U. S. REGIONAL SOYBEAN LABORATORY
URBANA, ILLINOIS

RESULTS OF THE COOPERATIVE UNIFORM SOYBEAN TESTS, 1950 PART II. SOUTHERN STATES

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

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RESULTS OF THE COOPERATIVE UNIFORM SOYBEAN TESTS

PART II. SOUTHERN STATES[1/]

****

1950

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Compiled by

Edgar E. Hartwig and Elaine Bounds

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1/ This annual report of activity at the Soybean Laboratory, as well as of that at the state stations with which the Laboratory cooperates, is a progress report, and as such may contain statements which may or may not be verified by subsequent experiments. The fact that any statement has been made herein does not necessarily constitute publication. For this reason, citation to particular statements in the report should not be published unless permission has been granted previously by the Laboratory or the state station concerned.

INTRODUCTION

The program of the U. S. Regional Soybean Laboratory includes developing and evaluating soybean varieties for industrial utilization. As a means of evaluating present varieties and new strains developed through breeding, replicated plantings are made under a wide variety of environmental conditions. Because soybean strains are very sensitive to photoperiod, it has been necessary to classify types into maturity groups. For convenience, these maturity groups are designated Groups 0, I, II, -- VII, VIII, extending from north to south. This report includes a summary of agronomic and chemical characteristics of varieties and new strains for the Southern States. Maturity groups included are IV, V, VI, VII, and VIII.

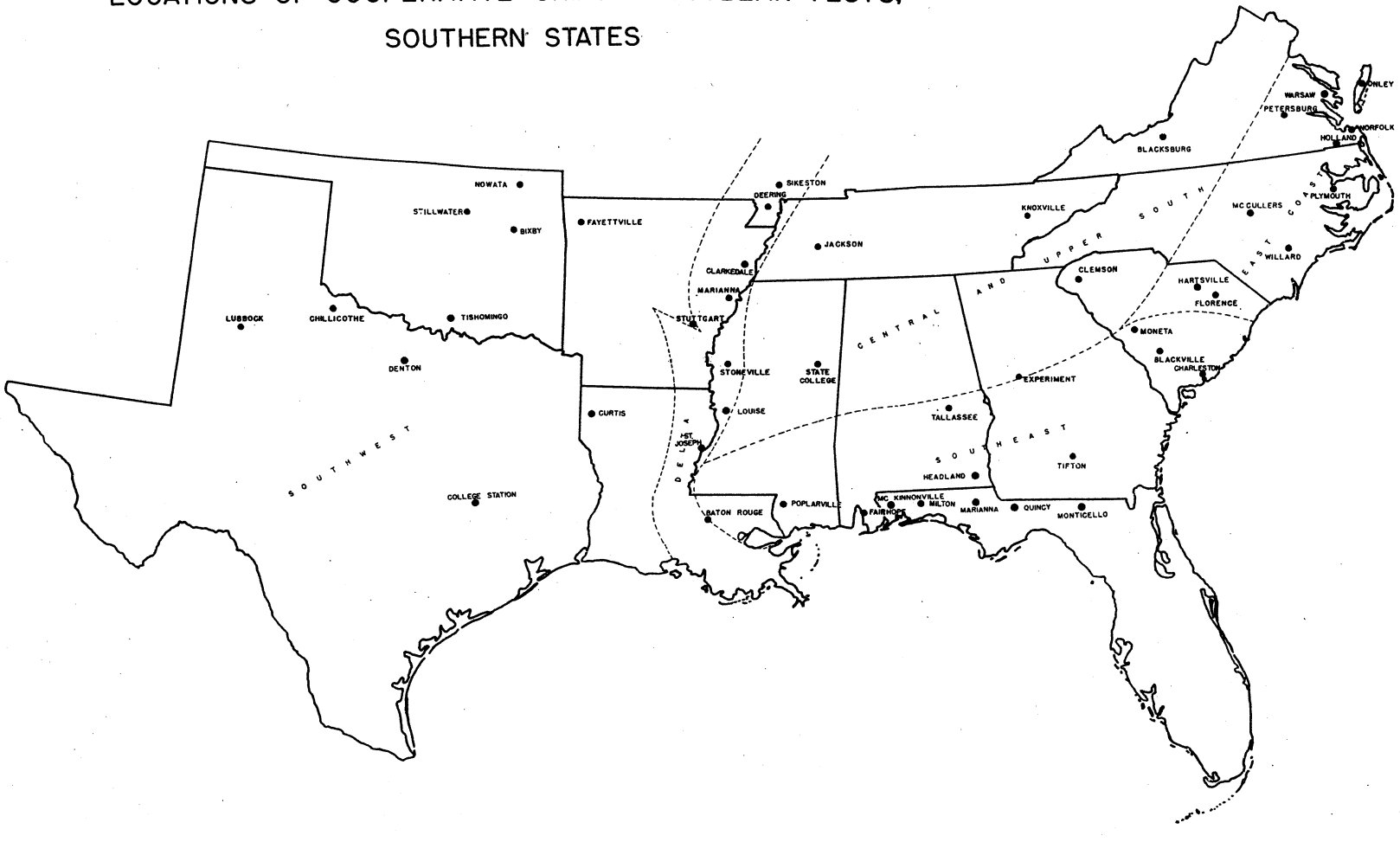
The cooperative program between the Soybean Laboratory and the states in the southern region was initiated in 1943. At that time, there was only limited information available showing the regions of adaptation of the existing varieties of soybeans. During the first few years, most of the strains included in the uniform nurseries were established varieties. As agronomic and chemical data were accumulated on these strains, the poorer producers were eliminated from the tests. At the present time, the material grown in the regional nurseries comprises top-producing varieties and new selections from the breeding programs. This testing program gives agronomic and chemical data from a wide variety of conditions. Because of these tests, the breeder can get new strains into production in a minimum amount of time.

A wide range of soil and climatic conditions exist in the region. It is too much to expect that any one variety should give top performance in all areas where a particular maturity group is to be grown. As an aid in recognizing regional adaptation, the region has been subdivided into five rather broad areas, which still represent a wide range of soil types. These are: (1) the East Coast, consisting of the Coastal Plain of Virginia, North Carolina, and the upper half of South Carolina; (2) the Southeast, consisting of the Coastal Plain soils of the lower half of South Carolina, Georgia, Florida, Alabama, and Mississippi; (3) the Upper and Central South, including the Piedmont soils between the Coastal Plain and Mississippi Delta; (4) the Delta area, composed of the alluvial soils from the Mississippi River in Missouri, Arkansas, Tennessee, Mississippi, and Louisiana; and (5) the West, or Southwest, comprising the western half of Arkansas and Louisiana, Oklahoma, and Texas. A map is included to illustrate these areas.

As further aid in interpreting yield responses, rainfall data is reported for many of the locations where nurseries were grown. Since much of the summer rainfall is from local showers, rainfall is reported only from those locations where records were taken close to the nurseries. Daily minimum and maximum temperatures are reported from representative locations for the production areas.

Rates of fertilization are reported for those locations where the plots were fertilized. Soil types are reported for all locations.

LOCATIONS OF COOPERATIVE UNIFORM SOYBEAN TESTS, SOUTHERN STATES



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COOPERATING AGENCIES AND PERSONNEL
FOR THE
SOUTHERN STATES

Bureau of Plant Industry, Soils, and Agricultural Engineering;
Division of Forage Crops and Diseases[1]: M. G. Weiss, J. L. Cartter, E. E. Hartwig, Herbert W. Johnson, J. L. Stephens, and Elaine Bounds.

Alabama Agricultural Experiment Station;
Agronomy Department: Otto Brown, C. F. Simmons, C. L. Kornegay

Arkansas Agricultural Experiment Station;
Agronomy Department: P. E. Smith, J. L. Dameron, J. O. Dockins

Georgia Agricultural Experiment Station;
Agronomy Department: U. R. Gore, J. L. Stephens

Florida Agricultural Experiment Station;
Agronomy Department: R. L. Smith, H. W. Lundy, R. W. Lipscomb, R. W. Wallace

Louisiana Agricultural Experiment Station;
Agronomy Department: J. P. Gray

Mississippi Agricultural Experiment Station;
Agronomy Department: J. F. O'Kelly

North Carolina Agricultural Experiment Station;
Agronomy Department: Herbert W. Johnson

Oklahoma Agricultural Experiment Station;
Agronomy Department: Chester Canode, Donald Swift

South Carolina Agricultural Experiment Station;
Agronomy Department: W. R. Paden

Tennessee Agricultural Experiment Station;
Agronomy Department; L. N. Skold

Texas Agricultural Experiment Station;
Agronomy Department: R. C. Potts, Clark Harvey

Virginia Agricultural Experiment Station;
Agronomy Department: T. J. Smith, Edward Shulkum

1/The chemists at the U. S. Regional Soybean Laboratory, Urbana, Illinois, have run the chemical analyses. Breeding material received from the Laboratory staff members located at states in the northern program has aided the southern program appreciably.

LOCATION OF COOPERATIVE NURSERIES

LOCATION	COOPERATOR	UNIFORM GROUPS IV	V	VI	VII	VIII	SOIL TYPE	FERTILIZER[1]
		EAST COAST						
Warsaw, Va.	Eastern Va. Field Sta.	1	1	1			Sassafras Sandy Loam	15-60-30
Petersburg, Va.	Va. State Col. Field Sta.		1	1	1		Norfolk Fine Sandy Loam	0-42-42
Onley, Va.	Eastern Shore Br. Truck Sta.		1		1		Sassafras Fine Sandy Loam	None
Norfolk, Va.	Va. Truck Expt. Sta.		1		1		Norfolk Fine Sandy Loam	None
Holland, Va.	Tidewater Field Sta.		1	1	1		Onslow Fine Sandy Loam	None
Plymouth, N. C.	Tidewater Branch Sta.		1	1	1		Bladen Fine Sandy Loam	0-40-80
Willard, N. C.	Lower Coastal Plain Expt. Sta.			1	1		Norfolk Fine Sandy Loam	0-40-80
McCullers, N. C.	N. C. Agr. Expt. Sta.			1	1		Norfolk Sandy Loam	0-40-80
Florence, S. C.	Pee Dee Expt. Sta.				1		Dunbar Fine Sandy Loam	0-40-80
Hartsville, S. C.	Coker Pedigreed Seed Co.			1	1	1	Norfolk Sandy Loam	0-40-80
		SOUTHEAST						
Monetta, S. C.	Miss Bessie Johnson			1	1	1	Norfolk Sandy Loam	0-40-80
Charleston, S. C.	Truck Expt. Station				1		Nosbig Fine Sandy Loam	None[2]
Tifton, Ga.	Ga. Coastal Plain Expt. Sta.				1	1	Tifton Sandy Loam	0-40-80
Tallassee, Ala.	Ala. Agr. Expt. Sta.			1	1	1	Cahaba Fine Sandy Loam	0-42-30
Monticello, Fla.	No. Fla. Mobile Unit #1			1	1	1	Ruston Fine Sandy Loam	24-60-42
Marianna, Fla.	No. Fla. Mobile Unit #3			1	1	1	Red Bay Loamy Sand	24-60-42
Milton, Fla.	West Fla. Expt. Sta.			1	1	1	Faceville Sandy Loam	16-40-28
McKinnonville, Fla.	Bruce Grimes			1	1	1	Greenville Fine Sandy Loam	24-60-42
Fairhope, Ala.	Gulf Coast Substa.			1	1		Marlboro Fine Sandy Loam	None[2]
Poplarville, Miss.	So. Miss. Branch Sta.				1	1	Orangeburg Sandy Loam	0-40-80
		UPPER AND CENTRAL SOUTH						
Knoxville, Tenn.	Tenn. Agr. Expt. Sta.	1	1	1			Sequatchie Fine Sandy Loam	6-36-36
Clemson, S. C.	Clemson Col. Expt. Sta.				1		Clemson Sandy Loam	14-40-40
Experiment, Ga.	Ga. Agr. Expt. Sta.		1	1	1	1	Cecil Sandy Loam	0-40-40
State College, Miss.	Miss. Agr. Expt. Sta.		1	1	1		Verona Fine Sandy Loam	None

LOCATION	COOPERATOR	UNIFORM GROUPS IV	V	VI	VII	VIII	SOIL TYPE	FERTILIZER 1/
			MISSISSIPPI DELTA					
Sikeston, Mo.	Mo. Agr. Expt. Sta.	1	1	1			Lintonia Fine Sandy Loam	9-27-54
Deering, Mo.	Deering Farms, Inc.		1	1			Sharkey Clay	None
Jackson, Tenn.	West Tenn. Agr. Expt. Sta.	1	1	1			Lintonia Silt Loam	0-12-25
Clarkedale, Ark.	Cotton Branch Sta.	1	1	1			Sharkey Clay and Sand	None
Marianna, Ark.	Cotton Branch Sta.		1	1	1		Richland Silt Loam	12-36-72
Stoneville, Miss. (A)	Delta Br. Expt. Sta.	1	1	1	1	1	Bosket Fine Sandy Loam	None
Stoneville, Miss. (B)	Delta Br. Expt. Sta.		1				Sharkey Clay	None
Louise, Miss.	L. S. Stoner			1	1		Dundee Silt Loam	None
St. Joseph, La.	N. E. La. Agr. Expt. Sta.		1	1	1	1	Sarpy Clay Loam	None
Baton Rouge, La.	La. Agr. Expt. Sta.		1	1	1	1	Lintonia Sandy Loam	15-60-60
			WEST					
Stillwater, Okla.	Okla. Agr. Expt. Sta.		1	1			Vanoss Very Fine Sandy Loam	0-50-0
Bixby, Okla.	Okla. Veg. Research Sta.		1	1			Yahola Very Fine Sandy Loam	0-60-0
Fayetteville, Ark.	Ark. Agr. Expt. Sta.	1	1	1			Bolivar Silt Loam	0-40-75
Stuttgart, Ark.	Rice Branch Expt. Sta.	1	1	1	1	1	Crowley Silt Loam	9-27-54
Tishomingo, Okla.	Murray State College			1	1			0-50-0
Denton, Texas	Texas Substation #6	1	1				San Saba Clay	None
Chillicothe, Texas	Texas Substation #12				1	1	Abilene Loam	None
Lubbock, Texas	Texas Substation #8	1	1	1			Richfield Fine Sandy Loam	None
Curtis, La.	Red River Valley Expt. Sta.		1	1	1	1	Miller Very Fine Sandy Loam	9-36-36
College Station, Tex.	Texas Agr. Expt. Sta.	1	1	1	1		Miller Clay	None

1/ Fertilizer applied converted to pounds of N, P_2O_5, K_2O, for example, 400 pounds of 2-12-12 equals 8-48-48.

2/ Soybeans followed heavily fertilized vegetable crops.

METHODS

The uniform nurseries have been planted in 4-row plots with three replications, or in 3-row plots with four replications. Where 4-row plots were grown, the two center rows were harvested, while where 3-row plots were grown, only the center row was harvested. A randomized block design was used for Groups IV, V, VI, and VIII. A triple lattice, or simple lattice with four replications, was used for Group VII at several locations. Row widths at the different locations have varied from 36 to 42 inches. Plantings are made at the rate of 10 viable seeds per foot of row. An attempt is made to follow the best cultural and management practices in conducting these variety and strain comparisons.

Yields were taken by harvesting a 16-foot length from the mid-section of each plot. Actual seed weights are recorded after the seed of all strains has a uniform moisture content.

Shattering notes, where taken, were on the remaining end plants of each row, or the border rows, ten to fourteen days after maturity. The estimates are recorded on a scale of 1 to 5 as follows:

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

Chemical composition - percent protein, percent oil, and iodine number of the oil was determined on each strain from representative locations. Percentage composition of the seed is expressed on a dry basis (moisture free).

Seed weight from each strain was determined on a composite from all replications at a location and was recorded as weight in grams of 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.

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 pods were dry and most of the leaves had dropped. Under most conditions, the stems are also 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 IV, Wabash; Group V, S-100; Group VI, Ogden; Group VII, Roanoke; and Group VIII, Acadian.

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 brightness. While the seed quality score indicates relative appearance of seed for the several varieties at one location, considerable differences can exist between factors responsible for the poorer grades in different areas.

Statistical analyses - yield data were analyzed by analysis of variance. Differences necessary to indicate difference between strains (odds 19:1) are reported for each location.

Strain Identification - the strains designated by number carry a letter prefix. This letter identifies the state where this strain was selected. The following letters appear in this report.

C - Purdue Agric. Expt. Station and U. S. Regional Soybean Laboratory
D - Delta Branch Expt. Station and the U. S. Regional Soybean Laboratory
L - Illinois Agric. Expt. Station and U. S. Regional Soybean Laboratory
La - Louisiana Agric. Expt. Station and U. S. Regional Soybean Laboratory
N - N. Carolina Agricultural Experiment Station and the U. S. Regional Soybean Laboratory
S - Missouri Agric. Expt. Station and the U. S. Regional Soybean Laboratory
R - Arkansas Agric. Expt. Station and the U. S. Regional Soybean Laboratory

P. I. - Plant Introduction

UNIFORM GROUP IV, 1950

Strain or Variety	Source or Originating Agency	Origin
Wabash	Purdue A.E.S. & U.S.R.S.L.	Selection from Dunfield x Mansoy
Patoka	Purdue A.E.S.	Selection from P.I. 70218-2
C490	Purdue A.E.S. & U.S.R.S.L.	Selection from Patoka x X531-468-3-3-2
C612	Purdue A.E.S. & U.S.R.S.L.	Selection from Patoka x L7-1355
L6-1656	Ill. A.E.S. & U.S.R.S.L.	Selection from Lincoln/Lincoln x Richland
L6-5679	Ill. A.E.S. & U.S.R.S.L.	Selection from Lincoln x Richland
L8-6797	Ill. A.E.S. & U.S.R.S.L.	Selection from L6-5679
L8-6852	Ill. A.E.S. & U.S.R.S.L.	Selection from Lincoln x Richland
S7-270	Mo. A.E.S. & U.S.R.S.L.	Selection from Chief/Macoupin x Chief
S7-5236	Mo. A.E.S. & U.S.R.S.L.	Selection from Lincoln x S-100

Thirteen Group IV nurseries were planted in the Southern Region, and results of 12 of these plantings are summarized in tables 1 through 7. The planting at Nowata, Oklahoma, was destroyed by a heavy rain shortly after planting. In the area where these tests were grown, Wabash, the check variety, matured from August 28, at Stoneville, Mississippi, and College Station, Texas, to September 28 at Warsaw, Virginia. At most locations, Wabash is 16 to 18 days earlier than S-100, the check variety for Group V. Over much of the area where these nurseries were grown, varieties of this maturity will be secondary to later-maturing varieties. Wabash is a full-season variety in southern Indiana.

Two named-varieties, Wabash and Patoka, and eight strains from the breeding program conducted cooperatively by the U. S. Regional Soybean Laboratory with the Purdue, Illinois, and Missouri Agricultural Experiment Stations were included in these tests. Wabash was released for general production in the spring of 1949. It has been readily accepted for production in the area where it is adapted.

While previous studies have shown Wabash to be one of the best varieties of its maturity for the Southern Region, seed yield and seed quality are usually poorer than for later-maturing varieties. Another difficulty frequently encountered with varieties of this maturity is the absence of as heavy foliage as varieties such as Ogden. Consequently, they do not shade out grass and weeds as well during the later part of the growing season. Furthermore, as the leaves are shed in late August or early September, grasses begin to grow and cause considerable difficulty in combining.

In general, the later-maturing strains within the group have given the highest seed yields. Two- and three-year data for yield and oil content are summarized in tables 8 and 9. C612, which is approximately one week later than Wabash, has yielded above Wabash, and has a comparable oil content. C612 is slightly shorter than Wabash, but has heavier foliage. C612 is being increased for release and should be of value as an early variety, especially for the northern Delta area.

L6-5679, which has been grown in these trials for two years, is comparable to C612 in maturity and seed yield, but has lower oil content. L6-5679 averages nearly six inches taller than C612, and under most conditions stands very well. This strain gives the best ground cover of the strains in Group IV.

Four strains, L8-6797, L8-6852, S7-270, and S7-5236, were grown on a regional basis for the first time. On the basis of one-year tests, none appears to be superior to C612 or L6-5679.

Table 1. Summary of yield in bushels per acre for the strains in the Uniform Test, Group IV, 1950

Location	Wabash	Patoka	C490	C612	L6-1656	L6-5679
			UPPER AND CENTRAL SOUTH			
Warsaw, Va.	20.6	18.9	23.4+	26.2+	22.2	25.8+
Knoxville, Tenn.	32.7	21.8-	16.2-	25.4	39.4	26.5
Mean	26.7	20.4	19.8	25.8	30.8	26.2
			DELTA			
Sikeston, Mo.	27.0	25.9	28.1	36.7+	31.8+	35.9+
Jackson, Tenn.	38.3	34.9	37.7	41.0	42.1	42.7
Clarkedale, Ark.	26.2	24.1	20.8-	23.5	24.6	21.6-
Marianna, Ark.	18.8	14.9-	23.2+	21.0	19.2	27.9+
Stoneville, Miss.	38.7	45.3	37.5	45.5	40.2	47.8
Mean	29.8	29.0	29.5	33.5	31.6	35.2
			WEST			
Fayetteville, Ark. 1/	24.9	28.8	27.6	32.2	33.0	39.9
Stuttgart, Ark.	20.3	21.3	21.2	20.5	20.7	25.1+
Denton, Texas 2/	9.5	9.9	10.5	11.7	9.8	12.5
Lubbock, Texas 1/	19.3	17.3	23.8	21.5	24.2	27.7
College Sta., Tex. 2/	12.9	15.5	16.4	17.0	21.8	13.6

(+) - Strains yielding significantly more (odds 19:1 or greater) than Wabash.

(-) - Strains yielding significantly less (odds 19:1 or greater) than Wabash.

1/ - Not included in the mean because of irregular stands.

2/ - Not included in the mean.

Table 1. (Continued)

Location	L8-6797	L8-6852	S7-270	S7-5236	L.S.D. (5%)	C.V.
		UPPER AND CENTRAL SOUTH				
Warsaw, Va.	25.4+	24.6+	23.4+	20.2	2.8	8%
Knoxville, Tenn.	22.6-	21.7-	35.3	27.4	9.6	25%
Mean	24.0	23.2	29.3	23.8		
		DELTA				
Sikeston, Mo.	34.8+	37.8+	33.5+	32.2+	4.4	9%
Jackson, Tenn.	40.4	37.6	37.1	37.2	N.S.	14%
Clarkedale, Ark.	23.0-	24.3	26.4	26.9	3.0	7%
Marianna, Ark.	28.4+	24.9+	22.3+	20.0	3.3	9%
Stoneville, Miss.	53.6+	36.8	35.2	40.7	10.4	14%
Mean	36.0	32.3	30.9	31.4		
		WEST				
Fayetteville, Ark.[1]	32.1	40.0	33.2	39.6	-	-
Stuttgart, Ark.	25.2+	27.0+	19.2	25.3+	3.7	10%
Denton, Texas[2]	11.5	13.9+	12.3	14.8+	3.2	19%
Lubbock, Texas[1]	28.0	23.3	27.3	26.5	-	-
College Sta., Texas[2]	19.2	14.7	14.6	22.7	N.S.	27%

Table 2. Summary of the chemical composition of the strains in Uniform Group IV, 1950

Location	Wabash	Patoka	C490	C612	L6-1656
		OIL PERCENTAGE			
Warsaw, Va.	22.1	21.0	22.1	21.9	22.5
Sikeston, Mo.	22.4	21.0	21.5	22.0	19.5
Jackson, Tenn.	22.1	21.1	21.5	22.1	20.8
Stoneville, Miss.	23.0	21.8	22.5	23.2	22.7
Stuttgart, Ark.	23.1	21.8	22.8	23.9	23.1
Mean	22.5	21.3	22.1	22.6	21.7
		PROTEIN PERCENTAGE			
Warsaw, Va.	44.9	49.4	46.2	46.5	46.2
Sikeston, Mo.	41.5	43.8	41.8	41.2	39.6
Jackson, Tenn.	40.4	40.6	39.9	39.9	40.1
Stoneville, Miss.	41.2	44.3	43.0	41.6	40.8
Stuttgart, Ark.	41.9	45.5	43.6	42.2	41.4
Mean	42.0	44.7	42.9	42.3	41.6
		IODINE NUMBER OF THE OIL			
Warsaw, Va.	123.1	128.8	130.1	128.0	134.4
Sikeston, Mo.	127.7	132.2	132.0	130.8	136.6
Jackson, Tenn.	125.5	132.1	132.0	131.4	133.3
Stoneville, Miss.	127.0	132.6	129.4	130.0	134.4
Stuttgart, Ark.	129.4	131.7	132.0	129.5	133.6
Mean	126.5	131.5	131.1	129.9	134.5

Table 2: (Continued)

Location	L6-5679	L8-6797	L8-6852	S7-270	S7-5236
		OIL PERCENTAGE			
Warsaw, Va.	20.5	21.2	22.2	21.7	21.8
Sikeston, Mo.	21.1	19.9	21.1	20.5	20.2
Jackson, Tenn.	21.0	20.7	21.8	20.9	20.8
Stoneville, Miss.	22.5	22.1	22.3	21.5	21.4
Stuttgart, Ark.	23.0	22.7	22.6	22.8	21.6
Mean	21.6	21.3	22.0	21.5	21.2
		PROTEIN PERCENTAGE			
Warsaw, Va.	44.8	45.1	45.3	45.8	45.8
Sikeston, Mo.	40.7	41.0	41.1	41.5	41.4
Jackson, Tenn.	39.9	40.8	40.3	40.8	39.5
Stoneville, Miss.	40.9	40.8	40.5	41.9	41.7
Stuttgart, Ark.	42.8	41.6	42.2	42.7	43.0
Mean	41.8	41.9	41.9	42.5	42.3
		IODINE NUMBER OF THE OIL			
Warsaw, Va.	127.2	127.6	127.0	130.2	133.0
Sikeston, Mo.	133.3	131.5	130.5	133.3	136.8
Jackson, Tenn.	132.2	129.9	130.5	132.1	136.3
Stoneville, Miss.	130.8	129.7	129.2	129.9	134.4
Stuttgart, Ark.	131.7	131.2	130.6	132.5	136.3
Mean	131.0	130.0	129.6	131.6	135.4

Table 3: Summary of maturity data, days earlier (-) or later (+) than Wabash, for the strains in the Uniform Test, Group IV, 1950

Location	Date Planted	Wabash Matured	Patoka	C490	C612
		UPPER AND CENTRAL SOUTH			
Warsaw, Va.	5-22	9-28	+11	+17	+15
Knoxville, Tenn.	5-15	9-27	+4	0	+4
Mean			+7	+8	+9
		DELTA			
Sikeston, Mo.	5-18	9-17	+1	+12	+5
Jackson, Tenn.	5-17	9-22	-4	+11	+4
Marianna, Ark.	5-18	9-7	+2	+12	+9
Stoneville, Miss.	5-8	8-28	+7	+10	+10
Mean			+2	+11	+7
		WEST			
Fayetteville, Ark.	5-9	9-23	0	+8	0
Stuttgart, Ark.	5-25	9-19	+11	+11	+11
Denton, Texas	5-26	9-4	+11	+7	+4
Lubbock, Texas	6-15	10-5	0	+5	0
College Sta., Texas	5-8	8-28	0	+7	+7
Mean			+4	+7	+4

Table 3. (Continued)

Location	L6-1656	L6-5679	L8-6797	L8-6852	S7-270	S7-5236
			UPPER AND CENTRAL SOUTH			
Warsaw, Va.	+9	+15	+16	+17	+7	+11
Knoxville, Tenn.	0	+2	0	+2	+2	+2
Mean	+4	+8	+8	+9	+4	+6
			DELTA			
Sikeston, Mo.	0	+6	+6	+4	+6	+2
Jackson, Tenn.	0	+7	+11	+4	+4	0
Marianna, Ark.	+2	+9	+11	+6	+8	+7
Stoneville, Miss.	+3	+11	+11	+8	+7	+8
Mean	+1	+7	+10	+6	+6	+4
			WEST			
Fayetteville, Ark.	0	0	0	0	0	0
Stuttgart, Ark.	0	+11	+11	+11	0	+11
Denton, Texas	-1	+12	+10	+2	+6	+1
Lubbock, Texas	0	0	0	0	0	0
College Station, Texas	0	+13	+21	+25	+17	+8
Mean	0	+7	+8	+8	+5	+4

Table 4. Summary of the height data for the strains in the Uniform Test, Group IV, 1950

Location	Wabash	Patoka	C490	C612	L6-1656
		UPPER AND CENTRAL SOUTH			
Warsaw, Va.	30	30	32	31	33
Knoxville, Tenn.	46	36	40	39	44
Mean	38	33	36	35	38
		DELTA			
Sikeston, Mo.	39	32	41	38	38
Jackson, Tenn.	40	35	42	40	41
Clarkedale, Ark.	44	32	37	36	39
Marianna, Ark.	32	31	36	32	37
Stoneville, Miss.	40	31	39	36	35
Mean	39	32	39	36	38
		WEST			
Fayetteville, Ark.	36	32	36	32	32
Stuttgart, Ark.	24	19	26	18	27
Denton, Texas	29	29	29	27	27
Lubbock, Texas	20	15	20	22	24
College Station, Texas	30	22	29	25	29
Mean	28	23	28	25	28

Table 4. (Continued)

Location	L6-5679	L8-6797	L8-6852	S7-270	S7-5236
		UPPER AND CENTRAL SOUTH			
Warsaw, Va.	35	34	35	38	32
Knoxville, Tenn.	44	41	37	56	39
Mean	40	38	36	47	36
		DELTA			
Sikeston, Mo.	42	41	42	45	39
Jackson, Tenn.	45	45	42	56	38
Clarkedale, Ark.	42	40	44	45	40
Marianna, Ark.	39	42	40	34	38
Stoneville, Miss.	41	45	40	47	35
Mean	42	43	42	45	38
		WEST			
Fayetteville, Ark.	40	38	38	42	33
Stuttgart, Ark.	27	26	28	30	28
Denton, Texas	29	31	30	35	32
Lubbock, Texas	24	23	26	27	24
College Station, Texas	26	26	28	35	31
Mean	29	29	30	34	30

Table 5. Summary of the lodging scores for the strains in the Uniform Test, Group IV, 1950

Location	Wabash	Patoka	C490	C612	L6-1656
		UPPER AND CENTRAL SOUTH			
Warsaw, Va.	3.0	2.0	3.0	1.5	2.0
Knoxville, Tenn.	1.3	1.3	2.3	1.3	1.8
		DELTA			
Sikeston, Mo.	2.0	2.0	3.0	1.3	2.0
Jackson, Tenn.	3.8	3.5	3.8	3.2	3.8
Marianna, Ark.	1.0	1.0	2.0	1.0	1.0
Stoneville, Miss.	1.3	1.0	1.3	1.0	1.7
		WEST			
Fayetteville, Ark.	3.0	1.0	2.0	1.0	1.0
Stuttgart, Ark.	2.0	4.0	2.0	3.0	4.0
Denton, Texas	1.0	1.0	1.0	1.0	1.0
Lubbock, Texas	1.0	1.0	1.0	1.0	1.0
College Station, Texas	1.0	1.0	1.0	1.0	1.0

Table 5. (Continued)

Location	L6-5679	L8-6797	L8-6852	S7-270	S7-5236
		UPPER AND CENTRAL SOUTH			
Warsaw, Va.	3.0	2.0	3.5	3.0	1.5
Knoxville, Tenn.	1.5	1.0	1.0	2.0	1.3
		DELTA			
Sikeston, Mo.	2.0	2.0	2.3	2.3	2.0
Jackson, Tenn.	3.8	3.2	3.2	4.5	3.8
Marianna, Ark.	2.0	2.0	2.0	2.0	1.0
Stoneville, Miss.	1.7	2.7	1.7	3.0	1.7
		WEST			
Fayetteville, Ark.	1.0	1.0	1.0	1.0	2.0
Stuttgart, Ark.	3.0	3.0	5.0	4.0	3.0
Denton, Texas	1.0	1.0	1.0	1.0	1.0
Lubbock, Texas	1.0	1.0	1.0	1.0	1.0
College Station, Texas	1.0	1.0	1.0	1.0	1.0

Table 6. Summary of the seed quality scores for the strains in the Uniform Test, Group IV, 1950

Location	Wabash	Patoka	C490	C612	L6-1656
		UPPER AND CENTRAL SOUTH			
Warsaw, Va.	2.0	3.0	3.0	2.0	3.0
Knoxville, Tenn.	1.5	4.5	2.0	1.5	1.5
		DELTA			
Sikeston, Mo.	2.0	2.0	1.5	1.5	2.0
Jackson, Tenn.	1.2	1.2	1.0	2.0	1.2
Clarkedale, Ark.	3.0	3.0	4.0	3.0	3.0
Marianna, Ark.	2.0	3.0	3.0	4.0	3.0
Stoneville, Miss.	2.0	2.7	2.7	2.0	3.0
		WEST			
Fayetteville, Ark.	2.0	2.0	2.0	2.0	2.0
Stuttgart, Ark.	2.0	4.0	2.0	3.0	4.0
Lubbock, Texas	2.0	2.0	2.0	2.0	2.0
College Station, Texas	3.0	3.0	4.0	3.0	3.0

Table 6. (Continued)

Location	L6-5679	L8-6797	L8-6852	S7-270	S7-5236
		UPPER AND CENTRAL SOUTH			
Warsaw, Va.	2.0	1.5	2.0	2.0	3.0
Knoxville, Tenn.	1.0	1.0	1.0	1.0	1.0
		DELTA			
Sikeston, Mo.	1.0	1.3	1.5	1.8	2.5
Jackson, Tenn.	1.2	1.0	1.5	3.5	2.5
Clarkedale, Ark.	3.0	3.0	3.0	3.0	3.0
Marianna, Ark.	3.0	2.0	2.0	3.0	3.0
Stoneville, Miss.	2.0	2.3	2.0	2.0	2.7
		WEST			
Fayetteville, Ark.	2.0	2.0	2.0	2.0	2.0
Stuttgart, Ark.	3.0	3.0	5.0	4.0	3.0
Lubbock, Texas	2.0	3.0	2.0	2.0	3.0
College Station, Texas	3.0	3.0	3.0	4.0	3.0

Table 7. Summary of seed weight, in grams per 100 seeds, for the strains in the Uniform Test, Group IV, 1950

Location	Wabash	Patoka	C490	C612	L6-1656
		UPPER AND CENTRAL SOUTH			
Warsaw, Va.	16.0	19.0	16.0	18.5	17.0
Knoxville, Tenn.	15.1	16.8	13.7	16.5	16.4
Mean	15.6	17.9	14.9	17.5	16.7
		DELTA			
Sikeston, Mo.	14.2	17.4	15.0	17.3	14.1
Jackson, Tenn.	15.6	18.2	16.4	16.7	16.2
Stoneville, Miss.	15.7	19.7	17.6	17.5	16.4
Mean	15.2	18.4	16.3	17.2	15.6
		WEST			
Stuttgart, Ark.	16.2	20.2	17.3	18.7	17.6
Denton, Texas	10.4	13.1	14.7	12.9	12.5
Lubbock, Texas	14.0	16.0	15.0	16.0	14.0
College Sta., Texas	12.0	13.0	11.0	16.0	15.0
Mean	13.2	15.6	14.5	15.9	14.8

Table 7. (Continued)

Location	L6-5679	L8-6797	L8-6852	S7-270	S7-5236
		UPPER AND CENTRAL SOUTH			
Warsaw, Va.	16.5	17.0	17.5	15.0	17.5
Knoxville, Tenn.	13.8	13.4	13.7	14.8	14.4
Mean	15.2	15.2	15.6	14.9	16.0
		DELTA			
Sikeston, Mo.	14.0	13.9	15.8	13.0	14.4
Jackson, Tenn.	15.6	14.4	17.9	15.1	17.3
Stoneville, Miss.	15.1	16.2	16.4	14.5	16.8
Mean	14.9	14.8	16.7	14.2	16.2
		WEST			
Stuttgart, Ark.	17.2	17.0	18.1	15.4	18.3
Denton, Texas	12.7	13.2	12.6	12.4	12.7
Lubbock, Texas	15.0	15.0	15.0	15.0	15.0
College Station, Texas	12.0	12.0	14.0	13.0	14.0
Mean	14.2	14.3	14.9	14.0	15.0

Table 8. Two-year summary of yield and oil content for strains in the Uniform Test, Group IV, 1949-1950

Location	Wabash	Patoka	C490	C612	L6-1656	L6-5679
			YIELD			
Warsaw, Va.	26.9	26.3	30.8	33.5	31.3	32.9
Knoxville, Tenn.	32.4	27.2	26.0	31.8	28.5	32.9
Sikeston, Mo.	30.3	28.3	28.7	36.9	32.3	34.0
Jackson, Tenn.	34.9	35.9	39.3	39.7	38.5	38.1
Stoneville, Miss.	31.3	36.8	31.7	41.0	33.0	40.5
Stuttgart, Ark.	15.3	17.2	17.2	17.5	19.4	21.8
College Sta., Texas	19.4	21.0	21.2	23.3	23.6	22.0
Mean	27.2	27.5	27.8	32.0	29.5	31.7
			OIL PERCENTAGE			
Warsaw, Va.	21.8	21.1	22.1	22.0	22.0	21.4
Sikeston, Mo.	22.9	21.2	21.0	22.3	20.7	21.1
Jackson, Tenn.	23.4	21.9	22.6	23.3	22.6	22.1
Stoneville, Miss.	23.0	21.6	21.9	23.0	22.0	22.7
Stuttgart, Ark.	22.9	20.9	22.5	23.3	22.7	22.4
Mean	22.8	21.3	22.0	22.8	22.0	21.9

Table 9. Three-year summary of yield and oil content for strains in Uniform Group IV, 1948-1950

		YIELD		
Warsaw, Va.[1/]	26.3	27.6	31.7	31.7
Knoxville, Tenn.	29.3	24.8	24.0	28.1
Sikeston, Mo.	27.4	25.6	24.7	31.6
Jackson, Tenn.	33.8	33.5	35.8	35.5
Stoneville, Miss.	29.6	31.0	29.7	34.4
Mean	29.3	28.5	29.0	32.3
		OIL PERCENTAGE		
Warsaw, Va.[1/]	21.8	21.3	22.0	22.2
Jackson, Tenn.	23.6	22.3	22.6	23.4
Stoneville, Miss.	23.5	22.1	22.3	23.3
Mean	23.0	21.9	22.3	23.0

1/ 1947 and 1948 data are from Orange, Virginia.

UNIFORM GROUP V, 1950

UNIFORM GROUP V, 1950

Strain or Variety	Source or Originating Agency	Origin
S-100	Missouri A.E.S.	Selection from rogue in Illini
D514-20	Delta Branch A.E.S. & U.S.R.S.L.	Selection from Chief x Arksoy 2913
D517-3	Delta Branch A.E.S. & U.S.R.S.L.	Selection from Arksoy x Patoka
D523-25	Delta Branch A.E.S. & U.S.R.S.L.	Selection from Dunfield x Arksoy
D523-30	Delta Branch A.E.S. & U.S.R.S.L.	Selection from Dunfield x Arksoy
R46-2062	Rice Branch A.E.S. & U.S.R.S.L.	Selection from Dunfield x C143
R46-2076	Rice Branch A.E.S. & U.S.R.S.L.	Selection from C143 x C233
L4-6290	Ill. A.E.S. & U.S.R.S.L.	Sel. from L7-1355/Macoupin x L7-1355
D517-4	Delta Branch A.E.S. & U.S.R.S.L.	Selection from Arksoy x Patoka
D623-9	Delta Branch A.E.S. & U.S.R.S.L.	Selection from Dunfield x Arksoy
D623-33	Delta Branch A.E.S. & U.S.R.S.L.	Selection from Dunfield x Arksoy
D632-15	Delta Branch A.E.S. & U.S.R.S.L.	Selection from Haberlandt x Dunfield

Twenty-seven Group V nurseries were planted. Results of 26 of these plantings are reported in tables 10 to 16, inclusive. In general, quite satisfactory yields were obtained at all locations, except College Station and Denton, Texas. The plantings at Nowata, Oklahaoma, were destroyed by heavy rains shortly after planting.

S-100 is the only standard variety included in this group. It is a full season variety in the northern part of the southern region. Considerable interest exists in more southern areas, particularly the Mississippi Delta section, for varieties of this maturity to be grown along with the later varieties to extend the harvesting period. Where Ogden will mature, S-100 is approximately 14 to 18 days earlier.

Sixteen of the Group V nurseries were grown in multiple-row plots. Differences among strains were significant in all but two of these comparisons. In 1949, when nearly all plantings were made in single-row plots, differences between strains were not significant in 10 of the 21 tests in the East Coast, Upper and Central South, and Delta regions.

Two strains, D514-20 and D517-3, have now been grown on a regional basis for three years. Of these two strains, D514-20 has the better performance record. D514-20 is slightly later in maturity than S-100, is quite comparable in height, but is more susceptible to lodging. In 1950, D514-20 yielded significantly more than S-100 at six locations. However, in the two- and three-year averages, tables 17 and 18, it is quite similar to S-100 in seed yield. This strain has a distinct advantage over S-100 in oil content, averaging 1.5 to 2.0 percent higher. It has a strong tendency for stems to remain green after pods are mature. In this respect, it is even worse than S-100.

D517-3 is quite comparable to S-100 in maturity, seed quality, and lodging. Under most conditions, it has produced seed with higher oil content than S-100.

Of the strains grown two years, D523-25 and R46-2062 have given the best combination of seed yield and oil content. Both are quite similar to S-100 in maturity, height, and lodging, but have higher oil content. D523-25 has better seed quality than S-100, while R46-2062 frequently has very poor quality seed. D523-25 has produced higher seed yields than S-100 in all production areas, except the West.

L4-6290 is the tallest strain in the group, frequently growing approximately 56 - 60 inches tall. Under these conditions, stems are quite coarse and tend to remain green after seed is mature. The additional height should be of value in the drier western area. However, increased seed yields have not resulted under these conditions.

Of the strains grown only one year, D623-9 appears quite outstanding. In the Preliminary V nurseries in 1949, this strain gave yields above S-100 at the five Delta locations. In 1950, it gave significantly higher seed yields than S-100 at five locations and gave a higher average yield in the East Coast, Upper and Central South, and Delta areas. In addition to a yield advantage over S-100, D623-9 produces seed of distinctly higher quality and with two to three per cent higher oil content. In the 1950 tests, D623-9 produced seed having a quality score of 1 or 2 at all locations, while S-100 received a quality score of 3 or 4 at nine locations. The increase in oil percentage will give an increased oil turn-out of 13 percent.

In comparison with D523-25, which has given comparable seed yields, D623-9 has a slight advantage in seed quality and has nearly one percent higher oil content. Stems of D623-9 dry out more uniformly at maturity.

On the basis of data available, D623-9 appears to merit consideration for release as a replacement for S-100.

The comparative performance of D623-9, or parent lines, with S-100 in the Delta area for the period 1946-1950 is summarized as follows:

Strain	Bu/Acre	Percentage[1/] Oil	Pounds of Oil per ton of beans (14% moisture)	Height	Lodging	Seed Quality
No. of tests	17	11		17	16	16
S-100	32.3	19.6	337	46	2.7	2.7
D623-9	35.8	22.0	378	37	2.7	1.5

1/Reported on a dry matter basis.

Table 10: Summary of yield data, in bushels per acre, for the strains in Uniform Group V, 1950

Location	S-100	D514-20	D517-3	D523-25	D523-30	R46-2062	R46-2076
			EAST COAST				
Warsaw, Va.	24.2	29.4+	26.2	29.0+	25.0	25.8	19.8-
Petersburg, Va.	36.6	38.8	48.4+	51.2+	38.9	39.6	38.3
Onley, Va.	37.4	35.2	35.2	34.1	25.3	37.4	31.9
Norfolk, Va.	31.6	31.0	33.2	31.8	32.7	34.0	34.3
Holland, Va.	43.9	42.5	47.3	45.9	43.9	47.6	40.1
Plymouth, N. C.	30.7	33.2	36.6	34.2	32.8	31.5	30.6
Mean	34.1	35.0	37.8	37.7	33.1	36.0	32.5
			UPPER AND CENTRAL SOUTH				
Experiment, Ga.	22.5	25.4	27.6	29.4	26.4	25.7	25.6
Knoxville, Tenn.	27.4	27.2	30.3	34.3	29.4	26.0	18.2-
State College, Miss.	34.6	41.5+	36.0	36.9	31.1	30.8	28.8-
Mean	28.2	31.4	31.3	33.5	29.0	27.5	24.2
			DELTA				
Sikeston, Mo.	35.4	40.9+	39.3	39.3	38.6	36.7	33.0
Deering, Mo.	16.2	17.3	16.7	15.0	14.9	16.3	15.2
Jackson, Tenn.	38.9	41.1	34.9	39.4	36.1	30.3-	36.0
Clarkedale, Ark.	26.3	23.9	23.0	20.2-	21.6-	20.2-	18.5-
Marianna, Ark.	18.3	23.8+	24.4+	22.2	19.5	24.8+	22.1
Stoneville, Miss. (A)	41.9	40.1	40.0	44.0	38.3	38.0	34.3
Stoneville, Miss. (B)	42.2	52.4+	47.8+	53.2+	48.7+	49.9+	43.7
St. Joseph, La.	30.5	38.7+	25.3	31.3	34.1	32.7	-
Baton Rouge, La.	24.1	26.4	21.5	23.6	22.0	22.6	-
Mean	30.4	33.8	30.3	32.0	30.4	30.2	29.0
			WEST				
Stillwater, Okla.	29.1	30.8	27.7	30.4	29.5	27.8	25.5
Bixby, Okla.	39.0	36.5	40.1	37.0	35.0	32.6	30.9-
Fayetteville, Ark.[1]	32.3	38.0	32.2	21.7	30.7	33.2	35.1
Stuttgart, Ark.	29.2	25.5	29.7	26.7	24.7-	30.0	28.0
Denton, Texas[2]	14.8	14.3	12.6	10.8	10.4	10.0	11.2
Lubbock, Texas[3]	25.0	26.1	18.6	25.0	26.8	20.8	24.8
Curtis, La.	37.9	43.3	23.6-	42.0	30.9-	40.2	-
College Sta., Texas[2]	7.8	-	12.8	12.7	4.5	9.5	5.1
Mean	33.8	34.0	30.3	34.0	30.0	32.7	28.1

(+)- Strains yielding significantly more (odds 19:1 or greater) than S-100.
(-)- Strains yielding significantly less (odds 19:1 or greater) than S-100.
1/- Not included in the mean because of incomplete stands.
2/- Not included in the mean.
3/- Not included in mean because of rabbit damage to some plots.

Table 10. (Continued)

Location	L4-6290	D517-4	D623-9	D623-33	D632-15	L.S.D. (5%)	C.V.
			EAST COAST				
Warsaw, Va.	25.8	27.8	28.2+	22.6	23.8	3.8	10%
Petersburg, Va.	43.9+	43.2+	42.7+	39.2	33.5	5.5	9%
Onley, Va.	35.2	37.4	41.8	33.0	28.6	N.S.	19%
Norfolk, Va.	29.1	33.2	37.6	28.6	30.5	N.S.	13%
Holland, Va.	50.0+	47.0	43.6	43.2	37.4-	6.0	9%
Plymouth, N. C.	34.7	32.4	34.6	32.0	31.2	N.S.	11%
Mean	35.9	36.8	38.1	33.1	30.8		
			UPPER AND CENTRAL SOUTH				
Experiment, Ga.	28.9	26.3	26.0	26.7	28.2	N.S.	17%
Knoxville, Tenn.	33.8	31.4	35.7+	22.4	21.0	7.8	19%
State College, Miss.	28.8-	35.7	32.8	33.8	29.4	5.3	11%
Mean	30.5	31.1	31.5	27.6	26.5		
			DELTA				
Sikeston, Mo.	31.5	37.1	29.6-	33.6	33.2	4.5	9%
Deering, Mo.	22.4+	16.2	15.7	14.0	19.4	4.1	17%
Jackson, Tenn.	35.8	32.9	44.5	35.5	30.0-	6.8	15%
Clarkedale, Ark.	18.6-	23.1	23.6	18.5-	20.1-	3.8	10%
Marianna, Ark.	22.8+	21.8	25.6+	15.8	20.9	4.4	12%
Stoneville, Miss. (A)	33.0-	40.4	44.0	26.2-	36.0	7.7	12%
Stoneville, Miss. (B)	40.3	48.0+	52.3+	43.0	47.9-	3.0	4%
St. Joseph, La.	28.3	28.6	26.2	23.3	28.1	5.4	12%
Baton Rouge, La.	19.4	24.9	21.0	23.3	24.1	N.S.	13%
Mean	28.0	30.3	31.4	26.5	28.9		
			WEST				
Stillwater, Okla.	24.4-	29.9	31.8	26.0-	25.0-	3.1	8%
Bixby, Okla.	30.4-	36.6	45.1	34.0	37.8	7.1	14%
Fayetteville, Ark.[1]	29.8	32.9	40.1	27.7	31.3	-	-
Stuttgart, Ark.	30.6	25.9	22.1-	22.4-	27.5	3.9	9%
Denton, Texas[2]	9.4	8.8	13.3	8.9	10.6		
Lubbock, Texas[3]	29.8	22.6	26.8	26.8	25.5	-	-
Curtis, La.	38.4	30.1-	32.2	38.1	29.0-	6.7	13%
College Sta., Texas[2]	-	12.6	20.0	12.7	10.7	8.2	52%
Mean	30.9	30.6	32.8	30.1	29.8		

Table 11. Chemical composition for the strains in Uniform Group V, 1950

Location	S-100	D514-20	D517-3	D523-25	D523-30	R46-2062
			OIL PERCENTAGE			
Petersburg, Va.	19.1	21.1	20.8	20.0	20.1	20.8
Knoxville, Tenn.	19.6	21.4	21.9	20.4	19.8	21.8
Sikeston, Mo.	18.4	19.9	19.8	19.8	19.3	21.0
Jackson, Tenn.	19.7	20.6	20.3	19.9	20.1	21.8
Stoneville, Miss. (A)	21.2	22.5	21.2	22.0	21.5	22.8
Stoneville, Miss. (B)	20.7	22.1	21.3	21.6	21.3	22.6
Stuttgart, Ark.	20.1	21.4	20.7	20.8	20.8	22.2
Bixby, Okla.	19.8	20.3	21.0	21.4	21.1	21.0
Mean	19.8	21.2	20.9	20.7	20.5	21.8
			PROTEIN PERCENTAGE			
Petersburg, Va.	44.1	42.6	43.6	46.1	45.3	44.3
Knoxville, Tenn.	41.3	38.8	40.7	43.3	44.5	40.9
Sikeston, Mo.	43.7	42.9	43.7	43.9	45.4	41.8
Jackson, Tenn.	41.7	40.7	41.7	43.6	43.6	40.0
Stoneville, Miss. (A)	43.7	43.7	40.6	42.5	44.0	42.9
Stoneville, Miss. (B)	44.2	41.6	43.5	43.4	43.6	42.0
Stuttgart, Ark.	45.7	43.8	45.4	45.2	45.8	43.4
Bixby, Okla.	40.7	37.4	41.1	38.5	39.3	40.6
Mean	43.1	41.4	42.5	43.3	43.9	42.0
			IODINE NO. OF THE OIL			
Petersburg, Va.	130.2	130.1	128.1	128.4	126.7	129.3
Knoxville, Tenn.	133.9	131.4	128.2	127.6	129.7	131.6
Sikeston, Mo.	133.6	131.2	129.8	127.0	126.9	131.7
Jackson, Tenn.	132.8	131.5	130.4	122.8	125.0	130.8
Stoneville, Miss. (A)	130.4	129.7	129.2	123.3	123.6	129.2
Stoneville, Miss. (B)	132.0	130.5	128.9	123.3	125.3	127.0
Stuttgart, Ark.	132.8	130.9	129.8	125.3	127.5	130.4
Bixby, Okla.	130.6	130.0	127.4	124.3	126.6	126.8
Mean	132.0	130.7	129.0	125.3	126.4	129.6

Table 11. (Continued)

Location	R46-2076	L4-6290	D517-4	D623-9	D623-33	D632-15
			OIL PERCENTAGE			
Petersburg, Va.	19.1	20.9	20.8	21.1	21.3	21.8
Knoxville, Tenn.	20.7	21.3	21.5	21.3	22.1	21.5
Sikeston, Mo.	18.9	20.8	20.2	20.7	21.2	20.8
Jackson, Tenn.	19.4	20.5	21.3	20.9	21.7	20.4
Stoneville, Miss. (A)	20.4	22.1	21.9	23.0	23.1	22.3
Stoneville, Miss. (B)	20.6	22.1	21.5	22.4	22.5	21.5
Stuttgart, Ark.	20.7	22.1	21.7	22.1	22.8	21.7
Bixby, Okla.	20.6	21.7	20.4	22.7	22.4	21.4
Mean	20.0	21.4	21.2	21.8	22.1	21.4
			PROTEIN PERCENTAGE			
Petersburg, Va.	45.0	41.6	44.1	40.4	43.5	39.3
Knoxville, Tenn.	40.2	40.1	41.7	38.8	39.5	37.3
Sikeston, Mo.	42.0	40.7	44.0	39.6	41.3	39.6
Jackson, Tenn.	41.6	40.0	42.6	39.6	40.4	40.5
Stoneville, Miss. (A)	43.4	40.4	42.6	39.1	41.6	39.8
Stoneville, Miss. (B)	42.8	40.9	43.6	38.8	41.4	38.6
Stuttgart, Ark.	43.0	40.8	44.2	41.9	41.3	39.7
Bixby, Okla.	38.6	36.3	42.1	34.1	35.1	35.5
Mean	42.1	40.1	43.1	39.0	40.5	38.8
			IODINE NO. OF THE OIL			
Petersburg, Va.	137.8	133.9	129.2	136.6	126.8	132.6
Knoxville, Tenn.	136.9	133.8	129.3	136.0	130.6	133.3
Sikeston, Mo.	138.2	134.4	130.5	136.5	127.9	133.3
Jackson, Tenn.	135.4	132.2	130.1	134.6	127.5	131.4
Stoneville, Miss. (A)	134.4	131.8	129.8	135.8	126.9	129.1
Stoneville, Miss. (B)	134.1	130.9	128.4	137.3	127.5	131.6
Stuttgart, Ark.	136.3	134.6	129.9	137.0	130.1	132.3
Bixby, Okla.	134.4	131.0	127.0	133.7	129.9	130.5
Mean	135.9	132.8	129.3	135.9	128.4	131.8

Table 12. Relative maturity data, days earlier (-) or later (+) than S-100, for the strains in Uniform Group V, 1950

Location	Date Planted	S-100 Matured	D514-20	D517-3	D523-25	D523-30	R46-2062
			EAST COAST				
Warsaw, Va.	5-22	10-15	+9	+7	+3	+2	+6
Petersburg, Va.	5-10	10-10	-2	0	-4	-8	0
Plymouth, N. C.	5-10	9-28	+7	0	0	-2	-2
Mean			+7	+2	0	-3	+1
			UPPER AND CENTRAL SOUTH				
Experiment, Ga.	5-10	9-25	-5	-2	-2	-5	-1
Knoxville, Tenn.	5-15	10-6	+10	+2	+10	+10	+8
State College, Miss.	5-18	9-19	+9	+2	+7	+2	+1
Mean			+5	+1	+5	+2	+3
			DELTA				
Sikeston, Mo.	5-18	10-6	+7	+5	+6	+4	+1
Deering, Mo.	6-17	10-22	+5	+4	+5	+3	0
Jackson, Tenn.	5-17	10-7	+7	+3	+3	+1	+1
Marianna, Ark.	5-18	9-26	+4	-1	+3	0	+3
Stoneville, Miss.(A)	5-8	9-18	+3	0	0	0	-1
Stoneville, Miss.(B)	4-24	9-15	0	-2	+1	0	0
St. Joseph, La.	5-19	9-10	+10	-9	+9	0	+7
Baton Rouge, La.	6-14	9-25	0	-3	-5	-5	0
Mean			+4	0	+3	0	+1
			WEST				
Stillwater, Okla.	5-22	9-25	+4	+4	+6	+1	+9
Bixby, Okla.	5-23	10-2	+6	-1	+5	-5	+5
Fayetteville, Ark.	5-9	10-1	+2	0	0	0	0
Stuttgart, Ark.	5-25	10-18	-11	0	-11	-11	0
Denton, Texas	5-26	9-11	-9	-1	0	-2	+2
Lubbock, Texas	6-15	10-5	0	0	+6	0	0
Curtis, La.	5-25	9-24	+2	-2	+3	+1	+4
College Sta., Texas	5-8	10-3	-	-22	+3	+8	+4
Mean			-1	-3	+1	-1	+3

Table 12. (Continued)

Location	R46-2076	L4-6290	D517-4	D623-9	D623-33	D632-15
			EAST COAST			
Warsaw, Va.	+10	+5	+6	+3	-10	-2
Petersburg, Va.	-4	+4	-4	-2	-8	-6
Plymouth, N. C.	+7	+7	0	0	-2	-2
Mean	+4	+5	+1	0	-7	-3
			UPPER AND CENTRAL SOUTH			
Experiment, Ga.	-5	+5	-3	-4	-5	-4
Knoxville, Tenn.	+6	+9	+5	+3	-7	+4
State College, Miss.	+2	+8	+2	+7	0	+1
Mean	+1	+7	+1	+2	-4	0
			DELTA			
Sikeston, Mo.	+7	+10	+6	+5	+4	+4
Deering, Mo.	+8	+12	+5	+6	+3	+4
Jackson, Tenn.	+5	+7	+1	+1	+1	+I
Marianna, Ark.	+5	+21	0	+1	-3	+2
Stoneville, Miss. (A)	+1	+6	0	+2	-2	0
Stoneville, Miss. (B)	0	+3	-2	0	0	0
St. Joseph, La.	-	+10	-9	-9	+7	-9
Baton Rouge, La.	-	+3	+2	-5	-2	-5
Mean	+4	+9	+1	0	+1	0
			WEST			
Stillwater, Okla.	+10	+15	+2	+4	-6	0
Bixby, Okla.	+8	+9	+4	-4	-9	-3
Fayetteville, Ark.	0	0	0	0	0	0
Stuttgart, Ark.	0	0	0	-11	-11	0
Denton, Texas	+3	+9	+7	-1	+4	-6
Lubbock, Texas	+4	+15	0	0	0	0
Curtis, La.	-	+6	-2	0	-2	-4
College Sta., Texas	-2	-	-15	-22	-10	+6
Mean	+3	+8	-1	-4	-4	-1

Table 13. Mean plant height of strains in Uniform Group V, 1950

Location	S-100	D514-20	D517-3	D523-25	D523-30	R46-2062
			EAST COAST			
Warsaw, Va.	37	35	34	38	36	35
Petersburg, Va.	45	43	43	38	44	44
Plymouth, N. C.	45	43	44	43	46	42
Mean	42	40	40	40	42	40
			UPPER AND CENTRAL SOUTH			
Experiment, Ga.	29	27	27	30	32	29
Knoxville, Tenn.	46	51	45	51	48	50
Mean	38	39	36	40	40	40
			DELTA			
Sikeston, Mo.	47	43	41	51	62	47
Deering, Mo.	31	29	28	31	30	27
Jackson, Tenn.	49	43	44	48	49	47
Clarkedale, Ark.	47	45	42	44	50	43
Marianna, Ark.	41	41	40	46	49	43
Stoneville, Miss. (A)	47	48	44	48	47	46
Stoneville, Miss. (B)	51	48	41	50	44	45
St. Joseph, La.	38	40	38	38	38	42
Baton Rouge, La.	40	42	35	34	38	42
Mean	43	42	39	43	45	42
			WEST			
Stillwater, Okla.	46	40	38	42	47	44
Bixby, Okla.	52	46	46	50	51	50
Fayetteville, Ark.	43	40	41	45	45	38
Stuttgart, Ark.	31	27	29	36	33	29
Denton, Texas	31	31	26	31	32	34
Lubbock, Texas	23	17	15	23	21	15
Curtis, La.	45	42	33	43	42	46
College Station, Texas	38	-	30	37	35	33
Mean	39	35	32	38	38	36

Table 13. (Continued)

Location	R46-2076	L4-6290	D517-4	D623-9	D623-33	D632-15
			EAST COAST			
Warsaw, Va.	36	44	32	30	36	37
Petersburg, Va.	37	56	42	30	42	42
Plymouth, N. C.	47	57	43	41	47	42
Mean	40	52	39	34	42	40
			UPPER ANC CENTRAL SOUTH			
Experiment, Ga.	30	40	28	30	31	36
Knoxville, Tenn.	48	67	49	44	52	48
Mean	39	54	38	37	42	42
			DELTA			
Sikeston, Mo.	51	60	46	46	50	43
Deering, Mo.	35	38	25	29	28	32
Jackson, Tenn.	53	58	46	48	51	55
Clarkedale, Ark.	44	55	42	44	47	47
Marianna, Ark.	50	60	42	37	44	47
Stoneville, Miss. (A)	46	54	41	35	49	43
Stoneville, Miss. (B)	46	66	37	37	45	43
St. Joseph, La.	-	46	38	28	38	32
Baton Rouge, La.	-	64	38	36	41	40
Mean	46	56	39	38	44	42
			WEST			
Stillwater, Okla.	48	61	40	34	48	42
Bixby, Okla.	52	64	44	32	53	43
Fayetteville, Ark.	36	62	38	34	48	40
Stuttgart, Ark.	33	45	27	25	32	35
Denton, Texas	31	36	27	29	29	32
Lubbock, Texas	20	25	15	16	18	22
Curtis, La.	-	55	36	34	44	42
College Station, Texas	37	-	29	25	36	32
Mean	37	50	32	29	38	36

Table 14. Lodging scores for strains in Uniform Group V, 1950

Location	S-100	D514-20	D517-3	D523-25	D523-30	R46-2062
			EAST COAST			
Warsaw, Va.	2.0	3.0	2.0	2.5	2.5	2.5
Petersburg, Va.	1.0	2.0	1.0	2.0	1.0	2.0
Plymouth, N. C.	3.5	3.0	2.5	3.0	3.0	3.0
			UPPER AND CENTRAL SOUTH			
Experiment, Ga.	1.0	1.0	1.0	2.0	1.0	1.0
Knoxville, Tenn.	2.0	3.2	1.0	1.2	3.8	1.2
State College, Miss.	1.0	3.0	1.0	2.0	2.0	1.0
			DELTA			
Sikeston, Mo.	2.5	2.8	2.3	2.3	3.0	2.3
Deering, Mo.	1.5	2.5	1.0	1.5	1.5	1.0
Jackson, Tenn.	2.6	4.6	3.4	4.0	4.4	2.8
Marianna, Ark.	2.0	4.0	3.0	2.0	3.0	2.0
Stoneville, Miss. (A)	3.0	4.0	3.0	3.0	4.0	2.3
Stoneville, Miss. (B)	3.0	3.3	3.0	3.0	3.7	2.7
St. Joseph, La.	1.0	4.0	4.0	1.0	2.0	4.0
Baton Rouge, La.	2.0	2.0	2.0	1.0	2.0	2.0
			WEST			
Stillwater, Okla.	2.0	3.0	2.0	2.0	3.0	2.0
Bixby, Okla.	3.0	4.0	3.0	3.0	4.0	3.0
Fayetteville, Ark.	2.0	2.0	2.0	2.0	3.0	2.0
Stuttgart, Ark.	2.0	1.0	2.0	1.0	2.0	4.0
Denton, Texas	1.0	1.0	1.0	1.0	1.0	1.0
Curtis, La.	3.0	4.0	1.0	3.0	3.0	3.0
College Sta., Texas	1.0	-	1.0	2.0	1.0	1.0

Table 14. (Continued)

Location	R46-2076	L4-6290	D517-4	D623-9	D623-33	D632-15
		EAST COAST				
Warsaw, Va.	3.0	3.0	2.0	2.5	3.0	3.5
Petersburg, Va.	2.0	1.0	1.0	3.0	2.0	3.0
Plymouth, N. C.	3.0	3.0	2.0	3.0	3.0	4.0
		UPPER AND CENTRAL SOUTH				
Experiment, Ga.	2.0	3.0	1.0	3.0	2.0	3.0
Knoxville, Tenn.	1.0	2.0	1.2	1.2	1.2	3.5
State College, Miss.	1.0	3.0	1.0	2.0	3.0	2.0
		DELTA				
Sikeston, Mo.	2.3	3.5	2.5	4.3	3.5	3.5
Deering, Mo.	1.5	2.5	1.0	2.0	1.0	2.0
Jackson, Tenn.	3.8	4.0	3.6	4.6	3.6	4.4
Marianna, Ark.	2.0	2.0	2.0	3.0	3.0	3.0
Stoneville, Miss. (A)	2.7	4.3	2.7	2.0	3.3	3.0
Stoneville, Miss. (B)	3.0	3.7	3.0	2.0	3.7	3.0
St. Joseph, La.	-	4.0	2.0	2.0	4.0	2.0
Baton Rouge, La.	-	3.0	2.0	2.0	2.0	3.0
		WEST				
Stillwater, Okla.	2.0	3.0	3.0	2.0	3.0	4.0
Bixby, Okla.	3.0	4.0	3.0	2.0	3.0	4.0
Fayetteville, Ark.	4.0	3.0	1.0	2.0	1.0	2.0
Stuttgart, Ark.	3.0	2.0	2.0	2.0	2.0	2.0
Denton, Texas	1.0	1.0	1.0	1.0	1.0	1.0
Curtis, La.	-	3.0	2.0	2.0	2.0	3.0
College Sta., Texas	2.0	-	1.0	1.0	1.0	1.0

Table 15. Seed Quality scores for the strains in Uniform Group V, 1950

Location	S-100	D514-20	D517-3	D523-25	D523-30	R46-2062
		EAST COAST				
Warsaw, Va.	2.0	1.0	1.0	1.0	2.0	4.0
Petersburg, Va.	2.0	2.0	3.0	1.0	2.0	4.0
Holland, Va.	4.0	4.0	2.0	2.0	3.0	4.0
Plymouth, N. C.	4.0	4.0	3.0	2.0	3.0	5.0
		UPPER AND CENTRAL SOUTH				
Knoxville, Tenn.	1.0	1.0	1.0	1.0	1.0	2.5
		DELTA				
Sikeston, Mo.	2.0	1.0	1.0	1.0	1.0	2.0
Deering, Mo.	1.0	1.0	1.3	1.0	1.0	1.3
Jackson, Tenn.	1.0	1.0	1.0	1.2	1.2	1.2
Clarkedale, Ark.	4.0	2.0	3.0	3.0	3.0	4.0
Marianna, Ark.	3.0	2.0	2.0	2.0	2.0	3.0
Stoneville, Miss. (A)	3.0	1.7	3.0	2.0	2.0	3.7
Stoneville, Miss. (B)	3.3	2.0	3.0	2.0	3.0	4.0
St. Joseph, La.	4.0	2.0	2.0	3.0	3.0	2.0
Baton Rouge, La.	3.0	2.0	1.0	3.0	3.0	3.0
		WEST				
Stillwater, Okla.	2.0	2.0	2.0	2.0	2.0	2.0
Bixby, Okla.	2.0	2.0	3.0	2.0	3.0	4.0
Fayetteville, Ark.	2.0	2.0	2.0	2.0	2.0	2.0
Stuttgart, Ark.	2.0	1.0	2.0	1.0	2.0	4.0
Curtis, La.	1.0	2.0	2.0	1.0	1.0	3.0
College Station, Texas	3.0	-	3.0	5.0	5.0	4.0

Table 15. (Continued)

Location	R46-2076	L4-6290	D517-4	D623-9	D623-33	D632-15
		EAST COAST				
Warsaw, Va.	4.0	1.0	1.0	1.0	2.0	1.0
Petersburg, Va.	4.0	2.0	3.0	2.0	3.0	1.0
Holland, Va.	2.0	4.0	1.0	2.0	2.0	2.0
Plymouth, N. C.	3.0	5.0	2.0	2.0	3.0	2.0
		UPPER AND CENTRAL SOUTH				
Knoxville, Tenn.	3.0	1.0	1.0	1.0	1.0	1.0
		DELTA				
Sikeston, Mo.	1.5	1.3	1.0	1.0	1.0	1.0
Deering, Mo.	1.8	2.0	1.0	1.0	1.0	1.8
Jackson, Tenn.	1.5	1.2	1.0	1.2	1.0	1.0
Clarkedale, Ark.	4.0	3.0	3.0	2.0	3.0	3.0
Marianna, Ark.	4.0	2.0	2.0	2.0	2.0	3.0
Stoneville, Miss. (A)	2.7	2.0	2.3	1.0	2.0	1.0
Stoneville, Miss. (B)	3.0	2.0	3.0	2.0	2.3	2.0
St. Joseph, La.	-	3.0	2.0	2.0	2.0	2.0
Baton Rouge, La.	-	3.0	1.0	2.0	2.0	1.0
		WEST				
Stillwater, Okla.	2.0	2.0	2.0	1.0	1.0	2.0
Bixby, Okla.	3.0	2.0	3.0	1.0	2.0	1.0
Fayetteville, Ark.	2.0	2.0	2.0	2.0	2.0	2.0
Stuttgart, Ark.	3.0	2.0	2.0	2.0	2.0	2.0
Curtis, La.	-	2.0	2.0	1.0	2.0	1.0
College Station, Texas	3.0	-	3.0	2.0	4.0	5.0

Table 16. Mean seed weight, in grams per 100 seeds, for the strains in Uniform Group V, 1950

Location	S-100	D514-20	D517-3	D523-25	D523-30	R46-2062
			EAST COAST			
Warsaw, Va.	14.0	17.0	20.5	19.0	18.0	18.5
Petersburg, Va.	17.0	18.0	23.0	23.0	20.0	21.0
Holland, Va.	18.8	18.4	21.6	20.8	19.9	21.1
Plymouth, N. C.	15.7	16.8	18.8	19.5	17.5	17.5
Mean	16.4	17.6	21.0	20.6	18.8	19.5
			UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	14.4	16.6	18.4	18.6	16.6	17.2
			DELTA			
Sikeston, Mo.	13.7	16.6	18.7	17.9	15.7	18.2
Deering, Mo.	14.7	15.2	19.6	17.0	16.2	19.2
Jackson, Tenn.	15.6	17.0	18.2	19.6	18.2	17.3
Stoneville, Miss. (A)	16.0	15.3	18.1	18.1	16.9	17.0
Stoneville, Miss. (B)	17.0	17.0	19.7	19.6	18.6	21.1
Mean	15.4	16.2	18.9	18.4	17.1	18.6
			WEST			
Stillwater, Okla.	11.8	12.3	14.6	14.9	15.4	14.8
Bixby, Okla.	15.2	15.4	19.4	17.0	15.2	18.8
Stuttgart, Ark.	16.4	16.8	19.0	19.1	17.8	19.0
Denton, Texas	12.5	11.5	12.9	15.6	15.4	14.4
Lubbock, Texas	15.0	14.0	16.0	15.0	14.0	16.0
College Station, Texas	12.0	-	12.0	15.0	8.0	12.0
Mean	13.8	14.0	15.6	16.1	14.3	15.8

Table 16. (Continued)

Location	R46-2076	L4-6290	D517-4	D623-9	D623-33	D632-15
			EAST COAST			
Warsaw, Va.	15.0	13.5	21.0	14.0	15.0	12.5
Petersburg, Va.	20.0	19.0	23.0	16.0	20.0	14.0
Holland, Va.	19.8	17.0	13.0	14.8	18.1	13.2
Plymouth, N. C.	17.2	14.0	19.8	13.6	14.8	11.4
Mean	18.0	15.9	19.2	14.6	17.0	12.8
			UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	15.2	15.1	19.1	14.1	13.7	10.8
			DELTA			
Sikeston, Mo.	17.8	14.3	20.3	12.8	15.9	12.8
Deering, Mo.	17.2	14.6	19.6	15.1	16.0	11.4
Jackson, Tenn.	18.9	15.2	18.6	18.8	16.9	15.6
Stoneville, Miss. (A)	16.7	15.1	19.0	13.2	14.2	12.2
Stoneville, Miss. (B)	19.6	14.6	19.1	14.1	17.1	13.6
Mean	18.0	14.8	19.3	14.8	16.0	13.1
			WEST			
Stillwater, Okla.	15.0	13.1	14.3	10.7	12.0	8.9
Bixby, Okla.	18.5	15.2	20.2	12.8	12.8	12.9
Stuttgart, Ark.	18.1	16.4	18.8	15.6	16.7	13.5
Denton, Texas	15.7	13.7	15.0	12.5	15.0	12.3
Lubbock, Texas	16.0	14.0	15.0	14.0	15.0	14.0
College Station, Texas	11.0	-	16.0	12.0	12.0	9.0
Mean	15.7	14.5	16.6	12.9	13.9	11.8

Table 17. Two-year summary of yield and oil content for strains in Uniform Group V, 1949-50

Location	S-100	D514-20	D517-3	D523-25
		YIELD		
		East Coast		
Petersburg, Va.	36.9	39.9	43.0	46.9
Norfolk, Va.	33.7	31.6	32.7	32.0
Holland, Va.	37.1	35.2	37.1	39.9
Plymouth, N. C.	27.1	32.6	30.2	29.5
Mean	33.7	34.8	35.8	37.0
		Upper and Central South		
Experiment, Ga.	24.2	27.8	26.7	28.2
Knoxville, Tenn.	31.9	27.7	30.9	33.7
State College, Miss.	35.8	35.8	31.3	32.9
Mean	30.6	30.4	29.6	31.6
		Delta		
Sikeston, Mo.	35.3	35.6	34.5	34.4
Jackson, Tenn.	37.8	40.2	35.2	38.4
Marianna, Ark.	22.9	25.0	23.8	24.7
Stoneville, Miss.	34.0	34.0	31.7	38.4
St. Joseph, La.	32.6	41.2	29.9	37.0
Baton Rouge, La.	22.7	23.7	22.0	22.3
Mean	30.9	33.3	29.5	32.5
		West		
Bixby, Okla.	30.7	27.9	28.0	27.6
Stillwater, Okla.	24.6	20.7	19.8	20.1
Stuttgart, Ark.	22.2	20.2	23.4	22.4
Curtis, La.	32.0	31.6	22.9	30.7
Denton, Texas[1]	12.5	11.8	9.1	10.0
Lubbock, Texas	25.2	25.6	19.9	25.8
College Station, Texas[1]	17.4	-	17.1	18.8
Mean	26.9	25.2	22.8	25.3
		OIL PERCENTAGE		
Petersburg, Va.	19.0	20.9	20.3	20.0
Knoxville, Tenn.	20.0	21.7	21.8	20.9
Sikeston, Mo.	18.8	20.6	19.5	19.5
Stoneville, Miss.	19.9	22.4	20.8	21.6
Stuttgart, Ark.	19.9	21.5	20.2	21.0
Bixby, Okla.	20.0	21.4	20.0	21.3
Mean	19.6	21.4	20.4	20.7

[1] Not included in the mean.

Table 17. (Continued)

Location	D523-30	R46-2062	R46-2076	L4-6290
		YIELD		
		East Coast		
Petersburg, Va.	39.8	39.6	39.4	39.6
Norfolk, Va.	30.1	31.9	33.9	31.3
Holland, Va.	37.1	37.6	33.2	37.4
Plymouth, N. C.	32.1	29.7	29.1	30.3
Mean	34.8	34.7	33.9	34.7
		Upper and Central South		
Experiment, Ga.	26.5	23.8	25.5	33.2
Knoxville, Tenn.	31.5	31.0	25.6	32.9
State College, Miss.	29.8	28.0	29.7	30.9
Mean	29.3	27.6	26.9	32.3
		Delta		
Sikeston, Mo.	33.6	34.2	31.7	31.6
Jackson, Tenn.	36.6	34.0	34.5	37.1
Marianna, Ark.	24.3	26.2	22.2	25.8
Stoneville, Miss.	33.6	31.8	33.6	30.3
St. Joseph, La.	36.6	34.3	-	32.3
Baton Rouge, La.	17.1	18.8	-	17.9
Mean	30.3	29.9	30.5	29.2
		West		
Bixby, Okla.	25.2	23.6	26.2	27.4
Stillwater, Okla.	22.6	21.6	19.4	17.2
Stuttgart, Ark.	21.2	24.7	22.6	24.4
Curtis, La.	21.3	29.0	-	27.9
Denton, Texas[1/]	9.5	8.6	9.6	8.6
Lubbock, Texas	23.6	22.5	27.0	28.7
College Station, Texas[1/]	15.8	14.9	14.9	-
Mean	22.8	24.3	23.8	25.1
		OIL PERCENTAGE		
Petersburg, Va.	20.1	20.9	19.2	20.7
Knoxville, Tenn.	21.2	22.3	20.7	22.1
Sikeston, Mo.	19.3	21.1	18.6	20.6
Stoneville, Miss.	20.9	22.5	20.3	21.9
Stuttgart, Ark.	20.6	22.7	20.4	21.8
Bixby, Okla.	21.7	21.0	20.3	21.6
Mean	20.6	21.8	19.9	21.5

Table 18. Three-year summary of yield and oil content for strains in Uniform Group V, 1948-50

Location	S-100	D514-20	D517-3
	YIELD		
	East Coast		
Petersburg, Va.	37.7	41.9	42.5
Norfolk, Va.	26.5	25.4	27.3
Holland, Va.	37.4	36.2	39.3
Plymouth, N. C.	31.6	33.9	31.8
Mean	33.3	34.5	35.2
	Upper and Central South		
Knoxville, Tenn.	28.9	24.5	27.2
State College, Miss.	33.8	32.2	29.1
Mean	31.3	28.3	28.1
	Delta		
Sikeston, Mo.	30.2	27.8	29.9
Jackson, Tenn.	31.4	32.6	31.0
Marianna, Ark.	21.2	24.3	22.7
Stoneville, Miss.	30.0	30.8	29.2
St. Joseph, La.	37.8	40.2	28.4
Mean	30.1	31.1	28.2
	West		
Stillwater, Okla.	24.7	20.7	16.8
Stuttgart, Ark.	21.3	19.0	20.0
Curtis, La.	26.7	29.6	19.3
Lubbock, Texas	23.0	23.6	19.1
Mean	23.9	23.2	18.8
	OIL PERCENTAGE		
Petersburg, Va.	19.0	21.0	20.4
Knoxville, Tenn.	19.1	20.7	20.4
Stoneville, Miss.	20.1	22.3	21.0
Stuttgart, Ark.	19.8	21.6	20.7
Mean	19.5	21.4	20.6

UNIFORM GROUP VI, 1950

UNIFORM GROUP VI, 1950

Strain or Variety	Source or Originating Agency	Origin
Ogden	Tenn. Agr. Exp. Sta.	Sel. from Tokio x P.I. 54610
Dortchsoy #2	Robert Dortch Seed Co. Scott, Arkansas	Sel. from Ogden
Hale Ogden #2	George Hale, Blytheville, Ark.	Sel. from Ogden
Arksoy 2913	Ark. Agr. Exp. Sta.	Sel. from Arksoy
D517-14	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Arksoy x Patoka
D540-1	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Ogden x Arksoy
N45-2885	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Haberlandt x Ogden
N45-2994	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Ralsoy x Ogden
OK 710	Okla. A.E.S. & U.S.R.S.L.	Sel. from Chief x Arksoy
N46-1703	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate x Ogden
N46-2566	N. Car. A.E.S. & U.S.R.S.L.	Sel. from S-100 x CNS

Thirty-six Group VI nurseries were planted. Results from 34 of these nurseries are summarized in tables 18 through 25. The two nurseries not harvested were at Headland, Alabama, and Quincy, Florida, where plantings were made for the first time. In 23 of these plantings, the yield of Ogden, the check variety, was over 30 bushels per acre. The mean yield of Ogden in each production area was over 30 bushels per acre.

Ogden is the most widely grown soybean variety in the Southern States. This variety is well adapted in the Tidewater area of Virginia and North Carolina, and in the Delta section of Missouri, Tennessee, Arkansas, Mississippi, and Louisiana. In these areas, it matures in early October if planted during May. It is also widely grown in the Gulf Coast section of Alabama and Florida. Here it frequently follows an early crop such as potatoes, or some other truck crop. Ogden is an excellent variety from the standpoint of growth habit, seed yield, and chemical composition of the seed. Its main faults are in seed holding and in seed quality. Under most conditions, Ogden will hold its seed satisfactorily for 14 to 18 days after reaching combine maturity. Under some conditions, the seed quality is lower than is desired. However, in 1950, seed quality was generally good.

Dortchsoy #2 is a selection from Ogden, which is very similar to Ogden in all respects. In the two- and three-year summaries, tables 26 to 29, it can be seen that the seed yield and oil content of these two strains is very similar.

Hale Ogden #2 is also a selection from Ogden. This strain has been grown on a regional basis for two years. Its performance has been very similar to Ogden.

Arksoy 2913 has consistently given lower seed yields than Ogden during the eight years that these trials have been conducted. In addition to giving lower seed yields, seed of Arksoy 2913 is lower in oil content. Arksoy does have excellent seed-holding properties.

Two strains, N45-2885 and N45-2994, have each been grown in the regional plantings for four years. While both strains have good seed-holding properties, neither has been as consistent a producer of high seed yields as Ogden. N45-2994 has yielded well in the Southeast and at the western locations. However, at several locations in the Delta area, the seed yield has been reduced appreciably in 1949 and 1950 because of high susceptibility to the leaf disease, target spot (Helminthosporium vignicola). Both N45-2885 and N45-2994 have lower oil content than Ogden. It does not appear that either of these strains merits further testing on a regional basis.

The strains, D517-14 and D540-1, have each been grown for three years. Both strains hold their seed very well. D517-14 is a taller type than Ogden, and lodges more. It has higher oil content, but gives appreciably lower seed yields. D540-1 is quite similar to Ogden in plant type and maturity, but has lower oil content. Neither of these two strains appears to merit consideration for release in any area.

OK 710 has a mean yield below that of Ogden at each of the 23 locations where two-year data is available. It has yielded significantly less than Ogden in 43 of the 72 comparisons conducted during the two years. On the basis of these results, there does not appear to be any need for additional testing of OK 710.

N46-1703 and N46-2566, which were grown on a regional basis for the first time, gave seed yields quite comparable to Ogden. N46-1703 is similar to Ogden in many respects, but has yellow seed coat and has better seed-holding qualities. However, it is more susceptible to the leaf diseases bacterial pustule and wildfire than Ogden.

N46-2566 carries the CNS type resistance to bacterial pustule and wildfire. In addition to yielding well, this strain stands well, has heavy foliage, and holds its seed extremely well. The mean oil content of N46-2566 was 0.6 percent below that of Ogden for the ten locations from which chemical analysis was determined.

Table 19. Yield, in bushels per acre for the strains in Uniform Group VI, 1950

Location	Ogden	Dortchsoy #2	Hale Ogden 2	Arksoy 2913	D517-14	D540-1
			EAST COAST			
Warsaw, Va.	29.0	28.2	28.6	25.8	25.8	26.6
Petersburg, Va.	45.0	46.2	43.9	32.7-	34.8-	41.6
Holland, Va.	39.8	35.7	40.2	38.1	41.2	38.4
Plymouth, N. C.	42.8	39.4	38.9	31.9-	33.6-	41.3
Willard, N. C.	47.8	45.0	49.1	39.5-	40.8-	45.3
McCullers, N. C.	38.8	39.5	40.9	36.4	30.4-	32.3-
Hartsville, S. C.	31.3	36.1	39.0+	31.2	28.0	35.5
Mean	40.6	38.6	40.1	33.7	33.5	37.9
			SOUTHEAST			
Monetta, S. C.	43.9	38.3-	38.3-	27.1-	31.7-	31.4-
Tallassee, Ala.	30.0	28.8	34.3	25.1-	24.4-	33.2
Monticello, Fla.	18.7	17.3	17.8	15.7	14.2	14.6
Marianna, Fla.	30.8	33.7	32.3	27.6	25.8-	32.5
Milton, Fla.	29.8	24.7	38.4+	25.8	26.4	28.9
McKinnonville, Fla.	48.5	44.2	37.2-	45.6	35.1-	42.3
Fairhope, Ala.	20.4	21.2	28.9	18.9	18.2	21.0
Mean	31.7	29.7	32.6	26.5	25.1	29.1
			UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	29.9	32.7	37.5+	25.6	24.4	29.6
Experiment, Ga.	38.2	38.4	39.1	31.9	36.6	37.9
State College, Miss.	30.0	32.1	30.2	19.2-	22.3-	33.2
Mean	32.7	34.4	35.6	25.6	27.8	33.6
			DELTA			
Sikeston, Mo.	38.0	39.5	36.7	29.3-	29.0-	40.6
Deering, Mo.	24.3	23.6	19.7	16.4-	20.1	19.5
Jackson, Tenn.	31.9	36.6	31.5	29.1	27.1	33.8
Clarkedale, Ark.	20.5	20.6	20.2	13.4-	14.7-	17.6
Marianna, Ark.	25.5	25.9	24.9	20.4-	21.3-	24.4
Stoneville, Miss.	56.1	50.5	53.7	36.4-	31.4-	51.5
Louise, Miss.	43.1	44.1	43.6	35.0-	36.1	39.3
St. Joseph, La.	34.6	27.3-	28.9-	31.6	28.1-	37.9
Baton Rouge, La.	29.5	30.3	30.1	24.9-	27.1	27.6
Mean	33.7	33.2	32.1	26.3	26.1	32.5
			WEST			
Stillwater, Okla.	27.8	29.0	27.7	28.0	25.8	29.6
Bixby, Okla.	53.7	52.1	44.2-	38.0-	40.4-	47.1
Fayetteville, Ark.	35.9	30.2	38.7	29.1	31.6	30.2
Stuttgart, Ark.	27.3	22.4-	22.6-	28.2	34.7+	23.8
Tishomingo, Okla.	28.0	24.9	30.9	23.2	24.4	30.3
Chillicothe, Texas 1/	8.3	12.2	14.8	10.7	10.8	12.8
Lubbock, Texas 1/	27.3	28.5	30.0	24.1	28.8	29.1
Curtis, La.	39.9	39.2	36.3	32.7	23.6-	40.5
Mean	35.4	33.0	33.4	29.9	30.1	33.6

(+) - Strains yielding significantly more (odds 19:1 or greater) than Ogden.
(-) - Strains yielding significantly less (odds 19:1 or greater) than Ogden.
1/ - Not included in the mean.

Table 19. (Continued)

Location	N45-2885	N45-2994	OK 710	N46-1703	N46-2566	L.S.D. (5%)	C.V.
			EAST COAST				
Warsaw, Va.	24.6-	25.0-	19.4-	27.4	25.4	4.0	9%
Petersburg, Va.	40.3	36.6	43.0	45.2	34.6-	9.0	17%
Holland, Va.	44.0	48.7+	46.3	35.4	39.5	7.6	13%
Plymouth, N. C.	36.1-	32.9-	27.8-	41.6	38.8	6.1	12%
Willard, N. C.	42.9	37.4-	36.9-	44.0	51.3	6.8	11%
McCullers, N. C.	34.2-	42.8	30.0-	35.1	36.7	4.6	9%
Hartsville, S. C.	33.3	31.6	30.3	32.5	34.7	5.0	9%
Mean	36.5	36.4	33.4	37.3	37.3		
			SOUTHEAST				
Monetta, S. C.	35.8-	37.9-	30.0-	30.8-	35.4-	5.4	11%
Tallassee, Ala.	33.2	26.9	25.7	35.5+	36.3+	4.6	9%
Monticello, Fla.	16.2	17.1	14.9	17.3	15.7	N.S.	11%
Marianna, Fla.	27.9	29.4	26.8-	31.1	33.0	3.8	7%
Milton, Fla.	30.4	27.9	23.8	26.6	31.7	7.4	15%
McKinnonville, Fla.	45.1	49.4	39.9-	38.7-	43.2	5.2	7%
Fairhope, Ala.	18.3	20.1	16.8	17.2	20.5	N.S.	20%
Mean	29.6	29.8	25.4	28.2	30.8		
			UPPER AND CENTRAL SOUTH				
Knoxville, Tenn.	27.8	27.8	22.4-	34.2	29.1	7.0	17%
Experiment, Ga.	34.5	35.7	30.2	32.6	36.5	N.S.	11%
State College, Miss.	29.3	22.0-	25.0-	28.7	28.7	4.0	11%
Mean	30.5	28.5	25.9	31.8	31.4		
			DELTA				
Sikeston, Mo.	31.5-	27.1-	35.8	35.2	33.4-	3.9	8%
Deering, Mo.	23.9	27.0	20.3	23.9	29.4+	5.1	16%
Jackson, Tenn.	33.3	25.0-	23.4-	37.9+	34.1	5.2	13%
Clarkedale, Ark.	17.9	20.3	13.5-	19.7	22.3	3.6	12%
Marianna, Ark.	22.3	23.4	21.3-	26.5	26.5	3.4	8%
Stoneville, Miss.	47.6-	39.1-	37.9-	56.9	48.1	8.2	11%
Louise, Miss.	37.5	38.9	24.6-	40.7	48.5	7.7	12%
St. Joseph, La.	33.8	21.8-	22.3-	27.0-	24.3-	5.5	13%
Baton Rouge, La.	23.7-	26.8	24.0-	29.7	31.7	3.8	10%
Mean	30.2	27.7	24.8	33.0	33.1		
			WEST				
Stillwater, Okla.	24.6-	27.8	22.1-	26.9	31.2+	2.3	6%
Bixby, Okla.	44.6-	38.7-	35.5-	41.2-	45.0-	6.6	10%
Fayetteville, Ark.	37.0	33.4	32.0	38.2	32.6	N.S.	12%
Stuttgart, Ark.	22.2-	30.5	26.0	21.3-	32.8+	4.1	9%
Tishomingo, Okla.	28.9	26.4	21.0-	23.5	30.8	6.1	16%
Chillicothe, Texas[1]	17.2	10.6	11.3	16.8	15.7	N.S.	32%
Lubbock, Texas[1]	29.3	27.1	25.1	26.6	26.5	-	-
Curtis, La.	38.4	29.8-	29.0-	36.0	34.0	7.8	16%
Mean	32.6	31.1	27.6	31.2	34.4		

Table 20. Chemical composition for the strains in Uniform Group VI, 1950

Location	Ogden	Dortchsoy 2	Hale Ogden 2	Arksoy 2913	D517-14
		OIL PERCENTAGE			
Petersburg, Va.	20.3	20.5	20.9	19.8	20.9
Plymouth, N. C.	20.2	20.8	20.4	19.3	21.1
McCullers, N. C.	20.9	20.8	21.0	19.8	21.6
McKinnonville, Fla.	21.9	22.1	22.4	21.4	23.4
Sikeston, Mo.	20.3	20.4	20.5	19.0	20.5
Jackson, Tenn.	21.1	21.3	21.2	20.1	21.3
Stoneville, Miss.	21.4	21.4	21.5	20.7	22.0
Baton Rouge, La.	22.6	23.0	23.3	21.6	23.6
Stuttgart, Ark.	20.3	21.3	20.9	19.8	22.0
Bixby, Okla.	20.9	21.3	21.1	20.1	20.5
Mean	21.0	21.3	21.3	20.2	21.7
		PROTEIN PERCENTAGE			
Petersburg, Va.	41.0	40.2	40.1	42.8	42.0
Plymouth, N. C.	43.6	42.4	42.4	45.9	43.3
McCullers, N. C.	43.5	42.6	42.0	44.9	42.5
McKinnonville, Fla.	41.0	39.7	40.2	40.7	39.7
Sikeston, Mo.	41.5	40.9	40.6	44.4	42.3
Jackson, Tenn.	40.5	39.3	39.3	42.9	41.1
Stoneville, Miss.	41.0	40.6	40.4	41.9	41.9
Baton Rouge, La.	39.9	40.3	39.0	43.5	41.4
Stuttgart, Ark.	41.6	42.7	42.4	45.1	42.2
Bixby, Okla.	38.6	38.5	37.6	40.9	41.6
Mean	41.2	40.7	40.4	43.3	41.8
		IODINE NUMBER OF THE OIL			
Petersburg, Va.	139.4	139.4	139.0	136.9	134.0
Plymouth, N. C.	137.3	138.2	138.0	134.0	131.5
McCullers, N. C.	136.0	136.7	136.5	133.3	131.6
McKinnonville, Fla.	129.3	129.3	129.8	130.2	126.7
Sikeston, Mo.	138.6	138.7	138.7	134.8	131.4
Jackson, Tenn.	137.1	137.1	137.3	132.5	131.5
Stoneville, Miss.	137.1	138.9	138.7	136.3	131.8
Baton Rouge, La.	127.9	129.7	130.3	127.6	125.4
Stuttgart, Ark.	138.0	139.3	139.3	136.2	133.0
Bixby, Okla.	136.7	136.5	137.5	133.9	130.9
Mean	135.7	136.4	136.5	133.6	130.8

Table 20. (Continued)

	D540-1	N45-2885	N45-2994	OK 710	N46-1703	N46-2566
			OIL PERCENTAGE			
Petersburg, Va.	20.5	19.5	19.0	19.9	20.7	19.9
Plymouth, N. C.	19.7	19.3	19.1	19.5	20.4	19.9
McCullers, N. C.	19.2	20.4	19.4	20.3	19.8	20.2
McKinnonville, Fla.	22.2	20.6	21.0	21.1	22.2	21.2
Sikeston, Mo.	19.7	19.8	19.1	19.3	20.5	19.8
Jackson, Tenn.	19.8	19.7	19.5	19.8	21.5	20.2
Stoneville, Miss.	20.6	20.3	20.5	20.8	21.4	21.2
Baton Rouge, La.	21.7	21.3	21.3	21.5	22.6	21.6
Stuttgart, Ark.	19.6	19.7	19.4	20.4	21.0	19.2
Bixby, Okla.	20.2	20.6	19.9	20.5	21.6	20.5
Mean	20.3	20.1	19.8	20.3	21.2	20.4
			PROTEIN PERCENTAGE			
Petersburg, Va.	42.9	41.7	43.4	43.9	42.4	42.8
Plymouth, N. C.	44.1	43.7	45.4	45.8	44.9	44.3
McCullers, N. C.	44.6	42.9	45.1	44.1	45.3	43.4
McKinnonville, Fla.	41.9	39.7	42.3	43.2	42.5	41.4
Sikeston, Mo.	42.3	41.7	44.2	45.0	42.4	43.0
Jackson, Tenn.	41.7	41.1	43.7	43.7	40.4	42.2
Stoneville, Miss.	42.0	41.3	42.0	43.0	42.0	41.2
Baton Rouge, La.	42.1	42.3	43.0	44.3	42.0	42.5
Stuttgart, Ark.	45.3	44.2	45.9	45.1	42.2	45.4
Bixby, Okla.	39.8	37.8	41.1	42.0	37.4	40.7
Mean	42.7	41.6	43.6	44.0	42.2	42.7
			IODINE NUMBER OF THE OIL			
Petersburg, Va.	139.7	138.7	140.9	139.9	137.3	136.2
Plymouth, N. C.	137.4	138.0	141.7	135.9	135.6	133.9
McCullers, N. C.	136.1	136.0	137.3	135.2	134.3	133.4
McKinnonville, Fla.	131.8	131.8	130.1	130.5	128.0	127.6
Sikeston, Mo.	138.8	137.8	137.2	137.5	136.0	134.4
Jackson, Tenn.	139.1	136.7	136.8	137.6	135.3	133.4
Stoneville, Miss.	125.3	139.8	139.8	138.4	137.0	137.2
Baton Rouge, La.	129.5	128.7	130.0	128.3	126.9	126.8
Stuttgart, Ark.	133.0	139.2	138.5	137.6	138.4	135.8
Bixby, Okla.	137.7	137.1	137.2	135.7	135.1	133.4
Mean	134.8	136.4	137.0	135.7	134.4	133.2

Table 21. Relative maturity data, days earlier (-) or later (+) than Ogden, for the strains in Uniform Group VI, 1950

Location	Date Planted	Ogden Matured	Dortchsoy #2	Hale Ogden #2	Arksoy 2913	D517-14
		EAST COAST				
Warsaw, Va.	5-22	10-29	+1	0	-2	+1
Petersburg, Va.	5-10	10-14	+2	-5	0	+4
Plymouth, N. C.	5-10	10-16	0	0	+2	+2
Willard, N. C.	5-9	10-15	0	0	+3	+2
McCullers, N. C.	5-6	10-15	0	0	+1	+1
Mean			+1	-1	+1	+2
		SOUTHEAST				
Monetta, S. C.	5-16	10-10	0	0	0	+2
Tallassee, Ala.	5-27	10-20	0	0	0	0
Monticello, Fla.	6-30	10-7	0	0	0	+7
Marianna, Fla.	6-1	10-2	0	0	0	+7
Milton, Fla.	6-6	10-6	0	+3	+3	+3
McKinnonville, Fla.	6-17	10-7	0	-1	+8	-2
Fairhope, Ala.	6-6	10-10	-4	0	-4	0
Mean			0	0	+1	+2
		UPPER AND CENTRAL SOUTH				
Knoxville, Tenn.	5-15	10-23	-1	+1	+6	+6
Experiment, Ga.	5-10	10-11	-2	-2	+1	+5
State College, Miss.	5-18	10-5	-2	-2	+3	-2
Mean			-2	-1	+3	+3
		DELTA				
Sikeston, Mo.	5-18	10-18	0	0	+1	+2
Deering, Mo.	6-17	11-12	-1	0	-4	-1
Jackson, Tenn.	5-17	10-21	-2	+1	+8	+6
Marianna, Ark.	5-18	10-26	-4	+3	0	+7
Stoneville, Miss.	5-8	10-9	0	0	0	-5
Louise, Miss,	5-19	10-9	0	0	0	0
St. Joseph, La.	5-19	10-4	+1	+3	+8	-3
Baton Rouge, La.	6-14	10-6	0	+2	-5	+1
Mean			-1	+1	+1	+1
		WEST				
Stillwater, Okla.	5-22	10-16	0	0	-2	0
Bixby, Okla.	5-23	10-17	0	-1	+1	+5
Fayetteville, Ark.	5-9	10-17	0	0	+1	+14
Stuttgart, Ark.	5-25	10-20	0	0	0	+3
Tishomingo, Okla.	5-25	10-15	0	0	-1	+2
Lubbock, Texas	6-15	10-30	0	0	-10	0
Curtis, La.	5-25	10-16	0	0	+2	-2
Mean			0	0	-1	+3

Table 21. (Continued)

Location	D540-1	N45-2885	N45-2994	OK 710	N46-1703	N46-2566
			EAST COAST			
Warsaw, Va.	-4	0	0	-4	+1	-2
Petersburg, Va.	-5	0	+8	-1	-1	+9
Plymouth, N. C.	-2	-2	+2	0	-1	0
Willard, N. C.	0	0	+3	-2	0	+3
McCullers, N. C.	-2	0	+6	-3	-1	+2
Mean	-3	0	+4	-2	0	+2
			SOUTHEAST			
Monetta, S. C.	0	0	+6	0	0	0
Tallassee, Ala.	0	0	0	0	0	0
Monticello, Fla.	0	0	+7	-7	-7	+7
Marianna, Fla.	0	0	+10	-7	-7	+7
Milton, Fla.	0	0	+6	0	+3	0
McKinnonville, Fla.	+1	+1	-1	+12	+1	0
Fairhope, Ala.	-4	-4	0	-4	-4	-4
Mean	0	0	+4	-1	-2	+1
			UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	+3	+4	+5	0	+4	+9
Experiment, Ga.	-3	-2	+2	+2	0	+3
State College, Miss.	+3	+5	+7	-4	-4	+4
Mean	+1	+2	+5	-1	0	+5
			DELTA			
Sikeston, Mo.	-3	+5	+3	-14	-2	0
Deering, Mo.	-3	-1	+3	-8	-4	-3
Jackson, Tenn.	+2	+7	+10	0	+5	+9
Marianna, Ark.	+5	-4	+4	0	+5	+8
Stoneville, Miss.	0	0	+3	-6	0	+3
Louise, Miss.	0	+3	+3	-3	0	+3
St. Joseph, La.	+10	+10	+11	+3	+4	+12
Baton Rouge, La.	-1	-6	+4	-5	0	+4
Mean	+1	+2	+15	-4	+1	+15
			WEST			
Stillwater, Okla.	-3	0	+2	-7	-1	+1
Bixby, Okla.	-2	+3	+5	-3	-1	+3
Fayetteville, Ark.	0	0	+2	0	0	+2
Stuttgart, Ark.	0	0	0	0	0	0
Tishomingo, Okla.	0	-3	0	0	0	0
Lubbock, Texas	0	-5	0	-15	0	0
Curtis, La.	+4	+2	+2	0	+2	+6
Mean	0	0	+2	-3	0	+2

Table 22. Height data for the strains in Uniform Group VI, 1950

Location	Ogden	Dortchsoy #2	Hale Ogden 2	Arksoy 2913	D517-14	D540-1
			EAST COAST			
Warsaw, Va.	34	36	32	31	39	31
Petersburg, Va.	36	38	36	34	47	36
Plymouth, N. C.	39	39	39	37	47	37
Willard, N. C.	42	42	41	42	50	43
McCullers, N. C.	34	35	34	34	48	35
Mean	37	38	36	36	46	36
			SOUTHEAST			
Monetta, S. C.	30	30	30	28	38	28
Tallassee, Ala.	34	36	36	35	49	38
Monticello, Fla.	20	19	19	23	21	21
Marianna, Fla.	24	25	22	25	43	25
Milton, Fla.	25	24	26	27	36	23
McKinnonville, Fla.	33	33	34	34	31	29
Fairhope, Ala.	28	29	28	26	32	28
Mean	28	28	28	28	36	27
			UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	42	45	40	39	56	40
Experiment, Ga.	27	29	29	28	33	27
Mean	35	37	35	34	45	34
			DELTA			
Sikeston, Mo.	46	46	46	42	48	39
Deering, Mo.	28	25	23	21	26	23
Jackson, Tenn.	45	40	41	37	55	39
Clarkedale, Ark.	45	42	41	39	35	43
Marianna, Ark.	40	37	37	36	48	39
Stoneville, Miss.	37	37	38	33	51	38
Louise, Miss.	32	34	34	34	38	34
St. Joseph, La.	23	22	22	26	45	27
Baton Rouge, La.	30	30	33	30	40	32
Mean	36	35	35	33	43	35
			WEST			
Stillwater, Okla.	36	37	37	34	46	34
Bixby, Okla.	39	38	36	35	51	37
Fayetteville, Ark.	30	30	33	34	50	30
Stuttgart, Ark.	32	30	30	34	38	31
Tishomingo, Okla.	30	28	32	34	40	33
Chillicothe, Texas	17	23	26	14	21	25
Lubbock, Texas	22	19	23	19	31	26
Curtis, La.	30	30	28	34	48	31
Mean	30	29	31	30	41	31

Table 22. (Continued)

Location	N45-2885	N45-2994	OK 710	N46-1703	N46-2566
		EAST COAST			
Warsaw, Va.	38	38	38	30	30
Petersburg, Va.	38	42	46	44	33
Plymouth, N. C.	40	42	47	38	37
Willard, N. C.	45	47	51	38	41
McCullers, N. C.	36	41	48	34	32
Mean	39	42	46	37	35
		SOUTHEAST			
Monetta, S. C.	32	34	38	30	28
Tallassee, Ala.	41	43	48	30	30
Monticello, Fla.	21	23	19	18	18
Marianna, Fla.	28	32	40	21	26
Milton, Fla.	33	33	32	21	23
McKinnonville, Fla.	36	33	29	28	31
Fairhope, Ala.	30	31	36	26	25
Mean	32	33	35	25	26
		UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	44	50	53	42	44
Experiment, Ga.	34	32	33	26	30
Mean	39	41	43	34	37
		DELTA			
Sikeston, Mo.	46	44	50	42	41
Deering, Mo.	33	27	25	23	27
Jackson, Tenn.	46	52	51	40	45
Clarkedale, Ark.	43	46	39	36	41
Marianna, Ark.	41	45	44	34	35
Stoneville, Miss.	39	42	53	34	36
Louise, Miss.	38	40	44	32	32
St. Joseph, La.	32	26	48	18	22
Baton Rouge, La.	36	37	42	32	32
Mean	39	40	44	32	35
		WEST			
Stillwater, Okla.	39	42	47	31	34
Bixby, Okla.	36	39	56	35	36
Fayetteville, Ark.	38	43	44	32	30
Stuttgart, Ark.	35	37	35	24	27
Tishomingo, Okla.	36	39	41	29	26
Chillicothe, Texas	27	30	30	25	20
Lubbock, Texas	27	25	18	23	18
Curtis, La.	28	34	50	26	24
Mean	33	36	40	28	27

Table 23. Lodging scores for the strains in Uniform Group VI, 1950

Location	Ogden	Dortchsoy #2	Hale Ogden 2	Arksoy 2913	D517-14	D540-1
			EAST COAST			
Warsaw, Va.	1.0	2.0	2.0	2.5	2.0	1.0
Petersburg, Va.	1.0	1.0	1.0	2.0	2.0	1.0
Plymouth, N. C.	3.0	3.0	3.0	3.0	4.0	3.0
Willard, N. C.	3.0	2.5	2.5	3.0	4.0	3.0
McCullers, N. C.	2.5	2.3	2.3	2.8	4.5	2.3
			SOUTHEAST			
Monetta, S. C.	1.0	1.0	1.0	2.0	2.0	1.0
Tallassee, Ala.	1.0	1.3	1.6	2.0	3.3	1.3
Monticello, Fla.	1.0	1.0	1.0	1.0	3.0	1.0
Marianna, Fla.	1.0	1.0	1.0	1.3	2.7	1.0
Milton, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
McKinnonville, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Fairhope, Ala.	1.0	1.0	1.0	1.0	1.0	1.0
			UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	1.0	1.0	2.0	1.0	2.0	1.0
Experiment, Ga.	1.0	1.0	1.0	2.0	3.0	1.0
State College, Miss.	1.0	1.0	1.0	1.0	1.0	1.0
			DELTA			
Sikeston, Mo.	1.8	1.3	2.3	2.8	2.5	2.5
Deering, Mo.	1.0	1.0	1.0	1.0	1.5	1.0
Jackson, Tenn.	2.6	3.0	3.0	4.0	3.6	2.8
Marianna, Ark.	2.0	2.0	1.0	4.0	4.0	2.0
Stoneville, Miss.	2.3	2.0	2.3	2.3	4.0	2.3
Louise, Miss.	2.0	2.0	2.0	2.0	2.0	2.0
St. Joseph, La.	1.0	1.0	2.0	2.0	3.0	2.0
Baton Rouge, La.	2.0	2.0	2.0	2.0	3.0	2.0
			WEST			
Stillwater, Okla.	1.0	1.0	1.0	3.0	3.0	2.0
Bixby, Okla.	2.0	2.0	2.0	3.0	4.0	2.0
Fayetteville, Ark.	1.0	2.0	1.0	3.0	4.0	1.0
Stuttgart, Ark.	1.0	1.0	1.0	3.0	2.0	1.0
Tishomingo, Okla.	1.0	1.0	1.0	1.0	1.0	1.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0	1.0
Lubbock, Texas	1.0	1.0	1.0	1.0	1.0	1.0
Curtis, La.	2.0	2.0	2.0	3.0	4.0	2.0

Table 23. (Continued)

Location	N45-2885	N45-2994	OK 710	N46-1703	N46-2566
		EAST COAST			
Warsaw, Va.	1.0	1.5	2.0	1.5	1.5
Petersburg, Va.	1.0	2.0	1.0	2.0	2.0
Plymouth, N. C.	3.0	3.5	3.5	3.0	3.0
Willard, N. C.	3.5	2.5	3.0	2.5	2.5
McCullers, N. C.	2.5	3.5	4.0	2.0	2.3
		SOUTHEAST			
Monetta, S. C.	1.0	1.0	2.0	1.0	1.0
Tallassee, Ala.	1.3	2.0	2.6	1.0	1.0
Monticello, Fla.	2.0	2.0	2.0	1.0	1.0
Marianna, Fla.	1.7	2.0	2.0	1.0	1.0
Milton, Fla.	1.0	1.0	1.0	1.0	1.0
McKinnonville, Fla.	1.0	1.0	1.0	1.0	1.0
Fairhope, Ala.	1.0	1.0	1.0	1.0	1.0
		UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	1.0	1.0	1.0	1.0	1.0
Experiment, Ga.	1.0	3.0	2.0	1.0	3.0
State College, Miss.	1.0	1.0	1.0	1.0	1.0
		DELTA			
Sikeston, Mo.	2.8	2.3	1.8	1.3	2.5
Deering, Mo.	2.0	2.0	1.0	1.0	1.5
Jackson, Tenn.	2.4	3.4	2.8	2.8	3.2
Marianna, Ark.	2.0	1.0	4.0	1.0	1.0
Stoneville, Miss.	2.7	2.3	3.0	1.0	1.3
Louise, Miss.	2.0	2.0	2.7	1.0	1.0
St. Joseph, La.	3.0	2.0	3.0	1.0	2.0
Baton Rouge, La.	3.0	3.0	2.0	2.0	2.0
		WEST			
Stillwater, Okla.	1.0	3.0	1.0	1.0	2.0
Bixby, Okla.	3.0	4.0	1.0	1.0	3.0
Fayetteville, Ark.	2.0	4.0	2.0	2.0	3.0
Stuttgart, Ark.	1.0	2.0	1.0	1.0	2.0
Tishomingo, Okla.	1.0	1.0	1.0	1.0	1.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0
Lubbock, Texas	1.0	1.0	1.0	1.0	1.0
Curtis, La.	2.0	3.0	4.0	2.0	2.0

Table 24. Seed quality scores for the strains of Uniform Group VI, 1950

Location	Ogden	Dortchsoy #2	Hale Ogden 2	Arksoy 2913	D517-14	D540-1
			EAST COAST			
Warsaw, Va.	1.0	1.0	1.0	1.0	1.0	1.0
Petersburg, Va.	1.0	1.0	1.0	1.0	1.0	2.0
Holland, Va.	1.0	1.0	1.0	1.0	2.0	2.0
Plymouth, N. C.	2.5	2.5	2.5	3.0	3.0	2.5
Willard, N. C.	1.5	1.5	1.5	2.0	2.0	2.0
McCullers, N. C.	2.0	2.0	2.0	2.0	2.5	2.5
			SOUTHEAST			
Monetta, S. C.	1.5	1.5	1.5	3.0	2.5	3.0
Tallassee, Ala.	2.0	2.0	2.0	2.0	2.0	2.0
Monticello, Fla.	2.0	2.0	2.0	2.0	2.0	2.0
Marianna, Fla.	2.0	2.0	2.0	2.0	2.0	2.0
McKinnonville, Fla.	2.0	2.0	2.0	1.0	1.0	2.0
			UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	1.0	1.0	1.0	1.0	1.0	1.0
			DELTA			
Sikeston, Mo.	1.0	1.0	1.0	1.0	1.0	1.0
Deering, Mo.	1.0	1.0	1.0	1.0	1.0	1.0
Jackson, Tenn.	1.0	1.0	1.0	1.0	1.0	1.0
Clarkedale, Ark.	3.0	2.0	3.0	3.0	3.0	3.0
Marianna, Ark.	2.0	2.0	2.0	2.0	2.0	2.0
Stoneville, Miss.	2.0	2.0	2.0	2.0	2.0	2.0
Louise, Miss.	2.0	2.0	2.0	2.0	2.0	2.0
St. Joseph, La.	2.0	3.0	3.0	2.0	2.0	4.0
Baton Rouge, La.	1.0	1.0	1.0	2.0	2.0	1.0
			WEST			
Stillwater, Okla.	2.0	2.0	2.0	1.0	2.0	1.0
Bixby, Okla.	2.0	2.0	2.0	1.0	2.0	2.0
Fayetteville, Ark.	2.0	2.0	2.0	2.0	2.0	2.0
Stuttgart, Ark.	2.0	2.0	2.0	2.0	1.0	2.0
Tishomingo, Okla.	2.0	2.0	2.0	2.0	3.0	4.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0	1.0
Lubbock, Texas	1.0	1.0	1.0	2.0	2.0	2.0
Curtis, La.	1.0	1.0	1.0	1.0	2.0	1.0

Table 24. (Continued)

Location	N45-2885	N45-2994	OK 710	N46-1703	N46-2566
		EAST COAST			
Warsaw, Va.	1.0	1.0	1.0	1.0	2.0
Petersburg, Va.	1.0	1.0	2.0	2.0	1.0
Holland, Va.	1.0	2.0	2.0	1.0	1.0
Plymouth, N. C.	3.0	3.0	3.0	2.5	2.0
Willard, N. C.	1.5	2.0	2.5	2.0	1.5
McCullers, N. C.	1.5	2.0	3.0	2.0	1.0
		SOUTHEAST			
Monetta, S. C.	1.5	2.5	3.0	2.0	1.0
Tallassee, Ala.	2.0	2.0	2.0	2.0	2.0
Monticello, Fla.	2.0	2.5	2.0	2.0	2.0
Marianna, Fla.	2.0	3.0	3.0	2.0	2.0
McKinnonville, Fla.	1.0	1.0	1.0	1.0	2.0
		UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	1.0	1.0	1.0	1.0	1.0
		DELTA			
Sikeston, Mo.	1.0	1.0	1.0	1.0	1.0
Deering, Mo.	1.0	1.0	1.0	1.0	1.0
Jackson, Tenn.	1.0	1.0	1.0	1.0	1.0
Clarkedale, Ark.	3.0	2.0	3.0	2.0	3.0
Marianna, Ark.	2.0	2.0	2.0	2.0	2.0
Stoneville, Miss.	1.0	1.0	2.0	1.3	1.0
Louise, Miss.	2.0	2.0	2.7	1.0	1.0
St. Joseph, La.	2.0	2.0	3.0	3.0	4.0
Baton Rouge, La.	1.0	1.0	1.0	1.0	1.0
		WEST			
Stillwater, Okla.	2.0	2.0	2.0	2.0	2.0
Bixby, Okla.	2.0	1.0	2.0	2.0	1.0
Fayetteville, Ark.	2.0	2.0	2.0	2.0	2.0
Stuttgart, Ark.	2.0	2.0	2.0	2.0	2.0
Tishomingo, Okla.	4.0	3.0	3.0	2.0	2.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0
Lubbock, Texas	2.0	2.0	3.0	2.0	2.0
Curtis, La.	1.0	1.0	2.0	2.0	1.0

Table 25. Mean seed weight, in grams per 100 seeds, for the strains in Uniform Group VI, 1950

Location	Ogden	Dortchsoy #2	Hale Ogden 2	Arksoy 2913	D517-14	D540-1
		EAST COAST				
Warsaw, Va.	15.0	15.0	15.0	15.5	17.5	15.0
Petersburg, Va.	16.0	16.0	16.0	16.0	17.0	16.0
Holland, Va.	16.8	15.3	14.9	15.6	18.0	16.8
Plymouth, N. C.	16.0	15.6	15.0	15.6	16.6	15.8
Willard, N. C.	16.7	15.7	16.9	16.1	16.9	18.0
McCullers, N. C.	18.4	17.8	17.6	17.5	19.2	16.2
Mean	16.5	15.9	15.9	16.1	17.5	16.3
		SOUTHEAST				
Monetta, S. C.	19.4	18.0	18.6	15.5	17.6	17.8
Tallassee, Ala.	16.8	16.6	15.9	12.8	15.5	15.6
Monticello, Fla.	13.6	13.4	12.4	12.8	11.7	13.2
Marianna, Fla.	13.6	13.5	12.4	12.8	11.8	13.2
Milton, Fla.	17.0	17.0	16.0	16.0	16.5	17.0
McKinnonville, Fla.	22.0	20.5	21.0	15.8	16.6	16.9
Mean	17.1	16.5	16.1	14.3	15.0	15.6
		UPPER AND CENTRAL SOUTH				
Knoxville, Tenn.	15.7	15.0	15.1	14.4	17.2	16.1
		DELTA				
Sikeston, Mo.	14.9	15.1	14.4	14.7	15.7	15.7
Deering, Mo.	13.8	13.8	13.4	13.9	14.5	13.0
Jackson, Tenn.	17.5	15.8	16.5	16.1	17.9	16.9
Stoneville, Miss.	19.2	15.7	16.3	14.2	15.2	16.6
Louise, Miss.	15.1	15.5	14.5	13.0	15.2	14.2
Mean	16.1	15.2	15.0	14.4	17.7	15.3
		WEST				
Stillwater, Okla.	16.8	17.8	17.2	15.2	17.0	14.5
Bixby, Okla.	17.4	16.8	14.8	16.0	17.8	23.6
Stuttgart, Ark.	19.0	17.7	17.3	17.1	17.5	16.7
Tishomingo, Okla.	18.9	18.1	17.5	15.3	16.4	15.9
Chillicothe, Texas	20.0	23.0	21.0	17.0	16.0	18.0
Lubbock, Texas	17.0	17.0	18.0	15.0	15.0	15.0
Mean	18.2	18.4	17.6	15.9	16.6	17.3

Table 25. (Continued)

Location	N45-2885	N45-2994	OK 710	N46-1703	N46-2566
		EAST COAST			
Warsaw, Va.	14.0	17.0	14.0	17.0	14.5
Petersburg, Va.	15.0	18.0	16.0	16.0	15.0
Holland, Va.	15.0	17.2	16.4	16.4	15.5
Plymouth, N. C.	15.8	15.2	13.4	16.7	15.6
Willard, N. C.	16.4	16.7	14.4	18.1	14.0
McCullers, N. C.	16.0	19.3	16.0	17.8	16.5
Mean	15.4	17.2	15.0	17.0	15.2
		SOUTHEAST			
Monetta, S. C.	15.8	17.9	16.8	18.1	15.2
Tallassee, Ala.	15.9	16.3	14.2	17.8	15.2
Monticello, Fla.	12.2	14.3	13.5	13.5	12.5
Marianna, Fla.	12.3	14.4	13.4	13.4	12.8
Milton, Fla.	14.5	17.0	14.0	17.0	15.0
McKinnonville, Fla.	19.0	18.5	13.8	19.7	17.9
Mean	15.0	16.4	14.3	16.6	14.8
		UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	14.4	16.9	14.0	16.5	14.2
		DELTA			
Sikeston, Mo.	15.6	16.2	13.9	15.6	14.1
Deering, Mo.	12.9	14.4	12.2	14.0	14.1
Jackson, Tenn.	18.5	18.7	17.3	15.4	16.2
Stoneville, Miss.	15.3	15.1	13.5	18.8	15.7
Louise, Miss.	13.7	14.3	11.7	15.4	13.5
Mean	15.2	17.7	13.7	15.8	14.7
		WEST			
Stillwater, Okla.	15.0	16.7	15.3	15.1	19.5
Bixby, Okla.	16.2	17.6	15.4	16.4	16.5
Stuttgart, Ark.	16.5	18.6	15.5	16.9	17.0
Tishomingo, Okla.	15.2	17.9	15.1	17.7	15.4
Chillicothe, Texas	20.0	20.0	15.0	20.0	19.0
Lubbock, Texas	14.0	16.0	14.0	16.0	16.0
Mean	16.1	17.8	15.0	17.0	17.2

Table 26. Two-year summary of yield data for strains in Uniform Group VI, 1949 - 1950

Location	Ogden	Dortchsoy #2	Hale Ogden #2	Arksoy 2913	D517-14
		EAST COAST			
Petersburg, Va.	43.0	43.3	46.1	30.8	33.7
Holland, Va.	43.2	35.6	38.3	35.2	34.8
Plymouth, N. C.	39.4	37.7	36.6	29.3	29.1
Willard, N. C.	45.0	40.9	45.4	34.5	36.4
McCullers, N. C.	34.5	35.6	36.5	29.8	30.8
Mean	41.0	38.6	40.6	31.9	33.0
		SOUTHEAST			
Monetta, S. C.	36.6	33.7	34.5	24.9	30.2
Tallassee, Ala.	28.6	29.3	32.4	27.6	29.5
Fairhope, Ala.	22.7	25.8	30.7	19.8	21.3
Mean	29.3	29.6	32.5	24.1	27.0
		UPPER AND CENTRAL SOUTH			
Knoxville, Tenn.	30.7	32.1	34.8	24.2	24.0
Experiment, Ga.	40.8	40.9	42.2	33.4	35.2
State College, Miss.	29.0	33.6	32.2	26.0	25.0
Mean	33.5	35.5	36.4	27.9	28.1
		DELTA			
Sikeston, Mo.	32.5	34.8	33.5	25.0	24.7
Jackson, Tenn.	33.5	35.3	34.7	30.0	27.4
Clarkedale, Ark.	18.5	20.2	20.1	14.2	14.2
Marianna, Ark.	23.5	25.0	22.8	18.6	20.3
Stoneville, Miss.	47.7	46.3	46.7	31.9	29.5
St. Joseph, La.	40.6	37.2	36.8	38.1	21.8
Baton Rouge, La.	33.1	35.1	33.1	23.7	28.1
Mean	32.8	33.4	32.5	25.9	23.7
		WEST			
Stillwater, Okla.	30.4	30.6	29.7	24.8	24.6
Bixby, Okla.	45.2	43.4	41.7	30.3	31.6
Stuttgart, Ark.	25.4	23.0	23.9	24.7	29.6
Lubbock, Texas	28.2	27.9	28.1	23.3	26.4
Curtis, La.	29.2	29.0	28.2	25.8	20.9
Mean	31.7	30.8	30.3	25.8	26.6

Table 26. (Continued)

Location	D540-1	N45-2885	N45-2994	OK 710
		EAST COAST		
Petersburg, Va.	39.7	39.2	38.6	37.9
Holland, Va.	40.6	45.3	47.3	37.6
Plymouth, N. C.	36.1	33.2	30.8	27.2
Willard, N. C.	39.6	37.0	37.5	33.8
McCullers, N. C.	33.0	33.7	37.1	29.5
Mean	37.8	37.7	38.3	33.2
		SOUTHEAST		
Monetta, S. C.	30.3	34.2	37.5	25.6
Tallassee, Ala.	30.8	33.4	31.7	23.3
Fairhope, Ala.	23.0	23.9	25.6	18.9
Mean	28.0	30.5	31.6	22.6
		UPPER AND CENTRAL SOUTH		
Knoxville, Tenn.	30.1	25.4	28.7	26.7
Experiment, Ga.	42.1	42.8	41.4	33.8
State College, Miss.	37.5	33.4	29.6	23.9
Mean	36.6	33.9	33.2	28.1
		DELTA		
Sikeston, Mo.	33.6	26.5	22.6	29.4
Jackson, Tenn.	32.3	30.6	26.7	26.6
Clarkedale, Ark.	17.4	17.5	19.3	11.5
Marianna, Ark.	24.2	18.9	23.8	20.8
Stoneville, Miss.	40.5	40.9	36.6	31.1
St. Joseph, La.	42.6	39.2	24.0	20.8
Baton Rouge, La.	32.0	28.6	30.8	28.8
Mean	31.8	28.9	26.2	24.1
		WEST		
Stillwater, Okla.	28.2	25.7	27.0	21.0
Bixby, Okla.	38.9	41.4	36.2	25.7
Stuttgart, Ark.	22.3	20.6	26.2	22.3
Lubbock, Texas	28.6	27.8	26.8	23.9
Curtis, La.	31.4	29.4	26.8	25.6
Mean	29.9	29.0	28.6	23.7

Table 27. Two-year summary of oil content for strains in Uniform Group VI, 1949-1950

Location	Ogden	Dortchsoy #2	Hale Ogden #2	Arksoy 2913	D517-14	D540-1	N45-2885	N45-2994	OK 710
Petersburg, Va.	20.3	20.5	20.8	19.6	20.9	20.0	19.8	19.2	20.0
Plymouth, N. C.	19.4	20.1	19.8	19.8	19.5	19.2	18.9	18.8	19.0
McCullers, N. C.	20.6	20.6	21.0	19.6	21.6	19.5	20.4	19.6	20.2
Fairhope, Ala.1/	21.5	21.7	21.9	21.2	22.6	21.3	20.7	20.7	20.8
Jackson, Tenn.	21.0	21.4	21.8	20.2	21.5	20.6	20.4	19.8	20.4
Sikeston, Mo.	20.6	20.4	20.4	18.6	20.4	19.4	19.7	18.6	19.0
Stoneville, Miss.	21.0	21.3	21.2	20.5	22.0	20.5	20.4	20.1	20.5
Baton Rouge, La.	22.2	22.5	22.8	21.4	23.0	20.6	20.9	21.3	21.0
Stuttgart, Ark.	20.9	21.3	21.3	19.8	21.9	19.6	19.9	19.3	20.1
Stillwater, Okla.2/	20.8	21.1	21.0	19.5	20.5	19.8	20.2	19.0	19.9
Mean	20.8	21.1	21.2	20.0	21.4	20.1	20.1	19.6	20.1

1/McKinnonville, Florida, data used for 1950.

2/Bixby, Oklahoma, data used for 1950.

Table 28. Three-year summary of yield data for strains in Uniform Group VI, 1948-1950

Location	Ogden	Dortchsoy #2	Arksoy 2913	D517-14	D540-1	N45-2885	N45-2994
			EAST COAST				
Plymouth, N. C.	40.7	40.3	30.7	30.9	35.9	36.4	35.9
Willard, N. C.	42.6	40.7	32.5	36.8	38.8	37.5	38.2
McCullers, N. C.	34.9	32.4	27.9	28.5	31.0	31.0	32.1
Mean	39.4	37.8	30.4	32.1	35.2	35.0	35.4
			SOUTHEAST				
Monetta, S. C.	35.8	33.4	26.4	31.4	31.4	33.5	37.2
Fairhope, Ala.	25.7	27.1	18.8	21.3	25.2	24.5	26.7
Mean	30.8	30.3	22.6	26.3	28.3	29.0	32.0
			UPPER AND CENTRAL SOUTH				
Knoxville, Tenn.	28.4	28.4	21.2	20.9	27.6	24.2	25.5
State College, Miss.	27.2	31.4	27.3	23.7	34.8	32.0	29.5
Mean	27.8	29.9	24.2	22.3	31.2	28.1	27.5
			DELTA				
Sikeston, Mo.	31.7	32.9	25.2	25.3	32.3	28.4	25.8
Jackson, Tenn.	28.6	29.5	25.2	22.9	26.3	25.5	23.5
Clarkedale, Ark.	21.4	22.2	15.9	16.8	20.4	19.8	20.8
Marianna, Ark.	23.0	24.6	19.5	21.8	23.5	20.8	22.7
Stoneville, Miss.	39.6	36.8	25.6	25.8	39.4	35.1	35.0
St. Joseph, La.	39.2	38.6	26.6	24.0	43.8	39.9	26.2
Baton Rouge, La.	25.9	30.1	19.7	23.4	25.6	24.1	24.8
Mean	29.9	30.7	22.5	22.8	30.2	27.6	25.5
			WEST				
Stuttgart, Ark.	24.3	23.7	23.1	28.4	23.0	20.2	27.1
Curtis, La.	25.9	28.3	24.4	20.9	30.6	28.6	29.4
Lubbock, Texas	26.6	26.3	21.3	25.9	27.0	27.7	26.3
Mean	25.6	26.1	22.9	25.1	26.9	25.5	27.6

Table 29. Three-year summary of oil content for strains in Uniform Group VI, 1948 - 1950

Location	Ogden	Dortchsoy #2	Arksoy 2913	D517-14	D540-1	N45-2885	N45-2994
Plymouth, N. C.	19.8	20.2	19.7	19.9	19.1	19.1	18.8
McCullers, N. C.	20.5	20.1	19.8	21.5	19.7	19.8	19.1
Fairhope, Ala.1/	21.3	21.5	20.8	22.1	20.8	20.5	20.7
Jackson, Tenn.	21.4	21.6	20.5	22.0	20.6	20.5	20.1
Stoneville, Miss.	20.9	20.7	20.0	21.2	20.5	19.8	20.0
Baton Rouge, La.	22.9	23.2	22.2	24.0	21.9	22.6	22.0
Stuttgart, Ark.	20.6	20.9	19.8	21.9	19.5	19.5	19.0
Mean	21.1	21.2	20.4	21.8	20.3	20.3	20.0

1/McKinnonville, Florida, data used for 1950.

UNIFORM GROUP VII, 1950

UNIFORM GROUP VII, 1950

Strain or Variety	Source or Originating Agency	Origin
Roanoke	N. Car. A.E.S. & U.S.R.S.L.	Sel. from a mixed seed lot
Volstate	Tenn. Agr. Expt. Sta.	Sel. from Tokyo x P.I. 54610
N45-3036	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Ralsoy x Ogden
N45-3563	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Ogden x Missoy
N45-3728	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Palmetto x Ogden
Dortchsoy 31	R. L. Dortch Seed Company Scott, Arkansas	Sel. from Ogden
N45-3799	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Palmetto x Ogden
N46-2652	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate x Palmetto
N46-2802	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate x Palmetto
N46-2872	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate/Vol. x Palmetto
N46-2881	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate/Vol. x Palmetto
N46-3008	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate/Vol. x Palmetto
N47-3332	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate x Palmetto
N47-3470	N. Car. A.E.S. & U.S.R.S.L.	Sel. from N46-2872
N47-3479	N. Car. A.E.S. & U.S.R.S.L.	Sel. from N46-2881
N47-309	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate x CNS

Thirty-five Group VII nurseries were planted. Results of 31 of these nurseries are summarized in tables 30 through 36. Nurseries not harvested were at Blackville, South Carolina; Headland, Alabama; Quincy, Florida; and at College Station, Texas. Inadequate stands were obtained at Blackville, while at Headland and Quincy, the nurseries suffered from lack of inoculation. At College Station, Texas, all pods appeared to have been damaged by the green stink bug, Nezara hilaris. In general, seed yields were quite good. The seed yield of Roanoke, the check variety, dropped below 20 bushels per acre in only three of the nurseries harvested.

All nurseries, except the four Virginia locations, were planted in multiple-row plots. It is of interest to note that in only five of these tests was the coefficient of variability over 16 percent; while in 1947, the last year all nurseries of this group were grown in single-row plots, the coefficient of variability was greater than 16 percent in 60 percent of the nurseries.

The maturity of Group VII strains is approximately the last two weeks of October. In most areas where this group is adapted, Roanoke will mature about October 25. Roanoke is approximately two weeks later in maturity than Ogden. In relation to Ogden, Roanoke grows 6 - 10 inches taller, holds its seed over a longer period, and has higher oil content. Roanoke is well adapted to the Upper Coastal Plain and Piedmont areas of North Carolina, South Carolina, Georgia, and Alabama.

The two varieties, Roanoke and Volstate, have been evaluated in these comparisons for seven years. These two varieties are very similar in general growth characters, with Roanoke averaging two inches taller than Volstate.

A seven-year summary of seed yield for nine locations and oil content for six locations is reported in table 37. Roanoke maintains a consistent advantage in both seed yield and oil content with a mean yield advantage of 1.7 bushels per acre and a mean oil percentage increase of 0.5 percent. The combined advantage in yield and oil content gives a 9 percent increase in oil production per acre.

Dortchsoy 31 has produced seed yields quite comparable to Roanoke in all production areas, except the Delta. However, it has a mean oil content 1.2 percent below that of Roanoke. Because of its shorter growth habit, Dortchsoy 31 stands better than Roanoke where heavy growth is made. However, the shorter growth is a disadvantage in much of the Upper Coastal Plain and Piedmont areas. The lower yield in the Delta area appears to be the result of heavy development of the leaf disease target spot, Helminthosporium vignicola. Dortchsoy 31 is very susceptible to this disease.

The three strains, N45-3036, N45-3563, and N45-3728, have all given somewhat higher seed yields than Roanoke in the Southeast. For this area, N45-3563 gives the best combination of yield and oil content. However, on the basis of two-year data, the two strains, N46-2872 and N46-2881, are superior to N45-3563. In the Delta area, N45-3036 and N45-3563 have demonstrated high susceptibility to target spot. On several occasions, N45-3728 has given evidence of being more susceptible to Sclerotium rolfsii than most of the other strains of soybeans. It appears that the above three strains have been adequately tested and none merits consideration for release.

Of the six strains grown for two years, N45-3799, N46-2652, N46-2802, N46-2872, N46-2881 and N46-3008, the strains N46-2872 and N46-2881 appear outstanding.

Both of these strains have given good yields in all production areas for the two years they have been grown. Where lodging is a factor, N46-2881 stands better than N46-2872. N46-2881 also has a 1.0 percent advantage in oil content over N46-2872. On the basis of seed yield, oil content, and standing ability, N46-2881 appears to be the better strain. Both strains have averaged 4 inches taller than Roanoke. This additional height should be an advantage for plantings made after oats or lupines in the Southeast. In further comparison with Roanoke, N46-2881 is equal in oil content and seed holding, stands better, and has produced somewhat higher seed yields.

A sub-line of each of the above two strains was also grown in the 1950 nurseries - N47-3470 from N46-2872, and N47-3479 from N46-2881. Both strains gave performances quite similar to the parent line.

Two other strains, N47-3332 and N47-309 were grown for the first time. It was expected that the additional height of N47-3332 would be an advantage in the Southeast. However, this strain yielded less than N47-3479 at nearly all locations. N47-309 has the CNS type resistance to bacterial pustule. Seed yields were quite comparable to Roanoke in all but the Virginia locations. The oil content is somewhat below that for Roanoke.

Table 30. Summary of yield, in bushels per acre, for the strains in Uniform Group VII, 1950

Location	Roan-oke	Vol-state	N45-3036	N45-3563	N45-3728	Dortch. 31	N45-3799	N46-2652	N46-2802
EAST COAST									
Petersburg, Va.	39.8	41.1	38.9	38.4	43.6	44.5	42.5	44.0	34.6
Onley, Va.	37.3	36.5	39.8	31.3	37.3	40.3	35.1	39.5	36.8
Norfolk, Va.	30.0	32.9	25.0	28.0	34.8	32.1	37.8+	35.4	32.4
Holland, Va.	40.5	43.6	50.0	41.9	41.9	42.9	50.7	51.7+	34.7
Plymouth, N. C.	39.4	38.6	38.5	36.9	34.5	34.6	36.9	33.1-	34.4-
Willard, N. C.	34.4	33.1	36.5	36.8	30.7	38.5	39.6	39.4	35.3
McCullers, N. C.	38.2	36.9	43.2+	39.2	35.2	42.3+	39.8	32.3-	39.2
Florence, S. C.	34.3	30.7	42.4+	32.4	31.7	36.9	39.7	31.6	33.6
Hartsville, S. C.	33.6	32.9	32.3	28.9-	28.9-	31.2	31.8	25.1-	28.7-
Mean	36.4	36.2	38.6	34.9	35.4	38.1	39.3	36.9	34.4
SOUTHEAST									
Monetta, S. C.	34.6	30.3	37.2	34.2	34.6	36.0	30.9	31.5	29.7-
Charleston, S. C.	14.1	16.3	18.0	16.7	18.5	21.8+	15.8	17.7	20.8
Tifton, Ga.	20.4	14.4	14.6	12.9	17.9	15.0	18.2	10.6	16.9
Tallassee, Ala.	27.3	29.6	25.8	26.6	24.3	30.0	22.9	24.6	23.6
Monticello, Fla.	18.0	22.3+	20.2	21.1+	22.0+	22.5+	19.6	16.4	18.0
Marianna, Fla.	26.4	25.4	21.7	23.9	21.8	25.5	22.9	24.8	21.9
Milton, Fla.	29.1	24.1	23.2	23.9	24.1	25.5	22.4	23.2	23.9
McKinnonville, Fla.	50.6	50.4	49.2	41.6	46.1	52.8	43.2	42.0	44.4
Fairhope, Ala.	23.7	24.8	23.0	27.0	15.3	22.8	19.0	22.5	17.1
Poplarville, Miss.	20.7	19.1	17.4	15.8	16.6	17.0	15.5	15.9	15.6
Mean	26.5	25.7	25.0	24.4	24.1	26.9	23.0	22.9	23.2
UPPER AND CENTRAL SOUTH									
Clemson, S. C.	27.6	27.9	29.1	27.4	25.1	25.7	23.7	25.5	24.3
Experiment, Ga.	26.3	26.6	25.2	22.6	26.8	27.5	25.6	24.4	21.5
State College, Miss.	27.1	25.9	18.4	23.4	29.7	18.0	24.8	25.5	24.3
Mean	27.0	26.8	24.2	24.5	27.3	23.7	24.7	25.1	23.4
DELTA									
Marianna, Ark.	28.6	23.8-	23.6-	21.8-	26.1	28.0	16.4-	22.9-	23.4-
Stoneville, Miss.	41.9	41.0	25.7-	26.0-	31.7-	24.4-	44.0	32.2-	32.7-
Louise, Miss.	40.5	40.3	32.4-	38.2	42.5	32.2-	39.4	34.6	43.1
St. Joseph, La.	22.1	22.9	19.6	19.6	31.9+	17.2-	30.5+	25.3	21.3
Baton Rouge, La.	22.3	21.8	18.5	23.6	24.6	22.8	19.3	19.5	21.3
Mean	31.1	30.0	24.0	25.8	31.4	24.9	29.9	26.9	28.4
WEST									
Stuttgart, Ark.	31.0	28.9	30.3	34.4	34.6	22.4-	31.7	27.4	30.7
Tishomingo, Okla.	26.7	24.5	29.2	19.7-	25.6	20.5-	19.7-	22.4	16.9-
Chillicothe, Texas 1/	15.5	14.6	11.1	10.4	13.4	13.1	8.4	9.2	5.4
Curtis, La.	39.7	40.2	35.8	36.3	43.0	34.0	43.3	41.5	33.7
Mean	32.5	31.2	31.8	30.1	34.4	25.6	31.6	30.4	27.1

(+) - Strains yielding significantly more (odds 19:1 or greater) than Roanoke.
(-) - Strains yielding significantly less (odds 19:1 or greater) than Roanoke.
1/ - Not included in the mean.

Table 30. (Continued)

Location	N46-2872	N46-2881	N46-3008	N47-3332	N47-3470	N47-3479	N47-309	L.S.D. (5%)	C.V.
				EAST COAST					
Petersburg, Va.	40.8	44.0	30.7	38.8	45.8	51.2+	30.2-	9.5	16%
Onley, Va.	37.6	42.5	28.3-	34.6	36.2	38.7	26.4-	7.3	14%
Norfolk, Va.	32.1	36.8+	19.3	34.0	34.6	43.3+	21.0-	6.7	15%
Holland, Va.	39.8	45.9	27.6-	41.2	42.2	45.3	26.5-	10.4	18%
Plymouth, N. C.	40.6	41.9	36.7	32.0-	39.7	38.0	42.3	5.0	9%
Willard, N. C.	42.1+	38.1	36.4	36.0	39.8	41.3+	39.6	6.5	12%
McCullers, N. C.	37.6	43.4+	35.0	36.2	37.5	40.0	36.7	3.7	7%
Florence, S. C.	35.2	36.7	36.9	32.0	32.8	37.5	32.6	5.8	12%
Hartsville, S. C.	32.9	28.5-	26.2-	25.5-	30.5	29.8	32.5	4.2	8%
Mean	37.6	39.8	30.8	34.5	37.7	40.6	32.0		
				SOUTHEAST					
Monetta, S. C.	39.0+	31.4	31.2	33.4	35.2	35.0	36.0	4.4	9%
Charleston, S. C.	25.7+	26.4+	18.6	15.4	22.0+	15.7	19.8	6.8	25%
Tifton, Ga.	15.1	16.0	20.0	16.9	14.7	13.6	16.3	5.1	19%
Tallassee, Ala.	35.7	31.6	31.6	29.7	25.1	35.2	25.0	6.5	14%
Monticello, Fla.	24.9+	18.7	18.9	19.1	20.2	20.0	20.2	3.1	9%
Marianna, Fla.	27.8	30.6	19.1	21.6	32.8	27.0	28.9	5.5	13%
McKinnonville, Fla.	53.7	49.2	35.1	49.2	52.1	48.2	49.2	8.3	11%
Milton, Fla.	28.7	26.0	18.2	24.3	24.7	23.8	29.6	3.9	9%
Fairhope, Ala.	25.7	23.4	21.1	19.6	25.6	23.3	26.0	N.S.	19%
Poplarville, Miss.	21.4	17.2	11.1	18.5	19.1	17.5	19.9	3.2	11%
Mean	29.8	27.1	22.5	24.8	27.2	25.9	27.1		
				UPPER AND CENTRAL SOUTH					
Clemson, S. C.	26.4	26.5	26.5	24.6	29.0	29.0	30.9	4.8	11%
Experiment, Ga.	24.6	26.2	22.2	25.9	23.3	27.0	28.4	N.S.	17%
State College, Miss.	28.0	29.3	28.8	29.5	27.1	26.4	21.6	4.1	11%
Mean	26.3	27.3	25.8	26.7	26.5	27.5	27.0		
				DELTA					
Marianna, Ark.	27.8	29.8	22.8-	26.2	22.9-	26.2	25.9	4.7	11%
Stoneville, Miss.	44.7	41.8	38.0	36.9	42.1	49.2+	36.4-	5.0	8%
Louise, Miss.	49.8+	45.9	46.0	46.3	47.5+	50.0+	39.9	6.1	9%
St. Joseph, La.	28.1+	21.5	18.3	22.1	28.1+	22.6	27.3+	4.0	12%
Baton Rouge, La.	24.0	18.8	16.1-	24.0	22.4	23.6	27.3+	5.0	16%
Mean	34.9	31.6	28.2	31.1	32.6	34.3	31.4		
				WEST					
Stuttgart, Ark.	31.7	27.6	25.1-	28.6	36.4+	32.1	35.8+	4.0	8%
Tishomingo, Okla.	24.4	29.4	25.9	27.7	20.5-	27.6	31.2	5.0	14%
Chillicothe, Texas[1]	14.0	12.6	5.3	13.0	11.5	13.0	14.2	3.2	19%
Curtis, La.	43.8	38.6	38.9	42.5	38.4	39.9	36.6	N.S.	14%
Mean	33.3	31.9	30.0	32.9	31.8	33.2	34.5		

Table 31. Summary of chemical composition for the strains in Uniform Group VII, 1950

Location	Roan-oke	Vol-state	N45-3036	N45-3563	N45-3728	Dortch. 31	N45-3799	N46-2652
			PERCENTAGE OIL					
Petersburg, Va.	20.6	20.4	19.5	19.3	19.7	20.1	20.7	20.1
McCullers, N. C.	21.3	20.6	20.0	20.8	19.8	20.1	20.1	20.2
Florence, S. C.	20.8	20.2	20.2	20.9	19.8	20.3	20.8	20.1
Tifton, Ga.	22.1	22.0	20.5	18.9	21.1	20.9	21.5	20.7
Fairhope, Ala.	24.6	23.8	23.1	24.6	23.5	24.4	24.1	23.5
McKinnonville, Fla.	22.8	22.4	21.4	23.0	21.4	22.3	21.6	21.9
Clemson, S. C.	22.5	21.8	21.4	21.1	20.5	21.3	21.8	20.5
Stoneville, Miss.	21.7	21.3	19.9	21.8	20.3	20.1	20.7	20.8
Baton Rouge, La.	22.9	22.1	21.5	23.7	22.5	22.3	21.5	21.5
Stuttgart, Ark.	21.3	20.8	20.0	21.0	20.2	20.0	20.2	20.8
Mean	22.1	21.5	20.8	21.5	20.9	21.2	21.3	21.0
			PERCENTAGE PROTEIN					
Petersburg, Va.	39.7	40.1	43.8	42.1	41.6	41.8	40.4	41.9
McCullers, N. C.	41.4	41.7	44.8	42.5	41.3	42.5	42.3	42.2
Florence, S. C.	40.7	40.5	43.7	40.9	41.9	41.0	42.2	43.0
Tifton, Ga.	40.1	40.8	44.4	41.8	41.7	42.0	41.6	43.4
Fairhope, Ala.	35.6	37.0	40.1	35.1	36.8	35.0	36.8	36.7
McKinnonville, Fla.	40.4	39.5	43.4	39.1	40.5	40.4	40.4	39.8
Clemson, S. C.	35.8	38.6	40.1	39.0	40.4	38.3	38.1	41.4
Stoneville, Miss.	40.4	40.1	44.0	41.9	42.0	43.2	41.3	41.7
Baton Rouge, La.	40.2	40.3	43.6	39.1	40.2	41.0	41.8	41.6
Stuttgart, Ark.	42.0	42.7	44.8	43.5	44.6	43.0	44.6	44.2
Mean	39.6	40.1	43.3	40.5	41.1	40.8	41.0	41.6
			IODINE NUMBER OF THE OIL					
Petersburg, Va.	137.9	139.1	137.9	139.8	139.1	139.2	137.0	137.6
McCullers, N. C.	135.1	136.1	134.6	137.9	136.8	137.3	134.0	136.5
Florence, S. C.	136.8	137.5	136.5	136.9	136.6	138.6	135.0	132.9
Tifton, Ga.	130.4	132.6	131.2	129.4	129.1	134.1	129.3	124.2
Fairhope, Ala.	129.3	130.9	128.9	130.1	128.7	130.9	127.8	126.3
McKinnonville, Fla.	129.9	130.6	128.0	130.3	129.8	132.0	128.0	127.5
Clemson, S. C.	133.8	135.1	134.5	134.5	135.3	136.4	132.4	132.8
Stoneville, Miss.	135.1	136.3	133.5	132.3	134.4	135.6	134.2	131.0
Baton Rouge, La.	125.2	126.8	126.1	126.4	126.8	129.2	128.6	124.2
Stuttgart, Ark.	136.9	138.2	135.7	136.8	137.5	139.9	137.4	134.3
Mean	133.0	134.3	132.7	133.4	133.4	135.3	132.4	130.7

Table 31. (Continued)

Location	N46-2802	N46-2872	N46-2881	N46-3008	N47-3332	N47-3470	N47 3479	N47-309
			PERCENTAGE OIL					
Petersburg, Va.	20.4	19.8	20.9	20.0	21.0	20.2	20.8	20.3
McCullers, N. C.	20.2	19.7	20.3	20.7	21.2	20.3	20.4	20.5
Florence, S. C.	20.1	19.8	20.9	19.7	20.7	19.9	20.5	21.3
Tifton, Ga.	21.6	21.2	22.6	21.5	21.8	21.7	22.3	22.2
Fairhope, Ala.	24.8	24.5	25.6	25.0	24.7	24.4	24.8	23.9
McKinnonville, Fla.	22.9	22.3	23.0	23.4	22.9	22.7	22.5	22.1
Clemson, S. C.	21.9	21.5	20.9	21.7	21.7	21.5	20.7	21.3
Stoneville, Miss.	21.5	21.5	22.2	21.9	21.9	21.3	21.9	20.2
Baton Rouge, La.	22.5	23.2	24.0	23.0	24.1	23.4	23.3	22.2
Stuttgart, Ark.	21.3	20.7	21.5	21.7	21.2	20.9	21.3	20.3
Mean	21.7	21.4	22.2	21.9	22.1	21.6	21.9	21.4
			PERCENTAGE PROTEIN					
Petersburg, Va.	40.7	41.1	40.1	39.6	41.4	41.2	40.0	41.4
McCullers, N. C.	42.5	41.8	41.6	40.9	42.0	41.4	41.3	42.5
Florence, S. C.	42.7	40.8	40.1	40.1	41.7	41.0	40.3	41.0
Tifton, Ga.	41.8	41.4	39.9	41.3	41.0	41.6	42.0	41.8
Fairhope, Ala.	33.8	34.0	32.8	33.5	36.1	35.5	35.1	36.0
McKinnonville, Fla.	39.4	39.0	40.1	38.0	40.0	39.8	40.4	39.5
Clemson, S. C.	39.6	38.1	40.1	39.3	39.7	38.9	40.7	39.8
Stoneville, Miss.	41.4	40.2	39.5	40.3	39.7	39.2	39.5	39.5
Baton Rouge, La.	40.5	39.4	40.1	39.1	38.6	39.5	37.7	39.0
Stuttgart, Ark.	43.4	43.6	42.3	41.9	44.2	42.4	42.4	44.2
Mean	40.6	39.9	39.7	39.4	40.4	40.1	39.9	40.5
			IODINE NUMBER OF THE OIL					
Petersburg, Va.	137.0	136.3	139.4	138.7	138.6	137.9	138.6	137.1
McCullers, N. C.	135.0	133.7	137.6	137.3	136.5	136.0	137.2	134.8
Florence, S. C.	134.7	134.7	137.7	135.4	136.1	136.8	137.4	137.0
Tifton, Ga.	127.0	126.5	131.4	128.0	130.6	129.5	130.3	131.2
Fairhope, Ala.	127.6	128.1	130.6	129.2	129.9	130.1	130.7	129.7
McKinnonville, Fla.	129.2	127.8	131.6	130.5	131.8	130.2	131.3	131.0
Clemson, S. C.	133.8	132.3	137.0	135.4	135.7	134.6	135.9	134.2
Stoneville, Miss.	132.4	131.8	136.0	134.0	134.4	135.0	135.2	136.1
Baton Rouge, La.	125.8	124.9	127.2	127.7	124.4	127.1	127.7	127.1
Stuttgart, Ark.	135.4	134.7	138.8	136.9	139.8	138.4	138.7	138.2
Mean	131.8	131.1	134.7	133.3	133.8	133.6	134.3	133.6

Table 32. Relative maturity data, days earlier (-) or later (+) than Roanoke, for the strains in Uniform Group VII, 1950

Location	Date Planted	Roanoke Matured	Vol-state	N45-3036	N45-3563	N45-3728	Dortch. 31	N45-3799
			EAST COAST					
Petersburg, Va.	5-10	10-30	0	0	0	-12	-3	-14
Plymouth, N. C.	5-10	10-28	0	+2	+2	-5	-2	-6
Willard, N. C.	5-9	10-30	0	+1	0	-10	-1	-10
McCullers, N. C.	6-7	11-8	0	0	0	-13	-1	-11
Florence, S. C.	5-8	10-24	0	+2	+1	-11	0	-12
Mean			0	+1	+1	-10	-1	-11
			SOUTHEAST					
Monetta, S. C.	5-16	10-20	-2	+9	-2	-10	+4	-10
Tifton, Ga.	4-26	10-5	-3	+1	0	-3	+1	-19
Tallassee, Ala.	5-27	10-25	0	0	0	0	0	0
Monticello, Fla.	6-30	10-9	-4	0	0	-2	-4	-4
Marianna, Fla.	6-1	10-16	-2	0	0	-3	-4	-3
Milton, Fla.	6-6	10-15	0	0	0	0	0	0
McKinnonville, Fla.	6-17	10-13	+3	0	+2	+3	+3	+3
Fairhope, Ala.	6-6	10-16	0	0	0	-6	0	-6
Poplarville, Miss.	6-13	10-18	0	0	0	-2	0	-4
Mean			-1	+1	0	-2	0	-4
			UPPER AND CENTRAL SOUTH					
Experiment, Ga.	5-11	10-25	-1	0	-1	-2	-2	-3
State College, Miss.	5-18	10-19	0	-2	-3	-2	-3	-2
Mean			-1	-1	-2	-2	-3	-2
			DELTA					
Stoneville, Miss.	5-9	10-28	0	-5	-3	-5	-5	-12
Louise, Miss.	5-19	10-25	0	0	0	-4	-4	-7
St. Joseph, La.	5-19	10-23	0	+2	0	-3	-5	-13
Baton Rouge, La.	6-14	10-19	-7	-7	-4	-11	-3	-14
Mean			-2	-2	-2	-6	-4	-11
			WEST					
Stuttgart, Ark.	5-25	11-1	0	0	0	-8	-8	-8
Tishomingo, Okla.	5-25	10-19	+1	0	0	-2	+1	+1
Curtis, La.	5-25	10-28	+2	-6	0	-5	0	-10
Mean			+1	-2	0	-5	-3	-6

Table 32. (Continued)

Location	N46-2652	N46-2802	N46-2872	N46-2881	N46-3008	N47-3332	N47-3470	N47-3479	N47-309
				EAST COAST					
Petersburg, Va.	-7	-2	+2	0	-2	-7	+2	+3	-7
Plymouth, N. C.	+1	+1	+3	+1	0	+3	+2	+2	+3
Willard, N. C.	+1	-1	+1	0	0	+1	+1	+1	0
McCullers, N. C.	0	-1	0	0	0	0	0	0	0
Florence, S. C.	+2	+5	0	0	0	+1	0	+1	+3
Mean	0	+1	+1	0	0	0	+1	+1	0
				SOUTHEAST					
Monetta, S. C.	-4	-2	-2	+6	-4	-2	-2	+6	-2
Tifton, Ga.	+5	+5	+4	+3	+1	+4	+4	+6	-3
Tallassee, Ala.	0	0	0	0	0	0	0	0	0
Monticello, Fla.	-2	-4	+2	-4	0	+1	0	+5	-6
Marianna, Fla.	-4	-2	+2	-2	0	+1	0	+2	-3
Milton, Fla.	0	0	0	0	0	0	0	0	0
McKinnonville, Fla.	+3	+3	+1	+2	+3	+3	+1	+1	+3
Fairhope, Ala.	0	0	0	0	-6	0	0	0	-6
Poplarville, Miss.	0	0	0	0	0	0	0	0	0
Mean	0	0	+1	0	0	+1	0	+2	-2
				UPPER AND CENTRAL SOUTH					
Experiment, Ga.	-1	-1	-1	-1	-2	+3	0	-2	-3
State College, Miss.	+1	-2	-1	+1	-3	+1	0	+6	-2
Mean	0	-2	-1	0	-2	+2	0	+2	-2
				DELTA					
Stoneville, Miss.	-2	-3	0	0	-1	0	0	0	-3
Louise, Miss.	0	0	0	+1	0	0	0	+1	-2
St. Joseph, La.	-3	+9	-5	+9	+2	+18	+18	+16	+2
Baton Rouge, La.	-6	-7	-4	0	-6	-6	0	+1	-6
Mean	-3	0	-2	+2	-1	+3	+4	+4	-2
				WEST					
Stuttgart, Ark.	0	-8	0	0	-8	-8	0	0	0
Tishomingo, Okla.	+1	0	+1	+1	+1	-1	0	+1	0
Curtis, La.	0	-4	+2	+2	-2	0	0	+2	-7
Mean	0	-4	+1	+1	*3	*3	0	+1	-2

Table 33. Height data for the strains in Uniform Group VII, 1950

Location	Roan-oke	Vol-state	N45-3036	N45-3563	N45-3728	Dortch. 31	N45-3799	N46-2652
			EAST COAST					
Petersburg, Va.	44	43	42	49	56	38	48	62
Plymouth, N. C.	46	46	44	46	48	38	49	49
Willard, N. C.	45	44	42	44	58	36	46	61
McCullers, N. C.	47	44	42	43	49	34	44	55
Florence, S. C.	44	42	41	44	49	39	41	59
Mean	45	44	42	45	52	37	46	57
			SOUTHEAST					
Monetta, S. C.	35	37	37	39	47	30	37	58
Charleston, S. C.	38	34	35	42	51	29	38	62
Tifton, Ga.	28	18	29	30	55	19	28	58
Tallassee, Ala.	37	41	37	39	53	31	41	60
Monticello, Fla.	26	28	29	30	32	23	27	33
Marianna, Fla.	33	29	31	30	50	23	31	54
Milton, Fla.	28	26	34	34	39	23	35	47
McKinnonville, Fla.	29	24	30	33	33	30	34	34
Fairhope, Ala.	29	20	30	30	40	21	28	40
Poplarville, Miss.	30	28	34	36	48	26	38	54
Mean	31	29	33	34	45	26	34	50
			UPPER AND CENTRAL SOUTH					
Clemson, S. C.	45	45	42	47	52	35	41	57
Experiment, Ga.	30	27	28	26	41	22	30	43
Mean	38	36	35	36	46	28	36	50
			DELTA					
Marianna, Ark.	49	48	42	46	55	40	46	60
Stoneville, Miss.	44	41	38	40	58	37	47	60
Louise, Miss.	43	39	35	41	55	31	48	63
St. Joseph, La.	33	32	24	32	52	24	36	50
Baton Rouge, La.	32	30	35	38	34	22	36	37
Mean	40	38	36	39	51	31	43	54
			WEST					
Stuttgart, Ark.	43	41	38	42	48	30	39	59
Tishomingo, Okla.	43	38	41	44	51	33	47	59
Chillicothe, Texas	25	28	26	28	27	26	21	38
Curtis, La.	35	35	34	36	55	23	33	56
Mean	37	35	35	37	45	28	35	53

Table 33. (Continued)

Location	N46-2802	N46-2872	N46-2881	N46-3008	N47-3332	N47-3470	N47-3479	N47-309
			EAST COAST					
Petersburg, Va.	47	50	54	54	54	42	52	54
Plymouth, N. C.	46	47	48	47	51	46	46	34
Willard, N. C.	51	46	49	53	56	52	47	35
McCullers, N. C.	51	44	45	50	45	42	42	32
Florence, S. C.	51	46	48	50	56	48	50	31
Mean	49	47	49	51	52	46	47	37
			SOUTHEAST					
Monetta, S. C.	40	41	40	40	52	42	41	32
Charleston, S. C.	41	39	39	44	47	37	39	26
Tifton, Ga.	33	27	29	33	52	25	29	22
Tallassee, Ala.	48	44	43	52	55	47	44	32
Monticello, Fla.	32	30	29	25	33	24	31	21
Marianna, Fla.	39	38	35	41	49	32	33	25
Milton, Fla.	39	36	34	37	43	31	36	22
McKinnonville, Fla.	34	29	33	30	36	34	33	26
Fairhope, Ala.	30	36	33	32	40	27	35	22
Poplarville, Miss.	38	38	36	46	46	32	38	24
Mean	37	36	35	38	45	33	36	25
			UPPER AND CENTRAL SOUTH					
Clemson, S. C.	48	57	48	54	47	47	50	35
Experiment, Ga.	31	28	30	32	41	28	30	25
Mean	40	42	39	43	44	38	40	30
			DELTA					
Marianna, Ark.	58	60	54	61	56	52	48	41
Stoneville, Miss.	47	49	47	55	57	49	47	39
Louise, Miss.	41	45	42	57	55	45	43	33
St. Joseph, La.	38	42	28	34	52	40	30	18
Baton Rouge, La.	32	30	32	38	44	37	40	24
Mean	43	45	41	49	53	45	42	31
			WEST					
Stuttgart, Ark.	47	50	44	46	48	41	40	30
Tishomingo, Okla.	48	44	47	44	53	40	47	35
Chillicothe, Texas	25	27	30	36	38	18	33	24
Curtis, La.	38	31	35	37	55	36	40	29
Mean	40	38	39	41	49	34	40	30

Table 34. Lodging scores for the strains in Uniform Group VII, 1950

Location	Roan-oke	Vol-state	N45-3036	N45-3563	N45-3728	Dortch. 31	N45-3799	N46-2652
			EAST COAST					
Petersburg, Va.	3.0	3.0	4.0	4.0	4.0	4.0	1.0	4.0
Plymouth, N. C.	4.0	4.0	3.0	4.0	3.8	3.0	2.8	4.3
Willard, N. C.	2.8	3.5	3.0	3.8	3.5	2.5	3.0	5.0
McCullers, N. C.	2.8	2.8	3.5	3.5	2.3	2.3	1.8	3.8
Florence, S. C.	2.0	2.0	2.2	3.8	3.5	1.0	1.0	4.8
			SOUTHEAST					
Monetta, S. C.	3.0	2.5	2.0	3.3	2.5	1.0	1.5	4.5
Charleston, S. C.	2.0	2.0	2.0	3.0	2.0	1.0	2.0	3.0
Tifton, Ga.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Tallassee, Ala.	1.3	1.3	1.6	3.0	1.6	1.6	2.0	2.0
Monticello, Fla.	1.5	2.0	1.0	1.0	2.0	1.0	1.5	3.0
Marianna, Fla.	1.3	1.7	1.7	1.0	2.5	1.0	1.3	2.3
McKinnonville, Fla.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Fairhope, Ala.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Poplarville, Miss.	2.0	2.0	1.0	2.0	1.0	1.0	1.0	1.0
			UPPER AND CENTRAL SOUTH					
Clemson, S. C.	3.0	3.0	4.0	5.0	2.0	4.0	2.0	4.0
Experiment, Ga.	1.0	1.0	1.0	2.0	1.0	2.0	1.0	3.0
State College, Miss.	2.0	2.0	1.0	2.0	2.0	1.0	1.0	2.0
			DELTA					
Marianna, Ark.	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0
Stoneville, Miss.	3.0	3.0	2.7	3.0	3.0	1.7	2.0	3.7
Louise, Miss.	3.0	2.7	3.7	3.3	3.3	2.7	3.0	5.0
St. Joseph, La.	3.0	2.0	1.0	2.0	5.0	1.0	2.0	5.0
Baton Rouge, La.	3.0	2.0	3.0	3.0	2.0	1.0	1.0	2.0
			WEST					
Stuttgart, Ark.	3.0	2.0	3.0	4.0	2.0	1.0	2.0	4.0
Tishomingo, Okla.	1.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Curtis, La.	3.0	3.0	2.0	3.0	4.0	2.0	2.0	4.0

Table 34. (Continued)

Location	N46-2802	N46-2872	N46-2881	N46-3008	N47-3332	N47-3470	N47-3479	N47-309
			EAST COAST					
Petersburg, Va.	3.0	3.0	3.0	4.0	2.0	4.0	2.0	2.0
Plymouth, N. C.	3.8	4.0	3.3	5.0	3.8	4.0	3.0	3.5
Willard, N. C.	3.5	4.3	3.3	5.0	3.8	3.5	3.5	3.0
McCullers, N. C.	3.0	3.0	2.0	4.8	3.3	2.3	2.3	3.3
Florence, S. C.	3.8	2.8	2.0	4.8	3.5	2.2	2.0	2.0
			SOUTHEAST					
Monetta, S. C.	3.3	3.3	2.0	5.0	2.0	2.0	2.0	2.8
Charleston, S. C.	3.0	3.0	2.0	3.0	2.0	1.0	2.0	3.0
Tifton, Ga.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Tallassee, Ala.	1.0	1.6	1.6	2.6	2.0	1.3	1.0	2.0
Monticello, Fla.	2.0	2.0	2.0	3.0	3.0	2.0	1.0	2.0
Marianna, Fla.	2.0	1.7	2.0	2.3	2.7	1.5	1.0	1.3
McKinnonville, Fla.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Fairhope, Ala.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Poplarville, Miss.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
			UPPER AND CENTRAL SOUTH					
Clemson, S. C.	4.0	5.0	2.0	5.0	3.0	2.0	3.0	4.0
Experiment, Ga.	1.0	1.0	1.0	3.0	2.0	1.0	1.0	2.0
State College, Miss.	2.0	2.0	2.0	3.0	2.0	1.0	1.0	1.0
			DELTA					
Marianna, Ark.	2.0	2.0	1.0	3.0	2.0	1.0	1.0	4.0
Stoneville, Miss.	3.0	3.0	2.0	3.7	3.7	2.7	2.0	2.0
Louise, Miss.	3.3	3.7	2.7	4.3	4.7	3.3	2.3	2.7
St. Joseph, La.	3.0	4.0	2.0	2.0	4.0	1.0	1.0	1.0
Baton Rouge, La.	3.0	2.0	2.0	2.0	3.0	3.0	2.0	2.0
			WEST					
Stuttgart, Ark.	3.0	3.0	2.0	4.0	3.0	3.0	1.0	3.0
Tishomingo, Okla.	1.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Curtis, La.	3.0	3.0	3.0	3.0	4.0	3.0	3.0	3.0

Table 35. Seed quality scores for the strains in Uniform Group VII, 1950

Location	Roan-oke	Vol-state	N45-3036	N45-3563	N45-3728	Dortch. 31	N45-3799	N46-2652
			EAST COAST					
Petersburg, Va.	1.0	1.0	2.0	1.0	1.0	3.0	1.0	1.0
Holland, Va.	1.0	1.0	1.0	2.0	1.0	1.0	1.0	2.0
Plymouth, N. C.	1.5	2.0	2.5	3.0	3.5	2.0	2.0	3.5
Willard, N. C.	1.0	1.5	2.0	1.0	1.5	1.5	2.0	2.0
McCullers, N. C.	2.0	2.0	1.0	4.0	2.0	1.8	2.0	3.0
Florence, S. C.	2.0	2.2	2.0	2.0	2.2	2.0	2.0	2.0
			SOUTHEAST					
Monetta, S. C.	1.5	1.5	2.0	2.0	1.5	1.5	1.5	1.5
Charleston, S. C.	4.0	4.0	4.0	5.0	4.0	5.0	5.0	5.0
Tifton, Ga.	2.0	3.0	3.0	2.0	2.0	2.0	3.0	2.0
Tallassee, Ala.	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Monticello, Fla.	2.0	2.0	2.5	2.0	2.0	2.0	2.0	2.0
Marianna, Fla.	2.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0
McKinnonville, Fla.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Poplarville, Miss.	2.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0
			UPPER AND CENTRAL SOUTH					
Clemson, S. C.	2.0	1.0	2.0	2.0	1.0	1.0	2.0	2.0
			DELTA					
Marianna, Ark.	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Stoneville, Miss.	1.0	1.0	2.3	2.0	2.0	3.0	2.0	1.0
Louise, Miss.	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
St. Joseph, La.	3.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0
Baton Rouge, La.	1.0	1.0	1.0	2.0	1.0	1.0	1.0	2.0
			WEST					
Stuttgart, Ark.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Tishomingo, Okla.	2.0	2.0	3.0	4.0	3.0	3.0	3.0	3.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Curtis, La.	1.0	1.0	1.0	2.0	1.0	1.0	1.0	2.0

Table 35. (Continued)

Location	N46-2802	N46-2872	N46-2881	N46-3008	N47-3332	N47-3470	N47-3479	N47-309
			EAST COAST					
Petersburg, Va.	1.0	1.0	1.0	1.0	2.0	1.0	1.0	2.0
Holland, Va.	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Plymouth, N. C.	2.5	2.0	2.0	2.0	2.5	2.5	2.0	2.0
Willard, N. C.	2.0	1.5	1.5	2.0	2.2	1.5	2.0	1.5
McCullers, N. C.	3.0	2.0	2.0	3.0	2.0	2.0	2.0	1.0
Florence, S. C.	2.2	1.8	2.0	2.0	1.8	2.0	1.5	2.0
			SOUTHEAST					
Monetta, S. C.	1.5	1.5	1.5	2.0	1.0	1.5	1.5	1.5
Charleston, S. C.	5.0	3.0	3.0	4.0	4.0	3.0	4.0	4.0
Tifton, Ga.	2.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0
Tallassee, Ala.	1.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0
Monticello, Fla.	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Marianna, Fla.	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
McKinnonville, Fla.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Poplarville, Miss.	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
			UPPER AND CENTRAL SOUTH					
Clemson, S. C.	1.0	1.0	2.0	2.0	1.0	2.0	1.0	1.0
			DELTA					
Marianna, Ark.	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Stoneville, Miss.	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
Louise, Miss.	2.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0
St. Joseph, La.	3.0	4.0	4.0	3.0	4.0	4.0	4.0	1.0
Baton Rouge, La.	1.0	1.0	2.0	2.0	1.0	1.0	2.0	1.0
			DELTA					
Stuttgart, Ark.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Tishomingo, Okla.	3.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Curtis, La.	2.0	3.0	3.0	2.0	1.0	2.0	2.0	1.0

Table 36. Seed weight, in grams per 100 seeds, for the strains in Uniform Group VII, 1950

Location	Roan-oke	Vol-state	N45-3036	N45-3563	N45-3728	Dortch. 31	N45-3799	N46-2652
			EAST COAST					
Petersburg, Va.	17.0	17.0	20.0	16.0	16.0	18.0	17.0	16.0
Holland, Va.	19.0	18.4	21.0	17.7	16.8	18.0	17.0	17.6
Plymouth, N. C.	15.7	15.5	19.0	16.1	14.4	15.1	13.1	15.1
Willard, N. C.	17.2	16.2	19.9	16.4	16.3	16.1	14.4	17.3
McCullers, N. C.	19.7	19.1	22.5	19.1	17.7	20.1	18.1	17.4
Florence, S. C.	13.0	13.0	17.4	14.0	12.6	13.1	13.0	13.8
Mean	16.9	16.5	20.0	16.6	15.6	16.7	15.4	16.2
			SOUTHEAST					
Monetta, S. C.	17.2	17.1	21.7	17.4	15.3	17.6	17.4	16.1
Charleston, S. C.	21.0	18.2	19.9	15.5	14.7	18.6	20.4	19.3
Tifton, Ga.	15.8	17.1	16.8	14.3	12.8	14.0	12.0	15.2
Tallassee, Ala.	16.1	17.7	19.1	15.9	14.9	16.0	15.0	16.5
Monticello, Fla.	16.3	12.9	16.4	13.8	12.8	13.2	14.0	14.6
Marianna, Fla.	16.4	12.9	16.3	13.9	12.9	13.1	14.1	14.5
Milton, Fla.	17.0	15.5	20.0	16.0	14.0	15.5	16.0	15.5
McKinnonville, Fla.	21.1	20.1	22.3	18.8	17.9	20.9	18.7	17.4
Poplarville, Miss.	12.4	10.9	13.9	10.9	10.4	11.1	11.6	12.0
Mean	17.0	15.8	18.5	15.2	14.0	15.6	15.5	15.7
			UPPER AND CENTRAL SOUTH					
Clemson, S. C.	15.5	15.2	17.3	16.5	14.3	14.2	15.6	15.7
			DELTA					
Stoneville, Miss.	17.6	13.4	18.0	15.3	14.5	15.3	14.3	16.3
Louise, Miss.	15.9	15.4	17.2	15.8	14.5	14.5	13.4	16.4
Baton Rouge, La.	15.3	13.3	14.7	12.7	11.8	13.7	12.3	11.9
Mean	16.3	14.0	16.6	14.6	13.6	14.5	13.3	14.9
			WEST					
Stuttgart, Ark.	17.1	16.1	19.5	17.2	16.1	16.2	16.7	17.8
Tishomingo, Okla.	15.5	15.9	19.1	14.3	19.4	15.1	17.3	16.1
Chillicothe, Texas	17.0	17.0	18.0	15.0	16.0	17.0	17.0	15.0
Mean	16.5	16.3	18.9	15.5	17.2	16.1	17.0	16.3

Table 36. (Continued)

Location	N46-2802	N46-2872	N46-2881	N46-3008	N47-3332	N47-3470	N47-3479	N47-309
			EAST COAST					
Petersburg, Va.	17.0	18.0	18.0	15.0	16.0	18.0	18.0	15.0
Holland, Va.	16.5	17.6	17.7	14.8	17.8	17.0	17.5	15.7
Plymouth, N. C.	17.5	17.4	16.7	13.7	16.7	16.3	17.7	15.8
Willard, N. C.	18.0	17.5	16.0	14.7	17.6	17.6	17.3	16.2
McCullers, N. C.	20.0	19.3	18.7	16.8	17.9	18.9	19.4	17.3
Florence, S. C.	14.4	13.3	12.1	11.8	13.5	12.6	12.6	12.1
Mean	17.2	17.2	16.5	14.5	16.6	16.7	17.1	15.4
			SOUTHEAST					
Monetta, S. C.	17.2	19.6	16.2	15.7	17.6	18.1	17.3	16.6
Charleston, S. C.	18.8	17.9	16.9	17.8	18.0	18.2	16.3	19.9
Tifton, Ga.	14.3	14.8	14.6	12.7	13.9	13.0	15.4	14.3
Tallassee, Ala.	16.4	17.9	17.2	16.3	15.8	16.2	17.7	13.5
Monticello, Fla.	14.6	14.4	14.9	12.6	14.2	15.3	14.0	13.0
Marianna, Fla.	14.7	14.4	14.9	12.7	14.2	15.3	14.5	13.0
Milton, Fla.	17.5	17.0	15.5	14.0	15.0	16.5	16.0	16.0
McKinnonville, Fla.	19.6	21.4	18.7	17.3	17.9	21.3	20.2	19.1
Poplarville, Miss.	12.5	11.9	11.6	10.4	11.0	11.6	11.6	11.1
Mean	16.2	16.6	15.6	14.4	15.3	16.2	15.9	15.2
			UPPER AND CENTRAL SOUTH					
Clemson, S. C.	17.4	17.1	14.6	13.7	14.7	15.4	15.1	14.5
			DELTA					
Stoneville, Miss.	17.4	18.5	16.7	16.8	17.1	17.9	18.3	14.7
Louise, Miss.	15.7	17.8	15.4	15.4	16.4	16.8	16.0	13.6
Baton Rouge, La.	14.1	14.2	14.5	12.6	12.6	14.4	13.5	13.0
Mean	15.7	16.8	15.5	14.9	15.4	16.4	15.9	13.8
			WEST					
Stuttgart, Ark.	17.9	18.3	17.6	14.9	16.5	16.9	17.1	17.6
Tishomingo, Okla.	15.9	15.3	15.7	13.8	15.7	14.3	16.5	15.6
Chillicothe, Texas	17.0	16.0	16.0	16.0	15.0	19.0	17.0	16.0
Mean	16.9	16.5	16.4	14.9	15.7	16.7	16.9	16.4

Table 37. Seven-year summary of yield and oil content for Roanoke and Volstate, 1944 - 1950

Location	Yield in Bu. per Acre		Percent Oil	
	Roanoke	Volstate	Roanoke	Volstate
Plymouth, N. C.	31.3	30.9	-	-
McCullers, N. C.	35.3	32.6	21.9	21.3
Florence, S. C.	31.4	26.7	21.9	21.3
Tifton, Ga.	18.2	16.6	21.5	21.2
Clemson, S. C.	32.7	32.5	21.9	21.6
Experiment, Ga.	25.1	23.8	-	-
State College, Miss.	30.9	29.6	-	-
Stoneville, Miss.	34.3	31.9	21.7	21.1
Stuttgart, Ark.	22.1	21.1	21.6	21.3
Mean	29.0	27.3	21.8	21.3

Table 38. Two-year summary of seed yield data for strains in Uniform Group VII, 1949 - 1950

Location	Roanoke	Volstate	N45-3036	N45-3563	N45-3728	Dortchsoy #31
			EAST COAST			
Petersburg, Va.	37.8	38.2	36.7	31.7	44.8	47.1
Onley, Va.	36.0	32.8	35.0	30.2	32.1	37.5
Norfolk, Va.	32.9	35.0	31.6	31.9	35.3	34.5
Holland, Va.	40.6	40.8	45.4	41.7	43.9	43.8
Plymouth, N. C.	35.5	35.1	34.5	32.7	34.5	31.9
Willard, N. C.	33.3	32.5	34.6	35.8	30.5	33.4
McCullers, N. C.	35.2	33.2	36.6	35.8	34.0	36.9
Florence, S. C.	31.8	26.7	39.3	33.6	31.9	34.9
Mean	35.4	34.3	36.7	34.2	35.9	37.5
			SOUTHEAST			
Monetta, S. C.	30.2	27.5	36.4	32.2	36.0	33.4
Charleston, S. C.	17.3	19.7	20.2	17.9	20.5	22.5
Tifton, Ga.	18.6	15.3	22.2	20.9	24.4	17.4
Tallassee, Ala.	29.8	30.0	30.5	28.2	26.7	29.9
Davisville, Fla.	43.5	44.4	43.0	39.0	44.1	46.4
Fairhope, Ala.	26.0	27.3	28.4	29.6	24.4	27.0
Poplarville, Miss.	24.4	23.0	21.4	20.1	18.0	22.1
Mean	27.1	26.7	28.9	26.8	27.7	28.4
			UPPER AND CENTRAL SOUTH			
Clemson, S. C.	31.1	31.3	31.1	29.3	27.3	29.0
Experiment, Ga.	34.5	34.3	34.5	28.3	30.4	35.8
State College, Miss.	27.8	30.0	22.3	25.9	31.6	23.4
Mean	31.1	31.8	29.3	27.7	29.8	29.4
			DELTA			
Stoneville, Miss.	41.7	41.4	29.4	31.0	30.9	27.6
St. Joseph, La.	28.4	28.0	20.6	22.8	28.6	17.4
Baton Rouge, La.	24.6	25.7	25.2	30.0	34.8	32.1
Mean	31.6	31.7	25.1	27.9	31.4	25.7
			WEST			
Stuttgart, Ark.	26.5	24.7	27.1	28.7	27.1	22.5
Curtis, La.	30.0	31.8	28.4	31.9	36.0	27.0
Mean	28.2	28.2	27.8	30.3	31.6	24.8

Table 38. (Continued)

Location	N45-3799	N46-2652	N46-2802	N46-2872	N46-2881	N46-3008
		EAST COAST				
Petersburg, Va.	42.2	43.6	39.1	44.4	46.4	34.2
Onley, Va.	32.1	31.5	31.3	33.9	34.7	27.1
Norfolk, Va.	38.0	36.8	32.4	35.7	36.9	27.0
Holland, Va.	47.9	47.8	37.4	42.8	48.5	32.9
Plymouth, N. C.	36.6	30.3	32.2	39.5	37.5	35.2
Willard, N. C.	37.4	33.7	33.1	41.0	36.7	33.7
McCullers, N. C.	38.1	30.6	35.0	35.6	38.5	30.3
Florence, S. C.	35.5	28.8	32.8	34.2	32.8	32.6
Mean	38.5	35.4	34.2	38.4	39.0	31.6
		SOUTHEAST				
Monetta, S. C.	32.9	30.2	29.3	35.3	29.1	29.8
Charleston, S. C.	16.0	18.7	20.9	27.0	28.1	24.6
Tifton, Ga.	20.5	21.3	20.2	19.6	21.0	21.8
Tallassee, Ala.	23.7	27.1	24.7	34.7	33.2	27.6
Davisville, Fla.	40.5	40.9	42.4	46.9	45.2	38.3
Fairhope, Ala.	26.5	26.5	25.2	31.1	27.2	27.1
Poplarville, Miss.	15.8	18.5	18.9	26.9	20.9	20.1
Mean	25.1	26.2	25.9	31.6	29.3	27.0
		UPPER AND CENTRAL SOUTH				
Clemson, S. C.	25.1	27.5	29.3	28.6	29.7	29.9
Experiment, Ga.	37.3	27.9	28.0	35.0	33.9	29.0
State College, Miss.	25.7	27.3	23.3	27.8	29.8	27.5
Mean	29.4	27.6	26.9	30.5	31.1	28.8
		DELTA				
Stoneville, Miss.	39.6	31.6	34.2	43.9	39.6	40.1
St. Joseph, La.	34.6	28.6	27.6	34.1	29.1	24.8
Baton Rouge, La.	24.6	27.2	27.9	27.4	26.5	22.6
Mean	32.9	29.1	29.9	35.1	31.7	29.2
		WEST				
Stuttgart, Ark.	26.7	23.6	26.4	27.3	24.0	22.3
Curtis, La.	30.6	35.7	31.8	38.2	32.6	32.4
Mean	28.6	29.6	29.1	32.8	28.3	27.4

Table 39. Two-year summary of oil percentage data for strains in Uniform Group VII, 1949-1950

Location	Roanoke	Vol-state	N45-3036	N45-3563	N45-3728	Dortch. #31	N45-3799	N46-2652	N46-2802	N46-2872	N46-2881	N46-3008
Petersburg, Va.	20.8	20.8	19.6	19.7	19.6	20.2	20.6	20.0	20.4	19.7	20.8	20.1
McCullers, N. C.	21.4	20.8	20.2	20.8	19.8	20.2	20.4	20.2	20.4	20.0	20.8	20.6
Florence, S. C.	21.5	20.9	20.2	21.2	19.6	20.6	20.4	20.4	20.8	20.5	21.4	20.5
Tifton, Ga.	22.1	21.9	20.6	20.8	21.2	21.2	21.6	21.2	21.8	21.6	22.8	22.1
Fairhope, Ala.	22.9	22.3	21.3	22.9	21.8	22.2	22.8	22.0	23.0	22.8	23.4	23.2
Davisville, Fla.	23.0	22.7	21.2	22.8	21.0	21.8	21.8	22.0	22.6	22.3	23.1	23.4
Clemson, S. Car.	22.5	21.6	21.8	21.6	20.6	21.4	21.8	20.8	21.8	21.6	21.8	21.8
Stoneville, Miss.	22.0	21.5	20.1	21.5	20.3	20.2	20.9	21.0	21.2	21.4	22.2	22.0
Baton Rouge, La.	22.6	22.4	21.0	23.0	21.7	21.6	21.6	21.6	22.2	22.6	23.4	22.8
Stuttgart, Ark.	21.3	21.0	20.2	21.4	20.5	20.1	20.6	20.4	20.7	20.1	21.6	21.2
Mean	22.0	21.6	20.6	21.7	20.6	20.9	21.3	21.0	21.5	21.3	22.1	21.8

Table 40. Three-year summary of seed yield data for strains in Uniform Group VII, 1948 - 1950

Location	Roan-oke	Vol-state	N45-3036	N45-3563	N45-3728	Dortchsoy #31
			EAST COAST			
Petersburg, Va.	35.4	36.1	36.0	34.3	43.5	43.9
Norfolk, Va.	27.5	28.6	28.9	26.5	29.2	29.6
Holland, Va.	41.6	40.2	46.0	43.4	42.4	44.3
Plymouth, N. Car.	33.7	31.7	32.4	31.8	33.6	29.4
Willard, N. Car.	34.7	33.3	34.4	34.7	29.8	32.8
McCullers, N. Car.	29.9	30.0	31.6	29.5	28.9	32.2
Florence, S. Car.	34.9	28.4	38.3	34.1	33.0	34.5
Mean	34.0	32.6	35.4	33.5	34.3	35.2
			SOUTHEAST			
Monetta, S. Car.	30.1	27.3	34.3	31.7	34.7	32.1
Charleston, S. Car.	21.7	22.8	22.1	24.8	23.9	24.8
Tifton, Ga.	19.3	15.1	24.1	23.1	29.4	18.9
Tallassee, Ala.	31.6	31.3	32.9	29.6	27.4	31.0
Fairhope, Ala.	26.4	26.5	27.8	29.4	26.7	26.6
Mean	25.8	24.6	28.2	27.8	28.4	26.7
			UPPER AND CENTRAL SOUTH			
Clemson, S. Car.	28.7	28.2	27.0	25.8	22.9	26.3
State College, Miss.	29.0	28.6	24.7	27.3	29.2	25.7
Mean	28.9	28.4	25.9	26.6	26.1	26.0
			DELTA			
Stoneville, Miss.	36.4	36.3	27.3	29.4	27.1	25.3
St. Joseph, La.	29.2	30.7	24.0	25.6	29.3	18.7
Baton Rouge, La.	23.1	23.6	23.1	26.3	28.4	28.4
Mean	29.6	30.2	24.8	27.1	28.3	24.1
			WEST			
Stuttgart, Ark.	26.5	24.4	26.6	27.2	26.9	22.9
Curtis, La.	29.0	30.0	27.5	30.0	32.4	28.3
Mean	27.8	27.2	27.0	28.6	29.6	25.6

Table 41. Three-year summary of oil percentage data for strains in Uniform Group VII, 1948 - 1950

Location	Roan-oke	Vol-state	N45-3036	N45-3563	N45-3728	Dortchsoy #31
Petersburg, Va.	20.6	20.6	19.6	19.8	19.4	20.1
McCullers, N. C.	21.7	21.1	20.4	20.9	20.1	20.8
Florence, S. C.	21.8	21.2	20.3	21.2	19.6	20.7
Fairhope, Ala.	22.5	21.8	21.1	22.7	21.4	21.5
Clemson, S. C.	21.6	20.9	20.8	20.4	19.5	20.5
Stoneville, Miss.	21.9	21.4	20.1	21.4	20.2	20.0
Baton Rouge, La.	23.4	22.8	21.7	23.1	21.6	21.8
Stuttgart, Ark.	21.0	20.7	19.9	21.1	20.4	19.9
Mean	21.8	21.3	20.5	21.3	20.3	20.7

UNIFORM GROUP VIII, 1950

UNIFORM GROUP VIII, 1950

Strain or Variety	Source or Originating Agency	Origin
Acadian	La. Agric. Expt. Station	Sel. from P.I. 60406 x P.I. 04910
Seminole	U. S. Dept. of Agric.	Plant Introduction No. 93058 from Hangchow, China
J.E.W. 45	J. E. Wannamaker St. Matthews, S. C.	Sel. from a mixed seed lot
Yelnando	Coker Pedigreed Seed Co. Hartsville, S. C.	Sel. from Yelredo x Nanda
P.I. 85897	U. S. Dept. of Agric.	Introduction from Shiznoke, Japan
Majos	Coker Pedigreed Seed Co. Hartsville, S. C.	Sel. from Tokyo x Yelredo
La 41-1219 1/	La. Agric. Expt. Station	Sel. from Tanloxi x P.I. 60406
Mamotan 6680	Delta Branch Expt. Station	Sel. from Mammoth Yellow x Otootan
Acadian 299	La. Agric. Expt. Station	Sel. from Acadian
La 48-268	La. Agric. Expt. Station	Sel. from P.I. 104,881 from Nanking, China
La 48-275	La. Agric. Expt. Station	Sel. from P.I. 85897
La 48-300-B	La. Agric. Expt. Station	Sel. from Tanloxi x P.I. 60406

1/Strain La 41-1219 has been named and released as Improved Pelican.

Seventeen Group VIII nurseries were planted. Results of 14 of these plantings are summarized in tables 42 through 48. The yield for Acadian, the check variety of this group, was below 20 bushels per acre in 8 of the 14 plantings summarized. The low yields in the Southeast can be partially attributed to a dry September and October, which affected the late varieties more than the earlier varieties. A considerable amount of pod puncturing by the green stink bug, Nezara hilaris, occurred at several locations.

The varieties of Group VIII maturity will normally mature in early November in the Gulf Coast Area. At several locations, maturity was hastened because of drought. Acadian, the check variety, makes rather tall growth, holds its seed very well, and usually produces seed of high quality. At most locations, strains of Group VII maturity normally give higher seed yields with higher oil content. At Baton Rouge, the later-maturing types have consistently given highest seed yields along with good quality seed.

In the Southeast, J.E.W. 45 yielded significantly better than Acadian in 6 of the 10 comparisons. However, at Baton Rouge and Curtis, Louisiana, J.E.W. 45 yielded significantly less than Acadian. This would suggest location adaptation for these strains. The two-year data reported in table 49 shows a similar response.

The two strains, Yelnando and Majos, have given yields quite comparable to J.E.W. 45. Oil content of these three strains is also quite comparable.

The strain La 41-1219 has been grown for two years. This strain is quite comparable to Acadian in general growth characters. On the basis of two-year data, La 41-1219 gives seed yields quite comparable to Acadian with slightly higher oil content. This strain is being increased in Louisiana and is being designated Improved Pelican.

Five strains were grown for the first time. These are: Mamotan 6680, Acadian 299, La 48-268, La 48-275, and La 48-300-B. Mamotan 6680, La 48-268, and La 48-275 all had lower oil content than Acadian. La 48-275, a selection from P.I. 85897, gave a performance comparable to the parent line, but is more uniform. La 48-268 gave indications of severe shattering at several locations. Acadian 299 and La 48-300-B were very similar to Acadian in performance.

Table 42. Yield data, in bushels per acre, for the strains in Uniform Group VIII, 1950

Location	Acadian	Seminole	J.E.W. 45	Yelnando	P.I. 85897	Majos
			SOUTHEAST			
Hartsville, S. C.	23.5	27.1	28.2+	30.7+	26.2	32.0+
Monetta, S. C.	11.7	33.4+	33.0+	28.8+	25.2+	29.0+
Experiment, Ga.	14.7	23.2+	25.5+	21.3+	23.4+	20.3+
Tifton, Ga.	10.6	14.3+	9.6	10.6	12.7	13.1
Tallassee, Ala.	20.2	18.2	24.7+	30.1+	15.5-	31.7+
Monticello, Fla.	9.6	11.0	10.3	8.8	9.2	8.3
Marianna, Fla.	13.2	13.3	20.5+	12.9	-	10.3
Milton, Fla.	18.1	22.4	24.9	21.5	22.4	21.7
McKinnonville, Fla.	31.5	38.9+	37.5+	37.5+	32.5	33.9
Poplarville, Miss.	11.4	13.4	13.1	12.9	12.5	10.5
Mean	16.4	21.5	22.7	21.5	20.0	21.1
			DELTA			
Stoneville, Miss.	29.9	20.9-	33.7	27.5	25.8	40.8+
Baton Rouge, La.	29.2	26.8	23.8-	20.3-	21.1-	25.5
Mean	29.6	23.8	28.8	23.9	23.4	33.2
			WEST			
Curtis, La.	30.6	25.4-	17.6-	19.5-	19.2-	18.9-
Chillicothe, Texas	1.4	1.8	11.1	9.2	1.0	6.0

(+) - Strains yielding significantly more (odds 19:1 or greater) than Acadian.

(-) - Strains yielding significantly less (odds 19:1 or greater) than Acadian.

Table 42. (Continued)

Location	La 41-1219	Mamotan 6680	Acadian 299	La 48-268	La 48-275	La 48-300-B	L.S.D. (5%)	C.V.
			SOUTHEAST					
Hartsville, S. C.	19.3	22.4	21.9	23.5	26.6	19.3	4.3	10%
Monetta, S. C.	11.8	23.7+	12.5	27.8+	28.7+	4.1	3.5	8%
Experiment, Ga.	21.3+	16.6	18.4	22.4+	23.5+	20.6+	5.6	19%
Tifton, Ga.	9.4	9.1	11.0	9.7	11.6	12.5	3.1	13%
Tallassee, Ala.	23.4	24.0	23.7	23.5	15.9	19.4	4.6	12%
Monticello, Fla.	10.8	8.6	6.7-	10.4	9.7	10.4	1.7	9%
Marianna, Fla.	7.7-	16.6	-	24.6+	2.4-	9.1	4.7	21%
Milton, Fla.	19.2	24.3	18.1	22.0	22.8	17.7	7.0	6%
McKinnonville, Fla.	31.8	37.0+	31.3	38.7+	35.3+	30.3	3.7	6%
Poplarville, Miss.	12.0	13.0	12.2	11.3	12.3	12.5	N.S.	14%
Mean	16.7	19.5	17.3	21.4	18.9	15.6		
			DELTA					
Stoneville, Miss.	22.7-	38.1+	24.8	27.1	26.9	27.6	5.9	12%
Baton Rouge, La.	28.9	26.4	29.5	22.3-	20.1-	29.0	4.5	12%
Mean	25.8	32.2	27.2	24.7	23.5	28.3		
			WEST					
Curtis, La.	30.1	20.5-	29.6	22.6-	23.1-	28.8	4.5	13%
Chillicothe, Texas	2.7	4.7	1.6	2.1	.8	1.4	1.7	32%

Table 43. Chemical composition of the strains in Uniform Group VIII, 1950

Location	Acadian	Seminole	J.E.W. 45	Yelnando	P.I. 85897	Majos
			PERCENTAGE OIL			
Monetta, S. C.	17.3	18.5	18.5	17.9	17.4	18.8
Tallassee, Ala.	20.9	18.9	20.0	20.8	19.3	19.2
Milton, Fla.	22.3	21.6	21.3	21.8	20.0	21.2
McKinnonville, Fla.	20.7	20.5	20.6	19.5	18.8	19.4
Baton Rouge, La.	22.2	22.4	21.0	22.8	22.5	23.7
Stoneville, Miss.	20.5	20.3	20.8	20.3	19.5	20.0
Mean	20.7	20.4	20.4	20.5	19.6	20.4
			PERCENTAGE PROTEIN			
Monetta, S. C.	42.9	43.5	41.6	43.0	43.3	39.3
Tallassee, Ala.	40.9	43.4	42.0	40.2	42.1	40.9
Milton, Fla.	39.9	42.0	43.0	41.1	43.0	40.1
McKinnonville, Fla.	40.3	43.6	41.7	42.4	42.7	39.9
Baton Rouge, La.	40.2	41.1	41.7	38.1	38.6	36.1
Stoneville, Miss.	43.9	43.5	42.3	43.3	42.4	40.5
Mean	41.4	42.8	42.0	41.4	42.0	39.5
			IODINE NUMBER OF THE OIL			
Monetta, S. C.	136.6	135.1	130.9	130.1	131.2	130.5
Tallassee, Ala.	134.6	133.2	128.8	128.7	129.3	129.8
Milton, Fla.	134.0	130.3	128.2	128.4	128.3	128.0
McKinnonville, Fla.	133.1	130.9	126.7	126.9	129.9	129.8
Baton Rouge, La.	130.1	126.7	123.8	124.7	129.2	127.6
Stoneville, Miss.	134.6	132.4	130.2	127.3	130.6	129.2
Mean	133.8	131.4	128.1	127.7	129.8	129.1

Table 43. (Continued)

Location	La 41-1219	Mamotan 6680	Acadian 299	La 48-268	La 48-275	La 48-300-B
			PERCENTAGE OIL			
Monetta, S. C.	18.2	17.2	18.3	18.4	17.1	18.3
Tallassee, Ala.	20.6	18.9	20.2	18.5	18.5	19.2
Milton, Fla.	21.1	22.3	23.4	20.8	20.7	22.8
McKinnonville, Fla.	20.9	19.2	20.5	19.9	19.2	20.3
Baton Rouge, La.	22.6	21.2	22.9	22.1	22.3	23.4
Stoneville, Miss.	20.5	19.2	19.9	18.9	19.6	20.6
Mean	20.6	19.7	20.9	19.8	19.6	20.8
			PERCENTAGE PROTEIN			
Monetta, S. C.	41.8	44.1	42.5	41.2	43.1	43.4
Tallassee, Ala.	41.2	41.3	41.0	43.5	42.1	42.7
Milton, Fla.	41.3	40.0	38.4	42.7	43.0	40.2
McKinnonville, Fla.	40.1	42.2	40.9	43.0	49.9	40.4
Baton Rouge, La.	39.3	39.8	39.4	39.2	38.8	37.4
Stoneville, Miss.	43.2	43.9	44.1	44.1	43.4	43.7
Mean	41.2	41.9	41.0	42.3	43.4	41.3
			IODINE NUMBER OF THE OIL			
Monetta, S. C.	137.2	135.3	138.1	130.9	130.4	137.4
Tallassee, Ala.	136.4	134.0	137.1	130.6	129.1	135.8
Milton, Fla.	131.7	132.4	133.1	126.6	129.3	133.2
McKinnonville, Fla.	133.3	132.4	132.6	126.7	132.0	132.9
Baton Rouge, La.	131.2	129.8	130.7	125.7	129.8	132.1
Stoneville, Miss.	134.2	133.3	134.8	129.3	130.6	134.4
Mean	134.0	132.9	134.4	128.3	130.2	134.3

Table 44. Relative maturity data, days earlier (-) or later (+) than Acadian, for the strains in Uniform Group VIII, 1950

Location	Date Planted	Acadian Matured	Seminole	J.E.W. 45	Yel-nando	P.I. 85897	Majos
			SOUTHEAST				
Monetta, S. C.	5-16	11-6	-4	-4	-4	-4	-4
Experiment, Ga.	5-11	11-10	+1	+3	+3	-1	+10
Tifton, Ga.	4-26	10-22	0	+1	+1	0	+5
Monticello, Fla.	6-30	11-9	-7	-15	-7	-7	-10
Marianna, Fla.	6-2	11-13	-7	+13	-7	-	-9
Milton, Fla.	6-6	10-25	0	0	0	0	0
McKinnonville, Fla.	6-17	10-20	+4	+4	+1	0	0
Poplarville, Miss.	6-13	10-25	0	0	0	0	0
Mean			-2	0	+2	-2	0
			DELTA				
Stoneville, Miss.	5-9	11-5	0	-4	0	0	0
Baton Rouge, La.	6-14	10-28	-3	-8	+5	+5	+5
Mean			-1	-6	+2	+2	+2
			WEST				
Curtis, La.	5-25	11-8	0	-7	+4	+2	+7

Table 44. (Continued)

Location	La 41-1219	Mamotan 6680	Acadian 299	La 48-268	La 48-275	La 48-300-B
			SOUTHEAST			
Monetta, S. C.	0	-4	0	-9	-4	-4
Experiment, Ga.	+2	+2	+1	-5	-2	+1
Tifton, Ga.	+1	0	0	0	0	0
Monticello, Fla.	+7	-7	-4	-18	-7	+4
Marianna, Fla.	-	-6	0	+10	-7	+2
Milton, Fla.	0	0	0	-12	0	0
McKinnonville, Fla.	-1	0	-2	+6	-2	-2
Poplarville, Miss.	0	0	0	0	0	0
Mean	+1	-2	-1	-4	-3	0
			DELTA			
Stoneville, Miss.	0	0	0	-4	0	0
Baton Rouge, La.	+2	0	0	-10	+5	+4
Mean	+1	0	0	-7	+2	+2
			WEST			
Curtis, La.	+2	+2	0	-11	+2	0

Table 45. Height data for the strains in Uniform Group VIII, 1950

Location	Acadian	Seminole	J.E.W. 45	Yel-nando	P.I. 85897	Majos
			SOUTHEAST			
Monetta, S. C.	58	48	43	48	42	39
Experiment, Ga.	54	34	32	41	38	31
Tifton, Ga.	55	38	36	45	38	37
Tallassee, Ala.	67	47	44	56	50	47
Monticello, Fla.	34	30	23	33	30	26
Marianna, Fla.	62	41	38	50	-	41
Milton, Fla.	56	41	40	45	47	35
McKinnonville, Fla.	43	33	36	38	36	37
Poplarville, Miss.	54	44	42	48	44	38
Mean	54	40	37	45	41	37
			DELTA			
Stoneville, Miss.	72	49	44	55	49	46
Baton Rouge, La.	65	40	39	48	38	35
Mean	69	44	42	52	44	40
			WEST			
Curtis, La.	70	45	38	40	38	33
Chillicothe, Texas	30	22	31	35	34	25
Mean	50	34	34	37	36	29

Table 45. (Continued)

Location	La 41-1219	Mamotan 6680	Acadian 299	La 48-268	La 48-275	La 48-300-B
			SOUTHEAST			
Monetta, S. C.	55	49	56	34	40	53
Experiment, Ga.	56	40	55	31	38	56
Tifton, Ga.	57	49	53	30	37	54
Tallassee, Ala.	58	54	68	45	50	61
Monticello, Fla.	29	29	31	23	33	31
Marianna, Fla.	64	43	64	32	48	63
Milton, Fla.	56	43	59	38	45	59
McKinnonville, Fla.	47	41	49	32	37	46
Poplarville, Miss.	56	40	54	36	40	54
Mean	53	43	54	33	41	53
			DELTA			
Stoneville, Miss.	72	52	72	38	48	72
Baton Rouge, La.	64	48	66	38	44	72
Mean	68	50	69	38	46	72
			WEST			
Curtis, La.	72	45	72	33	35	72
Chillicothe, Texas	38	30	38	25	30	35
Mean	55	37	55	29	33	54

Table 46. Lodging scores for the strains in Uniform Group VIII, 1950

Location	Acadian	Seminole	J.E.W. 45	Yel-nando	P.I. 85897	Majos
		SOUTHEAST				
Monetta, S. C.	3.5	3.0	3.0	5.0	4.5	5.0
Experiment, Ga.	4.0	3.0	2.0	2.0	2.0	2.0
Tifton, Ga.	1.0	1.0	1.0	1.0	1.0	1.0
Tallassee, Ala.	2.6	4.0	2.3	2.3	2.6	3.3
Monticello, Fla.	3.0	4.0	3.0	2.0	3.0	4.0
Marianna, Fla.	3.0	4.0	3.3	1.7	-	3.2
Milton, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
McKinnonville, Fla.	2.0	2.0	2.0	4.0	2.0	3.0
Poplarville, Miss.	2.0	2.0	1.0	2.0	2.0	2.0
		DELTA				
Stoneville, Miss.	3.5	3.5	3.0	4.0	3.0	3.0
Baton Rouge, La.	3.0	3.0	3.0	3.0	3.0	3.0
		WEST				
Curtis, La.	4.0	4.0	3.0	3.0	3.0	3.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0	1.0

Table 46. (Continued)

Location	La 41-1219	Mamotan 6680	Acadian 299	La 48-268	La 48-275	La 48-300-B
			SOUTHEAST			
Monetta, S. C.	3.5	3.5	3.0	5.0	5.0	2.0
Experiment, Ga.	3.0	2.0	3.0	2.0	3.0	3.0
Tifton, Ga.	1.0	1.0	1.0	1.0	1.0	1.0
Tallassee, Ala.	2.3	2.0	3.3	3.3	2.3	2.3
Monticello, Fla.	3.0	3.0	3.0	2.0	3.0	2.0
Marianna, Fla.	3.0	3.0	4.0	2.0	2.0	2.0
Milton, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
McKinnonville, Fla.	2.0	2.0	2.0	3.0	3.0	3.0
Poplarville, Miss.	2.0	1.0	1.0	2.0	1.0	2.0
			DELTA			
Stoneville, Miss.	3.5	3.0	3.5	3.0	3.0	3.0
Baton Rouge, La.	3.0	2.0	3.0	3.0	2.0	2.0
			WEST			
Curtis, La.	4.0	4.0	4.0	3.0	3.0	4.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0	1.0

Table 47. Seed quality scores for the strains in Uniform Group VIII, 1950

Location	Acadian	Seminole	J.E.W. 45	Yel-nando	P.I. 85897	Majos
		SOUTHEAST				
Monetta, S. C.	2.0	2.0	1.0	1.0	2.0	2.0
Tifton, Ga.	2.0	2.0	2.0	2.0	3.0	3.0
Tallassee, Ala.	2.0	2.0	2.0	3.0	3.0	2.0
Monticello, Fla.	4.0	4.0	3.0	4.0	5.0	5.0
Marianna, Fla.	4.0	4.0	3.0	5.0	-	4.0
Milton, Fla.	2.0	2.0	2.0	2.0	2.0	2.0
McKinnonville, Fla.	1.0	1.0	1.0	1.0	2.0	1.0
Poplarville, Miss.	3.0	3.0	2.0	3.0	3.0	3.0
		DELTA				
Stoneville, Miss.	1.0	1.0	1.0	1.0	1.0	2.0
Baton Rouge, La.	1.0	2.0	2.0	1.0	1.0	1.0
		WEST				
Curtis, La.	2.0	2.0	3.0	3.0	3.0	3.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0	1.0

Table 47. (Continued)

Location	La 41-1219	Mamotan 6680	Acadian 299	La 48-268	La 48-275	La 48-300-B
		SOUTHEAST				
Monetta, S. C.	2.0	2.0	3.0	1.0	2.0	2.0
Tifton, Ga.	2.0	2.0	2.0	2.0	3.0	2.0
Tallassee, Ala.	2.0	2.0	2.0	2.0	3.0	2.0
Monticello, Fla.	4.0	2.0	4.0	3.0	4.0	4.0
Marianna, Fla.	5.0	3.0	5.0	3.0	4.0	4.0
Milton, Fla.	2.0	2.0	2.0	2.0	2.0	2.0
McKinnonville, Fla.	1.0	2.0	1.0	1.0	1.0	1.0
Poplarville, Miss.	3.0	3.0	3.0	2.0	3.0	2.0
		DELTA				
Stoneville, Miss.	1.0	1.0	1.0	1.0	1.0	1.0
Baton Rouge, La.	1.0	1.0	1.0	1.0	1.0	1.0
		WEST				
Curtis, La.	2.0	2.0	2.0	2.0	3.0	2.0
Chillicothe, Texas	1.0	1.0	1.0	1.0	1.0	1.0

Table 48. Weight of seed, in grams per 100 seeds, for the strains in Uniform Group VIII, 1950

Location	Acadian	Seminole	J.E.W. 45	Yel-nando	P.I. 85897	Majos
			SOUTHEAST			
Monetta, S. C.	14.2	31.4	21.7	17.9	15.6	21.0
Tifton, Ga.	11.8	21.5	13.8	12.7	14.6	14.7
Tallassee, Ala.	12.0	31.2	20.7	19.2	16.0	20.1
Monticello, Fla.	11.5	23.9	16.3	15.3	14.2	17.4
Marianna, Fla.	11.6	24.6	16.5	15.2	-	17.2
Milton, Fla.	11.2	27.4	18.6	15.7	13.1	17.9
McKinnonville, Fla.	11.9	28.5	20.3	15.3	13.5	18.2
Poplarville, Miss.	10.7	23.1	13.0	12.8	11.5	13.8
Mean	11.9	26.4	17.6	15.5	14.1	17.5
			DELTA			
Stoneville, Miss.	11.9	24.3	18.5	18.6	14.4	22.2
Baton Rouge, La.	10.7	23.6	16.1	13.6	13.6	15.6
Mean	11.3	23.9	17.3	16.1	14.0	18.9
			WEST			
Chillicothe, Texas	15.0	25.0	19.0	15.0	14.0	17.0

Table 48. (Continued)

Location	La 41-1219	Mamot an 6680	Acadian 299	La 48-268	La 48-275	La 48-300-B
			SOUTHEAST			
Monetta, S. C.	11.1	14.1	12.4	15.0	15.5	11.1
Tifton, Ga.	9.5	10.4	11.0	12.0	11.7	10.1
Tallassee, Ala.	11.0	13.7	12.5	14.9	17.1	11.6
Monticello, Fla.	8.2	12.4	16.3	13.9	12.7	9.1
Marianna, Fla.	7.8	12.4	7.8	14.0	12.0	9.4
Milton, Fla.	9.4	12.9	10.7	13.0	14.6	9.8
McKinnonville, Fla.	11.1	13.1	12.2	15.5	15.3	10.6
Poplarville, Miss.	9.3	11.0	11.0	9.5	12.7	10.2
Mean	9.8	12.5	11.7	13.5	14.0	10.2
			DELTA			
Stoneville, Miss.	10.8	14.6	12.1	14.2	14.9	11.0
Baton Rouge, La.	9.9	12.2	11.2	11.9	14.2	10.1
Mean	10.3	13.4	11.7	13.0	14.5	10.5
			WEST			
Chillicothe, Texas	13.0	14.0	15.0	14.0	17.0	13.0

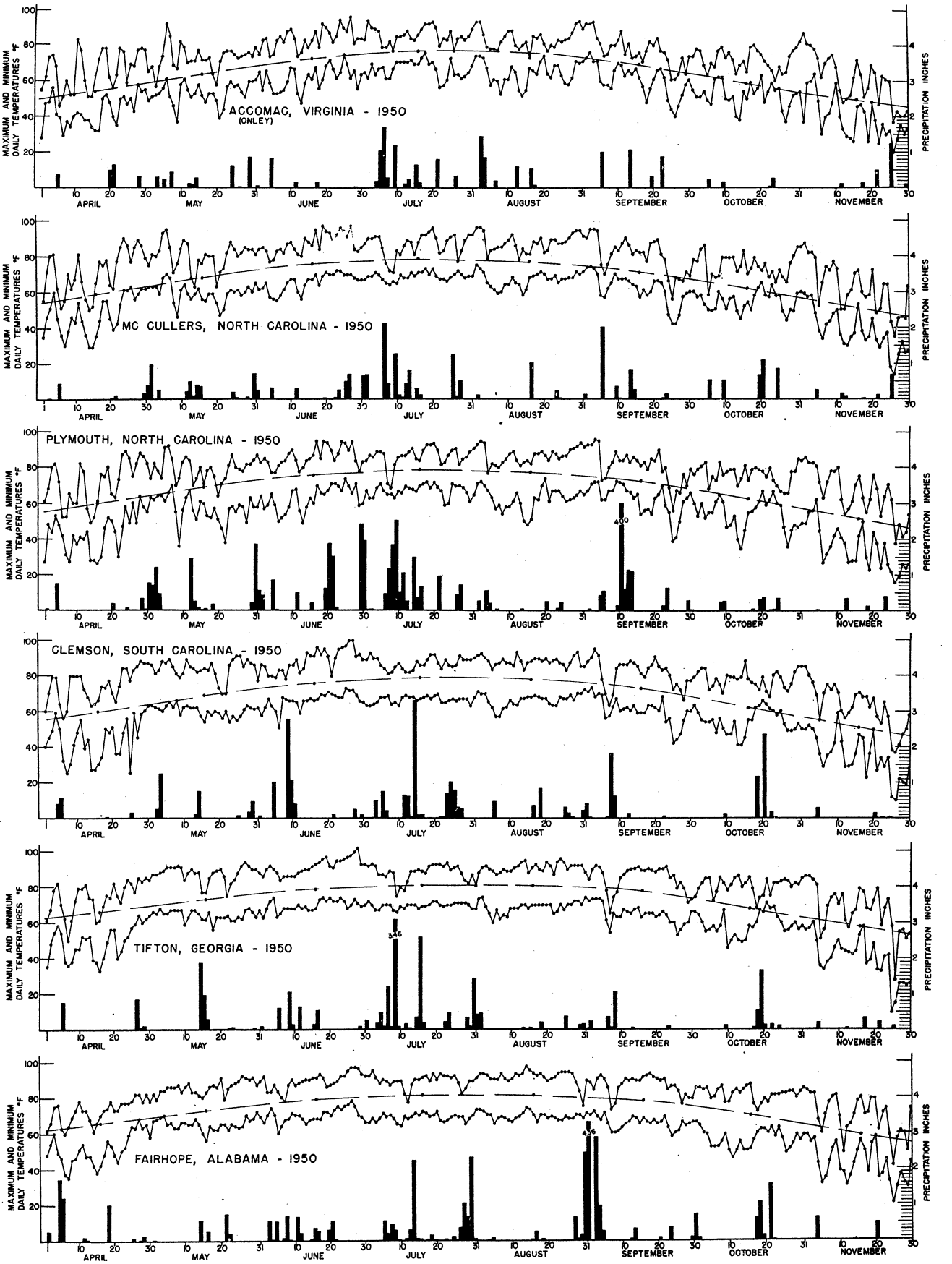
Table 49. Two-year summary of yield data for the strains in Uniform Group VIII, 1949 - 1950

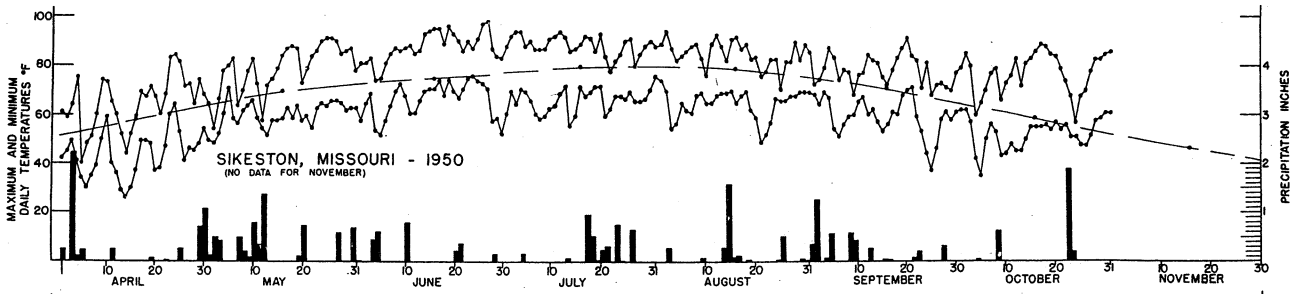
Location	Acadian	Seminole	J.E.W. 45	Yel-nando	P.I. 85897	Majos	La 41-1219
Monetta, S. C.	22.2	32.1	33.2	31.4	28.8	27.2	22.7
Experiment, Ga.	17.3	26.8	28.2	23.8	22.5	25.7	19.8
Tifton, Ga.	19.0	21.8	15.3	19.1	21.1	17.0	13.4
Tallassee, Ala.	23.0	25.9	28.0	29.0	22.1	30.6	30.2
McKinnonville, Fla.	31.2	38.6	37.0	36.8	34.9	38.6	33.1
Stoneville, Miss.	32.4	16.4	31.0	26.0	27.6	34.5	28.2
Baton Rouge, La.	30.8	-	-	24.4	28.8	26.4	30.6
Curtis, La.	29.8	-	-	17.7	18.4	16.6	28.3
Mean	25.7	26.9	28.8	26.0	25.5	27.1	25.8

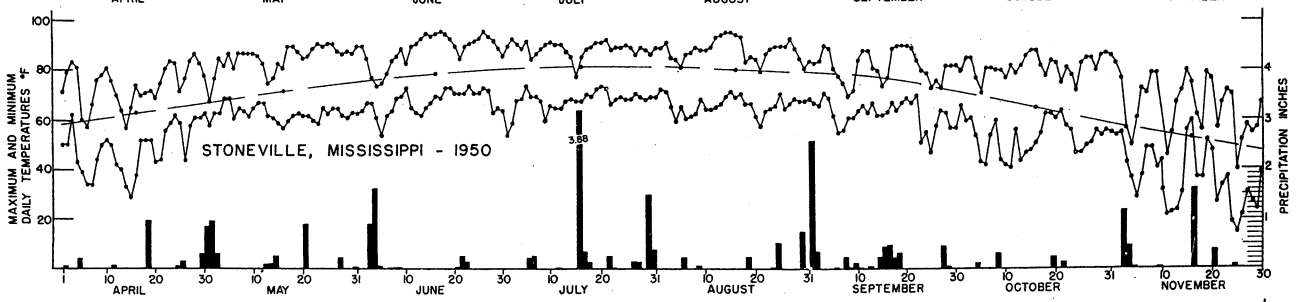
Table 50. Two-year summary of oil percentage data for the strains in Uniform Group VIII, 1949- 1950

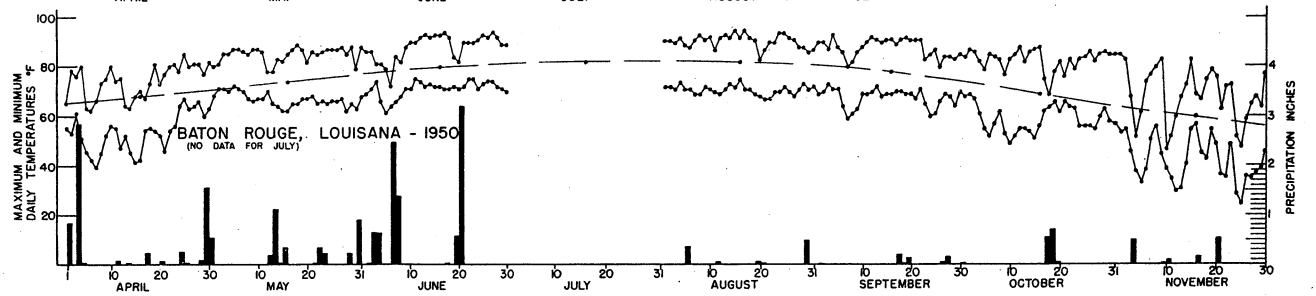
Location	Acadian	Seminole	J.E.W. 45	Yel-nando	P.I. 85897	Majos	La 41-1219
Monetta, S. C.	18.7	18.8	19.0	19.0	18.0	19.8	19.2
Tifton, Ga.[1/]	20.7	20.0	20.3	21.1	20.0	20.9	20.9
McKinnonville, Fla.	20.4	20.7	20.7	20.3	19.8	20.3	20.2
Baton Rouge, La.	21.2	-	-	21.6	21.3	23.2	21.9
Mean	20.2	-	-	20.5	19.8	21.0	20.6

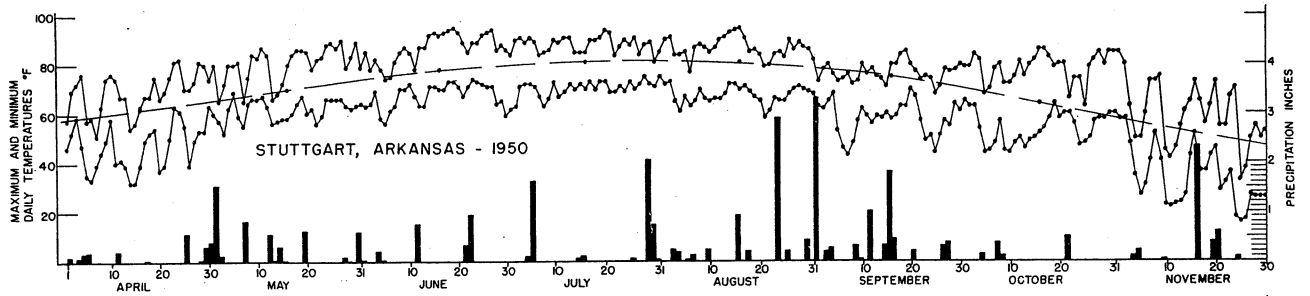
1/Tallassee, Alabama, data used for 1950.

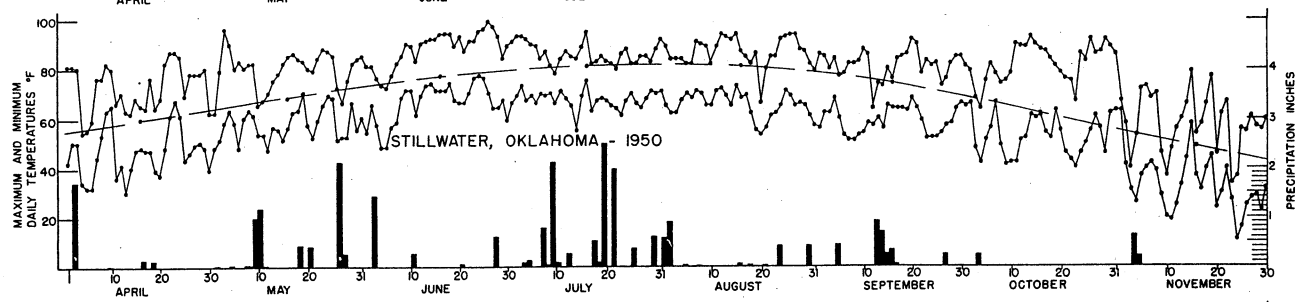

ACCOMAC, VIRGINIA - 1950
(ONLEY)
MC CULLERS, NORTH CAROLINA - 1950
PLYMOUTH, NORTH CAROLINA - 1950
4.00
CLEMSON, SOUTH CAROLINA - 1950
TIFTON, GEORGIA - 1950
3.46
FAIRHOPE, ALABAMA - 1950
4.36
MAXIMUM AND MINIMUM DAILY TEMPERATURES °F
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

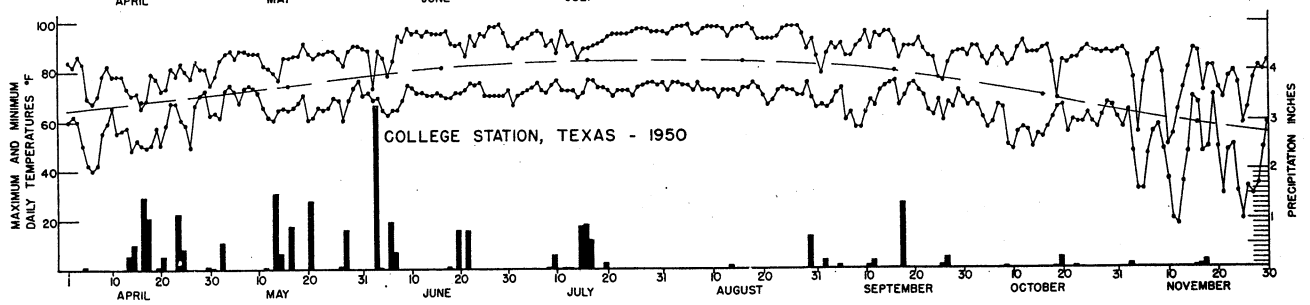

SIKESTON, MISSOURI - 1950
(NO DATA FOR NOVEMBER)
MAXIMUM AND MINIMUM DAILY TEMPERATURES °F
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

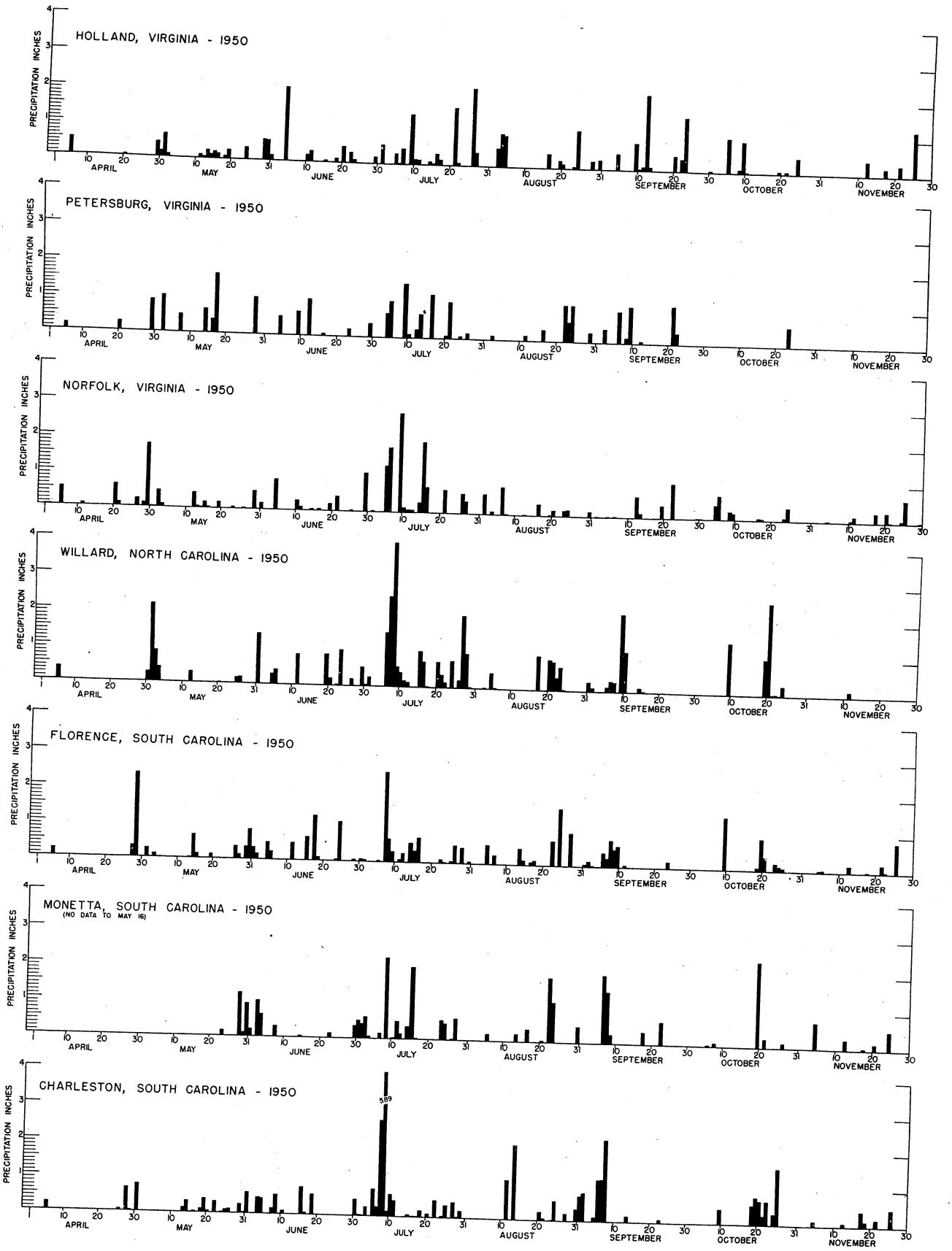

STONEVILLE, MISSISSIPPI - 1950
3.88
MAXIMUM AND MINIMUM DAILY TEMPERATURES °F
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

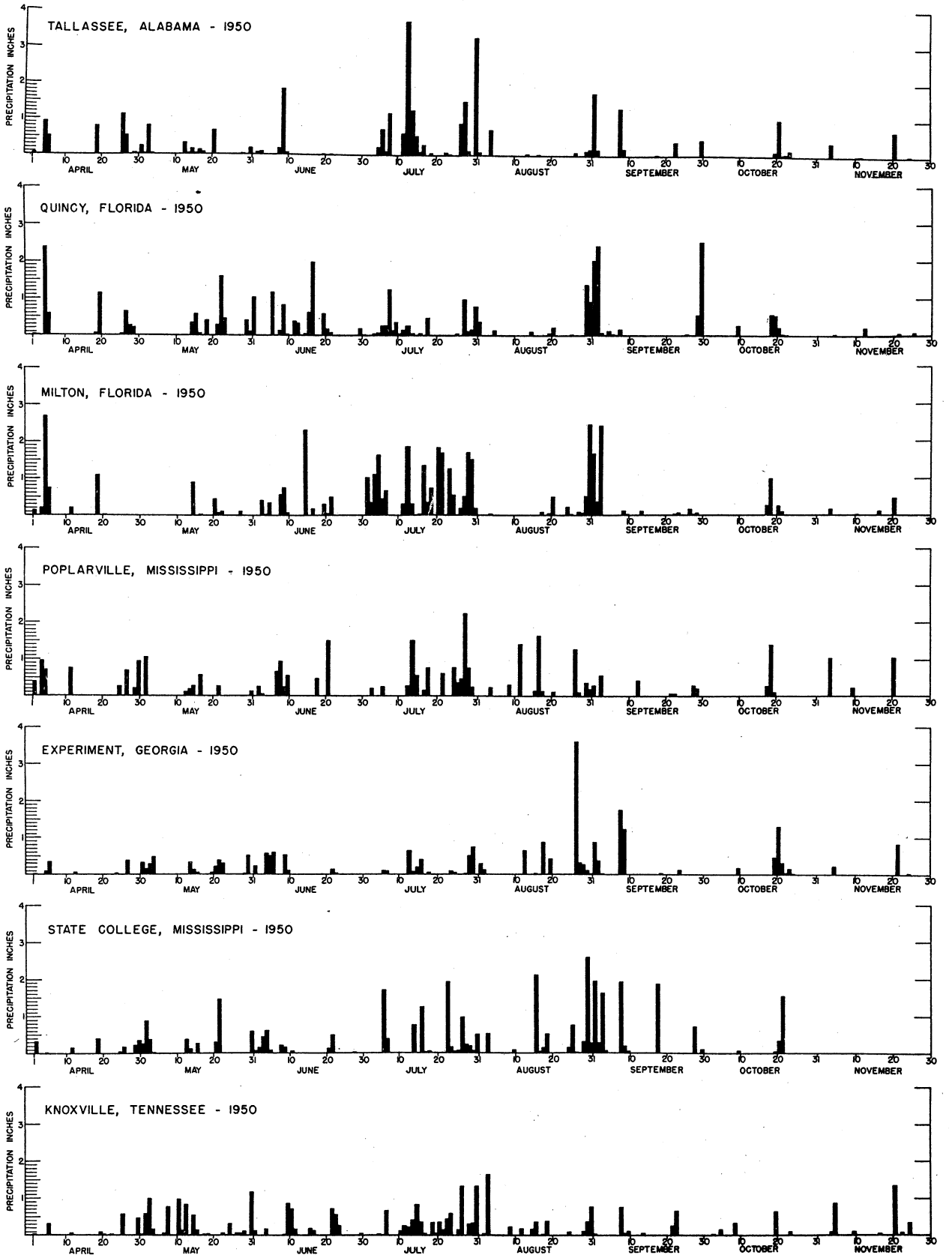

BATON ROUGE, LOUISANA - 1950
(NO DATA FOR JULY)
MAXIMUM AND MINIMUM DAILY TEMPERATURES °F
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

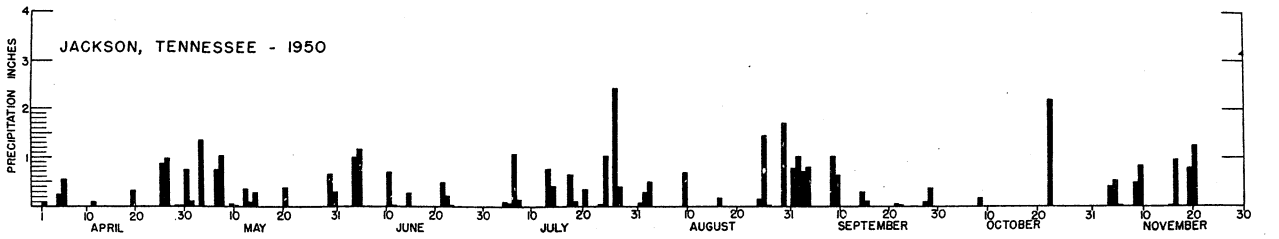

STUTTGART, ARKANSAS - 1950
MAXIMUM AND MINIMUM DAILY TEMPERATURES °F
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER


STILLWATER, OKLAHOMA - 1950
MAXIMUM AND MINIMUM DAILY TEMPERATURES °F
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER


COLLEGE STATION, TEXAS - 1950
MAXIMUM AND MINIMUM DAILY TEMPERATURES °F
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER


HOLLAND, VIRGINIA - 1950
PETERSBURG, VIRGINIA - 1950
NORFOLK, VIRGINIA - 1950
WILLARD, NORTH CAROLINA - 1950
FLORENCE, SOUTH CAROLINA - 1950
MONETTA, SOUTH CAROLINA - 1950
(NO DATA TO MAY 16)
CHARLESTON, SOUTH CAROLINA - 1950
5.89
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER


TALLASSEE, ALABAMA - 1950
QUINCY, FLORIDA - 1950
MILTON, FLORIDA - 1950
POPLARVILLE, MISSISSIPPI - 1950
EXPERIMENT, GEORGIA - 1950
STATE COLLEGE, MISSISSIPPI - 1950
KNOXVILLE, TENNESSEE - 1950
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER


JACKSON, TENNESSEE - 1950
PRECIPITATION INCHES
0
1
2
3
4
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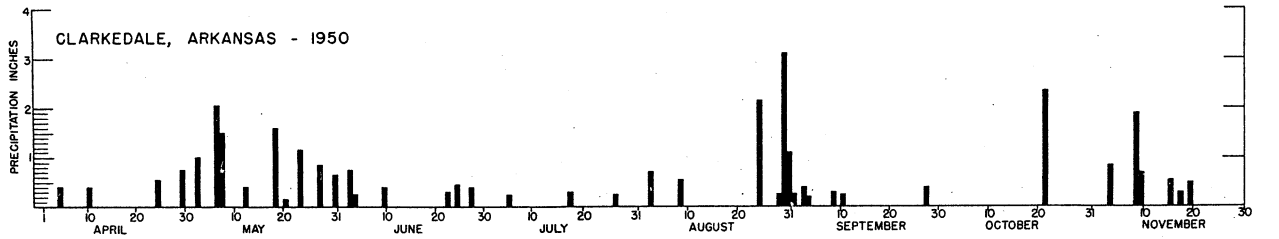
APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER


CLARKEDALE, ARKANSAS - 1950
PRECIPITATION INCHES
0
1
2
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4
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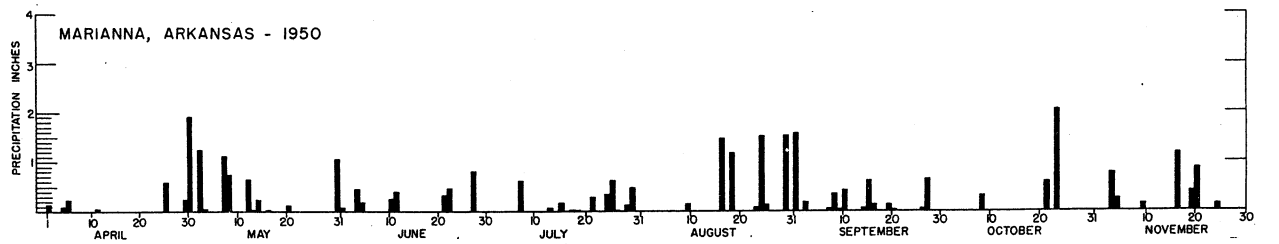
MARIANNA, ARKANSAS - 1950
PRECIPITATION INCHES
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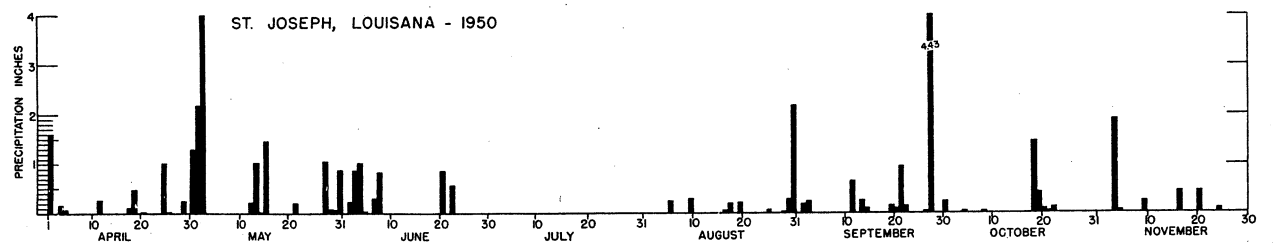
ST. JOSEPH, LOUISANA - 1950
4.43
PRECIPITATION INCHES
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3
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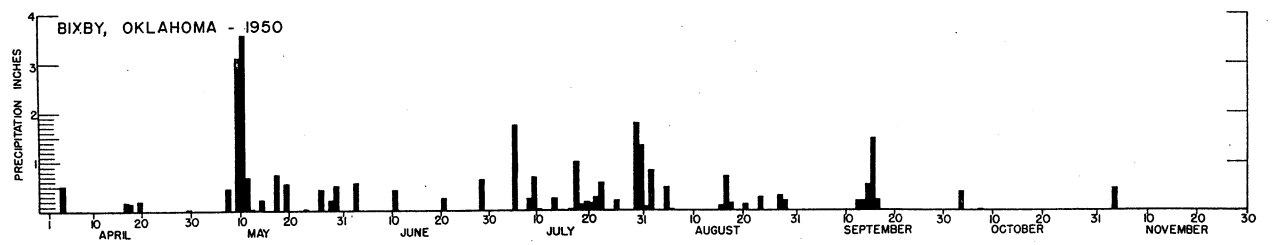
BIXBY, OKLAHOMA - 1950
PRECIPITATION INCHES
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1
2
3
4
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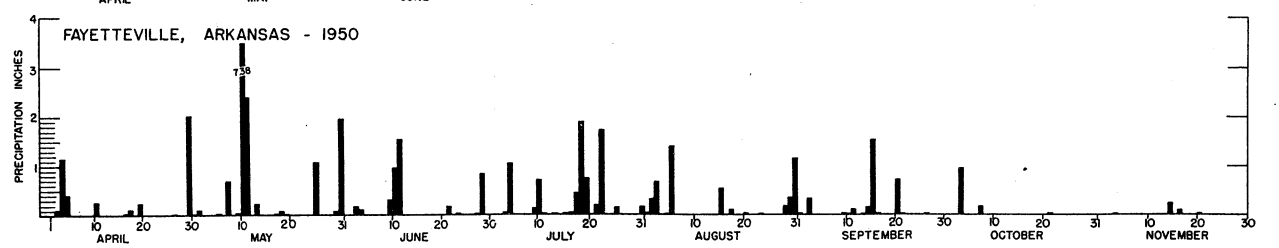
APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER


FAYETTEVILLE, ARKANSAS - 1950
T.38
PRECIPITATION INCHES
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1
2
3
4
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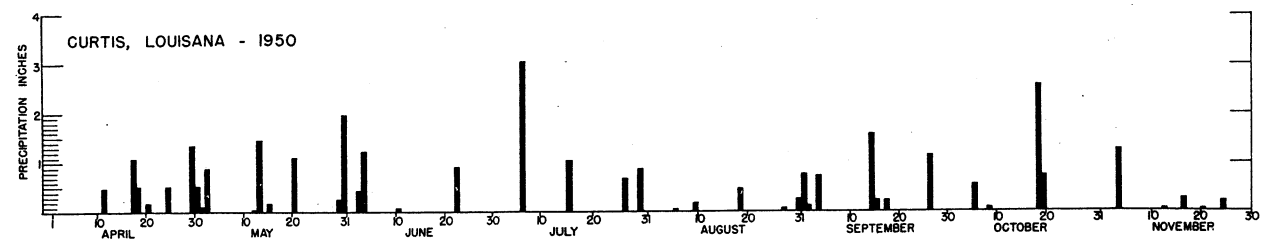
CURTIS, LOUISANA - 1950
PRECIPITATION INCHES
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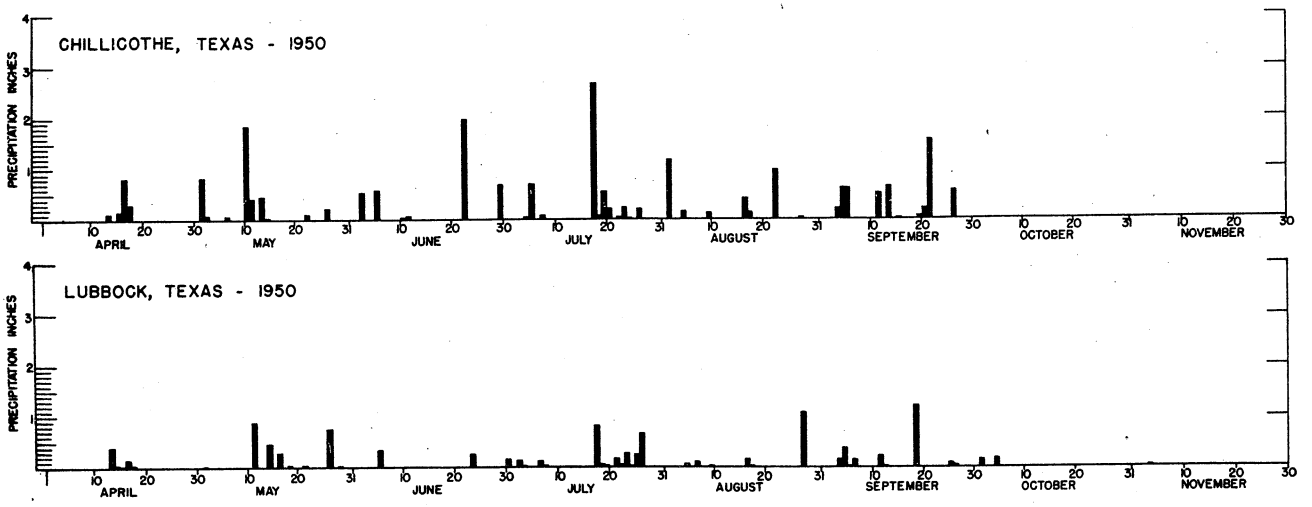
APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER


CHILLICOTHE, TEXAS - 1950
PRECIPITATION INCHES
0
1
2
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