Cherokee	Red Tanner	Mean
							1945 Yields								
East Coast	3	22.1	20.0	22.6	23.3	17.1	16.6	19.3	19.4	22.0	20.0	13.9	10.8	12.6	18.4
Southeast	6	19.6	20.6	18.1	19.4	19.4	18.4	18.8	19.1	17.8	21.4	18.3	12.7	15.4	18.4
Delta	8	24.6	23.9	23.6	22.1	22.8	22.5	20.8	20.2	19.7	13.8	16.1	16.7	13.1	20.0
Mean		22.4	22.0	21.5	21.4	20.6	20.0	19.8	19.7	19.4	17.6	16.5	14.2	13.8	19.2
							1944-45 Yields								
East Coast	1	25.4	24.7	24.1	23.8	23.2	21.6	19.9	23.1	25.6	16.2	14.8	12.6	-	
Southeast	5	18.9	19.5	17.5	17.2	18.1	17.0	16.3	15.8	16.6	17.9	15.8	14.4		
Delta	7	-	23.0	22.9	22.8	23.2	23.0	20.1	-	20.5	14.0	-	-	-	
Mean		-	22.4	21.5	21.2	21.5	20.5	18.8	-	20.9	16.0	-	-		
							Maturity 1/								
East Coast	1	4	10	3	0	10	10	10	0	3	4	3	10	-1	
Southeast	6	2	2	2	0	1	1	7	0	2	0	3	3	-9	
Delta	4	5	5	5	1	7	6	8	0	1	8	0	7	-6	
Mean		4	6	3	0	6	6	8	0	2	4	2	6	-5	
							Lodging								
East Coast	1	3.0	4.0	2.0	2.0	4.0	4.0	4.0	2.0	2.0	4.0	5.0	4.0	3.0	3.3
Southeast	4	.9	1.3	.6	.5	1.9	1.5	2.0	.5	.6	1.1	2.5	1.2	2.0	1.3
Delta	7	2.2	3.0	2.1	2.8	3.9	3.4	4.5	1.9	2.2	3.5	4.3	2.8	4.2	3.1
Mean		2.6	2.8	1.6	1.8	3.3	3.0	3.5	1.5	1.6	2.9	3.9	2.7	3.1	2.6
							Height								
East Coast	1	42	54	42	38	50	54	48	36	44	42	60	48	48	47
Southeast	4	47	56	38	42	53	54	51	40	41	45	51	45	46	47
Delta	9	43	53	39	37	54	55	50	38	39	42	47	43	41	45
Mean		45	54	40	39	52	54	50	38	41	43	53	45	45	46

1/Days earlier (-) or later than Woods Yellow.

Table 37: (Continued)

Location	No. of Locations	Mamloxi	Acadian	Mamotan	Nanda	Pelican	L.Z.	Avoyelles	Wood's Yellow	Delsta	Seminole	Gatan	Cherokee	Red Tanner	Mean
							Seed Quality								
Southeast	3	2.8	1.8	2.8	2.1	1.7	1.7	1.8	2.4	3.0	2.3	1.3	2.0	2.1	2.2
Delta	7	2.5	1.7	2.1	2.4	1.8	1.5	1.8	2.5	2.5	2.5	2.0	2.1	2.9	2.2
Mean		2.7	1.8	2.5	2.3	1.8	1.6	1.8	2.5	2.8	2.4	1.7	2.1	2.5	2.2
							Seed Weight								
East Coast	3	14.2	10.8	17.9	18.1	9.6	10.0	10.1	20.3	19.3	25.9	9.2	17.7	10.5	14.9
Southeast	6	15.5	12.9	17.4	17.3	11.5	11.4	12.4	20.8	19.4	27.5	9.7	19.9	10.6	15.9
Delta	9	15.1	13.3	17.4	17.8	11.6	11.8	11.5	20.0	19.5	26.8	9.8	19.3	10.9	15.7
Mean		14.9	12.3	17.6	17.7	10.9	11.1	11.3	20.4	19.4	26.7	9.6	19.0	10.7	15.5
							% Protein								
East Coast	3	41.8	42.1	41.4	41.4	42.3	41.9	40.9	42.7	42.4	43.1	41.4	45.5	45.7	42.5
Southeast	6	43.9	44.0	43.0	42.1	44.0	44.3	42.7	44.3	43.8	44.3	43.8	46.5	46.7	44.1
Delta	9	44.3	44.2	43.1	43.2	43.3	44.0	41.6	45.3	43.6	45.9	43.9	46.4	46.2	44.2
Mean		43.3	43.4	42.5	42.2	43.2	43.4	41.7	44.1	43.3	44.4	43.0	46.1	46.2	43.6
							% Oil								
East Coast	3	17.4	18.5	18.7	19.0	18.7	18.0	16.9	18.4	18.5	18.5	16.5	16.6	16.4	17.8
Southeast	6	18.5	19.7	19.7	21.0	20.3	19.3	17.8	19.7	19.6	20.5	17.4	18.3	17.0	19.1
Delta	9	17.8	19.1	18.7	19.4	19.7	18.8	18.8	18.2	18.5	18.3	16.9	17.6	16.5	18.3
Mean		17.9	19.1	19.0	19.8	19.6	18.7	17.8	18.8	18.9	19.1	16.9	17.5	16.6	18.4
							Iodine No. of Oil								
East Coast	3	137.4	138.5	136.7	130.5	140.1	138.8	138.3	130.3	132.3	136.0	140.1	135.2	138.9	136.4
Southeast	6	135.2	132.8	134.0	126.0	134.8	135.1	134.5	125.5	128.4	130.1	136.4	131.4	136.9	132.4
Delta	9	136.5	135.0	136.1	130.1	136.2	136.1	138.0	129.7	131.6	133.3	138.0	134.0	137.2	134.7
Mean		136.4	135.4	135.6	128.9	137.0	136.7	136.9	128.5	130.8	133.1	138.2	133.5	137.7	134.5

Table 38: Summary of yield in bushels per acre for the strains of the Uniform Test, Group VIII, 1945.

Location	Mam-moxi	Acadian	Mam-otan	Nanda	Pel-ican	L.Z.	Av-oylles	Wood's Yellow
			East Coast					
McCullers, N.C.	26.3	27.0	22.5	24.1	23.4	22.6	23.0	22.9
Hartsville, S.C.	23.6	18.3	24.9	24.8	15.2	14.3	21.0	15.2
Florence, S.C.	16.5	14.8	20.3	20.9	12.8	12.9	14.0	20.2
Mean	22.1	20.0	22.6	23.3	17.1	16.6	19.3	19.4
			Southeast					
Fairhope, Ala.	29.3	25.8	25.7	23.1	29.4	29.3	26.4	26.2
Monetta, S.C.	30.7	26.3	30.1	26.4	27.5	23.1	26.6	27.4
Tifton, Ga.	20.7	19.2	19.9	20.2	16.6	15.3	16.5	15.9
Experiment, Ga.	14.1	16.4	16.6	17.8	13.6	14.1	12.7	19.0
Auburn, Ala.	12.3	19.3	8.7	15.2	14.7	17.1	14.8	14.2
Richmond Hill, Ga.	10.7	16.7	7.5	13.8	14.7	11.3	15.7	11.8
West Point, Miss.[1]	6.2	2.6	8.4	7.4	-	1.3	9.7	8.8
Mean	19.6	20.6	18.1	19.4	19.4	18.4	18.8	19.1
			Delta					
Raymond, Miss.	39.0	44.6	37.7	33.1	37.8	41.5	40.9	25.9
Clarkedale, Ark.[1]	27.9	23.3	30.7	-	-	-	-	31.6
Satartia, Miss.	33.3	25.0	32.4	30.5	23.2	20.6	16.3	29.7
Stoneville, Miss.	31.1	24.9	28.1	23.5	26.5	26.8	17.4	30.5
Stuttgart, Ark.	21.0	20.5	19.6	22.1	20.3	21.0	18.9	22.2
Hope, Ark.	27.0	17.9	29.8	21.7	16.6	17.0	18.3	23.0
Baton Rouge, La.	19.2	28.3	11.6	17.5	26.6	26.3	25.3	5.5
Marianna, Ark.	17.9	14.5	19.6	19.1	16.4	14.8	16.5	18.9
Crowley, La.	8.3	15.5	9.7	8.9	15.3	11.9	13.0	5.9
Hamburg, La.[1]	6.3	-	-	6.2	-	-	-	-
Mean	24.6	23.9	23.6	22.1	22.8	22.5	20.8	20.2

Table 38: (Continued)

Location	Delsta	Seminole	Gatan	Cherokee	Red Tanner	Mean	Coef. of Var.	Bu. Nec. for Sig. (5%)
			East Coast					
McCullers, N.C.	26.5	15.1	11.2	9.2	12.2	20.5	25%	7.2
Hartsville, S.C.	21.4	19.3	16.8	13.0	10.6	18.3	18%	4.7
Florence, S.C.	18.3	25.6	13.6	10.2	14.9	16.5	18%	5.1
Mean	22.0	20.0	13.9	10.8	12.6	18.4		
			Southeast					
Fairhope, Ala.	24.6	33.6	26.3	19.4	18.5	26.0	17%	6.2
Monetta, S.C.	26.9	23.8	22.7	16.2	17.6	25.0	12%	4.2
Tifton, Ga.	17.8	24.9	16.9	10.6	19.1	18.0	12%	3.0
Experiment, Ga.	17.9	16.4	17.4	15.9	12.3	15.7	14%	3.5
Auburn, Ala.	8.8	12.9	14.6	5.3	17.8	13.5	29%	5.6
Richmond Hill, Ga.	10.9	16.9	11.7	8.5	7.0	12.1	40%	6.0
West Point, Miss.1/	7.3	4.7	6.3	2.9	8.7			
Mean	17.8	21.4	18.3	12.7	15.4	18.4		
			Delta					
Raymond, Miss.	23.6	18.7	26.6	32.3	18.7	32.3	25%	11.6
Clarkedale, Ark.1/	31.7	11.5	-	-	15.5	24.6	18%	6.7
Satartia, Miss.	24.3	15.0	17.1	17.1	19.2	23.4	17%	5.8
Stoneville, Miss.	28.8	16.2	14.3	16.3	9.9	22.6	16%	5.2
Stuttgart, Ark.	23.7	18.4	22.2	16.3	23.1	20.7	18%	5.3
Hope, Ark.	22.5	8.2	14.1	13.2	9.1	18.3	13%	3.5
Baton Rouge, La.	7.6	15.8	8.5	14.1	6.1	16.3	21%	4.8
Marianna, Ark.	19.4	11.0	15.9	11.2	13.8	16.1	14%	3.2
Crowley, La.	7.9	7.2	10.1	12.7	5.2	10.1	20%	2.8
Hamburg, La.1/	5.8	7.1	6.6	-	-	-		
Mean	19.7	13.8	16.1	16.7	13.1	20.0		

1/Not included in mean.

Table 39: Summary of three-year average yields of the strains of the Uniform Test, Group VIII, 1943-45

Location	Mamotan	Delsta	Acadian	Mamloxi	Nanda	Pelican	L.Z.	Avoyelles	Seminole	Mean
				East Coast						
McCullers, N.C.	25.6	25.1	23.8	22.6	-	23.7	24.1	17.9	15.6	22.3
				Southeast						
Tifton, Ga.	17.6	16.9	20.8	21.4	18.3	18.2	17.4	15.9	22.3	18.8
Experiment, Ga.	17.3	17.4	16.5	18.0	16.4	15.0	15.5	13.5	15.8	16.2
Auburn, Ala.1/	-	-	17.2	-	10.7	-	14.7	12.5	-	13.8
Richmond Hill, Ga.	11.3	12.6	16.7	11.4	12.4	13.8	13.3	14.1	14.7	13.4
Mean	15.4	15.6	18.0	16.9	15.7	15.7	15.4	14.5	17.6	
				Delta						
Stoneville, Miss.	29.6	29.0	24.5	26.0	26.3	23.8	22.4	18.0	15.1	23.9
Clarkedale, Ark.1/	21.5	20.4	14.9	22.4	-	-	-	-	9.4	17.7
Marianna, Ark.	17.3	19.9	13.4	15.2	19.8	15.7	13.9	14.0	9.3	15.4
Stuttgart, Ark.	-	14.5	12.8	14.2	14.4	14.2	13.7	11.0	11.2	13.3
Mean		21.1	16.9	18.5	20.2	17.9	16.7	14.3	11.9	-

1/Not included in mean.

Table 40: Summary of two-year average yields of the strains of Uniform Test, Group VIII, 1945

Location	Acadian	Pelican	Mamotan	Nanda	L.Z.	Wood's Yellow	Mamloxi	Delsta	Avoylles	Gatan	Seminole	Cherokee	Mean
						East Coast							
McCullers, N.C.	24.7	23.2	24.1	23.8	21.6	23.1	25.4	25.6	19.9	14.8	16.2	12.6	21.3
						Southeast							
Tifton, Ga.	24.9	22.7	22.0	21.3	22.7	15.8	25.0	20.1	20.1	18.6	24.6	16.5	21.2
Experiment, Ga.	19.6	18.0	19.9	18.3	18.0	19.8	20.7	19.2	15.5	17.9	17.7	18.2	18.6
Auburn, Ala.1/	21.5	18.7	-	14.0	18.2	-	14.1	-	17.4	17.4	-	-	17.3
Monetta, S.C.	17.0	16.3	18.0	17.9	13.7	17.4	18.3	16.9	14.2	16.4	15.3	10.3	16.0
Richmond Hill, Ga.	16.3	15.5	10.2	11.1	13.6	10.2	11.5	10.3	15.5	10.3	13.9	12.7	12.6
Mean	19.5	18.1	17.5	17.2	17.0	15.8	18.9	16.6	16.3	15.8	17.9	14.4	
						Delta							
Raymond, Miss.	35.9	33.9	32.8	28.2	36.1	24.9	-	23.7	30.7	23.9	20.6	25.7	28.8
Clarkedale, Ark.1/	18.8	-	28.2	-	-	29.2	28.9	27.1	-	-	12.2	-	24.1
Stoneville, Miss.	25.5	25.6	29.0	23.7	23.6	24.4	25.7	25.7	17.2	15.8	12.7	12.4	21.8
Marianna, Ark.	18.8	21.9	22.4	25.3	18.9	23.6	15.2	25.1	19.6	19.5	12.8	15.8	19.9
Stuttgart, Ark.	18.8	19.3	18.7	21.4	19.3	21.8	19.9	21.2	16.4	21.3	16.6	15.7	19.2
Hope, Ark.	14.6	14.8	23.5	21.5	15.2	21.6	23.3	19.1	14.5	-	8.2	-	17.6
Baton Rouge, La.	24.3	23.8	11.2	16.8	24.7	-	12.5	8.1	22.4	8.2	13.0	-	16.5
Mean	23.0	23.2	22.9	22.8	23.0	-	-	20.5	20.1	-	14.0	-	

1/Not included in mean.

Table 41: Summary of the maturity data for the strains of the Uniform Test, Group VIII, 1945

Location	Mam-loxi	Acadian	Mam-otan	Nanda	Peli-can	L.Z.	Avoy-elles	Wood's Yellow
				East Coast				
McCullers, N.C.	4	10	3	0	10	10	10	0
				Southeast				
Fairhope, Ala.	-10	-10	-5	-10	-10	-10	10	0
Monetta, S.C.	4	4	0	0	4	4	4	0
Tifton, Ga.	11	11	8	8	11	8	11	0
Experiment, Ga.	6	6	2	0	6	2	11	0
Auburn, Ala.	3	0	7	2	-2	3	7	0
Richmond Hill, Ga.	0	3	0	0	0	0	0	0
Mean	2	2	2	0	1	1	7	0
				Delta				
Stoneville, Miss.	8	1	4	1	7	4	2	0
Stuttgart, Ark.	6	6	0	-1	6	6	6	0
Baton Rouge, La.	0	5	2	0	2	0	7	0
Crowley, La.	7	7	16	7	11	14	16	0
Mean	5	5	5	1	7	6	8	0

Location	Delsta	Semi-nole	Gatan	Chero-kee	Red Tanner	Planted	Matured	Days to Maturity
			East Coast					
McCullers, N.C.	3	4	3	10	-1	6/4	11/1	149
			Southeast					
Fairhope, Ala.	0	-5	-10	-3	-10	7/2	11/11	131
Monetta, S.C.	0	0	0	4	-9	5/16	11/2	169
Tifton, Fa.	11	0	11	11	0	5/5	10/17	164
Experiment, Ga.	0	2	2	6	-10	5/21	10/30	162
Auburn, Ala.	1	0	2	0	-7		11/8	
Richmond Hill, Ga.	0	0	10	0	-18	5/3	11/7	187
Mean	2	0	3	3	-9			
			Delta					
Stoneville, Miss.	-1	9	3	4	-6	5/22	10/26	156
Stuttgart, Ark.	-1	1	1	6	0	5/25	10/31	158
Baton Rouge, La.	2	10	-5	5	-9	4/30	11/18	201
Crowley, La.	7	11	0	11	-10	6/14	10/25	132
Mean	1	8	0	7	-6			

Table 42: Summary of lodging data for the strains of the Uniform Test, Group VIII, 1945.

Location	Mamloxi	Acadian	Mamotan	Nanda	Pelican	L.Z.	Avoyelles	Woods Yellow	Delsta	Seminole	Gatan	Cherokee	Red Tanner	Mean
						East Coast								
McCullers, N.C.	3.0	4.0	2.0	2.0	4.0	4.0	4.0	2.0	2.0	4.0	5.0	4.0	3.0	3.3
						Southeast								
Monetta, S.C.	1.0	2.0	1.0	1.0	2.0	2.0	3.0	1.0	1.0	2.0	3.0	1.0	3.0	1.8
Tifton, Ga.	.8	2.0	.5	0	2.5	2.0	3.0	0	0	.5	3.8	1.8	2.3	1.5
Experiment, Ga.	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	1.3
Richmond Hill, Ga.	1.0	0	0	0	1.0	0	1.0	0	.3	1.0	1.3	1.0	.5	.5
Mean	.9	1.3	.6	.5	1.9	1.5	2.0	.5	.6	1.1	2.5	1.2	2.0	1.3
						Delta								
Raymond, Miss.	1.0	1.0	1.0	5.0	5.0	5.0	5.0	1.0	1.0	5.0	5.0	3.0	5.0	3.3
Stoneville, Miss.	4.3	4.5	4.0	4.3	5.0	4.7	5.0	3.8	3.8	4.8	5.0	4.0	5.0	4.5
Stuttgart, Ark.	1.5	3.3	1.8	2.3	3.3	2.8	5.0	1.5	2.5	3.5	4.0	1.8	4.0	2.9
Hope, Ark.	2.5	2.5	3.0	2.8	3.5	2.5	4.0	2.5	2.8	3.3	3.8	2.8	3.3	3.0
Baton Rouge, La.	2.0	3.0	2.0	2.0	4.0	4.0	4.0	2.0	2.0	2.0	4.0	3.0	4.0	2.9
Marianna, Ark.	2.2	2.7	1.7	1.7	3.7	2.0	5.0	1.2	1.5	4.5	3.7	2.0	4.5	2.8
Crowley, La.	2.0	3.0	1.0	2.0	3.0	2.0	4.0	1.0	2.0	3.0	4.0	3.0	4.0	2.6
Clarkedale, Ark.[1]	2.5	3.2	2.2	-	-	-	-	1.5	2.2	5.0	-	-	4.5	-
Hamburg, La.	2.0	4.0	2.0	2.0	4.0	4.0	4.0	2.0	2.0	2.0	5.0	3.0	4.0	3.1
Mean	2.2	3.0	2.1	2.8	3.9	3.4	4.5	1.9	2.2	3.5	4.3	2.8	4.2	3.1

[1] Not included in the mean.

Table 43: Summary of height data for the strains of the Uniform Test, Group VIII, 1945

Location	Mam-loxi	Aca-dian	Mam-otan	Nanda	Peli-can	L.Z.	Avoy-elles	Woods Yellow	Delsta	Semi-nole	Gatan	Chero-kee	Red Tanner	Mean
						East Coast								
McCullers, N.C.	42	54	42	38	50	54	48	36	44	42	60	48	48	47
						Southeast								
Monetta, S.C.	44	60	36	38	60	60	60	36	36	40	60	48	60	49
Tifton, Ga.	43	47	39	39	44	45	39	36	38	38	37	38	39	40
Experiment, Ga.	50	58	36	38	52	56	54	38	38	50	56	44	46	47
Richmond Hill, Ga.	50	59	42	53	57	54	49	49	51	52	49	48	40	50
Mean	47	56	38	42	53	54	51	40	41	45	51	45	46	47
						Delta								
Raymond, Miss.	62	44	68	64	52	66	46	64	50	54	48	47	52	55
Satartia, Miss.	44	55	39	39	57	54	54	39	39	43	50	40	46	46
Stoneville, Miss.	43	60	39	40	60	59	53	41	42	43	51	46	35	47
Stuttgart, Ark.	40	54	28	30	56	54	52	32	36	40	50	40	46	43
Hope, Ark.	45	49	39	36	46	48	44	36	44	46	42	42	37	43
Baton Rouge, La.	42	56	38	28	54	53	50	32	35	35	42	48	34	42
Marianna, Ark.	38	46	35	35	47	48	43	33	36	38	45	37	36	40
Crowley, La.	38	60	36	35	64	60	56	33	36	42	48	46	45	46
Hamburg, La.	37	52	33	30	54	56	54	34	36	36	45	40	35	42
Mean	43	53	39	37	54	55	50	38	39	42	47	43	41	45

Table 44: Summary of seed quality data of the strains of the Uniform Test, Group VIII, 1945

Location	Mamloxi	Acadian	Mamotan	Nanda	Pelican	LZ	Avoyelles	Woods Yellow	Delsta	Seminole	Gatan	Cherokee	Red Tanner	Mean
						South East								
Monetta, S.C.	2.0	1.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	1.7
Fairhope, Ala.	3.0	2.5	2.2	2.2	2.2	1.5	2.0	2.5	2.8	2.2	1.0	2.2	2.2	2.2
Auburn, Ala.	3.5	2.0	4.2	2.2	1.8	2.5	1.5	2.8	4.2	2.8	2.0	1.8	2.2	2.6
Mean	2.8	1.8	2.8	2.1	1.7	1.7	1.8	2.4	3.0	2.3	1.3	2.0	2.1	2.2
						Delta								
Satartia, Miss.	2.7	1.8	2.0	2.7	2.0	1.8	2.0	1.8	2.3	2.3	2.0	2.7	3.0	2.2
Stoneville, Miss.	2.5	2.0	2.0	2.3	2.5	2.3	2.0	2.3	2.3	2.8	2.0	2.0	3.4	2.3
Stuttgart, Ark.	2.0	1.3	2.5	1.8	1.5	1.0	1.5	1.8	2.5	2.3	2.0	1.3	2.0	1.8
Hope, Ark.	2.0	1.3	1.5	2.0	1.5	1.5	2.0	1.5	1.8	2.3	2.0	2.0	2.0	1.8
Baton Rouge, La.	2.0	1.0	2.0	3.0	1.0	1.0	1.0	4.0	3.0	2.0	1.0	2.0	3.0	2.0
Marianna, Ark.	1.5	1.3	1.0	1.3	1.0	1.0	2.0	1.0	1.3	1.5	2.0	2.0	2.0	1.4
Crowley, La.	5.0	3.0	4.0	4.0	3.0	2.0	2.0	5.0	4.0	4.0	3.0	3.0	5.0	3.6
Clarkedale, Ark.[1]	1.0	1.0	1.0	-	-	-	-	1.8	1.3	1.8	-	-	2.0	-
Hamburg, La.[1]	4.0	-	-	4.0	-	-	-	-	4.0	4.0	3.0	-	-	3.8
Mean	2.5	1.7	2.1	2.4	1.8	1.5	1.8	2.5	2.5	2.5	2.0	2.1	2.9	2.2

[1] Not included in mean.

Table 45: Summary of seed weight in grams per 100 seeds for the strains in the Uniform Test, Group VIII, 1945

Location	Mamloxi	Acadian	Mamotan	Nanda	Pelican	L.Z.	Avoyelles	Woods Yellow	Delsta	Seminole	Gatan	Cherokee	Red Tanner	Mean
						East Coast								
McCullers, N.C.	14.7	11.5	21.3	20.0	10.6	11.0	10.9	22.9	22.2	28.1	9.5	19.6	11.9	16.5
Hartsville, S.C.	12.6	9.2	15.7	16.5	7.7	8.3	8.8	17.1	17.0	24.0	8.5	16.6	8.9	13.1
Florence, S.C.	15.3	11.7	16.6	17.9	10.5	10.6	10.5	20.9	18.8	25.7	9.6	17.0	10.7	15.1
Mean	14.2	10.8	17.9	18.1	9.6	10.0	10.1	20.3	19.3	25.9	9.2	17.7	10.5	14.9
						Southeast								
Fairhope, Ala.	15.6	13.2	17.4	16.8	11.5	11.2	12.2	22.0	18.6	25.9	9.3	19.2	8.7	15.5
Monetta, S.C.	17.7	13.8	19.3	19.8	12.7	12.8	13.0	24.7	21.2	30.8	10.6	21.7	11.2	17.6
Tifton, Ga.	13.1	11.1	15.2	17.3	9.8	9.3	11.0	19.1	18.0	27.1	8.6	20.1	11.6	14.7
Experiment, Ga.	15.4	12.0	17.5	16.1	11.4	11.2	12.3	21.0	20.5	25.8	9.7	19.2	10.2	15.6
Auburn, Ala.	15.4	14.9	17.0	17.0	13.4	13.3	13.6	16.4	19.2	26.8	10.4	18.4	11.9	16.0
Richmond Hill, Ga.	15.7	12.6	17.8	16.8	10.0	10.8	12.3	21.4	19.1	28.5	9.4	20.8	10.1	15.8
Mean	15.5	12.9	17.4	17.3	11.5	11.4	12.4	20.8	19.4	27.5	9.7	19.9	10.6	15.9
						Delta								
Raymond, Miss.	16.6	13.6	19.6	19.4	12.7	12.3	12.5	22.1	19.7	27.4	10.1	22.7	11.6	16.9
Clarkedale, Ark.	14.0	12.5	16.8	-	-	-	-	19.8	18.5	28.4	-	-	10.4	-
Satartia, Miss.	17.2	14.2	18.7	20.1	11.3	11.9	13.0	23.2	23.8	29.8	9.6	20.6	13.3	17.4
Stoneville, Miss.	15.3	14.0	17.6	17.9	12.2	12.7	12.1	19.8	19.2	28.4	10.8	20.9	10.1	16.2
Stuttgart, Ark.	12.6	11.4	14.3	15.6	9.3	9.9	9.1	19.0	17.5	24.7	9.4	16.7	10.5	13.8
Hope, Ark.	16.7	12.9	18.5	19.7	11.7	12.6	11.5	25.5	22.2	27.9	9.9	21.0	11.2	17.0
Baton Rouge, La.	16.0	15.9	18.5	16.6	14.4	12.7	12.0	13.8	17.2	26.7	10.1	19.5	11.3	15.7
Marianna, Ark.	13.1	12.0	15.9	16.8	10.6	11.3	10.5	20.5	19.2	26.0	9.4	17.8	9.3	14.8
Crowley, La.	13.4	12.3	15.7	16.6	10.8	11.1	11.3	16.2	16.8	23.3	8.8	15.3	9.6	13.9
Mean	15.1	13.3	17.4	17.8	11.6	11.8	11.5	20.0	19.5	26.8	9.8	19.3	10.9	15.7

Table 46: Summary of the percentage protein of the strains of the Uniform Test, Group VIII, 1945

Location	Mam-loxi	Aca-dian	Mamo-tan	Nanda	Peli-can	L.Z.	Avoy-elles	Woods Yellow	Delsta	Semi-nole	Gatan	Chero-kee	Red Tanner	Mean
						East Coast								
McCullers, N.C.	42.5	42.1	43.6	43.0	42.3	42.4	42.0	44.0	44.1	44.6	40.1	46.8	47.7	43.5
Hartsville, S.C.	40.8	43.7	39.1	39.7	43.9	44.2	40.6	42.3	40.8	41.8	42.6	45.0	46.1	42.4
Florence, S.C.	42.2	40.5	41.5	41.4	40.7	39.1	40.1	41.8	42.2	42.9	41.4	44.6	43.4	41.7
Mean	41.8	42.1	41.4	41.4	42.3	41.9	40.9	42.7	42.4	43.1	41.4	45.5	45.7	42.5
						Southeast								
Fairhope, Ala.	43.1	44.5	42.9	41.9	43.6	44.1	43.7	43.6	42.7	44.0	43.1	45.6	44.6	43.6
Monetta, S.C.	44.8	43.5	44.1	42.9	43.9	44.1	43.1	44.2	43.1	45.4	44.0	47.2	46.8	44.4
Tifton, Ga.	47.5	48.0	44.7	45.9	48.3	47.5	45.5	48.2	47.6	47.0	46.3	51.0	49.3	47.4
Experiment, Ga.	39.1	38.5	40.0	38.9	37.9	38.6	38.5	40.5	42.1	41.8	39.9	42.1	43.9	40.1
Auburn, Ala.	42.6	44.9	41.7	38.1	44.6	45.7	42.7	43.0	41.9	44.0	45.1	44.8	46.9	43.5
Richmond Hill, Ga.	46.3	44.4	44.5	44.8	45.7	45.5	42.8	46.1	45.6	43.8	44.6	48.0	48.6	45.4
Mean	43.9	44.0	43.0	42.1	44.0	44.3	42.7	44.3	43.8	44.3	43.8	46.5	46.7	44.1
						Delta								
Raymond, Miss.	45.6	44.6	42.6	42.9	44.1	45.3	42.1	45.7	44.9	44.5	43.2	45.9	45.7	44.4
Clarkedale, Ark.1/	42.5	42.5	40.4	-	-	-	-	42.6	42.9	46.4	-	-	44.6	
Satartia, Miss.	43.0	41.8	41.2	41.0	41.4	41.1	39.4	43.4	40.3	44.2	41.1	44.4	44.2	42.0
Stoneville, Miss.	43.2	43.4	42.2	43.3	40.5	43.8	41.9	44.2	42.7	46.5	45.4	46.9	46.3	43.9
Stuttgart, Ark.	43.7	45.6	44.3	43.3	44.6	44.2	42.0	45.1	44.7	45.3	44.7	47.6	44.9	44.6
Hope, Ark.	44.4	43.3	44.6	43.8	44.4	45.1	42.9	43.5	43.1	46.9	43.8	47.2	46.7	44.6
Baton Rouge, La.	47.5	47.6	46.9	46.0	46.4	46.1	42.2	49.2	46.2	47.9	47.4	48.3	49.8	47.0
Marianna, Ark.	39.1	38.2	37.7	38.6	39.6	39.5	39.5	40.5	40.4	44.4	41.4	43.7	41.1	40.3
Crowley, La.	47.6	48.9	45.2	46.3	45.7	47.1	42.7	50.9	46.7	47.2	44.4	47.1	50.7	47.0
Mean	44.3	44.2	43.1	43.2	43.3	44.0	41.6	45.3	43.6	45.9	43.9	46.4	46.2	44.2

1/Not included in the mean.

Table 47: Summary of the percentage oil for the strains of the Uniform Test, Group VIII, 1945

Location	Mam-loxi	Aca-dian	Mamo-tan	Nanda	Peli-can	L.Z.	Avoy-elles	Woods Yellow	Delsta	Semi-nole	Gatan	Chero-kee	Red Tanner	Mean
						East Coast								
McCullers, N.C.	17.1	18.6	18.2	18.3	18.9	17.7	17.0	17.9	17.8	17.7	15.9	15.9	16.0	17.5
Hartsville, S.C.	18.5	18.2	19.7	20.6	18.3	17.8	17.5	18.8	19.6	19.6	16.8	17.1	15.4	18.3
Florence, S.C.	16.5	18.6	18.2	18.1	19.0	18.4	16.3	18.4	18.0	18.1	16.7	16.7	17.7	17.7
Mean	17.4	18.5	18.7	19.0	18.7	18.0	16.9	18.4	18.5	18.5	16.5	16.6	16.4	17.8
						Southeast								
Fairhope, Ala.	19.3	19.0	20.0	21.4	20.7	19.2	18.1	19.8	19.9	20.3	17.3	18.1	16.7	19.2
Monetta, S.C.	18.2	19.4	19.4	19.6	19.5	18.8	17.5	19.2	19.3	19.4	16.8	17.3	16.5	18.5
Tifton, Ga.	17.6	18.7	19.5	20.7	18.8	18.4	17.9	19.5	18.8	20.9	16.8	17.4	16.9	18.6
Experiment, Ga.	19.9	21.6	20.9	21.5	22.6	21.4	18.0	20.6	20.8	20.7	18.6	20.0	18.0	20.4
Auburn, Ala.	17.9	19.6	18.3	21.4	20.0	18.4	17.1	19.1	19.3	19.6	17.1	18.0	17.5	18.7
Richmond Hill, Ga.	18.0	19.8	20.1	21.1	20.1	19.3	17.9	19.9	19.7	21.9	17.6	19.0	16.4	19.3
Mean	18.5	19.7	19.7	21.0	20.3	19.3	17.8	19.7	19.6	20.5	17.4	18.3	17.0	19.1
						Delta								
Raymond, Miss.	18.7	19.7	20.1	20.5	20.2	19.2	18.9	18.6	19.3	19.7	17.0	18.5	16.9	19.0
Clarkedale, Ark.	16.6	18.2	17.9	-	-	-	-	17.9	18.1	16.8	-	-	16.4	-
Satartia, Miss.	18.8	20.2	19.4	20.0	20.9	19.4	19.0	19.8	19.7	20.1	18.1	18.3	17.2	19.3
Stoneville, Miss.	18.1	19.0	18.8	19.2	19.4	18.7	18.1	18.0	18.5	18.6	16.4	17.7	16.1	18.2
Stuttgart, Ark.	17.3	18.5	18.3	19.8	19.0	18.2	17.3	18.5	18.2	18.6	16.8	17.3	17.3	18.1
Hope, Ark.	17.1	18.7	17.8	18.5	18.9	18.1	20.9	18.3	18.1	17.2	16.4	16.7	16.6	17.9
Baton Rouge, La.	17.5	18.8	18.0	18.5	19.9	19.0	18.5	16.0	17.7	17.8	16.1	17.1	15.8	17.7
Marianna, Ark.	17.9	18.8	19.1	19.5	19.4	18.9	16.1	18.5	18.5	17.1	16.4	16.9	17.9	18.1
Crowley, La.	17.2	19.0	18.4	18.8	19.9	18.6	17.5	17.6	18.2	17.6	17.8	18.0	14.4	17.9
Mean	17.8	19.1	18.7	19.4	19.7	18.8	18.3	18.2	18.5	18.3	16.9	17.6	16.5	18.3

Table 48: Summary of the iodine number of oil for the strains of the Uniform Test, Group VIII, 1945

Location	Mam-loxi	Aca-dian	Mam-otan	Nanda	Poli-can	L.Z.	Avoy-elles	Woods Yellow	Delsta	Semi-nole	Gatan	Chero-kee	Red Tanner	Mean
						East Coast								
McCullers, N.C.	137.1	138.8	136.0	129.8	140.2	139.1	139.0	129.8	132.4	136.8	140.9	136.7	137.5	136.5
Hartsville, S.C.	136.8	137.9	136.1	130.7	139.3	137.9	137.7	130.3	131.1	134.5	139.4	134.3	139.4	135.8
Florence, S.C.	138.2	138.9	137.9	131.0	140.8	139.4	138.1	130.9	133.3	136.6	139.9	134.7	139.9	136.9
Mean	137.4	138.5	136.7	130.5	140.1	138.8	138.3	130.3	132.3	136.0	140.1	135.2	138.9	136.4
						Southeast								
Fairhope, Ala.	135.7	134.3	134.5	128.8	136.3	136.6	134.1	126.6	129.4	132.0	138.8	134.0	138.0	133.8
Monetta, S.C.	134.7	134.7	135.4	128.6	136.3	135.1	135.0	127.7	130.3	132.0	138.6	132.9	139.0	133.9
Tifton, Ga.	132.4	127.6	132.2	121.7	130.4	131.8	130.1	121.7	124.6	126.6	132.6	126.9	135.4	128.8
Experiment, Ga.	136.9	135.3	135.7	129.7	136.2	135.4	137.0	129.4	130.9	133.3	137.7	133.4	136.2	134.4
Auburn, Ala.	137.7	132.1	134.3	126.9	134.3	136.3	134.1	126.0	129.4	131.0	135.5	131.5	136.0	132.7
Richmond Hill, Ga.	134.0	133.0	132.1	120.3	135.1	135.4	136.9	121.5	125.5	125.8	135.0	129.4	136.9	130.8
Mean	135.2	132.8	134.0	126.0	134.8	135.1	134.5	125.5	128.4	130.1	136.4	131.4	136.9	132.4
						Delta								
Raymond, Miss.	132.1	131.7	133.4	126.0	133.1	133.0	133.7	125.6	126.8	130.0	136.0	130.9	135.1	131.3
Clarkedale, Miss.	140.0	139.4	139.7	-	-	-	-	133.4	134.1	138.5	-	-	139.7	-
Satartia, Miss.	136.0	135.0	135.4	129.8	136.3	136.5	137.7	128.7	131.7	131.7	137.7	133.6	138.3	134.5
Stoneville, Miss.	137.3	136.3	138.5	133.3	137.4	136.9	137.8	134.6	135.1	135.1	138.8	133.5	140.3	136.5
Stuttgart, Ark.	138.7	137.2	138.0	130.7	138.5	137.7	140.8	131.7	132.9	134.4	140.8	136.2	138.6	136.6
Hope, Ark.	137.6	136.9	136.5	132.8	138.0	137.6	138.6	131.2	133.2	135.4	138.8	135.2	138.0	136.1
Baton Rouge, La.	133.5	130.6	135.0	125.6	133.1	132.9	135.1	128.6	129.9	131.7	133.8	131.7	134.2	132.0
Marianna, Ark.	141.1	140.8	139.4	134.7	140.8	139.8	143.0	133.3	135.9	138.6	141.7	138.3	138.4	138.9
Crowley, La.	135.4	131.7	132.6	128.0	132.7	134.2	137.3	123.8	127.5	129.4	136.4	132.7	134.8	132.0
Mean	136.5	135.0	136.1	130.1	136.2	136.1	138.0	129.7	131.6	133.3	138.0	134.0	137.2	134.7

Dates of Planting Test

Dates of Planting Tests were conducted at eight locations in the southern states in 1945. In the Upper South plantings were made from late April to late June and from early April to mid-July in the Lower South. The varieties tested varied in maturity from those of Group III, planted at Blacksburg, Virginia, to Group VIII maturity in the Lower South. The agronomic and chemical data obtained in these tests are given in tables 49 to 57. Average yield, percent protein, oil and iodine number of oil, by location for all years, is summarized in table 49.

In general, higher yields resulted from early and mid-season dates of planting. The yield of varieties planted in late June or early July were significantly lower than earlier plantings with the exception of the Stillwater and Williamsburg results. A differential varietal response to date of planting as measured by a significant variety-date interaction occured only at Knoxville and Tifton. At Knoxville the yield of S100 declined from the early to late planting while the yield of Ogden and Volstate was lower only with the last planting date. At Tifton, Georgia, the yield of Acadian was affected less by date of planting than either of the other two varieties.

The spread in maturity due to date of planting was greater with the early maturing varieties. Greater plant height is associated with the early planting. Consistent differences in percent oil, protein, or iodine number of the oil due to date of planting, have not been apparent from these results.

Table 49: Summary by locations of yields and chemical data for all varieties of the Dates of Planting tests for the years 1943-45 inclusive

Locations	Years in Av.	Dates of Planting (approximate) Apr. 1-2	Apr. 23-4	May 14-5	June 4	June 23	July 16
		Average Yields					
Blacksburg, Va.	1944-45		29.5	28.9	27.9		
Williamsburg, Va.	1944-45			29.6	27.0	23.9	
Stillwater, Okla.	1944-45		12.8	15.7	13.8	17.9	
Knoxville, Tenn.	1944-45			17.4	17.7		
McCullers, N.C.	1943-44		20.9	20.7		19.9	11.0
Stuttgart, Ark. 1/	1944-45			24.3	25.0	16.3	
Stoneville, Miss.	1943-44-45	27.3	27.7	27.3	23.2	17.3	
Baton Rouge, La.	1943-44-45	10.5	11.0	14.4	11.7	9.3	9.2
Tifton, Ga.	1943-45	13.8	14.2		9.4	6.0	5.0
		Average Percent Protein					
Blacksburg, Va.	1944-45		42.4	42.5	42.5		
Williamsburg, Va.	1944-45			43.0	43.0	42.9	
Stillwater, Okla.	1944-45		43.4	44.4	44.6	43.6	
McCullers, N.C.	1943-44		44.4	43.9		42.2	42.4
Stuttgart, Ark. 1/	1944-45			43.7	42.6	44.1	
Stoneville, Miss.	1943-44-45	42.3	42.7	42.5	43.1	43.1	
Baton Rouge, La.	1943-44-45	45.1	45.8	45.4	44.7	45.3	44.9
Tifton, Ga.	1943-45	46.8	47.3	46.6	46.9	45.8	
		Average Percent Oil					
Blacksburg, Va.	1944-45		20.7	20.5	20.3		
Williamsburg, Va.	1944-45			18.5	18.6	18.3	
Stillwater, Okla.	1944-45		19.4	19.0	18.9	19.3	
McCullers, N.C.	1943-44		19.2	19.2		19.5	19.7
Stuttgart, Ark. 1/	1944-45			20.5	20.5	19.8	
Stoneville, Miss.	1943-44-45	20.0	19.8	19.8	19.2	19.2	
Baton Rouge, La.	1943-44-45	19.6	18.5	18.7	18.5	18.0	18.2
Tifton, Ga.	1943-45	18.9	18.7	19.1	18.7	18.6	
		Average Iodine No. of Oil					
Blacksburg, Va.	1944-45		131.9	132.1	132.9		
Williamsburg, Va.	1944-45			138.6	138.2	138.2	
Stillwater, Okla.	1944-45		127.2	126.8	128.3	130.0	
McCullers, N.C.	1943-44		133.4	133.7		135.8	137.2
Stuttgart, Ark. 1/	1944-45			129.4	129.7	130.7	
Stoneville, Miss.	1943-44-45	132.9	133.1	133.6	134.0	133.7	
Baton Rouge, La.	1943-44-45	131.9	132.4	132.4	132.9	132.7	133.8
Tifton, Ga.	1943-45	128.8	127.4	126.4	126.3	128.8	127.9

1/ Average of Clarkedale data of 1944, Stuttgart, 1945.

Table 50: Summary of yields in bushels per acre for the varieties in the Dates of Planting Tests, 1945

Variety	Mean	Date Planted 4-2	4-23	5-14	6-4	6-25	7-16	Difference required for sig. between Dates	Varieties
				Blacksburg, Va.					
Dunfield	26.6		29.2	30.3	25.2	21.9			
Chief	33.3		39.8	35.1	30.9	27.2			
Boone	26.1		30.3	28.9	25.8	19.3			
S100	33.6		40.6	36.6	32.1	25.2			
Mean			35.0	32.7	28.5	23.4		4.0	2.6
				Williamsburg, Va.					
S100	39.8		45.9	41.5	39.5	31.4			
Ogden	43.3		48.1	41.9	43.1	40.3			
Volstate	38.7		40.7	43.5	37.1	33.4			
Mean			45.2	42.3	39.9	35.0		5.6	3.8
				Stillwater, Okla.					
S100	13.7		11.6	15.9	10.4	17.0			
Ogden	15.8		12.6	17.9	13.1	19.6			
Volstate	13.6		11.0	13.9	12.5	17.1			
Mean			11.7	15.9	12.0	17.9		Not Sig.	1.8
				Knoxville, Tenn.					
S100	12.9			16.4	12.8	9.6		Variety x Date interaction highly significant.	
Ogden	13.9			15.9	17.9	7.9			
Volstate	14.8			16.3	17.0	11.1			
Mean				16.2	15.9	9.5		2.5	1.4
				Watkinsville, Ga.					
S100	13.9	14.6	15.1	13.8		12.2			
Ogden	13.4	13.6	14.4	14.6		10.9			
Volstate	14.7	16.1	16.2	14.3		12.4			
Mean		14.7	15.2	14.2		11.8		1.2	Not Sig.
				Stuttgart, Ark.					
S100	19.5		20.9	19.3	21.9	16.0			
Arksoy	19.8		21.0	18.6	21.4	16.0			
Ogden	21.6		20.7	24.9	22.1	18.6			
Volstate	24.6		22.3	26.8	27.7	21.7			
Mean			21.2	22.4	23.3	18.6		2.8	1.6

Table 50: (Continued)

Variety	Mean	Date Planted 4-2	4-23	5-14	6-4	6-25	7-16	Difference required for sig. between Dates	Varieties
				Stoneville, Miss.					
S100	29.5	35.5	35.8	33.8	28.0	14.2	8.2 1/		
Arksoy	23.7	27.8	26.7	26.3	24.3	13.5			
Ogden	28.7	33.2	30.5	31.5	32.4	15.7			
Volstate	29.9	31.6	34.3	31.3	29.1	23.3			
Acadian 1/		30.4	26.5	22.4	22.7	-			
Mean		32.0	31.8	30.7	28.5	16.7		4.2	3.0
				Tifton, Ga.					
Monetta	18.4	26.2	28.3		22.8	7.0	7.8	(Sig. Variety-	
Palmetto	15.6	23.9	23.1		12.1	8.8	9.9	date interaction)	
Acadian	16.0	19.1	17.7		18.4	13.6	11.4		
Mean		23.1	23.0		17.8	9.8	9.7	7.2	Not Sig.
				Baton Rouge, La.					
S100	11.8	9.3	14.7	15.6	15.2	8.8	7.3		
Ogden	12.7	12.7 3/	9.7	20.0 2/	16.9 2/	11.6	5.0 4/		
Volstate	8.4	6.0	5.2	15.1	11.3 2/	7.0	5.6 3/		
Acadian	18.2	18.5	18.8	23.7	20.3	15.9	12.0		
Mean		11.6	12.1	18.6	15.9	10.8	7.5		

1/Not included in mean.
2/Average of three plots.
3/Average of two plots.
4/Only one plot.

Table 51: Days to maturity for the varieties of the dates of planting tests, 1945.

Variety	Date Planted 4-2	4-23	5-14	6-4	6-25	7-16	Spread in Maturity	Days
				Blacksburg, Va.				
Dunfield		155	137	119	107		Sept 25-Oct 10	15
Chief		158	144	128	112		Sept28-Oct 15	17
Boone		169	149	137	117		Oct 9 - Oct 20	11
S100		165	151	133	117		Oct 5 - Oct 20	15
				Stillwater, Okla.				
S100		147	132	123	110		Sept 17-Oct 12	25
Ogden		170	155	138	121		Oct 10-Oct 23	13
Volstate		187	168	147	127		Oct 27-Oct 29	2
				Knoxville, Tenn.				
S100			120	114	125		Sept 20-Oct 27	37
Ogden			152	145	134		Oct 22-Nov 5	14
Volstate			157	154	134		Oct 27-Nov 5	9
				Stuttgart, Ark.				
S100		132	109	102	80		Sept 14-Sept 27	13
Arksoy		153	145	128	117		Oct 5 - Oct 20	15
Ogden		147	140	128	117		Sept 29-Oct 20	21
Volstate		168	159	138	119		Oct 20 - Oct 22	2
				Stoneville, Miss.				
S100	152	133	125	112	104		Sept 11 - Oct 7	26
Arksoy	173	158	144	127	112		Oct 2 - Oct 15	13
Ogden	168	157	147	131	-		Sept 27 - Oct 13	16
Volstate	194	177	165	144	126		Oct 23 - Oct 29	6
Acadian	196	181	166	152	-		Oct 25 - Nov 3	9
				Tifton, Ga.				
Monetta	191	172	149	130	114	109	Oct 10 - Oct 23	13
Palmetto	193	176	156	136	114	114	Oct 12 - Oct 28	16
Acadian	209	185	162	143	125	114	Oct 28 - Oct 28	0
				Baton Rouge, La.				
S100	120	131	114	104	87	77	Aug 20 - Oct 1	42
Ogden	125	120	109	106	82	86	Aug 20 - Oct 10	51
Volstate	158	145	130	128	102	91	Sept 8 - Oct 15	37
Acadian	219	199	170	161	143	127	Nov 8 - Nov 20	12

Table 52: Effect of date of planting on lodging of the strains in the Dates of Planting tests, 1945.

Variety	Mean	Planting Dates 4-2	4-13	4-23	5-1	5-5	5-14	6-4	6-25	7-16
				Blacksburg, Va.						
Dunfield	3.1			3.0			2.5	4.0	3.0	
Chief	2.9			1.4			3.0	3.0	4.0	
Boone	2.3			3.0			2.0	2.0	2.0	
S100	2.5			3.0			3.0	2.0	2.0	
Mean				2.6			2.6	2.8	2.8	
				Stillwater, Okla.						
S100	1.5			2.0			1.0	1.0	2.0	
Ogden	1.8			1.0			2.0	2.0	2.0	
Volstate	2.5			2.0			3.0	2.0	3.0	
Mean				1.7			2.0	1.7	2.3	
				Stuttgart, Ark.						
S100	2.5					3.5	2.3	2.8	1.5	
Arksoy	2.0					1.8	1.8	2.0	2.3	
Ogden	1.1					1.0	1.0	1.3	1.0	
Volstate	1.8					2.0	1.8	1.8	1.5	
Mean						2.1	1.7	2.0	1.6	
				Stoneville, Miss.					1/	1/
S100	2.8		2.8		2.8		2.8	2.8	2.5	1.8
Arksoy	2.8		2.5		2.5		2.3	3.8	3.0	
Ogden	2.3		1.8		2.0		2.5	2.8		
Volstate	2.8		2.0		2.7		3.0	3.5	3.3	
Acadian	4.8		5.0		5.0		5.0	4.3		
Mean			2.8		3.0		3.1	3.4		
				Tifton, Ga.						
Honetta	1.1		1.0		1.0		1.0	1.3	1.0	1.0
Palmetto	1.8		3.0		2.5		2.0	1.5	1.0	1.0
Acadian	1.8		2.5		3.0		1.5	1.3	1.3	1.0
Mean			2.2		2.2		1.5	1.4	1.1	1.0
				Baton Rouge, La.						
S100	1.5		2.0		1.0		2.0	2.0	1.0	1.0
Ogden	1.0		1.0		1.0		1.0	1.0	1.0	1.0
Volstate	1.0		1.0		1.0		1.0	1.0	1.0	1.0
Acadian	3.0		4.0		4.0		4.0	3.0	2.0	1.0
Mean			2.0		1.8		2.0	1.8	1.3	1.0

1/Not included in mean.

Table 53: Effect of date of planting on height of the strains in the dates of planting tests, 1945

Variety	Date of Planting							
	4-2	4-13	4-23	5-1	5-14	6-4	6-24	7-16
			Stillwater, Okla.					
S100			33		33	30	26	
Ogden			28		26	24	22	
Volstate			36		35	33	30	
Mean			32		31	29	26	
			Watkinsville, Ga.					
S100	24		26		18	12	14	12
Ogden	18		18		15	12	12	12
Volstate	20		24		14	-	12	10
Mean	21		23		16	-	13	11
			Stuttgart, Ark.					
S100				34	32	34	26	
Arksoy				25	23	26	18	
Ogden				24	22	24	20	
Volstate				38	35	35	28	
Mean				30	28	30	23	
			Stoneville, Miss.				1/	1/
S100		43		46	47	40	30	26
Arksoy		27		26	25	27	28	
Ogden		31		26	27	28		
Volstate		36		38	40	38	31	
Acadian		62		62	58	55		
Mean		40		40	39	38		
			Tifton, Ga.					
Monetta		23		23	24	32	11	12
Palmetto		50		48	42	44	21	21
Acadian		61		56	40	45	24	23
Mean		45		42	35	40	19	19
			Baton Rouge, La.					
S100		20		29	32	35	23	12
Ogden		19		17	18	20	14	9
Volstate		12		14	21	27	16	12
Acadian		62		58	59	47	34	30
Mean		28		30	33	32	22	16

1/Not included in mean.

Table 54: Summary of seed size, grams per 100 seed, for the varieties of the Dates of Planting tests, 1945

Variety	Mean	Date of Planting 4-2	4-23	5-14	6-4	6-25	7-16
			Blacksburg, Va.				
Dunfield	16.6		16.4	16.2	17.3	16.3	
Chief	14.2		14.4	14.3	13.9	14.0	
Boone	14.9		14.7	15.4	15.6	14.0	
S100	16.3		15.8	16.4	16.4	16.6	
Mean			15.3	15.6	15.8	15.2	
			Stillwater, Okla.				
S100	14.1		13.0	13.8	14.1	15.6	
Ogden	16.3		14.8	16.0	16.4	17.8	
Volstate	16.2		16.1	16.8	15.9	16.0	
Mean			14.6	15.5	15.5	16.5	
			Watkinsville, Ga.				
S100	15.4	15.2	15.6	15.5		15.4	
Ogden	16.1	16.0	16.1	16.7		15.4	
Volstate	16.2	16.3	16.3	16.0		16.2	
Mean		15.8	16.0	16.1		15.7	
			Stuttgart, Ark.				
S100	12.8		13.2	11.9	12.6	13.6	
Arksoy	13.1		13.5	12.8	13.5	12.6	
Ogden	13.4		14.1	12.9	13.4	13.1	
Volstate	14.3		14.5	15.0	14.5	13.2	
Mean			13.8	13.2	13.5	13.1	
			Stoneville, Miss.				
S100	13.4	15.1	14.1	13.0	11.5		
Arksoy	12.6	13.5	12.5	12.5	12.0		
Ogden	13.7	12.5	13.5	14.0	14.6		
Volstate	14.8	14.8	14.9	15.2	14.2		
Acadian	13.6	13.9	13.6	13.7	13.3		
Mean		14.0	13.7	13.7	13.1		
			Baton Rouge, La.				
S100	11.5	12.2	11.8	10.6	11.3	12.1	10.8
Ogden	13.4	13.1	12.4	13.2	14.8	14.8	12.0
Volstate	12.4		12.0	15.3	12.2	11.9	10.8
Acadian	15.3	16.1	15.7	15.4	14.9	15.4	14.1
Mean		13.8	13.0	13.6	13.3	13.6	11.9

Table 55: Summary of percent protein for the varieties of the Dates of Planting test, 1945

Variety	Mean	Date of Planting 4-2	4-23	5-14	6-4	6-25	7-16
			Blacksburg, Va.				
Dunfield	40.8		39.3	39.8	41.9	42.0	
Chief	41.1		41.1	40.2	42.3	40.8	
Boone	41.9		40.5	41.5	43.3	42.4	
S100	43.5		43.2	43.4	43.6	43.6	
Mean			41.0	41.2	42.8	42.2	
			Williamsburg, Va.				
S100	46.4		46.2	46.3	45.5	47.7	
Ogden	43.1		43.8	43.0	43.1	42.6	
Volstate	41.9		42.1	42.2	42.5	40.6	
Mean			44.0	43.8	43.7	43.6	
			Stillwater, Okla.				
S100	43.3		41.5	42.9	44.9	44.0	
Ogden	41.9		40.4	43.4	42.4	41.2	
Volstate	41.8		40.4	42.7	42.4	41.6	
Mean			40.8	43.0	43.2	42.3	
			Knoxville, Tenn.				
S100	41.4			43.1	41.6	39.4	
Ogden	38.5			40.8	38.0	36.8	
Volstate	36.8			38.2	37.7	34.6	
Mean				40.7	39.1	36.9	
			Watkinsville, Ga.				
S100	44.1	43.2	44.8	44.6		43.9	
Ogden	39.7	40.1	39.4	39.7		39.7	
Volstate	37.4	37.7	37.3	37.2		37.5	
Mean		40.3	40.5	40.5		40.4	

Table 55: (Continued)

Variety	Mean	Date of Planting 4-2	4-23	5-14	6-4	6-25	7-16
			Stuttgart, Ark.				
S100	47.5		48.7	47.6	47.1	46.7	
Arksoy	47.3		48.1	47.5	45.7	48.0	
Ogden	45.0		45.1	45.1	45.0	44.8	
Volstate	42.7		43.6	42.5	41.9	42.9	
Mean			46.4	45.7	44.9	45.6	
			Stoneville, Miss.				
S100	44.1	43.0	43.9	44.5	44.9		
Arksoy	42.2	41.6	42.2	42.3	42.8		
Ogden	41.7	40.8	41.9	41.8	42.3		
Volstate	39.7	39.1	39.2	40.1	40.4		
Acadian	43.0	42.2	43.2	43.3	43.1		
Mean		41.3	42.1	42.4	42.7		
			Baton Rouge, La.				
S100	44.9	47.0	42.7	43.9	44.1	45.3	46.2
Ogden	43.6	44.3	44.3	43.2	42.7	44.2	43.1
Volstate	42.8	-	43.6	42.1	42.0	44.9	41.4
Acadian	47.3	47.9	48.2	47.1	47.2	47.0	46.5
Mean		46.4	44.7	44.1	44.0	45.4	44.3
			Tifton, Ga.				
Monetta	44.8	45.3	44.3	44.9	45.9	44.3	43.8
Palmetto	47.3	47.1	48.2	45.6	49.3	44.4	49.0
Acadian	45.5	46.0	45.4	46.2	46.4	44.4	44.4
Mean		46.1	46.0	45.6	47.2	44.4	45.7

Table 56: Summary of percent oil for the varieties of the Dates of Planting test, 1945

Variety	Mean	Dates of Planting 4-2	4-23	5-14	6-4	6-25	7-16
			Blacksburg, Va.				
Dunfield	20.7		21.5	21.3	20.3	19.5	
Chief	20.5		20.7	20.8	20.2	20.2	
Boone	20.3		20.9	20.9	19.9	19.5	
S100	18.9		19.4	19.1	18.8	18.5	
Mean			20.6	20.5	19.8	19.4	
			Williamsburg, Va.				
S100	18.2		18.2	18.1	18.5	18.0	
Ogden	19.6		19.5	19.4	20.0	19.4	
Volstate	20.2		19.6	20.2	20.5	20.3	
Mean			19.1	19.2	19.7	19.2	
			Stillwater, Okla.				
S100	19.3		20.0	19.6	18.5	19.1	
Ogden	20.4		21.2	20.1	20.2	20.2	
Volstate	19.9		20.5	19.6	19.7	19.7	
Mean			20.6	19.8	19.5	19.7	
			Knoxville, Tenn.				
S100	19.8			19.0	19.2	21.2	
Ogden	21.9			21.4	22.4	21.8	
Volstate	22.0			21.7	21.6	22.7	
Mean				20.7	21.1	21.9	
			Watkinsville, Ga.				
S100	19.9	19.8	19.8	19.9		20.0	
Ogden	22.9	22.8	22.8	22.9		22.9	
Volstate	23.1	23.1	23.3	23.0		23.1	
Mean		21.9	22.0	21.9		22.0	
			Stuttgart, Ark.				
S100	19.0		18.3	19.4	18.7	19.6	
Arksoy	19.8		19.3	19.7	20.5	19.5	
Ogden	19.9		19.2	20.5	20.1	19.8	
Volstate	20.6		20.4	20.9	21.1	20.1	
Mean			19.5	20.1	20.1	19.8	
			Stoneville, Miss.				
S100	18.3	19.4	18.5	17.9	17.3		
Arksoy	19.7	20.0	19.7	19.9	19.3		
Ogden	19.3	19.8	19.2	19.3	19.0		
Volstate	19.8	20.2	19.9	19.5	19.6		
Acadian	19.4	19.6	19.6	19.4	19.0		
Mean		19.8	19.4	19.2	18.8		
			Baton Rouge, La.				
S100	18.2	19.9	18.3	18.0	18.9	18.0	16.3
Ogden	19.8	20.3	19.8	19.9	20.5	18.6	19.4
Volstate	18.9	-	18.9	19.4	19.1	17.8	19.4
Acadian	18.1	18.1	18.2	18.3	18.4	18.0	17.8
Mean		19.4	18.8	18.9	19.2	18.1	18.2
			Tifton, Ga.				
Monetta	16.8	16.2	16.7	17.3	16.5	16.6	17.3
Palmetto	17.0	17.5	16.6	17.6	16.3	18.4	15.6
Acadian	18.6	18.8	19.1	17.8	18.4	18.8	18.7
Mean		17.5	17.5	17.6	17.1	17.9	17.2

Table 57: Summary of the iodine number of the oil for the varieties of the Dates of Planting tests, 1945

Variety	Mean	Date of Planting 4-2	4-23	5-14	6-4	6-25	7-16
			Blacksburg, Va.				
Dunfield	128.9		128.5	127.7	127.2	132.1	
Chief	133.6		133.2	132.3	134.6	134.2	
Boone	133.8		133.7	133.3	133.7	134.4	
S100	133.8		132.2	133.3	134.5	135.3	
Mean			131.9	131.7	132.5	134.0	
			Williamsburg, Va.				
S100	131.9		131.6	131.2	131.6	133.1	
Ogden	137.9		138.7	138.6	137.2	137.2	
Volstate	136.1		136.9	136.1	135.9	135.4	
Mean			135.7	135.3	134.9	135.2	
			Stillwater, Okla.				
S100	123.4		122.2	120.3	122.2	128.7	
Ogden	129.7		125.5	129.1	130.6	133.7	
Volstate	134.0		133.7	132.0	135.0	135.1	
Mean			127.1	127.1	129.3	132.5	
			Knoxville, Tenn.				
S100	128.4			127.2	127.2	130.9	
Ogden	130.8			129.2	130.9	132.4	
Volstate	132.3			132.1	131.6	133.3	
Mean				129.5	129.9	132.2	
			Watkinsville, Ga.				
S100	124.9	125.4	124.6	124.9		124.7	
Ogden	129.5	129.5	129.7	129.6		129.1	
Volstate	133.4	133.5	133.4	133.4		133.3	
Mean		129.5	129.2	129.3		129.0	
			Stuttgart, Ark.				
S100	119.8		118.2	117.8	119.4	123.8	
Arksoy	129.2		131.3	129.5	128.6	127.3	
Ogden	132.2		131.5	130.8	132.8	133.7	
Volstate	132.8		132.9	133.1	132.1	133.1	
Mean			128.5	127.8	128.2	129.5	
			Stoneville, Miss.				
S100	131.4	129.8	131.7	132.1	132.1		
Arksoy	137.9	138.4	138.6	137.9	136.6		
Ogden	137.5	137.4	137.7	137.4	137.4		
Volstate	137.9	137.7	138.0	138.0	137.7		
Acadian	134.8	134.6	134.5	134.7	135.4		
Mean		135.6	136.1	136.0	135.8		
			Baton Rouge, La.				
S100	134.2	133.0	132.5	136.1	133.3	134.3	135.8
Ogden	135.0	135.5	135.7	134.6	134.0	133.4	136.9
Volstate	135.7	-	136.9	135.6	136.9	135.0	134.1
Acadian	134.4	132.6	133.3	133.4	134.8	134.3	138.1
Mean		133.7	134.6	134.9	134.8	134.3	136.2
			Tifton, Ga.				
Monetta	130.8	133.9	132.4	130.4	129.3	129.4	129.4
Palmetto	123.8	120.9	120.9	131.2	122.3	128.0	119.7
Acadian	132.3	129.6	131.7	131.5	131.7	134.5	134.5
Mean		128.1	128.3	131.0	127.8	130.6	127.9