U. S. REGIONAL SOYBEAN LABORATORY
URBANA, ILLINOIS

RESULTS OF THE COOPERATIVE UNIFORM SOYBEAN TESTS, 1952 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

MARCH, 1953
RSLM 165

RESULTS OF THE COOPERATIVE UNIFORM SOYBEAN TESTS

PART II. SOUTHERN STATES

******
1952
****

Compiled by

Edgar E. Hartwig and Elaine Bounds[1/]

From Data Supplied by:

C. E. Phillips, Delaware
R. C. Loffel, Maryland
G. D. Jones, Orange, Virginia
H. M. Camper, Warsaw, Virginia
A. V. Watts, Norfolk, Virginia
M. T. Carter, Petersburg, Virginia
A. H. Allison, Holland, Virginia
Herbert W. Johnson, North Carolina
E. B. Eskew, South Carolina
H. W. Webb, Hartsville, South Carolina
U. R. Gore, Experiment, Georgia
J. L. Stephens, Tifton, Ga.
J. K. Bosock, Belle Mina, Alabama
C. L. Kornegay, Tallassee, Alabama
Otto Brown, Fairhope, Alabama
W. A. Carver, Gainesville, Florida
R. W. Wallace, Monticello, Florida
R. W. Lipscomb, Marianna, Florida
T. E. Webb, Quincy, Florida
R. L. Smith, Atmore, Alabama
J. F. O'Kelly, State College, Miss.
E. E. Hartwig, Stoneville, Miss.
L. F. Williams, Sikeston, Missouri
R. W. Williams, Clarkedale, Arkansas
J. L. Dameron, Marianna, Arkansas
P. E. Smith, Fayetteville, Arkansas
John Gray, Baton Rouge, Louisiana
J. A. Hendrix, St. Joseph, Louisiana
J. Y. Oakes, Curtis, Louisiana
Ralph Matlock, Oklahoma
A. A. Baltensperger, Denton, Texas
John Box, Lubbock, Texas
J. R. Quinby, Chillicothe, Texas

TABLE OF CONTENTS

1/Agronomist and Clerk-Stenographer, Respectively.

COOPERATING AGENCIES AND PERSONNEL FOR THE SOUTHERN REGION

Division of Forage Crops and Diseases, Beltsville, Maryland

D. F. Beard, Agronomist in Charge
M. G. Weiss, Principal Agronomist, Project Leader
K. W. Kreitlow, Senior Pathologist, Project Leader for Disease Investigations

Laboratory Headquarters, Urbana, Illinois

J. L. Cartter, Senior Agronomist, Director
F. I. Collins, O. A. Krober, Chemists

Southern Region, Headquarters, Stoneville, Mississippi

E. E. Hartwig, Agronomist and Coordinator
R. A. Kilpatrick, Pathologist
Elaine Bounds, Clerk-Stenographer
C. J. Edwards, Jr., Agricultural Aid
Pat Butler, Agricultural Aid1/

Raleigh, North Carolina

Herbert W. Johnson, Agronomist
Clifford Elledge, Agricultural Aid2/
S. G. Lehman, Pathologist2/

1/Part-time state employee.

2/Full-time state employee.

State Collaborators in the Southern Region

Alabama Agricultural Experiment Station
Agronomy Department: P. B. Gibson

Arkansas Agricultural Experiment Station
Agronomy Department: P. E. Smith

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

Florida Agricultural Experiment Station
Agronomy Department: R. L. Smith

Louisiana Agricultural Experiment Station
Agronomy Department: J. P. Gray
Plant Pathology Department: J. G. Atkins

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

North Carolina Agricultural Experiment Station
Agronomy Department: Herbert W. Johnson
Plant Pathology Department: S. G. Lehman

Oklahoma Agricultural Experiment Station
Agronomy Department: Ralph Matlock

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: E. C. Bashaw

Virginia Agricultural Experiment Station
Agronomy Department: T. J. Smith

Introduction

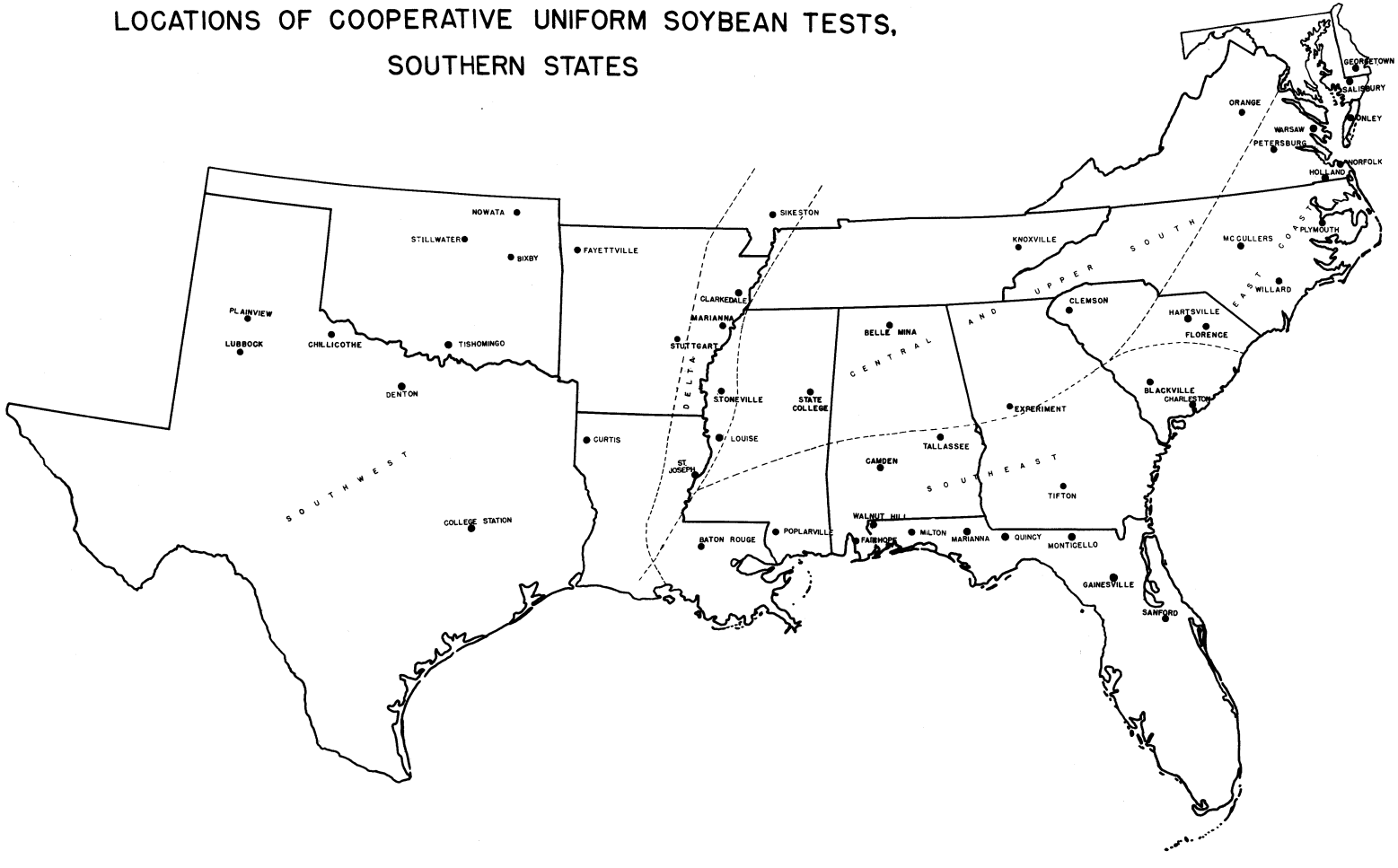
The program of the U. S. Regional Soybean Laboratory has been directed toward the development of improved strains of soybeans and the obtaining of fundamental information necessary to the efficient breeding of strains to meet specific needs. In the Southern Region, fundamental studies and breeding programs are conducted at the two centers, Stoneville, Mississippi, and Raleigh, North Carolina. After promising new strains are developed at these breeding centers, they are advanced to the uniform regional tests, conducted in cooperation with the 12 southeastern states. This testing program enables the breeder to evaluate new strains under a wide variety of conditions, and permits new strains to be put into production in a minimum amount of time.

Nine uniform test groups have been established to evaluate the better strains developed in the breeding programs. The Groups 0 through IV are adapted in the northern part of the United States, and the Groups IV through VIII are grown in the southern part. Within their area of adaptation, there is a maturity range of 12 to 18 days within each maturity group. The best standard variety available of each maturity class is used as a check variety with which to compare new strains as to seed yield, chemical composition, maturity, height, lodging, and seed quality. For the groups grown in the southern area, the check varieties are Perry, Dorman, Ogden, Roanoke, and Improved Pelican. At Stoneville, Mississippi, where all maturity classes will mature, the approximate maturity dates of these varieties when planted during the first half of May are: Perry, September 6; Dorman, September 20; Ogden, October 10; Roanoke, October 25; and Improved Pelican, November 8.

The 1952 cooperative nurseries complete 10 years of regional strain evaluation in the Southern States. Of the 43 strains included in Groups V through VIII, only three, S-100, Ogden, and Acadian, were included in 1943. The results of these tests have shown the advantages of the improved varieties, and as a result, varieties such as Ogden and Roanoke have replaced largely the older varieties such as Arksoy, Ralsoy, Tokyo, Woods Yellow, and Palmetto. However, the good characteristics of some of these strains have been utilized in the breeding program. For example, N47-3479, which has shown promise in Group VII, has Palmetto as one of its parents. Although the variety CNS was shown to have an oil content too low for satisfactory commercial production, its resistance to bacterial pustule has been incorporated into many of the new strains now in test.

A wide range of soil and climatic conditions exist in the region. 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 and Tidewater areas of southern Delaware, the Eastern Shore of Maryland, Virginia, North Carolina, and the upper half of South Carolina; (2) the Southeast, consisting primarily of the Coastal Plain soils of the

LOCATIONS OF COOPERATIVE UNIFORM SOYBEAN TESTS, SOUTHERN STATES



Gulf Coast area, but also including similar soils from South Carolina southward; (3) the Upper and Central South, including the Piedmont and loessal hill soils east of the Mississippi River; (4) the Delta area, composed of the alluvial soils along the Mississippi River from southern Missouri, southward, and (5) the Southwest, comprising Arkansas and Louisiana, outside of the Delta, and Oklahoma and Texas. In the Southwest area, most of the potential soybean-growing areas are on the alluvial river valley soils. A map is included to illustrate the five production areas.

On nearly all of the Coastal Plain, Piedmont, and loessal soils, fertilization is essential for satisfactory soybean production. A table showing soil types and rate of fertilization is included.

As a further aid in interpreting varietal 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 data is included only from locations where records were taken reasonably close to the nurseries. Daily minimum and maximum temperatures are reported for the representative locations for the various production areas.

The 1952 season was characterized by an extreme summer drouth, especially in the Delta section, and by an early killing frost. The effects of the frost were felt in the Southwest, Delta, and upper East Coast plantings.

In calculating variety means for seed yield, data from tests with extremely low yields or where the coefficient of variability exceed 25 per cent, are not included in the area means.

LOCATION OF COOPERATIVE NURSERIES

Location	Cooperator	Uniform Groups IV	V	VI	VII	VIII	Soil Type	Fertilizer[1]
			EAST COAST					
Georgetown, Del.	Delaware Agric. Expt. Sta.		1				Norfolk loamy sand	0-40-40
Linkwood, Md.	James C. Johnson	1	1				Sassafras silt loam	7-42-42
Cambridge, Md.	James E. Waddell	1	1				Elkton silt loam	37-98-74
Warsaw, Va.	Eastern Va. Research Sta.	1	1	1			Sassafras sandy loam	0-84-84
Accomac, Va.	Va. Truck Expt. Sta.		1	1	1		Sassafras sandy loam	0-56-56
Petersburg, Va.	Va. State College Field Sta.		1	1	1		Norfolk fine sandy loam	0-56-56
Norfolk, Va.	Va. Truck Expt. Sta.		1	1	1		Sassafras sandy loam	0-56-56
Holland, Va.	Tidewater Field Sta.		1	1	1		Woodstown loamy fine sand	none
Plymouth, N. Car.	Tidewater Branch Sta.		1	1	1		Bladen fine sandy loam	0-40-80
Willard, N. Car.	Lower Coastal Plain Expt. Sta.			1	1		Norfolk sandy loam	0-40-80
McCullers, N. C.	N. Car. Agric. Expt. Sta.			1	1		Norfolk sandy loam	0-40-80
Florence, S. Car.	Pee Dee Expt. Sta.				1		Dunbar fine sandy loam	0-40-80
Hartsville, S. Car.	Coker Pedigreed Seed Co.			1	1	1	Norfolk sandy loam	25-50-25
			SOUTHEAST					
Charleston, S. Car.	S. Car. Truck Expt. Sta.				1		Nosbig fine sandy loam	none[2]
Tallassee, Ala.	Ala. Agric. Expt. Sta.			1	1		Cohaba fine sandy loam	0-28-28
Tifton, Ga.	Ga. Coastal Plain Expt. Sta.				1	1	Tifton Pebbly loam	0-40-80
Sanford, Fla.	Central Fla. Expt. Sta.			1	1	1		
Gainesville, Fla.	Fla. Agric. Expt. Sta.			1	1	1	Lakeland fine sandy	0-66-66
Monticello, Fla.	North Fla. Expt. Sta. (Mobile Unit #1)			1	1		Ruston fine sandy loam	24-60-42
Quincy, Fla.	North Fla. Expt. Sta.			1	1	1	Tifton sandy loam	20-50-35
Marianna, Fla.	N. Fla. Expt. Sta. (Mobile Unit #3)			1	1		Ruston sandy loam	24-60-42
Walnut Hill, Fla.	N. Fla. Expt. Sta. (Mobile Unit #2)			1	1	1	Tifton fine sandy loam	24-60-42
Fairhope, Ala.	Gulf Coast Substation			1	1		Orangeburg fine sandy loam	20-50-35
Baton Rouge, La.	La. Agric. Expt. Sta.			1	1	1	Lintonia sandy loam	15-60-60

Location	Cooperator	IV	V	VI	VII	VIII	Soil Type	Fertilizer 1/
		UPPER AND CENTRAL SOUTH						
Orange, Va.	Piedmont Field Sta.	1					Davidson clay loam	12-72-72
Knoxville, Tenn.	Tenn. Agric. Expt. Sta.	1	1	1				
Belle Mina, Ala.	Tenn. Valley Substation		1	1			Decatur sandy loam	none
Clemson, S. Car.	S. Car. Agric. Expt. Sta.				1		Cecil sandy loam	18-45-27
Experiment, Ga.	Ga. Agric. Expt. Sta.		1	1	1	1	Cecil clay loam	24-32-24
State College, Miss.	Miss. Agric. Expt. Sta.		1	1	1		Verona fine sandy loam	none
		DELTA						
Sikeston, Mo.	Mo. Agric. Expt. Sta.	1	1	1			Lintonia sandy loam	9-36-36
Clarkedale, Ark.	Delta Substation	1	1	1			Sharkey clay	9-27-54
Marianna, Ark.	Cotton Branch Sta.	1	1	1			Richland silt loam	9-27-54
Stoneville, Miss. (A)	Delta Branch Expt. Sta.		1	1	1		Bosket fine sandy loam	none
Stoneville, Miss. (B)	Delta Branch Expt. Sta.	1	1	1			Sharkey clay	none
Louise, Miss.	L. S. Stoner			1	1		Dundee silt loam	none
St. Joseph, La.	N. E. La. Expt. Sta.		1	1	1	1	Sarpy clay loam	none
		WEST						
Stuttgart, Ark.	Rice Branch Expt. Sta.		1	1	1		Crowley silt loam	
Curtis, La.	Red River Valley Expt. Sta.		1	1	1	1	Miller very fine sandy loam	none
Fayetteville, Ark.	Ark. Agric. Expt. Sta.	1	1	1			Bolivar silt loam	0-50-54
Bixby, Okla.	Okla. Veg. Research Sta.		1	1			Yahola very fine sandy loam	none
Stillwater, Okla.	Okla. Agric. Expt. Sta.		1	1			Vanoss very fine sandy loam	none
Tishomingo, Okla.	Murray State Jr. College			1	1		Vanoss very fine sandy loam	none
Chillicothe, Texas	Texas Substation No. 12		1	1	1		Abilene loam	none
Lubbock, Texas	Texas Substation No. 8		1	1	1		Richfield fine sandy loam	none
Plainview, Texas	Western Cottonoil Co.		1	1	1		Pullman Silty Clay Loam	none
Brawley, Calif.	Southwestern Irrigation Field Sta.			1	1	1		

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 potatoes.

METHODS

The uniform nurseries are planted in 4-row plots with three replications, or in 3-row plots with four replications. All seed is packeted at Stoneville, Mississippi, for planting 19-foot rows. Where 4-row plots are grown, a 16-foot section from each of the two center rows is usually harvested. Where 3-row plots are grown, a 16-foot section is harvested from the center row. Randomized block designs are used for all groups. Row widths at the different locations vary from 36 to 40 inches. An attempt is made to follow the best cultural and management practices in conducting these strain comparisons.

Planting Rate: Since the later-maturing varieties usually make heavier growth than earlier-maturing varieties, lighter planting rates can be used and have equal or superior ground cover. Planting later-maturing varieties at a thinner rate reduces lodging. The number of seed packeted for 19 feet of row for the various groups were as follows: IV - 225 seeds; V - 225 seeds; VI - 200 seeds; VII - 170 seeds; and VIII - 170 seeds. This gave planting rates of 12 seeds per foot for Groups IV and V, 10-1/2 for VI, and 9 for VII and VIII.

Yields are 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 are on the border rows, fourteen days after maturity. The estimates are recorded on a scale of 0 to 5 as follows:

0 - No shattering
1 - 1 - 5% shattered
2 - 6 - 10% shattered
3 - 11 - 24% shattered
4 - 25 - 50% shattered
5 - Over 50% shattered

Chemical composition - percent protein, percent oil, and iodine number of the oil is determined on each strain from representative locations in each production area. Percentage compostion of the seed is expressed on a dry basis (moisture free). All chemical analyses are made at Urbana, Illinois.

Seed weight from each strain is determined on a composite from all replications at a location and is 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 is taken as the date when the pods are dry and most of the leaves have 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, Perry; Group V, Dorman; Group VI, Ogden; Group VII, Roanoke; and Group VIII, Improved Pelican.

Seed quality is rated from 1 to 5 according to the following scale:

1. Very good
2. Good
3. Fair
4. Poor
5. Very poor

The factors considered in estimating seed quality are 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 are analyzed by analysis of variance. Differences necessary to indicate difference between strains (odds 19:1) are reported for each location. Yield data from tests showing a coefficient of variability greater than 25% were not included in calculating averages.

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 U. S. Regional Soybean Laboratory.
L - Illinois Agric. Expt. Station and U. S. Regional Soybean Laboratory.
La - Louisiana Agric. Expt. Station and the U. S. Regional Soybean Laboratory.
N - North Carolina Agric. Expt. Station and the U. S. Regional Soybean Laboratory
S - Missouri Agric. Expt. Station and U. S. Regional Soybean Laboratory

UNIFORM GROUP IV, 1952

Strain or Variety	Source or Originating Agency	Origin
Perry	Purdue A.E.S. & U.S.R.S.L.	Sel. from Patoka x L7-1355
Wabash	Purdue A.E.S. & U.S.R.S.L.	Sel. from Dunfield x Mansoy
L6-5679	Ill. A.E.S. & U.S.R.S.L.	Sel. from Lincoln x Richland
L8-6852	Ill. A.E.S. & U.S.R.S.L.	Sel. from Lincoln x Richland
S7-270	Missouri A.E.S. & U.S.R.S.L.	Sel. from Chief/Macoupin x Chief
S7-5236	Missouri A.E.S. & U.S.R.S.L.	Sel. from Lincoln x S-100
C985	Purdue A.E.S. & U.S.R.S.L.	Sel. from Lincoln x Ogden
L8-10780	Ill. A.E.S. & U.S.R.S.L.	Sel. from Lincoln/Lincoln x C171

Eleven Group IV nurseries were planted in the Southern Region. Results from nine of these locations are summarized in tables 1 through 9. Only six of the nurseries produced yields high enough to permit varietal evaluation. As a result of dry weather, yields were too low for harvesting at Denton, Texas. Yields were also low at Marianna and Fayetteville, Arkansas. Fair yields were produced at Clarkedale, Arkansas, but because of delayed harvest, considerable shattering loss resulted.

Perry has been substituted for Wabash as the check variety for this group. Perry is a full-season variety in southern Indiana. Over much of the southern area where Group IV is grown, Perry will average 10 to 12 days earlier than Dorman, the check variety for Group V. The production of varieties of this maturity is justified in the Upper South to permit harvesting a larger acreage per combine and also to permit land preparation for pastures or small grains.

At Warsaw, Virginia, the three-year average for Perry compares favorably with later-maturing varieties such as Dorman or Ogden. However, at Stoneville, Perry has yielded appreciably less than the later varieties. These early varieties usually do not give as good ground cover as the later varieties and, consequently, do not compete as well with grasses or weeds.

Perry was at, or near, the top in all tests except at Stoneville, Mississippi, where it yielded considerably less than L6-5679 and C985. Over a three-year period, Perry has averaged 2.7 bushels per acre higher than Wabash, but has averaged .2 per cent lower in oil content. Although Perry has averaged only three days later than Wabash in northern tests, it has been six to ten days later in southern tests.

L6-5679 is similar to Perry in maturity but has more vigorous growth. Its three-year average yield is above that of Perry, although much of this yield advantage must be attributed to its performance at Stoneville. This past season under the adverse conditions at Stoneville, L6-5679 clearly

demonstrated its superiority over Perry with a 50 per cent higher yield. L6-5679 has averaged .8 per cent lower in oil content than Perry, but is superior to Perry in seed-holding.

Three other lines tested for three years are L8-6852, S7-270, and S7-5236. All have produced yields nearly similar to that for Perry, but have slightly lower oil content. Two strains, C985 and L8-10780, have been tested for two years. Both have yielded about the same as Perry, but C985 has somewhat lower oil content. C985 is very subject to shattering.

Table 1: Yield, in bushels per acre, for the strains in Uniform Group IV, 1952

Location	Perry	Wabash	L6-5679	L8-6852	S7-270
		East Coast			
Linkwood, Md.	39.8	32.9-	34.3-	36.0	35.9
Cambridge, Md.	35.6	31.9	33.2	36.2	39.5
Warsaw, Va.	32.4	26.3	27.9	28.5	30.5
Mean	35.9	30.4	31.8	33.6	35.3
		Upper and Central South			
Orange, Va.	34.8	28.5-	36.4	33.4	31.5
		Delta			
Sikeston, Mo.	23.1	23.1	23.2	20.8	20.0-
Clarkedale, Ark. 1/	4.5	5.4	14.0	10.0	13.6
Marianna, Ark.	13.6	16.5	14.3	15.2	15.6
Stoneville, Miss. (B)	25.8	30.4	38.5+	37.8+	36.8+
Mean	20.8	23.3	25.3	24.6	24.1
		West			
Fayetteville, Ark.	11.5	8.7	11.4	12.1	11.4

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

1/ - Not included in the mean.

Table 1: (Continued)

Location	S7-5236	C985	L8-10780	L.S.D. (5%)	C.V.
		East Coast			
Linkwood, Md.	34.0-	33.5-	35.5	4.8	10%
Cambridge, Md.	37.6	37.2	37.3	5.3	10%
Warsaw, Va.	29.2	31.6	29.0	N.S.	9%
Mean	33.6	34.1	33.9		
		Upper and Central South			
Orange, Va.	33.9	34.6	34.6	4.6	7%
		Delta			
Sikeston, Mo.	21.4	17.9-	20.5	2.7	11%
Clarkedale, Ark.1/	11.1	3.6	6.8	3.6	31%
Marianna, Ark.	16.1	13.2	13.4	N.S.	15%
Stoneville, Miss. (B)	35.4+	39.2+	32.5+	5.5	9%
Mean	24.3	23.4	22.1		
		West			
Fayetteville, Ark.	11.0	12.1	11.0	N.S.	18%

Table 2: Chemical composition of the strains in Uniform Group IV, 1952

Location	Perry	Wabash	L6-567?	L8-6852
	OIL PERCENTAGE			
Warsaw, Va.	22.9	22.2	22.2	22.4
Sikeston, Mo.	21.0	22.8	20.1	20.8
Clarkedale, Ark.	22.0	21.8	21.3	22.0
Stoneville, Miss.	23.8	24.5	23.0	23.3
Mean	22.4	22.8	21.6	22.1
	PROTEIN PERCENTAGE			
Warsaw, Va.	42.4	41.3	41.3	41.6
Sikeston, Mo.	42.4	42.4	42.1	41.1
Clarkedale, Ark.	40.9	41.3	39.7	39.4
Stoneville, Miss.	39.6	38.6	38.1	38.2
Mean	41.3	40.9	40.3	40.1
	IODINE NUMBER OF THE OIL			
Warsaw, Va.	132.1	132.1	133.4	132.3
Sikeston, Mo.	129.2	124.1	136.6	134.0
Clarkedale, Ark.	132.3	127.5	132.1	130.6
Stoneville, Miss.	129.6	118.1	132.3	131.2
Mean	130.8	125.4	133.6	132.0

Table 2: (Continued)

Location	S7-270	S7-5236	C985	L8-10780
	OIL PERCENTAGE			
Warsaw, Va.	22.2	21.9	23.2	22.9
Sikeston, Mo.	20.5	19.7	20.3	22.3
Clarkedale, Ark.	20.8	22.1	21.6	22.5
Stoneville, Miss.	23.3	22.3	23.5	23.6
Mean	21.7	21.5	22.2	22.8
	PROTEIN PERCENTAGE			
Warsaw, Va.	40.8	41.7	42.2	38.2
Sikeston, Mo.	41.9	41.1	43.5	39.5
Clarkedale, Ark.	40.1	40.6	40.3	39.9
Stoneville, Miss.	39.4	40.5	39.5	39.4
Mean	40.6	41.0	41.4	39.2
	IODINE NUMBER OF THE OIL			
Warsaw, Va.	135.4	138.8	139.1	136.3
Sikeston, Mo.	132.9	137.2	137.4	132.9
Clarkedale, Ark.	133.4	134.3	135.4	133.7
Stoneville, Miss.	134.0	135.7	136.6	133.7
Mean	133.9	136.5	137.1	134.2

Table 3: Relative maturity data, days earlier (-) or later (+) than Perry, for the strains in Uniform Group IV, 1952

Location	Date Planted	Perry Matured	Wabash	L6-5679
		East Coast		
Linkwood, Md.	5-28	9-28	-4	-1
Cambridge, Md.	5-28	9-28	-6	+2
Warsaw, Va.	6-3	9-28	-8	+2
Mean			-6	+1
		Upper and Central South		
Orange, Va.	5-15	9-20	-7	+4
		Delta		
Sikeston, Mo.	5-13	9-9	-6	+6
Marianna, Ark.	5-29	9-16	-15	+2
Stoneville, Miss.	4-30	9-5	-8	+3
Mean			-10	+4
		West		
Fayetteville, Ark.	5-14	9-28	0	-5

Table 3: (Continued)

Location	L8-6852	S7-270	S7-5236	C985	L8-10780
		East Coast			
Linkwood, Md.	-1	-1	-2	0	-1
Cambridge, Md.	+4	+4	+1	+4	+1
Warsaw, Va.	+3	+2	+2	+5	+1
Mean	+2	+2	0	+3	0
		Upper and Central South			
Orange, Va.	+4	+4	+4	+4	+4
		Delta			
Sikeston, Mo.	+7	+6	+8	+7	+5
Marianna, Ark.	+3	0	+2	+2	+1
Stoneville, Miss.	+3	+4	+3	+3	+1
Mean	+4	+3	+4	+4	+2
		West			
Fayetteville, Ark.	-3	-3	-4	-1	0

Table 4: Height data for strains in Uniform Group IV, 1952

	Perry	Wabash	L6-5679	L8-6852
		East Coast		
Linkwood, Md.	38	38	43	41
Cambridge, Md.	39	45	46	45
Warsaw, Virginia	30	30	34	35
Mean	36	38	41	40
		Upper and Central South		
Orange, Va.	37	38	44	46
		Delta		
Sikeston, Mo.	39	42	44	44
Clarkedale, Ark.	31	38	40	42
Marianna, Ark.	29	30	33	34
Stoneville, Miss.	29	37	37	36
Mean	32	37	38	39
		West		
Fayetteville, Ark.	17	15	17	21

Table 4: (Continued)

Location	S7-270	S7-5236	C985	L8-10780
		East Coast		
Linkwood, Md.	44	39	41	41
Cambridge, Md.	51	42	45	45
Warsaw, Va.	40	33	34	36
Mean	45	38	40	41
		Upper and Central South		
Orange, Va.	55	41	41	43
		Delta		
Sikeston, Mo.	49	41	41	45
Clarkedale, Ark.	46	36	38	38
Marianna, Ark.	39	33	34	36
Stoneville, Miss.	41	34	36	37
Mean	44	36	37	39
		West		
Fayetteville, Ark.	19	17	20	19

Table 5: Lodging scores for the strains in Uniform Group IV, 1952

Location	Perry	Wabash	L6-5679	L8-6852
		East Coast		
Linkwood, Md.	1.1	2.0	1.3	1.4
Cambridge, Md.	2.0	4.0	2.4	2.0
Warsaw, Va.	1.0	1.0	1.0	1.0
		Upper and Central South		
Orange, Va.	1.0	1.0	1.0	1.0
		Delta		
Sikeston, Mo.	1.1	1.2	1.2	1.3
Clarkedale, Ark.	1.0	2.0	2.0	2.0
Marianna, Ark.	1.0	1.0	1.0	1.0
Stoneville, Miss.	1.0	2.3	1.0	1.3
		West		
Fayetteville, Ark.	1.0	1.0	1.0	1.0

Table 5: (Continued)

Location	S7-270	S7-5236	C985	L8-10780
		East Coast		
Linkwood, Md.	1.6	1.1	1.1	1.5
Cambridge, Md.	2.9	1.5	2.0	3.6
Warsaw, Va.	1.0	1.0	2.0	1.0
		Upper and Central South		
Orange, Va.	1.5	1.7	1.0	1.0
		Delta		
Sikeston, Mo.	1.2	1.2	1.2	1.1
Clarkedale, Ark.	3.0	3.0	2.0	2.0
Marianna, Ark.	1.0	1.0	1.0	1.0
Stoneville, Miss.	2.0	1.7	2.0	2.0
		West		
Fayetteville, Ark.	1.0	1.0	1.0	1.0

Table 6: Seed quality scores for the strains in Uniform Group IV, 1952

Location	Perry	Wabash	L6-5679	L6-6852
		East Coast		
Linkwood, Md.	2.0	2.0	1.0	2.0
Cambridge, Md.	1.7	2.3	2.3	1.7
Warsaw, Va.	2.0	2.0	2.0	3.0
		Upper and Central South		
Orange, Va.	1.0	1.0	1.0	1.0
		Delta		
Sikeston, Mo.	3.0	3.0	2.0	2.0
Clarkedale, Ark.	4.0	4.0	3.0	4.0
Marianna, Ark.	3.0	3.0	2.0	3.0
Stoneville, Miss.	3.7	4.0	3.0	3.0
		West		
Fayetteville, Ark.	4.0	3.0	3.0	3.0

Table 6: (Continued)

Location	S7-270	S7-5236	C985	LS-10780
		East Coast		
Linkwood, Md.	1.7	1.3	1.0	1.5
Cambridge, Md.	1.7	2.0	1.3	2.0
Warsaw, Va.	2.0	3.0	3.0	2.0
		Upper and Central South		
Orange, Va.	1.0	1.0	1.0	1.0
		Delta		
Sikeston, Mo.	2.0	2.0	2.0	2.0
Clarkedale, Ark.	4.0	4.0	4.0	4.0
Marianna, Ark.	3.0	3.0	3.0	3.0
Stoneville, Miss.	3.0	3.0	3.0	3.0
		West		
Fayetteville, Ark.	3.0	3.0	3.0	3.0

Table 7: Seed weight, in grams per 100 seeds, for the strains in Uniform Group IV, 1952

Location	Perry	Wabash	L6-5679	L8-6852
		East Coast		
Linkwood, Md.	17.7	15.0	15.0	15.8
Cambridge, Md.	15.6	14.8	14.3	15.3
Warsaw, Va.	18.5	15.0	16.5	17.5
Mean	17.3	14.9	15.3	16.2
		Upper and Central South		
Orange, Va.	17.4	14.9	15.0	16.5
		Delta		
Sikeston, Mo.	12.4	12.5	10.5	11.5
Clarkedale, Ark.	13.0	12.0	12.5	13.5
Marianna, Ark.	14.0	13.5	13.5	14.0
Stoneville, Miss.	15.4	13.2	13.4	14.5
Mean	13.7	12.8	12.5	13.4
		West		
Fayetteville, Ark.	20.5	15.0	17.5	16.0

Table 7: (Continued)

Location	S7-270	S7-5236	C985	L8-10780
		East Coast		
Linkwood, Md.	14.3	14.7	16.4	17.1
Cambridge, Md.	12.9	15.3	15.6	16.7
Warsaw, Va.	15.5	16.5	18.0	19.0
Mean	14.2	15.5	16.7	17.6
		Upper and Central South		
Orange, Va.	15.1	15.0	16.4	17.2
		Delta		
Sikeston, Mo.	10.0	11.6	11.4	13.6
Clarkedale, Ark.	13.0	13.5	12.0	13.5
Marianna, Ark.	13.5	14.0	15.0	14.0
Stoneville, Miss.	12.5	15.5	15.4	16.7
Mean	12.2	13.6	13.4	14.4
		West		
Fayetteville, Ark.	15.0	16.5	17.0	16.0

Table 8: Two-year average yield, in bushels per acre, and oil percentage for the strains in Uniform Group IV, 1951-52

Location	Perry	Wabash	L6-5679	L8-6852	S7-270	S7-5236	C985	L8-10780
				YIELD				
Warsaw, Va.	30.0	25.8	27.8	27.4	29.2	27.9	31.4	27.7
Sikeston, Mo.	22.6	21.2	20.5	16.3	20.6	19.2	20.2	20.9
Marianna, Ark.	13.2	14.5	14.8	15.8	14.6	15.0	16.0	15.6
Stoneville, Miss.	19.8	21.7	25.8	24.8	24.2	23.9	26.8	22.6
Fayetteville, Ark.	16.4	14.3	15.6	15.6	16.0	15.4	15.2	17.0
Mean	20.4	19.5	20.9	20.0	20.9	20.3	21.9	20.8
				OIL PERCENTAGE				
Warsaw, Va.	22.8	22.8	22.2	22.4	22.0	21.3	22.7	23.4
Sikeston, Mo.	22.0	22.6	20.9	21.5	21.2	20.1	20.8	22.2
Clarkedale, Ark.	22.4	22.6	21.4	21.8	20.8	21.6	21.4	22.5
Stoneville, Miss.	22.8	23.3	22.4	22.5	22.6	21.8	22.4	22.8
Mean	22.5	22.8	21.7	22.0	21.6	21.2	21.8	22.7

Table 9: Three-year average yield, in bushels per acre, and oil percentage for the strains in Uniform Group IV, 1950-52

Location	Perry	Wabash	L6-5679	L6-6852	S7-270	S7-5236
			YIELD			
Warsaw, Va.	28.8	24.1	27.2	26.5	27.2	25.3
Sikeston, Mo.	27.3	23.2	25.6	23.5	24.9	23.5
Marianna, Ark.	15.9	15.9	19.2	18.8	17.2	16.6
Stoneville, Miss.	28.4	27.3	33.1	28.7	27.9	29.5
Fayetteville, Ark.	21.6	17.8	23.7	23.8	21.7	23.5
Mean	24.4	21.7	25.8	24.3	23.8	23.7
			OIL PERCENTAGE			
Warsaw, Va.	22.6	22.5	21.7	22.3	21.9	21.5
Sikeston, Mo.	22.0	22.5	21.0	21.4	21.0	20.2
Stoneville, Miss.	22.9	23.2	22.5	22.4	22.2	21.7
Mean	22.5	22.7	21.7	22.0	21.7	21.1

UNIFORM GROUP V, 1952

Strain or Variety	Source or Originating Agency	Origin
Dorman (D623-9)	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Dunfield x Arksoy
S-100	Missouri A.E.S.	Sel. from rogue in Illini
Dortchsoy 67	Robert L. Dortch Seed Co., Scott, Ark.	Sel. from Macoupin selection x Ogden
D517-4	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Arksoy x Patoka
D623-33	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Dunfield x Arksoy
D632-15	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Haberlandt x Dunfield
D49-247	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Dunfield x Tenn. Non-pop
D50-204	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from N46-191[1] x N45-745[2]
Luthy	Farmer selection from eastern shore of Maryland	

1/Selection from S-100 x Rose Non-pop

2/Pustule-resistant selection from Ogden x CNS

Twenty-nine Group V nurseries were planted. Results from 22 nurseries are summarized in tables 10 through 18. Poor stands were obtained at Stuttgart, Arkansas, and Noweta, Oklahoma. As a result of drouth, yields were very low at Experiment, Georgia; State College, Mississippi; Marianna, and Fayetteville, Arkansas; Bixby and Stillwater, Oklahoma; and Denton and Chillicothe, Texas. Excellent seed yields were produced from the tests in the East Coast area. In this area, the yields from the better varieties of Group V averaged nearly the same as Ogden in Group VI. Yields in other areas were more erratic. It might be pointed out that the good yields obtained on the Sharkey clay soil at Stoneville, Mississippi, and at St. Joseph, Louisiana, were produced largely from soil water. At St. Joseph, only 3 inches of rain fell between planting and maturity. At Stoneville, 7-1/2 inches of rain fell during this same period.

During the past season, the strain D623-9 was given the name Dorman and released for general production. In this report, Dorman has been substituted for S-100 as the check variety for this group. Dorman will usually show a yield advantage over S-100 and has a definite advantage in oil content, seed quality, seed-holding, ground cover during the growing season, and in uniformity of ripening. At maturity, Dorman stems dry uniformly in contrast to the tendency for stems to remain green on S-100.

Three strains, D517-4, D623-33, and D632-15, have been tested for three years. The general performance of these strains has been below that for Dorman.

Two strains, Dortchsoy 67 and D49-247, have been grown for two years. On the basis of two-year tests, the seed yield of Dortchsoy 67 is very similar to that of Dorman. Dortchsoy 67 will average approximately 5 days later in maturity than Dorman, has a slightly lower oil content, and does not hold its seed as well. D49-247 has shown no yield advantage over Dorman and has a lower oil content.

D50-204 and Luthy were grown for the first time. D50-204 is the first strain resistant to bacterial pustule included in this group. Unfortunately, the seed lot used had weak germination and stands were too irregular to give good evaluation. This strain has good growth characteristics but is low in oil content. Luthy is being grown to some extent on the Eastern Shore of Maryland. In most cases, its yield was below that for Dorman. Luthy has low oil content and has very poor seed-holding properties.

Table 10: Yield, in bushels per acre, for the strains in Uniform Group V, 1952

Location	Dorman	S-100	Dortchsoy 67	D517-4	D623-33
		East Coast			
Georgetown, Del.	27.4	26.5	30.8	28.9	26.7
Linkwood, Md.	34.7	30.8-	31.3	30.7-	28.3-
Cambridge, Md.	28.8	29.8	30.5	30.5	29.9
Warsaw, Va.	31.2	29.1	33.0	29.1	29.4
Petersburg, Va.	34.0	30.8	34.8	32.2	30.4
Norfolk, Va.	36.0	25.5	34.1	34.3	29.3
Holland, Va.	32.5	30.6	32.5	32.2	29.6
Plymouth, N. C.	28.2	17.7-	28.2	25.5	28.8
Mean	31.6	27.6	31.9	30.4	29.0
		Upper and Central South			
Belle Mina, Ala.	23.1	20.2	22.3	17.7-	19.9
Experiment, Ga. 1/	11.4	9.3	12.8	7.7	9.2
State College, Miss. 1/	6.4	8.4	11.7	7.5	10.8
		Delta			
Sikeston, Mo.	21.3	20.7	22.6	17.9-	16.5-
Clarkedale, Ark. 1/	6.6	7.3	9.5	5.0	9.3
Marianna, Ark.	14.9	9.1	10.6	12.0	14.3
Stoneville, Miss. (A)	28.2	26.0	26.4	21.2	18.6
Stoneville, Miss. (B)	47.7	43.6	42.9	41.3	32.0-
St. Joseph, La.	41.9	40.2	51.9+	39.6	41.0
Mean	30.8	27.9	30.9	26.4	24.5
		West			
Curtis, La.	35.8	34.5	34.0	25.9-	28.8-
Fayetteville, Ark.	15.6	18.4	15.0	15.9	15.9
Bixby, Okla. 1/	11.4	8.2-	5.1-	9.4	3.7-
Stillwater, Okla. 1/	6.5	7.7	3.1-	8.9+	4.9-
Lubbock, Texas	15.5	16.6	18.4+	9.6-	16.9
Mean	22.3	23.2	22.5	17.1	20.5

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

1/ - Not included in the mean.

Table 10: (Continued)

Location	D632-15	D49-247	D50-204	Luthy	L.S.D. (5%)	C.V.
		East Coast				
Georgetown, Del.	22.7-	22.2-	19.4-	29.0	4.5	12%
Linkwood, Md.	-	29.6-	-	29.0-	3.5	8%
Cambridge, Md.	27.4	26.5	-	25.1	5.5	14%
Warsaw, Va.	29.0	29.4	31.6	31.2	2.4	5%
Petersburg, Va.	30.8	27.1-	30.8	33.7	4.1	9%
Norfolk, Va.	25.9	24.8	32.3	28.2	N.S.	19%
Holland, Va.	29.9	31.4	39.3+	30.6	5.5	12%
Plymouth, N. C.	21.4	27.7	26.9	21.5	7.3	19%
Mean	26.7	27.3	30.1	28.5		
		Upper and Central South				
Belle Mina, Ala.	17.4-	22.0	22.9	15.9-	4.2	12%
Experiment, Ga.1/	10.3	10.0	11.8	9.3	N.S.	17%
State College, Miss.1/	8.7	7.7	8.7	9.2	N.S.	28%
		Delta				
Sikeston, Mo.	15.7-	20.2	20.9	15.6-	2.6	12%
Clarkedale, Ark.1/	7.7	4.3	9.3	2.2	2.3	23%
Marianna, Ark.	10.7	15.9	15.6	13.4	N.S.	17%
Stoneville, Miss. (A)	15.8	21.9	20.1	17.2	N.S.	23%
Stoneville, Miss. (B)	39.1	39.0	-	26.6-	9.7	14%
St. Joseph, La.	38.7	45.6	44.5	36.1	6.9	11%
Mean	24.0	28.5	25.3	21.8		
		West				
Curtis, La.	28.8-	31.4	28.3-	23.1-	6.4	15%
Fayetteville, Ark.	12.3	14.9	6.6-	14.6	5.4	25%
Bixby, Okla.1/	6.3-	7.3-	-	4.3-	2.6	25%
Stillwater, Okla.1/	5.7	1.9-	1.2-	-	1.4	19%
Lubbock, Texas	19.6+	9.4-	17.9+	9.2-	2.1	10%
Mean	20.2	18.6	17.6	15.6		

Table 11: Chemical composition of the strains in Uniform Group V, 1952

Location	Dorman	S-100	Dortchsoy 67	D517-4	D623-33
		OIL PERCENTAGE			
Warsaw, Va.	22.6	20.5	22.2	21.5	22.2
Experiment, Ga.	21.8	19.2	21.3	20.0	21.1
Sikeston, Mo.	21.6	19.2	21.7	20.0	21.4
Stoneville, Miss.	23.6	22.1	22.1	20.8	22.7
St. Joseph, La.	22.2	19.6	22.1	21.4	22.2
Curtis, La.	22.0	21.0	22.2	20.9	21.6
Mean	22.3	20.2	21.9	20.8	21.9
		PROTEIN PERCENTAGE			
Warsaw, Va.	42.4	44.1	39.6	41.3	39.7
Experiment, Ga.	41.5	45.8	41.1	44.5	42.9
Sikeston, Mo.	38.6	41.5	38.7	42.9	39.8
Stoneville, Miss.	36.7	41.7	38.6	43.9	41.1
St. Joseph, La.	39.4	43.3	38.7	43.5	42.1
Curtis, La.	39.6	40.2	38.5	44.4	41.8
Mean	39.7	42.8	39.2	43.4	41.2
		IODINE NUMBER OF OIL			
Warsaw, Va.	138.0	134.0	135.1	128.8	133.2
Experiment, Ga.	135.4	130.3	132.6	124.9	129.4
Sikeston, Mo.	134.3	134.0	131.5	128.3	131.5
Stoneville, Miss.	137.2	134.3	132.9	130.3	127.7
St. Joseph, La.	134.7	129.8	131.5	127.7	123.8
Curtis, La.	135.7	134.7	130.6	129.4	126.0
Mean	136.1	132.9	132.4	128.2	128.6

Table 11: (Continued)

Location	D632-15	D49-247	D50-204	Luthy
		OIL PERCENTAGE		
Warsaw, Va.	21.5	21.5	19.6	20.5
Experiment, Ga.	19.9	20.3	20.1	18.4
Sikeston, Mo.	22.4	20.3	20.2	19.4
Stoneville, Miss.	22.9	22.0	20.0	20.9
St. Joseph, La.	22.3	21.5	17.9	20.5
Curtis, La.	22.4	22.1	20.3	21.5
Mean	21.9	21.3	19.7	20.2
		PROTEIN PERCENTAGE		
Warsaw, Va.	39.1	41.1	43.0	41.0
Experiment, Ga.	42.4	44.1	42.9	43.4
Sikeston, Mo.	38.8	41.3	42.0	40.3
Stoneville, Miss.	38.8	40.2	40.7	40.9
St. Joseph, La.	39.2	40.4	45.7	40.8
Curtis, La.	39.9	41.4	45.5	40.7
Mean	39.7	41.4	43.3	41.2
		IODINE NUMBER OF OIL		
Warsaw, Va.	132.9	136.3	136.0	137.7
Experiment, Ga.	129.2	134.7	132.3	134.3
Sikeston, Mo.	130.9	134.3	129.4	135.4
Stoneville, Miss.	130.3	136.6	136.6	137.4
St. Joseph, La.	129.4	136.0	129.4	133.4
Curtis, La.	130.9	134.3	128.6	134.5
Mean	130.6	135.4	132.1	135.5

Table 12: Maturity data, days earlier (-) or later (+) than Dorman, for the strains in Uniform Group V, 1952

Location	Date Planted	Dorman Matured	S-100	Dortchsoy 67	D517-4
		East Coast			
Georgetown, Del.	5-29	10-5	0	+7	0
Linkwood, Md.	5-28	10-7	-7	+4	-9
Cambridge, Md.	5-28	10-7	-4	+6	-2
Warsaw, Va.	6-3	10-10	-3	+4	-2
Petersburg, Va.	5-9	10-4	-2	+8	0
Holland, Va.	5-15	9-20	0	+2	-1
Plymouth, N. C.	5-6	9-24	-4	0	+2
Mean			-3	+4	-2
		Upper and Central South			
Experiment, Ga.	5-13	10-2	+4	+4	-2
State College, Miss.	5-9	9-12	+4	+4	+3
Mean			+4	+4	0
		Delta			
Sikeston, Mo.	5-13	9-25	+1	+5	-1
Marianna, Ark.	5-29	9-26	+4	+7	-1
Stoneville, Miss. (A)	5-6	9-13	-1	+2	-1
Stoneville, Miss. (B)	4-30	9-18	0	+3	-2
St. Joseph, La.	6-2	9-16	+12	+2	0
Mean			+3	+4	-1
		West			
Curtis, La.	5-13	9-11	+6	0	0
Fayetteville, Ark.	5-14	9-24	+1	+1	0
Bixby, Okla.	5-22	9-17	+10	+16	+9
Stillwater, Okla.	6-9	9-16	+7	+21	+9
Lubbock, Texas	6-23	10-6	-5	-10	-5
Mean			+4	+6	+3

Table 12: (Continued)

Location	D623-33	D632-15	D49-247	D50-204	Luthy
		East Coast			
Georgetown, Del.	0	+5	0	0	+7
Linkwood, Md.	-10	-	-10	-	+2
Cambridge, Md.	-2	-3	-4	-	+4
Warsaw, Va.	0	+4	-2	+3	+5
Petersburg, Va.	+1	-1	+9	+3	+9
Holland, Va.	0	+1	-2	+3	+1
Plymouth, N. C.	+2	-4	+6	0	+7
Mean	-1	0	0	+1	+5
		Upper and Central South			
Experiment, Ga.	-2	0	+1	-3	0
State College, Miss.	+6	+3	+8	+12	0
Mean	+2	+2	+4	+4	0
		Delta			
Sikeston, Mo.	+2	+1	+7	+5	+3
Marianna, Ark.	+3	0	+3	+3	0
Stoneville, Miss. (A)	+2	-3	+7	+2	+1
Stoneville, Miss. (B)	+7	-2	+11	-	+6
St. Joseph, La.	+10	+6	+6	+4	+2
Mean	+5	0	+7	+3	+2
		West			
Curtis, La.	+1	0	+6	+6	0
Fayetteville, Ark.	+1	+1	+2	+3	+2
Bixby, Okla.	+12	+8	+15	+4	+10
Stillwater, Okla.	+13	+11	+22	+27	-
Lubbock, Texas	0	0	-5	-5	-5
Mean	+5	+4	+8	+7	+2

Table 13: Height data for the strains in Uniform Group V, 1952

Location	Dorman	S-100	Dortchsoy 67	D517-4	D623-33
		East Coast			
Georgetown, Del.	34	36	31	32	42
Linkwood, Md.	38	47	41	41	47
Cambridge, Md.	43	49	47	42	54
Warsaw, Va.	37	40	36	36	40
Accomac, Va.	29	28	27	20	38
Petersburg, Va.	34	48	33	40	53
Norfolk, Va.	35	48	38	40	46
Holland, Va.	36	45	38	43	47
Plymouth, N. C.	35	39	35	40	44
Mean	36	42	36	37	46
		Upper and Central South			
Belle Mina, Ala.	29	29	25	26	34
Experiment, Ga.	23	25	27	22	26
Mean	26	27	26	24	30
		Delta			
Sikeston, Mo.	37	47	36	43	45
Clarkedale, Ark.	33	42	35	32	42
Marianna, Ark.	32	37	36	31	44
Stoneville, Miss. (A)	35	28	31	33	49
Stoneville, Miss. (B)	29	51	32	35	44
St. Joseph, La.	32	48	33	30	42
Mean	33	42	34	34	44
		West			
Curtis, La.	28	48	26	28	46
Fayetteville, Ark.	21	26	19	21	30
Bixby, Okla.	28	55	38	44	58
Stillwater, Okla.	28	40	36	35	40
Lubbock, Texas	27	28	31	22	35
Mean	26	39	30	30	42

Table 13: (Continued)

Location	D632-15	D49-247	D50-204	Luthy
		East Coast		
Georgetown, Del.	36	34	25	30
Linkwood, Md.	-	42	-	35
Cambridge, Md.	45	44	-	45
Warsaw, Va.	41	37	32	35
Accomac, Va.	30	31	21	28
Petersburg, Va.	40	43	28	30
Norfolk, Va.	44	40	33	31
Holland, Va.	45	43	31	35
Plymouth, N. C.	39	38	28	32
Mean	40	39	28	33
		Upper and Central South		
Belle Mina, Ala.	32	35	22	24
Experiment, Ga.	27	27	17	24
Mean	30	31	20	24
		Delta		
Sikeston, Mo.	45	41	45	34
Clarkedale, Ark.	38	45	38	33
Marianna, Ark.	39	38	25	30
Stoneville, Miss. (A)	37	44	28	30
Stoneville, Miss. (B)	35	45	-	27
St. Joseph, La.	36	43	22	30
Mean	38	43	32	31
		West		
Curtis, La.	33	36	18	23
Fayetteville, Ark.	24	25	12	25
Bixby, Okla.	39	45	29	33
Stillwater, Okla.	39	37	31	-
Lubbock, Texas	33	26	20	26
Mean	34	34	22	27

Table 14: Lodging scores for the strains in Uniform Group V, 1952

Location	Dorman	S-100	Dortchsoy 67	D517-4	D623-33
		East Coast			
Georgetown, Del.	1.0	1.0	1.0	1.0	1.0
Linkwood, Md.	1.4	1.4	1.9	1.0	1.5
Cambridge, Md.	2.9	1.7	3.0	2.3	3.0
Warsaw, Va.	2.2	1.5	2.0	1.5	1.5
Petersburg, Va.	1.5	1.8	2.2	2.2	3.2
Holland, Va.	3.5	3.0	3.2	2.0	4.8
Plymouth, N. C.	3.3	4.0	3.5	3.0	3.5
		Upper and Central South			
Belle Mina, Ala.	2.3	1.3	2.7	1.0	3.0
Experiment, Ga.	2.0	1.0	1.0	1.0	2.0
		Delta			
Sikeston, Mo.	1.7	1.3	1.2	1.2	1.4
Clarkedale, Ark.	3.0	2.0	4.0	2.0	3.0
Marianna, Ark.	1.0	1.0	1.0	1.0	1.0
Stoneville, Miss. (A)	1.7	1.0	1.7	1.7	2.0
Stoneville, Miss. (B)	2.0	3.3	3.0	2.0	4.3
St. Joseph, La.	2.0	2.0	2.0	1.0	3.0
		West			
Curtis, La.	1.0	3.0	3.0	2.0	3.0
Fayetteville, Ark.	2.0	2.0	2.0	2.0	2.0
Bixby, Okla.	1.5	1.7	1.2	2.0	2.0
Stillwater, Okla.	2.2	1.5	1.5	2.2	2.5
Lubbock, Texas	1.0	1.0	1.0	1.0	1.0

Table 14: (Continued)

Location	D632-15	D49-247	D50-204	Luthy
		East Coast		
Georgetown, Del.	1.0	1.0	1.0	1.0
Linkwood, Md.	-	1.0	-	1.5
Cambridge, Md.	3.0	1.1	-	3.1
Warsaw, Va.	2.5	1.0	1.0	2.5
Petersburg, Va.	3.0	2.5	2.8	2.2
Holland, Va.	4.8	1.0	1.5	1.8
Plymouth, N. C.	4.3	2.5	2.3	3.5
		Upper and Central South		
Belle Mina, Ala.	3.0	1.7	1.0	2.3
Experiment, Ga.	1.0	1.0	1.0	2.0
		Delta		
Sikeston, Mo.	1.3	1.2	1.1	1.5
Clarkedale, Ark.	3.0	3.0	2.0	3.0
Marianna, Ark.	1.0	1.0	1.0	1.0
Stoneville, Miss. (A)	1.7	2.3	1.0	1.7
Stoneville, Miss. (B)	2.3	3.7	-	2.0
St. Joseph, La.	3.0	1.0	1.0	2.0
		West		
Curtis, La.	2.0	2.0	1.0	1.0
Fayetteville, Ark.	1.0	1.0	1.0	3.0
Bixby, Okla.	2.2	1.7	1.7	1.3
Stillwater, Okla.	2.0	1.5	1.3	-
Lubbock, Texas	1.0	1.0	1.0	1.0

Table 15: Seed quality scores for the strains in Uniform Group V, 1952

Location	Dorman	S-100	Dortchsoy 67	D517-4	D623-33
		East Coast			
Georgetown, Del.	3.0	4.0	3.0	3.0	3.0
Linkwood, Md.	1.3	1.5	1.5	1.3	1.5
Cambridge, Md.	1.0	1.7	1.3	1.3	1.5
Warsaw, Va.	1.0	3.0	1.0	2.0	1.0
Accomac, Va.	2.0	2.0	2.0	2.0	2.0
Petersburg, Va.	1.0	2.0	1.0	2.8	1.5
Norfolk, Va.	2.2	3.0	1.8	2.0	2.0
Holland, Va.	1.0	4.0	1.0	2.0	2.0
Plymouth, N. C.	3.0	4.0	3.0	4.0	3.0
		Delta			
Sikeston, Mo.	2.0	2.0	2.0	2.0	2.0
Clarkedale, Ark.	2.0	4.0	2.0	3.0	2.0
Marianna, Ark.	2.0	2.0	2.0	2.0	2.0
Stoneville, Miss. (A)	2.0	3.0	3.0	2.0	2.0
Stoneville, Miss. (B)	1.3	3.0	2.0	2.0	2.0
St. Joseph, La.	1.0	2.0	1.0	2.0	1.0
		West			
Curtis, La.	2.0	2.0	2.0	1.0	2.0
Fayetteville, Ark.	2.0	2.0	2.0	2.0	2.0
Bixby, Okla.	2.2	2.5	3.0	4.0	2.2
Stillwater, Okla.	2.3	3.0	3.3	3.0	3.5
Lubbock, Texas	2.0	2.0	2.0	2.0	2.0

Table 15: (Continued)

Location	D632-15	D49-247	D50-204	Luthy
		East Coast		
Georgetown, Del.	4.0	4.0	3.0	3.0
Linkwood, Md.	-	1.0	-	1.5
Cambridge, Md.	1.0	1.0	-	1.3
Warsaw, Va.	1.0	2.0	2.0	2.0
Accomac, Va.	2.0	2.0	2.0	2.0
Petersburg, Va.	1.8	2.8	1.2	2.2
Norfolk, Va.	2.0	2.0	2.2	2.0
Holland, Va.	1.0	2.0	1.0	1.0
Plymouth, N. C.	3.0	3.0	3.0	3.0
		Delta		
Sikeston, Mo.	2.0	2.0	2.0	2.0
Clarkedale, Ark.	2.0	2.0	2.0	3.0
Marianna, Ark.	2.0	2.0	2.0	2.0
Stoneville, Miss. (A)	2.3	2.0	2.7	3.0
Stoneville, Miss. (B)	1.7	2.0	-	2.0
St. Joseph, La.	2.0	1.0	1.0	2.0
		West		
Curtis, La.	2.0	1.0	2.0	3.0
Fayetteville, Ark.	2.0	2.0	2.0	2.0
Bixby, Okla.	3.5	2.5	3.0	3.0
Stillwater, Okla.	3.0	3.0	3.3	-
Lubbock, Texas	2.0	3.0	3.0	3.0

Table 16: Seed weight, in grams per 100 seeds, for the strains in Uniform Group V, 1952

Location	Dorman	S-100	Dortchsoy 67	D517-4	D623-33
		East Coast			
Linkwood, Md.	13.3	14.1	11.2	19.3	14.9
Cambridge, Md.	12.4	14.5	12.3	19.4	15.4
Warsaw, Va.	14.5	14.5	11.5	19.0	15.0
Petersburg, Va.	15.0	17.5	12.8	18.5	15.2
Holland, Va.	13.2	14.8	11.8	19.0	14.8
Plymouth, N. C.	10.7	11.1	9.5	16.5	13.3
Mean	13.2	14.4	11.5	18.6	14.8
		Delta			
Sikeston, Mo.	12.5	13.9	12.0	14.6	12.1
Clarkedale, Ark.	11.0	13.0	10.0	13.0	12.0
Marianna, Ark.	13.5	13.0	12.5	13.5	13.0
Stoneville, Miss. (A)	11.3	10.9	10.2	12.4	11.0
Stoneville, Miss. (B)	12.0	13.0	11.8	14.4	11.9
Mean	12.1	12.8	11.3	13.6	12.0
		West			
Fayetteville, Ark.	14.0	14.5	13.0	16.5	13.5
Bixby, Okla.	9.9	11.5	10.0	14.1	10.7
Stillwater, Okla.	9.1	10.1	9.5	12.2	10.4
Lubbock, Texas	15.0	16.0	17.0	15.0	17.0
Mean	12.0	13.0	12.4	14.5	12.9

Table 16: (Continued)

Location	D632-15	D49-247	D50-204	Luthy
		East Coast		
Linkwood, Md.	-	13.7	-	17.9
Cambridge, Md.	12.6	12.9	-	17.5
Warsaw, Va.	12.5	14.5	13.0	18.0
Petersburg, Va.	14.0	15.2	13.8	18.0
Holland, Va.	15.0	15.0	14.0	17.5
Plymouth, N. C.	10.4	14.3	12.0	15.7
Mean	12.9	14.3	13.2	17.4
		Delta		
Sikeston, Mo.	10.4	14.1	11.8	15.2
Clarkedale, Ark.	10.0	11.5	11.0	12.5
Marianna, Ark.	11.5	13.0	12.5	14.5
Stoneville, Miss. (A)	8.8	11.9	10.0	12.4
Stoneville, Miss. (B)	11.3	13.8	-	15.9
Mean	10.4	12.9	11.3	14.1
		West		
Fayetteville, Ark.	11.5	14.0	12.0	14.0
Bixby, Okla.	9.1	11.7	11.0	12.1
Stillwater, Okla.	8.1	11.2	11.0	-
Lubbock, Texas	16.0	15.0	15.0	15.0
Mean	11.2	13.0	12.3	13.7

Table 17: Two-year average of yield, in bushels per acre, and oil percentage for the strains in Uniform Group V, 1951-52

Location	Dorman	S-100	Dortchsoy 67	D517-4
		YIELD		
		East Coast		
Warsaw, Va.	28.3	29.0	27.4	29.2
Petersburg, Va.	31.8	31.4	33.2	33.0
Holland, Va.	34.8	32.0	35.6	34.2
Plymouth, N. C.	29.1	19.3	29.9	25.4
Mean	31.0	27.9	31.5	30.4
		Upper and Central South		
Belle Mina, Ala.	17.3	17.0	17.2	15.6
Experiment, Ga.	12.4	11.6	14.7	10.6
State College, Miss.	12.8	17.8	17.3	13.9
Mean	14.2	15.5	16.4	13.4
		Delta		
Sikeston, Mo.	17.6	20.2	22.2	18.6
Marianna, Ark.	14.2	11.7	11.8	13.4
Stoneville, Miss. (B)	40.0	38.4	35.8	36.2
St. Joseph, La.	38.3	34.4	45.6	36.7
Mean	27.5	26.2	28.8	26.2
		West		
Curtis, La.	31.5	30.1	30.4	24.4
Fayetteville, Ark.	17.2	18.2	16.8	17.5
Bixby, Okla.	13.6	12.8	12.4	11.2
Lubbock, Texas	16.4	16.0	18.4	13.2
Mean	19.7	19.3	19.5	16.6
		OIL PERCENTAGE		
Warsaw, Va.1/	21.3	19.7	21.3	21.0
Sikeston, Mo.	22.0	19.5	21.9	20.4
Stoneville, Miss.	23.4	20.9	21.8	21.3
Mean2/	21.8	19.8	21.5	20.7

1/- 1951 data from Petersburg, Va.

2/- Mean of 8 locations in 1951 and 6 locations in 1952.

Table 17: (Continued)

Location	D623-33	D632-15	D649-247
	YIELD		
	East Coast		
Warsaw, Va.	26.4	25.6	26.0
Petersburg, Va.	32.0	30.3	28.0
Holland, Va.	30.7	30.6	35.4
Plymouth, N. C.	23.3	21.2	28.9
Mean	28.1	26.9	29.6
	Upper and Central South		
Belle Mina, Ala.	16.0	13.3	15.8
Experiment, Ga.	10.0	10.7	11.6
State College, Miss.	14.2	13.6	15.6
Mean	13.4	12.5	14.3
	Delta		
Sikeston, Mo.	15.7	16.0	16.4
Marianna, Ark.	14.0	11.7	15.1
Stoneville, Miss. (B)	30.4	34.8	35.0
St. Joseph, La.	35.0	33.6	40.4
Mean	23.8	24.0	26.7
	West		
Curtis, La.	26.6	25.8	32.0
Fayetteville, Ark.	15.8	13.0	15.5
Bixby, Okla.	9.2	10.6	12.2
Lubbock, Texas	16.7	17.3	12.0
Mean	17.1	16.7	17.9
	OIL PERCENTAGE		
Warsaw, Va.[1]	21.7	20.9	20.9
Sikeston, Mo.	22.4	22.7	20.6
Stoneville, Miss.	22.9	22.6	21.8
Mean[2]	22.0	21.8	21.2

Table 18: Three-year average of yield, in bushels per acre, and oil percentage for the strains in Uniform Group V, 1950-52

Location	Dorman	S-100	D517-4	D623-33	D632-15
		YIELD			
		East Coast			
Warsaw, Va.	28.3	27.4	28.7	25.1	25.0
Petersburg, Va.	35.5	33.1	36.3	34.4	31.3
Holland, Va.	37.8	35.9	38.5	31.1	32.9
Plymouth, N. C.	30.9	23.1	27.7	26.2	24.6
Mean	33.1	29.9	32.8	29.2	28.4
		Upper and Central South			
Experiment, Ga.	16.9	15.2	15.8	15.5	16.5
State College, Miss.	19.5	23.4	21.2	20.7	18.8
Mean	18.2	19.3	18.5	18.1	17.6
		Delta			
Sikeston, Mo.	21.6	25.3	24.8	21.6	21.8
Clarkedale, Ark.	13.9	14.9	13.7	12.6	12.4
Marianna, Ark.	18.0	13.9	16.1	14.6	14.8
Stoneville, Miss. (B)	44.1	39.7	40.2	34.5	39.2
St. Joseph, La.	34.2	33.1	34.0	32.7	31.8
Mean	26.4	25.4	25.8	23.2	24.0
		West			
Curtis, La.	31.7	32.7	26.2	30.4	26.9
Fayetteville, Ark.	24.9	22.9	22.6	19.7	19.1
Bixby, Okla.	24.1	21.5	19.7	9.4	19.6
Lubbock, Texas	12.5	19.0	16.3	20.0	20.0
Mean	23.3	24.0	21.2	19.9	21.4
		OIL PERCENTAGE			
Warsaw, Va.[1/]	21.2	19.5	21.0	21.6	21.2
Sikeston, Mo.	21.5	19.1	20.3	22.0	22.1
Stoneville, Miss.	23.1	20.9	21.4	22.8	21.6
Mean[2/]	21.8	19.8	20.8	22.0	21.6

1/1950 and 1951 data for Petersburg.

2/Mean of 8 locations in 1950 and 1951 and 6 locations in 1952.

UNIFORM GROUP VI, 1952

Strain or Variety	Source or Originating Agency	Origin
Ogden	Tennessee Agric. Expt. Sta.	Sel. from Tokio x P.I.54610
Hale Ogden #2	George Hale, Blytheville, Ark.	Sel. from Ogden
N46-1703	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate x Ogden
D49-2491	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from N46-2566 (S100 x CNS)
D49-2524	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from N46-2566 (S100 x CNS)
N48-886	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x Ogden
N43-1101	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x Ogden
N48-1151	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x Ogden
N48-1515	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x N45-745 1/
N48-1831	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x N45-745
N48-2087	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x N45-745
D49-854	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x N45-745

1/ N45-745 is a selection from Ogden x CNS resistant to bacterial pustule.

Forty-two Group VI nurseries were planted. Results are summarized for 32 nurseries in tables 19 through 30. Of these, yields were too low or erratic from 7 of the nurseries reporting to be included in the sectional means. An extremely early frost reduced yields at Sikeston, Missouri; Fayetteville, Arkansas; and Lubbock and Plainview, Texas. Yields were very low in much of the Southwest because of drouth. Nearly all tests in the East and Southeast had good yields and low coefficients of variability. As pointed out for Group V, the good yields reported for Stoneville and St. Joseph were produced largely from soil moisture.

Although satisfactory yields are obtained from strains of this maturity in the Southeast, most of the present strains tend to be rather short in that area. However, under the good growing conditions at Walnut Hill, the height has been similar to that obtained in more northern areas. It appears that strains of Group VI maturity are generally not as well adapted for production in the Southeast as strains of Group VII maturity.

Hale Ogden 2 has been included in these tests for four years. Its performance has been generally similar to that of the parent strain Ogden, except that Hale Ogden 2 shows a slight advantage in oil content. At Tallassee and Fairhope, Alabama, Hale Ogden 2 shows a yield advantage. However, at Walnut Hill, Florida, under conditions generally similar to Fairhope, Ogden shows a yield advantage.

N46-1703 has been grown for three years. Its yield has not been as consistent as that of Ogden, and for the three-year period has averaged below Ogden in all production areas.

The two most promising lines in the group are D49-2524, which has been tested for two years, and its sister strain, D49-2491, which has been tested for only one year. The two-year average yield of D49-2524 has been above that of Ogden at nearly all locations. Oil content is slightly higher than that of Ogden. In the 1952 tests, as well as in preliminary tests, D49-2491 has a slightly higher oil content than D49-2524. Both strains are resistant to bacterial pustule, wildfire, frogeye, and purple seed stain. In addition, they hold their seed extremely well and produce high quality seed. They will average 5 to 7 days later in maturity than Ogden.

Six other strains, N48-886, N48-1101, N48-1151, N48-1515, N48-1831, and N48-2087, have also been in test for two years. Although none of these show as much promise as D49-2524 or D49-2491, N48-1831 has yielded very well in the more northern tests. N48-1831 is a pustule-resistant line which averages two days earlier in maturity than Ogden. Its oil content averages .6 per cent higher than Ogden.

Only one new strain, D49-854, was grown. D49-854 yielded well in all tests and averages .6 per cent higher in oil content than Ogden. Its general growth characteristics and maturity are similar to Ogden. However, D49-854 does carry resistance to bacterial pustule and is less subject to shattering than Ogden.

Table 19: Yield, in bushels per acre, for the strains in Uniform Group VI, 1952

Location	Ogden	Hale Ogden 2	N46-1703	D49-2491	D49-2524	N48-886	N48-1101
			East Coast				
Warsaw, Va.	35.3	34.6	33.2	33.2	36.5	35.1	32.5
Accomac, Va.	22.4	20.8	19.5-	28.0+	27.2+	22.8	27.8+
Petersburg, Va.	34.1	33.0	29.3-	31.5	32.2	29.7-	31.9
Norfolk, Va. 1/	38.5	39.4	20.8-	32.0	37.8	36.4	23.6-
Holland, Va.	29.5	30.0	32.2	30.0	31.4	29.9	29.1
Plymouth, N. C.	33.4	40.5+	31.6	42.1	38.1	35.8	33.1
Willard, N. C.	31.9	31.4	29.9	-	33.7	28.0-	24.3-
McCullers, N. C.	40.1	37.3	36.3	39.5	40.9	35.9-	36.3
Hartsville, S. C. 1/	7.9	8.0	7.9	15.9	11.0	6.9	7.4
Mean	32.4	32.5	30.3	34.1	34.3	31.0	30.7
			Southeast				
Tallassee, Ala.	29.8	40.9	23.4	36.6	40.7	36.3	39.7
Monticello, Fla.	29.3	37.8	31.4	31.7	36.2	38.0	30.9
Quincy, Fla.	23.4	22.9	17.9	35.0+	32.0+	24.4	28.0+
Marianna, Fla.	31.5	32.3	31.7	32.5	35.3	35.6	36.5+
Walnut Hill, Fla.	32.5	32.7	28.6	37.7+	39.4+	34.4	31.0
Fairhope, Ala.	19.3	22.2	14.8	22.4	19.5	17.9	17.1
Baton Rouge, La.	32.4	39.7	35.8	34.2	32.9	37.1	32.2
Mean	28.3	32.6	26.2	32.9	33.7	32.0	30.8
			Upper and Central South				
Belle Mina, Ala.	30.0	28.8	27.0	25.2	28.5	33.5	29.4
Experiment, Ga.	21.8	25.9+	19.2	27.3+	30.3+	24.6	21.8
State College, Miss.	15.2	18.6	11.0	13.7	13.3	15.1	14.8
Mean	22.3	24.4	19.1	22.1	24.0	24.4	22.0
			Delta				
Sikeston, Mo.	15.2	14.3	12.7	9.2-	11.3-	16.9	16.1
Clarkedale, Ark.	13.6	12.9	13.2	13.6	14.5	13.4	14.3
Marianna, Ark. 1/	13.4	28.3	28.4	10.7	22.4	26.1	20.0
Stoneville, Miss. (A)	20.5	24.1	17.8	21.0	20.2	17.6	19.2
Stoneville, Miss. (B)	41.9	42.5	37.9	48.6+	46.6	39.8	42.9
Louise, Miss.	11.7	15.8	10.0	22.9+	22.1+	13.4	14.2
St. Joseph, La.	53.9	55.4	54.5	46.2-	45.6-	57.4	46.7
Mean	26.1	27.5	24.4	26.9	26.7	26.4	25.6
			West				
Curtis, La.	34.8	32.4	29.6	37.9	38.1	31.6	30.3
Fayetteville, Ark.	9.3	13.4	11.2	6.7	10.9	10.1	13.2
Bixby, Okla.	5.9	6.1	4.1	1.1	1.1	4.9	5.1
Stillwater, Okla.	1.0	1.3	1.0	2.0	-	1.2	1.6
Tishomingo, Okla.	3.3	4.2	5.3	3.3	4.5	4.6	4.3
Lubbock, Texas	19.0	15.4-	20.0	19.1	15.5-	21.1	20.6

(+) - 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	N48-1151	N48-1515	N48-1831	N48-2087	D49-854	L.S.D. (5%)	C.V.
			East Coast				
Warsaw, Va.	33.0	29.4-	33.1	31.9-	33.1	2.9	6%
Accomac, Va.	25.2+	27.5+	21.8	19.8	26.7+	2.8	11%
Petersburg, Va.	29.7-	26.4-	33.7	28.6-	30.0	4.4	10%
Norfolk, Va.1/	22.0-	29.4	44.9	27.0-	23.6-	9.3	28%
Holland, Va.	29.6	26.4	34.2	28.3	30.5	N.S.	13%
Plymouth, N.C.	35.4	35.9	41.2+	30.6	35.4	5.7	11%
Willard, N. C.	28.6	26.5-	31.8	27.9-	32.5	3.9	9%
McCullers, N. C.	33.0-	35.0-	38.9	36.6	36.8	4.1	8%
Hartsville, S. C.1/	6.2	9.3	8.7	7.4	10.7	4.2	36%
Mean	30.6	29.6	33.5	29.1	32.1		
			Southeast				
Tallassee, Ala.	38.8	38.8	32.9	37.7	45.0	N.S.	19%
Monticello, Fla.	31.1	31.2	28.5	29.2	32.5	N.S.	14%
Quincy, Fla.	26.0	26.7	26.7	30.5+	27.0	3.7	8%
Marianna, Fla.	33.0	31.5	31.8	40.3+	36.0+	4.3	7%
Walnut Hill, Fla.	29.8	32.0	36.5	29.4	32.7	4.5	8%
Fairhope, Ala.	13.4	19.2	15.2	15.7	19.6	N.S.	
Baton Rouge, La.	29.6	30.6	33.7	33.2	40.2	N.S.	18%
Mean	28.8	30.0	29.3	30.9	33.3		
			Upper and Central South				
Belle Mina, Ala.	28.0	27.1	30.1	26.2	34.0	4.8	10%
Experiment, Ga.	24.8	25.8+	22.1	26.1+	25.9+	4.0	10%
State College, Miss.	11.8	14.1	10.9	13.0	17.6	N.S.	25%
Mean	21.5	22.3	21.0	21.8	25.8		
			Delta				
Sikeston, Mo.	12.2	9.4-	18.3	15.5	15.8	3.6	24%
Clarkedale, Ark.	14.0	10.2	14.3	13.2	16.1	N.S.	20%
Marianna, Ark.	18.8	13.8	22.9	16.3	26.3	N.S.	41%
Stoneville, Miss. (A)	16.6	21.8	18.0	18.0	25.8	N.S.	20%
Stoneville, Miss. (B)	40.7	41.7	40.2	42.8	47.6	5.8	8%
Louise, Miss.	12.3	12.0	11.6	12.2	21.7+	4.8	19%
St. Joseph, La.	47.9	45.9-	55.9	45.9-	52.2	7.6	10%
Mean	24.0	23.5	26.4	24.6	29.9		
			West				
Curtis, La.	27.8	30.6	34.5	29.6	32.7	N.S.	17%
Fayetteville, Ark.	11.5	7.0	11.9	12.6	14.6	N.S.	32%
Bixby, Okla.	4.4	-	4.5	3.5	2.6	1.8	32%
Stillwater, Okla.	1.9	-	1.0	1.0	1.0		
Tishomingo, Okla.	3.1	1.0	6.6	5.9	3.9	2.2	37%
Lubbock, Texas	15.9-	19.1	20.7	18.3	13.5-	2.3	9%

Table 20: Chemical composition of the strains in Uniform Group VI, 1952

Location	Ogden	Hale Ogden 2	N46-1703	D49-2491	D49-2524	N48-886
			OIL PERCENTAGE			
Warsaw, Va.	20.9	21.2	21.2	20.6	20.6	21.2
Plymouth, N. C.	20.6	20.6	20.6	20.0	19.9	20.3
McCullers, N. C.	20.4	20.4	21.1	20.6	20.1	20.6
Walnut Hill, Fla.	22.1	22.8	22.1	23.1	22.2	23.4
Baton Rouge, La.	21.7	22.1	22.6	23.8	23.9	22.7
Clarkedale, Ark.	21.6	22.0	21.9	22.1	21.8	22.7
Stoneville, Miss. (A)	20.8	21.2	21.3	21.8	21.3	19.3
Stoneville, Miss. (B)	20.6	21.9	22.1	21.8	22.1	21.8
St. Joseph, La.	21.5	22.4	21.1	21.9	21.9	22.0
Curtis, La.	21.1	21.0	21.8	22.3	22.4	21.6
Mean	21.1	21.5	21.6	21.8	21.6	21.6
			PROTEIN PERCENTAGE			
Warsaw, Va.	42.6	41.6	41.4	44.3	43.2	41.7
Plymouth, N. C.	41.6	41.5	39.1	42.0	43.2	40.2
McCullers, N. C.	42.4	42.3	41.7	41.5	43.5	41.4
Walnut Hill, Fla.	40.0	40.4	40.0	40.8	40.9	39.3
Baton Rouge, La.	40.3	38.1	39.4	36.2	37.0	39.2
Clarkedale, Ark.	37.6	36.4	37.6	35.1	36.7	36.5
Stoneville, Miss. (A)	42.5	41.8	42.6	42.1	42.4	43.2
Stoneville, Miss. (B)	40.9	39.9	40.6	38.9	39.9	39.5
St. Joseph, La.	41.2	39.8	40.3	39.6	42.1	40.5
Curtis, La.	41.4	41.2	41.3	39.5	40.8	40.9
Mean	41.1	40.3	40.4	40.0	41.0	40.2
			IODINE NUMBER OF OIL			
Warsaw, Va.	139.1	138.3	136.9	138.3	138.6	138.0
Plymouth, N. C.	140.2	140.2	139.7	135.4	134.3	139.7
McCullers, N. C.	139.4	139.1	138.8	137.2	137.2	138.6
Walnut Hill, Fla.	133.7	132.6	133.4	128.6	127.5	133.4
Baton Rouge, La.	135.7	138.0	136.3	134.0	134.7	136.0
Clarkedale, Ark.	135.7	135.4	135.4	136.3	136.3	136.6
Stoneville, Miss. (A)	134.0	133.4	134.0	130.3	131.7	133.4
Stoneville, Miss. (B)	138.8	137.2	133.7	133.7	134.7	134.5
St. Joseph, La.	134.5	136.3	135.4	133.4	132.3	134.3
Curtis, La.	132.9	134.3	134.0	131.2	130.3	134.0
Mean	136.4	136.5	135.8	133.8	133.8	135.9

Table 20: (Continued)

Location	N48-1101	N48-1151	N48-1515	N48-1831	N48-2087	D49-854
			OIL PERCENTAGE			
Warsaw, Va.	22.1	21.8	20.9	21.3	21.9	21.5
Plymouth, N. C.	21.3	20.9	20.7	20.8	20.6	20.2
McCullers, N. C.	21.0	20.9	20.9	20.7	19.8	20.0
Walnut Hill, Fla.	22.0	22.2	23.5	23.2	22.1	22.6
Baton Rouge, La.	22.7	22.6	24.6	23.3	22.5	22.4
Clarkedale, Ark.	22.4	22.1	21.9	23.2	22.2	22.6
Stoneville, Miss. (A)	22.0	21.8	21.5	20.8	20.9	21.4
Stoneville, Miss. (B)	21.7	21.9	21.6	21.7	21.1	21.3
St. Joseph, La.	21.5	22.3	22.7	22.9	21.5	22.0
Curtis, La.	21.9	21.5	22.7	21.8	21.4	22.5
Mean	21.9	21.8	22.1	22.0	21.4	21.7
			PROTEIN PERCENTAGE			
Warsaw, Va.	41.5	40.8	41.2	41.2	40.5	40.7
Plymouth, N. C.	41.3	41.6	42.3	41.1	42.1	42.7
McCullers, N. C.	41.1	41.4	41.2	42.1	43.0	42.2
Walnut Hill, Fla.	40.0	40.1	39.0	40.0	40.1	40.4
Baton Rouge, La.	40.1	39.7	37.5	39.0	40.9	40.2
Clarkedale, Ark.	36.1	36.4	35.1	35.3	37.6	35.5
Stoneville, Miss. (A)	42.5	42.0	42.5	41.9	43.7	42.1
Stoneville, Miss. (B)	40.7	39.0	39.3	39.2	41.1	42.0
St. Joseph, La.	41.4	41.2	38.6	38.7	40.7	39.8
Curtis, La.	41.3	42.3	41.0	39.8	41.3	40.8
Mean	40.6	40.5	39.8	39.8	41.1	40.6
			IODINE NUMBER OF OIL			
Warsaw, Va.	137.7	136.6	138.3	136.0	137.4	136.3
Plymouth, N. C.	139.9	138.6	134.7	135.7	135.4	133.2
McCullers, N. C.	138.3	137.2	136.0	135.1	135.7	133.2
Walnut Hill, Fla.	125.8	130.0	130.3	130.0	129.4	127.5
Baton Rouge, La.	135.7	136.3	136.3	136.3	135.7	132.9
Clarkedale, Ark.	134.3	134.3	134.3	134.3	134.7	132.9
Stoneville, Miss. (A)	131.2	131.5	130.0	130.3	130.9	130.3
Stoneville, Miss. (B)	133.2	135.1	135.4	133.7	134.3	132.6
St. Joseph, La.	133.2	132.3	135.1	134.3	131.2	133.7
Curtis, La.	130.9	130.0	130.6	131.2	130.3	129.2
Mean	134.0	134.2	134.1	133.7	133.5	132.2

Table 21: Relative maturity data, days earlier (-) or later (+) than Ogden, for the strains in Uniform Group VI, 1952

Location	Date Planted	Ogden Matured	Hale Ogden 2	N46-1703	D49-2491	D49-2524
			East Coast			
Warsaw, Va.	6-3	10-25	+1	-5	+9	+9
Petersburg, Va.	5-9	10-18	+1	-2	+4	+5
Holland, Va.	5-15	10-1	0	0	0	+4
Plymouth, N. C.	5-6	10-10	0	-3	+10	+10
Willard, N. C.	6-25	10-22	+1	+2	-	+6
McCullers, N. C.	5-16	10-14	0	-2	+6	+7
Hartsville, S. C.	5-19	10-12	0	-9	+6	+6
Mean			0	-3	+7	+7
			Southeast			
Tallassee, Ala.	5-21	10-15	-3	+1	+7	+7
Monticello, Fla.	7-10	10-22	-5	-2	+1	-5
Quincy, Fla.	6-15	10-5	0	+4	+10	+10
Marianna, Fla.	5-27	10-6	0	-8	+10	+8
Walnut Hill, Fla.	6-13	10-4	+3	-3	+1	+2
Baton Rouge, La.	6-6	10-10	+1	-2	+4	+4
Mean			-1	-2	+5	+4
			Upper and Central South			
Belle Mina, Ala.	5-17	10-16	0	0	+6	+6
Experiment, Ga.	5-13	10-20	0	+4	+3	+5
Mean			0	+2	+5	+6
			Delta			
Sikeston, Mo.	5-13	F	F	10-5	F	F
Marianna, Ark.	5-29	10-21	0	-4	+1	+2
Stoneville, Miss. (A)	5-5	10-5	-1	-10	+10	+10
Stoneville, Miss. (B)	4-30	10-9	0	-2	+11	+12
Louise, Miss.	5-8	10-12	+1	0	+4	+4
St. Joseph, La.	6-2	10-11	-4	-2	+3	+3
Mean			-1	-4	+6	+6
			West			
Curtis, La.	5-13	10-4	-3	-5	+10	+10
Fayetteville, Ark.	5-14	F	F	F	F	F
Bixby, Okla.	5-22	10-11	-1	-3	+1	+1
Stillwater, Okla.	6-9	10-17	-2	-7	+5	+6
Tishomingo, Okla.	6-7	10-19	-4	-8	+3	+3
Lubbock, Texas	6-23	F	F	F	F	F
Mean			-2	-6	+5	+5

Table 21: (Continued)

Location	N48-886	N48-1101	N48-1151	N48-1515	N48-1831	N48-2087	D49-854
			East Coast				
Warsaw, Va.	+2	0	+2	+9	-3	+1	+4
Petersburg, Va.	0	0	+2	+6	-1	0	+1
Holland, Va.	+1	-1	+2	-1	0	+1	-1
Plymouth, N. C.	0	+3	+1	+10	+2	+3	+4
Willard, N. C.	+1	+2	+2	+4	+2	+4	+5
McCullers, N. C.	0	+2	+1	+7	0	+2	+5
Hartsville, S. C.	+3	-4	-7	+6	-10	+3	+3
Mean	+1	0	+1	+6	-2	+2	+3
			Southeast				
Tallassee, Ala.	+1	+10	+9	+8	0	+8	-2
Monticello, Fla.	+1	0	+1	-2	-5	0	-2
Quincy, Fla.	+4	+10	+7	+10	+7	+10	+4
Marianna, Fla.	0	+4	+4	+10	-8	+6	0
Walnut Hill, Fla.	+2	+3	+3	+3	-1	-2	0
Baton Rouge, La.	0	+3	+5	+6	+2	+1	+2
Mean	+1	+5	+5	+6	-1	+4	0
			Upper and Central South				
Belle Mina, Ala.	0	0	+4	+6	0	0	0
Experiment, Ga.	-1	-3	+2	+1	-3	+6	+2
Mean	0	-2	+3	+4	-2	+3	+1
			Delta				
Sikeston, Mo.	F	F	F	F	F	F	F
Marianna, Ark.	0	+1	0	+3	-4	+1	-1
Stoneville, Miss. (A)	-6	-2	-6	+12	-7	-1	+1
Stoneville, Miss. (B)	0	+2	+2	+13	0	+3	+2
Louise, Miss.	-1	+1	+1	+4	+1	+1	+1
St. Joseph, La.	-2	+1	0	0	-4	-1	-3
Mean	-2	+1	-1	+6	-2	+1	0
			West				
Curtis, La.	-7	+5	+4	+10	-2	+2	-5
Fayetteville, Ark.	F	F	F	F	F	F	F
Bixby, Okla.	+2	0	-2	+5	-2	-1	+2
Stillwater, Okla.	+1	-1	+2	+2	+2	+2	+4
Tishomingo, Okla.	-4	-4	+3	+3	-8	-7	+1
Lubbock, Texas	F	F	F	F	F	F	F
Mean	-2	0	+2	+5	-2	-1	0

Table 22: Height data for the strains in Uniform Group VI, 1952

Location	Ogden	Hale Ogden 2	N46-1703	D49-2491	D49-2524	N48-886
			East Coast			
Warsaw, Va.	39	39	33	34	34	36
Petersburg, Va.	34	34	29	34	31	32
Holland, Va.	38	40	32	38	39	39
Plymouth, N. C.	37	38	31	34	34	38
Willard, N. C.	26	26	25	-	28	24
McCullers, N. C.	41	40	34	36	36	41
Hartsville, S. C.	28	30	23	29	30	27
Mean	35	35	30	34	33	34
			Southeast			
Tallassee, Ala.	23	22	17	24	26	24
Monticello, Fla.	21	25	19	25	24	20
Quincy, Fla.	18	16	11	22	22	17
Marianna, Fla.	20	18	14	24	25	20
Walnut Hill, Fla.	36	38	31	33	33	38
Fairhope, Ala.	23	23	18	23	20	18
Baton Rouge, La.	28	25	24	28	24	26
Mean	24	24	19	26	25	23
			Upper and Central South			
Belle Mina, Ala.	33	32	25	32	33	31
Experiment, Ga.	24	27	23	25	28	29
Mean	29	30	24	29	31	30
			Delta			
Sikeston, Mo.	39	37	34	40	39	38
Clarkedale, Ark.	34	34	33	35	31	33
Marianna, Ark.	33	34	28	34	33	34
Stoneville, Miss. (A)	33	30	25	26	27	26
Stoneville, Miss. (B)	31	31	25	31	32	31
Louise, Miss.	25	27	17	27	25	25
St. Joseph, La.	33	33	23	26	30	29
Mean	33	32	26	31	31	31
			West			
Curtis, La.	32	20	18	33	33	34
Fayetteville, Ark.	21	23	18	23	23	18
Bixby, Okla.	35	35	31	36	38	33
Stillwater, Okla.	34	31	24	30	33	28
Tishomingo, Okla.	24	24	19	27	27	22
Lubbock, Texas	34	32	29	37	36	29
Mean	30	28	23	31	32	27

Table 22: (Continued)

Location	N48-1101	N48-1151	N48-1515	N48-1831	N48-2087	D49-854
			East Coast			
Warsaw, Va.	38	41	44	35	42	32
Petersburg, Va.	33	38	45	32	36	30
Holland, Va.	37	41	45	38	46	32
Plymouth, N. C.	38	39	39	36	38	30
Willard, N. C.	22	27	29	23	26	25
McCullers, N. C.	41	42	48	38	48	37
Hartsville, S. C.	28	35	36	29	37	24
Mean	34	38	41	33	39	30
			Southeast			
Tallassee, Ala.	22	34	35	22	35	25
Monticello, Fla.	28	24	26	19	31	25
Quincy, Fla.	20	22	25	20	21	18
Marianna, Fla.	22	33	29	19	26	21
Walnut Hill, Fla.	39	37	38	35	33	38
Fairhope, Ala.	22	30	26	16	36	20
Baton Rouge, La.	23	24	34	25	32	28
Mean	25	29	30	22	31	25
			Upper and Central South			
Belle Mina, Ala.	33	35	39	33	36	33
Experiment, Ga.	26	30	32	27	34	24
Mean	30	33	36	30	35	29
			Delta			
Sikeston, Mo.	40	44	49	39	45	37
Clarkedale, Ark.	36	39	42	35	42	34
Marianna, Ark.	35	39	41	36	41	36
Stoneville, Miss. (A)	28	33	37	29	39	31
Stoneville, Miss. (B)	33	43	42	27	38	31
Louise, Miss.	26	25	36	24	37	28
St. Joseph, La.	34	32	33	32	36	33
Mean	33	36	40	32	40	33
			West			
Curtis, La.	35	22	48	28	50	33
Fayetteville, Ark.	23	23	28	21	30	19
Bixby, Okla.	37	43	43	31	45	34
Stillwater, Okla.	32	35	38	30	40	27
Tishomingo, Okla.	22	25	33	23	26	22
Lubbock, Texas	36	40	41	33	47	33
Mean	31	31	39	28	40	28

Table 23: Lodging scores for the strains in Uniform Group VI, 1952

Location	Ogden	Hale Ogden 2	N46-1703	D49-2491	D49-2524	N48-886
			East Coast			
Warsaw, Va.	1.0	1.0	1.0	2.0	2.0	1.0
Petersburg, Va.	2.5	2.2	1.2	3.2	3.5	2.5
Holland, Va.	1.5	1.5	1.5	3.2	2.5	2.0
Plymouth, N. C.	3.2	3.2	3.0	2.2	2.2	3.5
Willard, N. C.	1.0	1.0	1.0	-	2.0	1.0
McCullers, N. C.	2.3	2.6	1.7	2.1	2.2	2.1
Hartsville, S. C.	1.0	1.0	1.0	1.0	1.0	1.0
			Southeast			
Tallassee, Ala.	1.0	1.3	1.0	1.7	1.7	1.3
Monticello, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Quincy, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Marianna, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Walnut Hill, 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
Baton Rouge, La.	1.0	1.0	1.0	2.0	2.0	1.0
			Upper and Central South			
Belle Mina, Ala.	2.0	2.3	1.0	3.0	3.0	2.3
Experiment, Ga.	1.0	1.0	1.0	1.0	2.0	1.0
			Delta			
Sikeston, Mo.	1.2	1.2	1.1	1.8	2.3	1.1
Clarkedale, Ark.	2.0	2.0	2.0	1.0	1.0	2.0
Marianna, Ark.	1.0	1.0	1.0	1.0	1.0	1.0
Stoneville, Miss. (A)	1.0	1.0	1.0	1.0	1.0	1.0
Stoneville, Miss. (B)	2.0	2.3	1.7	2.0	2.0	2.0
Louise, Miss.	1.0	1.0	1.0	1.0	1.0	1.0
St. Joseph, La.	1.0	1.0	1.0	2.0	2.0	1.0
			West			
Curtis, La.	2.0	2.0	1.0	2.0	2.0	2.0
Fayetteville, Ark.	1.0	1.0	1.0	1.0	1.0	1.0
Bixby, Okla.	1.3	1.0	1.3	1.0	1.3	1.0
Stillwater, Okla.	1.0	1.0	1.0	2.3	2.3	1.0
Tishomingo, Okla.	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

Table 23: (Continued)

Location	N48-1101	N48-1151	N48-1515	N48-1831	N48-2087	D49-854
			East Coast			
Warsaw, Va.	1.0	1.0	1.0	1.5	1.5	1.0
Petersburg, Va.	1.2	2.5	3.0	3.0	1.8	2.2
Holland, Va.	1.8	2.0	2.8	2.5	1.2	2.8
Plymouth, N. C.	3.2	3.0	4.0	3.2	3.0	3.7
Willard, N. C.	1.0	1.0	1.7	1.0	1.0	1.0
McCullers, N. C.	1.8	2.2	3.7	2.5	3.1	2.8
Hartsville, S. C.	1.0	1.0	1.0	1.0	1.0	1.0
			Southeast			
Tallassee, Ala.	1.0	1.0	1.0	1.0	2.0	2.0
Monticello, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Quincy, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Marianna, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Walnut Hill, 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
Baton Rouge, La.	2.0	1.0	2.0	2.0	1.0	2.0
			Upper and Central South			
Belle Mina, Ala.	1.7	2.3	3.0	1.7	2.3	2.3
Experiment, Ga.	1.0	1.0	1.0	1.0	2.0	1.0
			Delta			
Sikeston, Mo.	1.2	1.3	1.6	1.3	1.4	1.3
Clarkedale, Ark.	2.0	2.0	1.0	2.0	2.0	2.0
Marianna, Ark.	2.0	1.0	1.0	1.0	2.0	1.0
Stoneville, Miss. (A)	1.0	1.0	1.3	1.0	1.3	1.3
Stoneville, Miss. (B)	2.0	2.3	2.3	1.7	2.3	2.0
Louise, Miss.	1.0	1.3	1.0	1.0	2.0	1.0
St. Joseph, 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
Fayetteville, Ark.	1.0	1.0	1.0	1.0	1.0	1.0
Bixby, Okla.	1.3	1.0	1.5	1.5	1.0	1.0
Stillwater, Okla.	1.0	1.3	1.3	1.0	1.0	1.0
Tishomingo, Okla.	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

Table 24: Seed quality scores for the strains in Uniform Group VI, 1952

Location	Ogden	Hale Ogden 2	N46-1703	D49-2491	D49-2524	N48-886
		East Coast				
Warsaw, Va.	2.0	1.5	1.5	1.5	1.0	2.0
Accomac, Va.	2.0	2.0	2.0	2.0	2.0	2.0
Petersburg, Va.	1.0	1.0	1.8	1.0	1.0	1.2
Norfolk, Va.	2.0	2.0	2.0	2.0	2.0	2.0
Holland, Va.	2.8	2.8	5.0	1.0	1.2	2.5
Plymouth, N. C.	2.0	2.0	1.5	2.0	1.5	1.5
Willard, N. C.	2.5	2.5	2.0	-	1.5	2.0
McCullers, N. C.	1.5	1.5	1.5	1.0	1.0	1.5
		Southeast				
Tallassee, Ala.	2.0	2.0	2.0	1.0	1.0	2.0
Marianna, Fla.	2.0	2.0	2.0	1.0	1.0	2.0
Walnut Hill, Fla.	2.0	2.0	2.0	1.0	1.0	2.0
Baton Rouge, La.	1.0	1.0	2.0	1.0	1.0	2.0
		Delta				
Sikeston, Mo.	2.0	2.0	1.0	2.0	2.0	1.0
Clarkedale, Ark.	2.0	2.0	2.0	2.0	2.0	2.0
Marianna, Ark.	2.0	2.0	2.0	2.0	2.0	2.0
Stoneville, Miss. (A)	2.0	2.0	2.3	1.0	1.0	2.0
Stoneville, Miss. (B)	2.0	2.0	1.7	1.0	1.0	1.3
Louise, Miss.	2.0	2.0	2.0	1.0	1.0	2.0
St. Joseph, La.	2.0	1.0	1.0	1.0	1.0	2.0
		West				
Curtis, La.	1.0	2.0	1.0	1.0	1.0	1.0
Fayetteville, Ark.	2.0	2.0	2.0	2.0	2.0	2.0
Bixby, Okla.	4.3	3.8	3.3	5.0	5.0	3.0
Stillwater, Okla.	5.0	5.0	3.0	4.0	-	4.7
Tishomingo, Okla.	3.6	3.3	3.8	3.0	3.0	4.0
Lubbock, Texas	2.0	3.0	2.0	2.0	3.0	2.0

Table 24: (Continued)

Location	N48-1101	N48-1151	N48-1515	N48-1831	N48-2087	D49-854
		East Coast				
Warsaw, Va.	2.0	1.5	2.0	2.0	2.0	1.0
Accomac, Va.	2.0	2.0	2.0	2.0	2.0	2.0
Petersburg, Va.	1.5	1.2	2.0	1.0	1.2	1.5
Norfolk, Va.	2.0	2.0	2.0	2.0	2.0	2.0
Holland, Va.	3.2	2.2	1.2	2.2	3.8	1.2
Plymouth, N. C.	2.5	2.0	2.0	1.5	2.0	2.0
Willard, N. C.	2.5	2.5	2.0	2.0	2.0	2.0
McCullers, N. C.	1.5	1.5	1.5	1.5	1.5	1.5
		Southeast				
Tallassee, Ala.	2.0	2.0	1.0	2.0	2.0	1.0
Marianna, Fla.	3.0	2.0	2.0	2.0	2.0	2.0
Walnut Hill, Fla.	3.0	2.0	2.0	2.0	3.0	2.0
Baton Rouge, La.	1.0	1.0	1.0	1.0	2.0	1.0
		Delta				
Sikeston, Mo.	1.0	2.0	3.0	1.0	1.0	2.0
Clarkedale, Ark.	2.0	2.0	2.0	2.0	2.0	2.0
Marianna, Ark.	2.0	2.0	2.0	2.0	2.0	2.0
Stoneville, Miss. (A)	3.0	2.3	2.7	2.0	2.0	2.3
Stoneville, Miss. (B)	2.0	1.3	1.3	1.0	1.0	1.0
Louise, Miss.	2.7	3.0	3.0	2.0	2.3	2.0
St. Joseph, La.	3.0	2.0	1.0	2.0	2.0	1.0
		West				
Curtis, La.	2.0	2.0	1.0	1.0	2.0	1.0
Fayetteville, Ark.	3.0	3.0	3.0	2.0	2.0	3.0
Bixby, Okla.	3.0	2.8	-	2.2	2.5	5.0
Stillwater, Okla.	5.0	4.8	-	4.7	4.7	5.0
Tishomingo, Okla.	4.8	4.5	4.8	3.6	3.6	4.8
Lubbock, Texas	2.0	3.0	2.0	2.0	2.0	3.0

Table 25: Seed weight, in grams per 100 seeds, for the strains in Uniform Group VI, 1952

Location	Ogden	Hale Ogden 2	N46-1703	D49-2491	D49-2524	N48-886
		East Coast				
Warsaw, Va.	16.0	16.5	15.0	15.0	14.5	16.0
Petersburg, Va.	15.0	14.5	14.5	13.2	14.2	14.5
Holland, Va.	16.5	15.8	15.8	15.0	14.8	16.2
Plymouth, N. C.	12.6	13.2	13.2	12.4	12.3	12.4
Willard, N. C.	16.7	14.9	14.6	-	13.8	14.5
McCullers, N. C.	17.0	16.9	17.2	14.8	15.5	16.7
Hartsville, S. C.	15.7	16.0	14.0	12.7	14.0	14.3
Mean	15.6	17.9	14.9	13.9	14.2	14.9
		Southeast				
Tallassee, Ala.	17.9	16.7	19.2	14.6	18.2	18.2
Monticello, Fla.	17.9	19.3	17.9	15.9	17.8	17.6
Quincy, Fla.	16.2	16.0	17.1	15.9	15.5	15.9
Marianna, Fla.	14.5	14.1	13.2	11.9	12.6	14.3
Walnut Hill, Fla.	19.8	17.9	18.6	16.8	16.5	18.0
Mean	17.3	16.8	17.2	15.0	16.1	16.8
		Delta				
Sikeston, Mo.	13.7	14.5	14.3	8.8	8.9	14.0
Clarkedale, Ark.	13.5	13.0	13.0	10.5	11.5	13.0
Marianna, Ark.	15.0	15.0	15.0	13.0	13.0	15.5
Stoneville, Miss. (A)	13.5	13.7	12.0	11.0	12.1	12.1
Stoneville, Miss. (B)	15.8	14.8	15.7	13.0	13.9	15.4
Louise, Miss.	15.0	14.4	15.3	11.0	11.1	14.4
Mean	14.4	14.2	14.2	11.2	11.8	14.1
		West				
Fayetteville, Ark.	13.0	13.0	12.5	13.0	12.0	13.5
Bixby, Okla.	11.5	12.0	9.4	8.4	7.9	10.7
Stillwater, Okla.	10.9	10.8	10.1	7.5	-	11.7
Tishomingo, Okla.	13.2	13.4	14.0	8.3	8.3	12.9
Lubbock, Texas	19.0	15.4	20.0	19.1	15.5	21.1
Mean	13.5	12.9	13.2	11.3	10.9	14.0

Table 25: (Continued)

Location	N48-1101	N48-1151	N48-1515	N48-1831	N48-2087	D49-854
			East Coast			
Warsaw, Va.	17.5	17.0	17.0	15.5	15.0	16.5
Petersburg, Va.	16.5	16.5	16.8	13.5	15.2	16.2
Holland, Va.	17.8	17.2	18.5	15.5	16.8	18.2
Plymouth, N. C.	14.3	14.2	15.2	13.6	13.7	14.6
Willard, N. C.	17.4	15.8	15.9	15.4	15.3	16.0
McCullers, N. C.	18.0	18.7	18.0	17.1	15.9	18.2
Hartsville, S. C.	15.7	14.3	16.0	14.3	14.7	16.7
Mean	16.7	16.2	16.8	15.0	15.2	16.6
			Southeast			
Tallassee, Ala.	20.9	18.5	18.5	18.0	19.2	18.0
Monticello, Fla.	19.6	18.9	18.5	17.0	16.6	17.6
Quincy, Fla.	18.9	17.3	16.6	17.5	14.9	15.2
Marianna, Fla.	17.5	14.6	15.1	13.1	15.0	14.4
Walnut Hill, Fla.	18.9	19.2	20.5	18.5	17.3	18.3
Mean	19.2	17.7	17.8	16.8	16.6	16.7
			Delta			
Sikeston, Mo.	14.8	14.3	10.8	12.9	13.0	12.8
Clarkedale, Ark.	14.0	14.0	14.0	13.0	12.5	13.5
Marianna, Ark.	16.0	17.0	14.5	15.5	16.0	15.5
Stoneville, Miss. (A)	14.3	14.1	17.8	12.8	14.3	15.1
Stoneville, Miss. (B)	17.9	16.3	16.0	15.0	18.2	16.4
Louise, Miss.	15.8	14.9	12.7	13.8	14.2	13.7
Mean	15.5	15.1	14.3	13.8	14.7	14.5
			West			
Fayetteville, Ark.	14.5	14.0	12.0	13.0	13.0	14.5
Bixby, Okla.	12.8	13.5	-	10.3	11.8	11.9
Stillwater, Okla.	11.6	10.7	-	10.6	10.0	10.8
Tishomingo, Okla.	12.5	12.2	9.2	13.2	12.1	11.6
Lubbock, Texas	20.6	15.9	19.1	20.7	18.3	13.5
Mean	14.4	13.3	13.4	13.6	13.0	12.5

Table 26: Two-year summary of yield, in bushels per acre, for the strains in Uniform Group VI, 1951-52

Location	Ogden	Hale Ogden 2	N46-1703	D49-2524	N48-886
		East Coast			
Warsaw, Va.	27.5	28.1	26.2	28.0	28.8
Petersburg, Va.	31.8	30.4	29.4	30.8	31.8
Holland, Va.	34.6	37.7	35.2	36.5	36.5
Plymouth, N. C.	32.9	38.4	32.4	39.1	35.2
Willard, N. C.	38.3	38.3	37.4	41.2	37.8
McCullers, N. C.	32.2	32.2	30.1	34.4	31.4
Mean	32.9	34.2	31.8	35.0	33.6
		Southeast			
Tallassee, Ala.	23.5	35.1	23.1	37.8	30.0
Marianna, Fla.	21.8	22.7	23.4	23.2	24.2
Quincy, Fla.	30.2	30.2	29.0	38.6	32.4
Walnut Hill, Fla.	31.9	34.0	30.0	37.3	33.6
Fairhope, Ala.	31.0	37.0	26.2	22.4	32.2
Baton Rouge, La.	24.5	28.3	25.2	25.6	27.8
Mean	27.2	31.2	26.2	30.8	30.0
		Upper and Central South			
Experiment, Ga.	17.0	17.2	15.6	23.9	17.1
Belle Mina, Ala.	21.0	22.0	20.4	24.4	25.0
State College, Miss.	16.8	20.2	14.6	19.3	16.8
Mean	18.3	19.8	16.9	22.5	19.6
		Delta			
Sikeston, Mo.	24.7	24.2	21.2	19.2	22.3
Clarkedale, Ark.	14.5	14.6	13.8	15.0	13.8
Stoneville, Miss.	38.6	34.8	32.4	41.7	34.6
Louise, Miss.	27.4	28.9	29.5	33.3	28.6
St. Joseph, La.	49.4	45.8	48.1	39.0	47.8
Mean	30.9	29.7	29.0	29.6	29.4
		West			
Curtis, La.	35.8	33.2	29.2	42.4	29.0
Fayetteville, Ark.	15.3	18.8	17.2	20.7	15.6
Bixby, Okla.	16.3	17.2	15.4	17.2	17.6
Lubbock, Texas	16.6	14.9	16.9	16.4	20.4
Mean	21.0	21.0	19.7	24.2	20.7

Table 26: (Continued)

Location	N48-1101	N48-1151	N48-1515	N48-1831	N48-2087
		East Coast			
Warsaw, Va.	26.0	27.9	23.2	26.8	26.8
Petersburg, Va.	30.6	31.8	27.6	34.0	29.3
Holland, Va.	32.0	34.6	30.6	36.8	32.3
Plymouth, N. C.	33.0	34.3	31.6	36.1	33.2
Willard, N. C.	34.2	36.4	31.4	39.6	36.6
McCullers, N. C.	29.8	29.5	29.2	30.0	29.0
Mean	30.9	32.4	28.9	33.9	31.2
		Southeast			
Tallassee, Ala.	33.4	31.0	36.1	28.8	29.6
Marianna, Fla.	25.6	24.4	21.6	23.4	27.0
Quincy, Fla.	32.9	33.2	34.4	34.6	35.3
Walnut Hill, Fla.	32.3	31.3	31.5	34.9	30.0
Fairhope, Ala.	26.7	27.2	30.8	29.8	24.8
Baton Rouge, La.	22.8	21.6	26.2	26.7	25.6
Mean	29.0	28.1	30.1	29.7	28.7
		Upper and Central South			
Experiment, Ga.	17.0	18.9	20.4	16.5	19.6
Belle Mina, Ala.	22.8	21.4	25.0	22.6	21.2
State College, Miss.	17.4	16.9	17.8	16.3	16.8
Mean	19.1	19.1	21.1	18.5	19.2
		Delta			
Sikeston, Mo.	22.2	19.4	15.8	21.2	19.2
Clarkedale, Ark.	14.5	14.2	13.0	14.4	13.6
Stoneville, Miss.	32.0	37.6	36.8	35.8	33.5
Louise, Miss.	28.7	30.0	25.8	26.6	27.6
St. Joseph, La.	36.8	43.8	42.6	45.4	41.0
Mean	26.8	29.0	26.8	28.7	27.0
		West			
Curtis, La.	31.6	28.4	35.4	37.5	31.2
Fayetteville, Ark.	18.4	17.7	13.9	17.6	15.8
Bixby, Okla.	15.1	14.8	-	17.2	15.2
Lubbock, Texas	20.0	18.0	16.7	20.1	17.0
Mean	21.3	19.7	22.0	23.1	19.8

Table 27: Two-year summary of the oil percentage for strains in Uniform Group VI, 1951-52

Location	Ogden	Hale Ogden 2	N46-1703	D49-2524	N48-886	N48-1101	N48-1151	N48-1515	N48-1831	N48-2087
Warsaw, Va.[1]	20.2	20.6	20.6	20.2	20.8	21.4	21.5	20.7	20.7	21.2
Plymouth, N. C.	20.0	20.2	19.9	19.9	20.3	21.0	20.4	20.3	20.1	20.3
McCullers, N. C.	20.2	20.4	20.0	20.3	20.3	21.0	20.6	21.1	19.5	19.8
Walnut Hill, Fla.	22.2	22.6	22.0	22.5	22.6	22.4	22.2	23.2	23.0	22.0
Baton Rouge, La.	22.2	22.6	22.3	23.2	22.6	22.9	23.2	24.2	23.4	22.9
Sikeston, Mo.[2]	21.4	21.8	21.7	21.6	22.2	22.4	22.0	21.7	22.8	22.9
Stoneville, Miss.	21.4	21.5	21.8	21.5	21.6	22.0	22.3	22.0	22.2	21.4
Curtis, La.[3]	20.8	20.9	21.3	21.3	21.4	21.9	21.7	22.1	21.6	21.6
Mean	21.1	21.3	21.2	21.3	21.5	21.9	21.7	21.9	21.7	21.5

1/ Mean of Petersburg and Warsaw.

2/ Mean of Sikeston, Mo., and Clarkedale, Ark.

3/ Mean of Stuttgart, Ark., and Curtis, La.

Table 28: Three-year summary of yield, in bushels per acre for the strains in Uniform Group VI, 1950-52

Location	Ogden	Hale Ogden 2	N46-1703
	East Coast		
Warsaw, Va.	28.0	28.2	26.6
Petersburg, Va.	36.2	33.9	34.7
Holland, Va.	36.4	38.5	35.3
Plymouth, N. C.	36.2	38.6	35.5
Willard, N. C.	41.4	41.9	39.6
McCullers, N. C.	34.4	35.1	31.8
Mean	35.4	36.0	33.9
	Southeast		
Tallassee, Ala.	25.7	34.8	27.3
Marianna, Fla.	24.8	25.9	24.4
Walnut Hill, Fla.	37.4	35.0	33.0
Fairhope, Ala.	27.4	34.3	23.2
Baton Rouge, La.	26.1	28.9	26.7
Mean	28.3	31.8	26.9
	Upper and Central South		
Experiment, Ga.	24.1	26.8	21.2
State College, Miss.	21.2	23.5	19.3
Mean	22.6	25.2	20.2
	Delta		
Sikeston, Mo.	29.1	28.4	25.8
Clarkedale, Ark.	16.5	16.4	15.8
Stoneville, Miss.	44.4	41.1	40.6
Louise, Miss.	32.6	33.8	33.2
St. Joseph, La.	44.4	40.2	41.1
Mean	33.4	32.0	31.3
	West		
Curtis, La.	37.2	34.3	31.5
Fayetteville, Ark.	22.2	25.4	24.1
Bixby, Okla.	28.8	26.2	24.0
Lubbock, Texas	20.2	19.9	20.1
Mean	27.1	26.4	24.9

Table 29: Three-year summary of the oil percentage for the strains in Uniform Group VI, 1950-52

Location	Ogden	Hale Ogden 2	N46-1703
Warsaw, Va.[1/]	20.2	20.7	20.6
Plymouth, N. C.	20.1	20.2	20.1
McCullers, N. C.	20.4	20.7	20.0
Walnut, Hill, Fla.	22.0	22.5	22.0
Baton Rouge, La.	22.3	22.8	22.4
Sikeston, Mo.	20.6	20.9	21.0
Stoneville, Miss.	21.5	21.3	21.4
Curtis, La.[2/]	20.6	20.8	21.1
Mean	21.0	21.2	21.1

1/ 1950 and 1951 data are for Petersburg, Va.

2/ 1950 and 1951 data are for Stuttgart, Ark.

Table 30: Four-year summary of yield, in bushels per acre, and oil percentage for the strains in Uniform Group VI, 1949-52

Location	Ogden	Hale Ogden 2
	YIELD	
	East Coast	
Petersburg, Va.	37.4	38.3
Holland, Va.	38.9	38.0
Plymouth, N. C.	36.1	37.5
Willard, N. C.	41.7	41.8
McCullers, N. C.	33.3	34.4
Mean	37.5	38.0
	Southeast	
Tallassee, Ala.	26.1	33.8
Fairhope, Ala.	26.8	33.8
Baton Rouge, La.	28.8	30.7
Mean	27.2	32.8
	Upper and Central South	
Experiment, Ga.	28.9	30.8
State College, Miss.	22.9	26.2
Mean	25.9	28.5
	Delta	
Sikeston, Mo.	28.6	28.9
Clarkedale, Ark.	16.5	17.3
Stoneville, Miss.	43.1	40.7
St. Joseph, La.	45.0	41.3
Curtis, La.	32.6	30.8
Mean	33.2	31.8
	OIL PERCENTAGE	
Petersburg, Va. 1/	20.2	20.7
Plymouth, N. C.	19.7	20.0
McCullers, N. C.	20.4	20.7
Walnut Hill, Fla.	21.8	22.3
Baton Rouge, La.	22.2	22.7
Sikeston, Mo.	20.7	20.8
Stoneville, Miss.	21.3	21.2
Stuttgart, Ark. 2/	20.8	21.1
Mean	20.9	21.2

1/ 1952 data from Warsaw, Va.

2/ 1952 data from Curtis, La.

UNIFORM GROUP VII, 1952

Strain or Variety	Source or Originating Agency	Origin
Roanoke	N. Car. A.E.S. & U.S.R.S.L.	Sel. from mixed seed lot
Dortchsoy 31	Robert L. Dortch Seed Co., Scott, Arkansas	Sel. from Ogden
N46-2872	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate/Volstate x Palmetto
N46-2881	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Vol./Vol. x Palmetto
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
N48-1574	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x N45-745 1/
N48-1867	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x N45-745
D49-533	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x N45-745
D49-588	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x N45-745
D49-772	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from Roanoke x N45-745
D49-2524	Delta Br. A.E.S. & U.S.R.S.L.	Sel. from S-100 x CNS

1/ N45-745 is a pustule-resistant selection from Ogden x CNS

Thirty-six Group VII nurseries were planted. Results from 27 nurseries are reported in tables 31 through 41. Early frosts and drouth reduced yields at several of the locations. Because of these factors, the earlier-maturing strains tended to show a yield advantage. Low yields were reported from Norfolk, Virginia, because of failure to control corn ear worm feeding on the pods.

The yields for Ogden and Roanoke are very similar in all production areas, as shown by the three-year averages. The Group VII strains, in general, are taller growing and, consequently, will have more lodging in the East Coast and Delta areas than will the Group VI strains. However, the added height of Group VII material is an advantage in the Southeast, where all strains tend to be shorter than in the more northern areas.

In addition to Roanoke, the only other variety in commercial production is Dortchsoy 31. The three-year average yields for Roanoke and Dortchsoy 31 have been nearly similar in all production areas, except the Delta where Dortchsoy 31 is definitely lower yielding. The lower yield in the Delta area can be attributed largely to its high susceptibility to the leaf disease target spot, Corynespora cassiicola. The oil content of Dortchsoy 31 averages 1.1 per cent below that of Roanoke. Both varieties hold their seed very well. Dortchsoy 31 is rather short to be adapted for most production conditions in the Southeast.

The strain N47-3479 was approved for release at the 1951 planning conference. During the past season, approximately 600 bushels of pure seed

were produced in Virginia, North Carolina, South Carolina, Georgia, Alabama, Florida, and Louisiana. N47-3479 averages 4 to 6 inches taller than Roanoke and stands better. The added height is a definite advantage in the Southeast. N47-3479 has yielded well in all production areas. Its oil content averages slightly below that of Roanoke.

The strains N48-2872 and N48-2281 have been evaluated on a regional basis for four years. N48-2872 is more subject to lodging and has lower oil content than N47-3479. N48-2881 does not differ appreciably from its subline N47-3479.

N47-309 has yielded very well in the Southeast over the three-year period, but has yielded somewhat less than Roanoke in other production areas. Its oil content averages .8 per cent below Roanoke. N47-309 is resistant to bacterial pustule, but is highly susceptible to target spot.

Two strains, N48-1574 and N48-1867, have been grown for two years. Both have yielded very well and have good oil content, although slightly lower than Roanoke. N48-1867 has yielded very well in the eastern area. Perhaps the high yield in this area is partially the result of its excellent standing ability.

Three new strains, D49-533, D49-588, D49-772, all resistant to bacterial pustule and target spot, were grown for the first year. D49-772 had the best yield performance in all areas, but averaged 1.0 per cent lower than Roanoke in oil content.

D49-2524, of Group VI maturity, was included because of its excellent showing in Group VI last year. Seasonal conditions may have favored earlier maturity this past season, but D49-2524 yielded significantly more than Roanoke in 5 of the 9 East Coast tests. In the Southeast it did not compare quite as favorably. D49-2524 averages .7 per cent below Roanoke in oil content.

Table 31: Yield, in bushels per acre, for the strains in Uniform Group VII, 1952

Location	Roanoke	Dortchsoy 31	N46-2872	N46-2881	N47-3479	N47-309	N48-1574
			East Coast				
Accomac, Va.	26.4	27.0	29.0	26.9	25.2	29.0	29.7
Petersburg, Va.	30.4	27.5	27.1	32.2	29.3	24.9-	24.9-
Norfolk, Va.	11.5	16.6+	14.4	21.1+	21.9+	11.8	20.2+
Holland, Va.	20.9	21.3	24.3	27.7+	22.6	24.4	23.9
Plymouth, N. C.	30.8	32.1	34.7	32.8	34.8	30.9	34.0
Willard, N. C.	25.8	33.9	30.8	26.6	31.4	31.9	31.6
McCullers, N. C.	35.8	36.9	36.8	34.3	32.6	40.6+	34.3
Florence, S. C.	27.0	33.1+	31.2	30.3	28.6	28.6	33.9+
Hartsville, S. C. 1/	11.6	10.6	10.5	9.9	12.9	9.1	8.7
Mean	26.1	28.6	28.5	29.0	28.3	27.8	29.1
			Southeast				
Charleston, S. C.	13.8	17.8	21.0+	20.6+	25.1+	18.8+	19.2+
Tallassee, Ala.	46.1	36.8-	40.2	47.5	45.1	40.4	44.1
Tifton, Ga.	15.0	14.2	14.4	13.2	15.2	15.3	13.3
Gainesville, Fla.	43.0	26.0	38.8	35.2	41.0	37.6	38.6
Monticello, Fla.	38.7	31.8-	40.6	37.0	41.2	41.5	34.6
Quincy, Fla.	34.8	31.3	37.0	32.8	33.8	32.0	30.8
Marianna, Fla.	36.3	31.9-	34.9	34.2	38.0	33.8	34.6
Walnut Hill, Fla.	36.3	40.8+	37.7	38.9	35.6	37.5	35.8
Fairhope, Ala.	21.6	19.6	20.6	21.4	21.3	19.6	21.1
Baton Rouge, La.	31.6	33.7	39.7+	38.4+	43.8+	39.7+	33.2
Mean	31.7	28.4	32.5	31.9	34.0	31.5	30.5
			Upper and Central South				
Clemson, S. C.	26.6	25.8	27.0	25.4	24.2	22.9	26.6
Experiment, Ga.	29.2	24.5	31.3	30.4	28.2	22.5	28.4
State College, Miss.	23.2	23.8	23.4	20.6	22.2	21.1	22.1
Mean	26.3	24.7	27.2	25.5	24.9	22.2	25.7
			Delta				
Stoneville, Miss.	15.9	16.6	10.0	18.7	17.1	13.2	15.1
Louise, Miss.	16.5	19.8	16.6	14.4	18.0	16.2	17.6
St. Joseph, La.	51.6	45.3	44.5	42.7	46.2	45.0	49.3
Mean	28.0	27.2	23.7	25.3	27.1	24.8	27.3
			West				
Curtis, La.	21.3	19.2	18.9	16.1	19.5	20.5	22.8
Lubbock, Texas	13.9	17.8+	11.8	16.7+	14.2	14.6	14.2

1/Not included in the mean.

Table 31: (Continued)

Location	N48-1867	D49-533	D49-588	D49-772	D49-2524	L.S.D. (5%)	C.V.
			East Coast				
Accomac, Va.	30.4	27.1	28.9	29.8	27.5	N.S.	12%
Petersburg, Va.	32.2	27.5	23.4-	32.6	36.6+	4.8	12%
Norfolk, Va.	22.8+	15.4+	18.7+	18.4+	11.8	3.4	20%
Holland, Va.	27.1+	27.8+	24.3	28.5+	29.1+	4.2	12%
Plymouth, N. C.	40.6+	31.1	36.9+	34.3	39.8+	4.8	10%
Willard, N. C.	31.4	-	-	-	34.6	N.S.	12%
McCullers, N. C.	39.0	33.7	35.8	39.0	41.1+	3.9	7%
Florence, S. C.	35.3+	24.3	27.3	32.3+	35.1+	4.4	10%
Hartsville, S. C.1/	10.4	9.0	9.4	12.1	11.3	N.S.	27%
Mean	32.4	26.7	27.9	30.7	32.0		
			Southeast				
Charleston, S. C.	22.2+	23.2+	23.8+	18.7+	11.2	4.8	14%
Tallassee, Ala.	40.9	38.6-	35.6-	43.8	32.7-	6.5	9%
Tifton, Ga.	14.7	11.9	17.2	15.1	20.9	3.5	14%
Gainesville, Fla.	37.6	35.4	31.0	40.0	35.2	N.S.	18%
Monticello, Fla.	33.0-	31.8-	33.3-	33.7-	37.8	4.7	8%
Quincy, Fla.	32.1	28.8	31.8	32.3	33.3	N.S.	8%
Marianna, Fla.	34.4	29.1-	34.2	37.0	38.0	4.0	7%
Walnut Hill, Fla.	38.0	33.4	35.6	35.3	41.3+	3.9	6%
Fairhope, Ala.	20.1	20.0	20.9	21.4	18.3	N.S.	13%
Baton Rouge, La.	34.4	38.1+	37.6+	36.8+	34.0	4.3	13%
Mean	30.7	29.0	30.1	31.4	30.3		
			Upper and Central South				
Clemson, S. C.	26.1	24.6	27.7	31.9+	28.5	4.1	9%
Experiment, Ga.	30.3	24.8	31.9	27.1	29.3	N.S.	14%
State College, Miss.	18.9	16.5-	20.1	20.4	30.5+	5.8	18%
Mean	25.1	22.0	26.6	26.5	29.4		
			Delta				
Stoneville, Miss.	13.8	11.3	14.1	16.6	26.9+	7.9	25%
Louise, Miss.	10.7-	18.7	16.4	16.7	24.5+	4.1	13%
St. Joseph, La.	47.6	41.0	45.0	47.3	45.6	N.S.	10%
Mean	24.0	23.7	25.2	26.9	32.3		
			West				
Curtis, La.	21.8	26.5	27.5	17.4	30.1	N.S.	32%
Lubbock, Texas	15.2	15.0	8.2-	9.7-	15.3	2.1	10%

Table 32: Chemical composition of the strains in Uniform Group VII, 1952

Location	Roanoke	Dortch-soy 31	N46-2872	N46-2881	N47-3479	N47-309
			Oil Percentage			
Petersburg, Va.	20.3	20.0	18.4	20.8	21.0	19.4
McCullers, N. C.	20.9	19.7	19.4	20.3	20.2	20.0
Florence, S. C.	22.1	20.9	20.8	22.0	21.5	20.6
Quincy, Fla.	22.7	21.8	22.5	23.3	22.3	20.7
Walnut Hill, Fla.	23.6	21.8	22.7	22.7	22.2	21.5
Fairhope, Ala.	22.3	21.7	22.2	22.3	22.5	22.7
Baton Rouge, La.	23.4	22.4	23.2	23.0	22.8	23.5
Clemson, S. C.	22.8	21.8	22.6	22.2	21.6	22.6
Stoneville, Miss.	20.6	19.8	20.2	20.5	21.1	20.1
Curtis, La.	22.9	21.9	21.8	22.8	22.3	22.4
Mean	22.2	21.2	21.4	22.0	21.8	21.4
			Protein Percentage			
Petersburg, Va.	40.7	42.0	41.4	40.6	39.8	41.6
McCullers, N. C.	40.4	42.3	41.4	40.8	39.9	40.0
Florence, S. C.	37.4	38.4	38.3	37.4	38.3	38.7
Quincy, Fla.	40.5	41.9	41.0	40.9	40.6	42.2
Walnut Hill, Fla.	39.5	41.1	40.4	40.2	40.1	40.1
Fairhope, Ala.	40.1	41.9	40.8	40.9	40.9	42.4
Baton Rouge, La.	38.9	38.3	37.4	37.8	38.5	36.8
Clemson, S. C.	37.6	38.1	37.5	39.1	39.5	37.3
Stoneville, Miss.	39.2	41.5	38.4	39.8	40.5	42.1
Curtis, La.	38.0	39.9	38.7	38.3	37.9	39.3
Mean	39.2	40.5	39.5	39.6	39.6	40.1
			Iodine No. of Oil			
Petersburg, Va.	135.7	139.1	135.1	138.6	137.2	137.7
McCullers, N. C.	137.7	140.2	137.2	140.5	139.9	139.4
Florence, S. C.	138.3	140.8	137.2	141.1	141.4	139.7
Quincy, Fla.	132.6	134.5	130.0	132.6	134.0	134.7
Walnut Hill, Fla.	134.0	138.8	133.4	133.7	138.0	134.7
Fairhope, Ala.	137.2	139.4	137.7	137.7	137.7	136.3
Baton Rouge, La.	135.1	136.6	133.2	135.4	136.3	136.0
Clemson, S. C.	133.4	136.6	132.6	134.7	134.3	134.3
Stoneville, Miss.	131.7	133.2	130.3	133.4	133.2	130.9
Curtis, La.	134.5	135.7	130.3	132.6	134.5	132.9
Mean	135.0	137.5	133.7	136.0	136.7	135.7

Table 32: (Continued)

Location	N48-1574	N48-1867	D49-533	D49-588	D49-772	D49-2524
			Oil Percentage			
Petersburg, Va.	19.8	19.8	20.0	19.3	18.7	20.3
McCullers, N. C.	20.1	20.2	20.1	19.4	19.2	20.2
Florence, S. C.	21.1	21.2	21.8	21.1	20.7	21.0
Quincy, Fla.	22.6	22.3	22.4	21.6	21.8	22.0
Walnut Hill, Fla.	22.9	21.8	22.6	23.0	23.1	22.4
Fairhope, Ala.	22.5	23.2	23.2	21.7	22.2	21.8
Baton Rouge, La.	23.5	23.5	23.8	23.2	23.0	22.9
Clemson, S. C.	23.0	22.4	22.4	23.1	21.5	21.4
Stoneville, Miss.	20.3	20.1	20.1	20.6	18.6	20.3
Curtis, La.	22.4	21.9	22.4	21.8	21.8	23.1
Mean	21.8	21.6	21.9	21.5	21.1	21.5
			Protein Percentage			
Petersburg, Va.	41.9	42.9	42.8	43.2	42.3	43.8
McCullers, N. C.	41.8	39.7	40.9	42.2	41.4	42.9
Florence, S. C.	39.1	39.4	39.1	41.3	40.4	40.4
Quincy, Fla.	41.6	42.8	39.4	41.6	41.6	42.1
Walnut Hill, Fla.	39.4	39.3	38.0	40.2	39.1	41.5
Fairhope, Ala.	41.8	42.0	42.6	40.4	40.5	42.0
Baton Rouge, La.	37.9	37.3	37.1	38.9	36.9	38.1
Clemson, S. C.	37.0	38.1	37.3	38.3	38.9	38.2
Stoneville, Miss.	42.7	40.7	41.7	42.6	40.8	42.4
Curtis, La.	39.0	39.3	40.3	39.9	40.1	40.5
Mean	40.2	40.2	39.9	40.9	40.2	41.2
			Iodine No. of Oil			
Petersburg, Va.	139.9	135.4	137.2	141.6	137.4	137.2
McCullers, N. C.	139.4	136.6	137.2	138.8	136.6	136.3
Florence, S. C.	140.8	138.0	136.9	137.7	136.0	134.5
Quincy, Fla.	134.5	130.6	131.5	135.1	130.6	127.5
Walnut Hill, Fla.	133.4	132.6	131.2	131.5	130.3	128.0
Fairhope, Ala.	136.9	132.9	135.1	135.7	132.9	132.3
Baton Rouge, La.	135.1	132.9	131.5	134.3	131.2	133.4
Clemson, S. C.	135.7	132.9	132.9	136.0	132.9	134.3
Stoneville, Miss.	131.5	129.2	128.3	130.9	129.6	132.1
Curtis, La.	132.6	130.0	128.6	131.7	131.5	130.3
Mean	136.0	133.1	133.0	135.4	132.9	132.6

Table 33: Relative maturity data, days earlier (-) or later (+) than Roanoke for the strains in Uniform Group VII, 1952

Location	Date Planted	Roanoke Matured	Dortch. 31	N46-2872	N46-2881	N47-3479
		East Coast				
Petersburg, Va.	5-9	11-4	+1	+1	+2	0
Holland, Va.	5-15	10-12	-1	+2	0	+1
Plymouth, N. C.	5-6	10-25	0	+1	+2	+2
Willard, N. C.	6-25	10-28	+1	+2	+4	+4
McCullers, N. C.	5-16	10-26	+1	0	0	+1
Florence, S. C.	5-14	10-25	+1	0	0	0
Hartsville, S. C.	5-19	10-26	0	0	0	0
Mean			0	+1	+1	+1
		Southeast				
Tallassee, Ala.	5-21	10-27	-4	+3	+1	+1
Tifton, Ga.	6-2	10-17	0	0	0	0
Monticello, Fla.	7-10	10-31	-2	-4	0	0
Quincy, Fla.	6-16	10-15	0	0	0	0
Marianna, Fla.	5-27	10-18	-6	+2	+2	-2
Walnut Hill, Fla.	6-13	10-21	-5	-5	+1	+3
Fairhope, Ala.	5-28	10-30	-7	-7	0	0
Baton Rouge, La.	6-6	10-25	0	-5	0	+2
Mean			-3	-2	+1	+1
		Upper and Central South				
Clemson, S. C.	5-8	10-20	-5	-1	-2	-1
Experiment, Ga.	5-13	10-27	-5	-2	+5	+4
State College, Miss.	5-9	10-30	-7	+1	+1	+1
Mean			-6	-1	+1	+1
		Delta				
Stoneville, Miss.	5-5	10-25	0	0	0	0
Louise, Miss.	5-8	10-25	0	0	0	0
St. Joseph, La.	6-2	10-20	-4	0	+4	0
Mean			-1	0	+1	0
		West				
Curtis, La.	5-13	F	F	F	F	F
Tishomingo, Okla.	6-7	F	F	F	F	F
Lubbock, Texas	6-23	F	F	F	F	F

Table 33: (Continued)

Location	N47-309	N48-1574	N48-1867	D49-533	D49-588	D49-772	D49-2524
			East Coast				
Petersburg, Va.	-6	-5	-2	-7	-1	0	-9
Holland, Va.	0	0	-2	+3	+1	+2	-6
Plymouth, N. C.	-2	0	0	-1	+1	+1	-5
Willard, N. C.	+1	+1	0	-	-	-	-6
McCullers, N. C.	-1	0	0	-4	+1	0	-5
Florence, S. C.	0	-3	-3	-2	0	0	-7
Hartsville, S. C.	-5	0	-5	-6	0	0	-6
Mean	-1	-1	-2	-3	0	0	-6
			Southeast				
Tallassee, Ala.	-2	-1	-3	-2	-2	-2	-5
Tifton, Ga.	0	0	0	-2	0	0	-5
Monticello, Fla.	-7	-7	-8	-7	-8	-8	-2
Quincy, Fla.	-3	0	0	-3	0	0	-2
Marianna, Fla.	-2	-2	-6	-2	-2	-2	-4
Walnut Hill, Fla.	-3	0	-4	-2	-5	-6	-10
Fairhope, Ala.	-7	0	-7	-7	-7	-7	-7
Baton Rouge, La.	-9	-9	-9	-10	-12	-9	-11
Mean	-5	-3	-4	-5	-5	-5	-9
			Upper and Central South				
Clemson, S. C.	-5	-4	-5	-6	-1	-3	-6
Experiment, Ga.	-5	-2	+3	-2	-3	+5	-3
State College, Miss.	-6	-2	-2	0	0	+1	-7
Mean	-5	-3	-1	-3	-1	+1	-5
			Delta				
Stoneville, Miss.	0	0	0	0	0	0	-7
Louise, Miss.	0	0	-2	0	0	0	-9
St. Joseph, La.	+2	+3	0	-5	-2	-4	-6
Mean	+1	+1	-1	-2	-1	-1	-7
			West				
Curtis, La.	F	F	F	F	F	F	F
Tishomingo, Okla.	F	F	F	F	F	F	F
Lubbock, Texas	F	F	F	F	F	F	F

Table 34: Height data for the strains in Uniform Group VII, 1952

Location	Roanoke	Dortch. 31	N46-2872	N46-2881	N47-3479	N47-309
		East Coast				
Accomac, Va.	37	27	43	42	46	34
Petersburg, Va.	52	38	57	51	50	40
Norfolk, Va.	59	48	60	59	57	47
Holland, Va.	48	38	53	50	49	36
Plymouth, N. C.	37	33	38	38	37	29
Willard, N. C.1/	29	31	33	35	34	25
McCullers, N. C.	50	41	51	51	51	39
Florence, S. C.	42	31	55	49	49	33
Hartsville, S. C.	34	26	46	40	44	31
Mean	45	35	50	48	48	36
		Southeast				
Charleston, S. C.	31	25	37	39	40	27
Tallassee, Ala.	37	28	52	41	43	29
Tifton, Ga.	25	21	25	27	26	23
Gainesville, Fla.	24	16	32	29	29	21
Monticello, Fla.	24	17	30	30	32	20
Quincy, Fla.	24	15	28	30	28	21
Marianna, Fla.	31	21	38	30	29	25
Walnut Hill, Fla.	41	38	39	42	40	37
Fairhope, Ala.	28	20	33	32	33	22
Baton Rouge, La.	36	24	38	37	36	28
Mean	30	22	35	34	34	25
		Upper and Central South				
Clemson, S. C.	37	28	50	41	42	30
Experiment, Ga.	35	29	40	37	36	28
Mean	36	28	45	39	39	29
		Delta				
Stoneville, Miss.	48	33	53	50	46	33
Louise, Miss.	42	30	49	47	41	34
St. Joseph, La.	34	32	38	39	38	33
Mean	41	32	47	45	42	33
		West				
Curtis, La.	38	32	30	38	40	25
Tishomingo, Okla.	28	18	29	26	28	25
Lubbock, Texas	40	31	42	44	38	32
Mean	35	27	34	36	35	27

1/Not included in the mean.

Table 34: (Continued)

Location	N48-1574	N48-1867	D49-533	D49-588	D49-772	D49-2524
			East Coast			
Accomac, Va.	36	32	37	38	40	25
Petersburg, Va.	48	44	51	54	52	33
Norfolk, Va.	59	61	56	59	63	43
Holland, Va.	46	43	46	50	46	37
Plymouth, N. C.	37	37	39	38	39	32
Willard, N. C.1/	33	31	-	-	-	27
McCullers, N. C.	52	47	54	53	52	36
Florence, S. C.	41	38	46	53	45	34
Hartsville, S. C.	33	33	38	38	42	28
Mean	44	42	46	48	47	34
			Southeast			
Charleston, S. C.	33	32	37	39	34	33
Tallassee, Ala.	41	33	45	51	41	25
Tifton, Ga.	22	24	22	30	23	21
Gainesville, Fla.	25	26	26	29	27	19
Monticello, Fla.	28	24	26	36	30	23
Quincy, Fla.	25	21	28	30	29	20
Marianna, Fla.	32	28	30	39	29	26
Walnut Hill, Fla.	41	39	40	39	40	41
Fairhope, Ala.	26	24	25	35	36	18
Baton Rouge, La.	36	28	35	40	36	26
Mean	31	28	31	37	33	25
			Upper and Central South			
Clemson, S. C.	39	31	43	46	40	26
Experiment, Ga.	32	33	30	36	40	30
Mean	36	32	36	41	40	28
			Delta			
Stoneville, Miss.	49	46	53	60	48	36
Louise, Miss.	44	46	46	42	41	25
St. Joseph, La.	35	27	36	44	44	32
Mean	43	40	45	49	44	31
			West			
Curtis, Okla.	38	28	46	44	38	26
Tishomingo, Okla.	25	24	27	29	27	22
Lubbock, Texas	40	32	42	44	35	34
Mean	34	28	38	39	33	27

Table 35: Lodging scores for the strains in Uniform Group VII, 1952

Location	Roanoke	Dortch. 31	N46-2872	N46-2881	N47-3479	N47-309
		East Coast				
Petersburg, Va.	3.8	2.5	3.8	2.5	2.2	4.5
Holland, Va.	3.5	1.5	4.5	2.5	1.8	4.0
Plymouth, N. C.	4.2	4.0	5.0	4.0	3.7	4.5
Willard, N. C.	2.2	1.5	2.2	2.0	2.0	3.0
McCullers, N. C.	3.7	2.7	5.0	3.2	3.7	3.5
Florence, S. C.	2.3	1.5	3.0	2.3	1.6	2.5
Hartsville, S. C.	1.0	1.0	1.0	1.0	1.0	1.0
		Southeast				
Charleston, S. C.	3.0	2.0	3.0	3.0	3.0	4.0
Tallassee, Ala.	1.7	1.0	4.0	1.3	1.7	2.3
Tifton, Ga.	1.0	1.0	1.0	1.0	1.0	1.0
Gainesville, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Monticello, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Quincy, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Marianna, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Walnut Hill, 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
Baton Rouge, La.	2.0	1.0	3.0	2.0	2.0	2.0
		Upper and Central South				
Clemson, S. C.	2.0	1.0	3.0	1.0	1.0	2.0
Experiment, Ga.	1.0	1.0	2.0	1.0	1.0	1.0
		Delta				
Stoneville, Miss.	2.7	1.7	2.3	2.0	1.7	1.7
Louise, Miss.	1.0	1.3	1.7	1.0	1.0	1.0
St. Joseph, La.	2.0	1.0	3.0	1.0	1.0	3.0
		West				
Curtis, La.	3.0	2.0	3.0	2.0	2.0	2.0
Tishomingo, Okla.	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

Table 35: (Continued)

Location	N48-1574	N48-1867	D49-533	D49-588	D49-772	D49-2524
			East Coast			
Petersburg, Va.	1.8	1.8	2.5	2.8	2.5	2.2
Holland, Va.	1.5	2.0	1.2	1.8	2.8	2.0
Plymouth, N. C.	3.7	3.2	3.2	4.2	4.0	2.2
Willard, N. C.	2.2	2.0	-	-	-	2.2
McCullers, N. C.	3.2	3.2	3.2	4.2	4.2	2.0
Florence, S. C.	2.0	1.6	2.5	2.8	2.4	2.0
Hartsville, S. C.	1.0	1.0	1.0	1.0	1.0	1.0
			Southeast			
Charleston, S. C.	2.0	3.0	4.0	3.0	3.0	3.0
Tallassee, Ala.	1.3	1.7	2.0	4.0	2.0	1.3
Tifton, Ga.	1.0	1.0	1.0	1.0	1.0	1.0
Gainesville, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Monticello, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Quincy, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Marianna, Fla.	1.0	1.0	1.0	1.0	1.0	1.0
Walnut Hill, 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
Baton Rouge, La.	2.0	2.0	2.0	3.0	2.0	2.0
			Upper and Central South			
Clemson, S. C.	2.0	1.0	2.0	2.0	3.0	1.0
Experiment, Ga.	1.0	1.0	2.0	1.0	2.0	2.0
			Delta			
Stoneville, Miss.	2.0	2.0	2.0	2.3	2.3	2.0
Louise, Miss.	1.0	1.0	1.3	1.0	1.0	1.0
St. Joseph, La.	2.0	2.0	1.0	1.0	2.0	3.0
			West			
Curtis, La.	3.0	2.0	2.0	3.0	3.0	2.0
Tishomingo, Okla.	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

Table 36: Seed quality scores for the strains in Uniform Group VII, 1952

Location	Roanoke	Dortch. 31	N46-2872	N46-2881	N47-3479	N47-309
		East Coast				
Accomac, Va.	2.0	2.0	2.0	2.0	2.0	2.0
Petersburg, Va.	1.0	1.8	1.0	1.2	1.0	1.2
Norfolk, Va.	2.0	2.0	2.0	2.0	2.0	2.0
Holland, Va.	1.3	2.2	1.0	1.5	1.5	1.3
Plymouth, N. C.	1.5	1.5	1.5	1.5	1.5	2.0
Willard, N. C.	1.0	2.0	1.5	1.5	1.5	1.5
McCullers, N. C.	1.0	1.0	1.5	1.5	1.0	1.5
Florence, S. C.	1.5	1.5	1.5	1.5	1.5	2.0
		Southeast				
Charleston, S. C.	2.0	3.0	2.0	3.0	3.0	2.0
Tallassee, Ala.	1.0	1.0	1.0	1.0	1.0	1.0
Tifton, Ga.	2.0	1.0	2.0	1.0	1.0	2.0
Gainesville, Fla.	2.7	4.7	2.7	3.0	3.0	2.0
Marianna, Fla.	1.0	2.0	1.0	1.0	1.0	2.0
Walnut Hill, Fla.	1.0	2.0	2.0	2.0	2.0	1.0
Baton Rouge, La.	1.0	1.0	1.0	1.0	1.0	1.0
		Upper and Central South				
Clemson, S. C.	1.0	1.0	2.0	2.5	2.0	1.5
		Delta				
Stoneville, Miss.	2.3	2.0	2.3	2.0	1.7	2.3
Louise, Miss.	2.0	2.3	2.0	2.0	2.0	2.0
St. Joseph, La.	1.0	1.0	1.0	1.0	1.0	2.0
		West				
Curtis, La.	1.0	1.0	1.0	1.0	1.0	1.0
Lubbock, Texas	3.0	3.0	3.0	3.0	3.0	3.0

Table 36: (Continued)

Location	N48-1574	N48-1867	D49-533	D49-588	D49-772	D49-2524
			East Coast			
Accomac, Va.	2.0	2.0	2.0	2.0	2.0	2.0
Petersburg, Va.	1.8	1.2	1.5	1.2	1.8	1.0
Norfolk, Va.	2.0	2.0	2.0	2.0	2.0	2.0
Holland, Va.	2.5	2.3	2.0	2.2	2.5	1.3
Plymouth, N. C.	2.0	2.0	2.0	2.5	2.0	1.5
Willard, N. C.	2.0	2.0	-	-	-	1.5
McCullers, N. C.	1.5	1.0	1.0	1.5	1.5	1.0
Florence, S. C.	2.0	2.0	2.5	2.5	2.0	1.5
			Southeast			
Charleston, S. C.	4.0	3.0	4.0	3.0	3.0	4.0
Tallassee, Ala.	1.0	1.0	1.0	1.0	1.0	1.0
Tifton, Ga.	2.0	2.0	3.0	2.0	2.0	2.0
Gainesville, Fla.	3.7	3.0	3.0	3.0	3.0	3.3
Marianna, Fla.	2.0	1.0	2.0	2.0	2.0	1.0
Walnut Hill, Fla.	2.0	3.0	2.0	2.0	2.0	1.0
Baton Rouge, La.	1.0	1.0	1.0	1.0	1.0	1.0
			Upper and Central South			
Clemson, S. C.	2.5	1.5	1.5	2.0	2.0	1.5
			Delta			
Stoneville, Miss.	2.3	2.3	2.7	2.7	2.7	1.0
Louise, Miss.	2.0	2.0	2.0	2.0	2.7	1.0
St. Joseph, La.	1.0	2.0	1.0	1.0	1.0	1.0
			West			
Curtis, La.	1.0	1.0	1.0	1.0	1.0	1.0
Lubbock, Texas	3.0	3.0	3.0	3.0	3.0	3.0

Table 37: Seed weight, in grams per 100 seeds, for the strains in Uniform Group VII, 1952

Location	Roanoke	Dortch. 31	N46-2872	N46-2881	N47-3479	N47-309
			East Coast			
Petersburg, Va.	15.2	15.5	15.0	15.0	14.8	13.0
Holland, Va.	17.2	16.8	17.0	17.3	17.2	15.5
Plymouth, N. C.	13.6	11.8	14.2	13.5	13.2	12.4
Willard, N. C.	15.5	14.9	14.8	15.3	14.7	12.7
McCullers, N. C.	15.7	14.8	15.3	13.8	15.3	14.0
Florence, S. C.	13.8	13.7	14.3	12.7	13.5	12.4
Hartsville, S. C.	15.0	14.7	15.3	15.7	16.0	13.7
Mean	15.1	14.6	15.1	14.8	15.0	13.4
			Southeast			
Charleston, S. C.	12.4	13.5	15.5	15.1	13.6	11.3
Tallassee, Ala.	19.2	17.4	17.9	17.3	17.1	16.6
Tifton, Ga.	12.2	12.3	12.2	12.7	13.1	10.4
Gainesville, Fla.	18.9	17.5	19.8	17.8	19.7	16.0
Monticello, Fla.	19.6	18.6	19.2	19.2	18.8	18.0
Quincy, Fla.	17.1	17.7	18.5	18.1	19.5	15.4
Marianna, Fla.	15.6	13.1	15.4	14.6	14.5	13.3
Walnut Hill, Fla.	18.6	19.2	19.1	17.3	17.0	17.9
Mean	16.7	16.2	17.2	16.5	16.7	14.9
			Upper and Central South			
Clemson, S. C.	14.4	13.7	14.1	13.9	13.5	12.1
			Delta			
Stoneville, Miss.	15.2	14.7	14.9	13.8	14.4	12.6
Louise, Miss.	12.1	11.3	10.6	10.8	11.1	11.4
Mean	13.7	13.0	12.8	12.3	12.8	12.0
			West			
Lubbock, Texas	17.0	18.0	15.5	15.5	16.0	15.0

Table 37: (Continued)

Location	N48-1574	N48-1867	D49-533	D49-588	D49-772	D49-2524
			East Coast			
Petersburg, Va.	14.2	15.2	15.0	12.8	16.0	14.8
Holland, Va.	16.5	17.0	16.5	16.0	18.8	19.3
Plymouth, N. C.	13.9	13.4	13.3	13.1	14.5	12.3
Willard, N. C.	14.6	13.7	-	-	-	13.4
McCullers, N. C.	14.7	15.3	14.4	13.1	15.2	14.2
Florence, S. C.	13.6	13.9	13.8	15.0	15.1	13.1
Hartsville, S. C.	15.0	15.3	15.0	14.7	17.3	13.3
Mean	14.6	14.8	14.7	14.1	16.2	14.3
			Southeast			
Charleston, S. C.	13.1	14.4	13.9	14.0	14.3	11.8
Tallassee, Ala.	18.5	18.2	17.8	16.8	18.7	14.4
Tifton, Ga.	13.1	12.8	11.1	11.3	14.6	11.9
Gainesville, Fla.	17.7	17.2	17.2	16.2	18.2	15.8
Monticello, Fla.	18.1	17.0	17.3	18.1	18.1	19.3
Quincy, Fla.	17.1	17.2	15.3	15.1	18.2	15.2
Marianna, Fla.	13.8	14.2	13.4	14.3	14.8	13.3
Walnut Hill, Fla.	16.9	17.1	15.5	17.4	18.2	16.4
Mean	16.0	16.0	15.2	15.4	16.9	14.8
			Upper and Central South			
Clemson, S. C.	13.5	12.9	13.5	13.4	15.4	12.6
			Delta			
Stoneville, Miss.	15.6	14.4	15.3	14.5	16.7	12.7
Louise, Miss.	11.2	11.1	11.6	11.3	11.9	10.7
Mean	13.4	12.8	13.4	12.9	14.3	11.7
			West			
Lubbock, Texas	16.5	16.5	16.0	15.0	15.5	16.0

Table 38: Two-year average seed yields, in bushels per acre, for the strains in Uniform Group VII, 1951-52

Location	Roanoke	Dortch. 31	N46-2872	N46-2881
		East Coast		
Petersburg, Va.	33.8	26.8	28.5	32.1
Holland, Va.	27.6	23.7	30.3	31.8
Plymouth, N. C.	30.2	29.2	33.8	32.6
Willard, N. C.	35.6	35.3	36.5	35.8
McCullers, N. C.	30.4	33.1	32.0	30.6
Florence, S. C.	29.4	33.2	31.2	32.2
Mean	31.2	30.2	32.0	32.5
		Southeast		
Tallassee, Ala.	43.4	39.2	41.4	43.6
Tifton, Ga.	12.5	13.0	14.2	13.2
Monticello, Fla.	28.4	24.9	30.8	30.9
Quincy, Fla.	36.0	35.8	40.2	36.7
Marianna, Fla.	32.6	22.1	22.8	24.5
Walnut Hill, Fla.	34.7	37.1	38.2	40.0
Fairhope, Ala.	34.5	32.7	34.8	33.9
Baton Rouge, La.	29.2	27.6	35.3	31.9
Mean	31.4	29.0	32.2	31.8
		Upper and Central South		
Clemson, S. C.	24.9	23.5	24.1	24.4
Experiment, Ga.	24.0	24.4	26.8	26.2
State College, Miss.	23.2	22.9	24.9	21.4
Mean	24.0	23.6	25.2	24.0
		Delta		
Stoneville, Miss.	22.8	22.5	21.4	21.8
Louise, Miss.	29.4	22.2	32.1	26.2
St. Joseph, La.	43.5	34.6	39.8	39.8
Mean	31.9	26.4	31.1	29.3
		West		
Curtis, La.	29.2	28.4	29.8	26.6
Lubbock, Texas	18.4	19.1	15.5	18.2
Mean	23.8	23.8	22.7	22.4

Table 38: (Continued)

Location	N47-3479	N47-309	N48-1574	N48-1867
	East Coast			
Petersburg, Va.	25.2	25.6	26.8	33.2
Holland, Va.	30.2	30.4	29.2	32.4
Plymouth, N. C.	35.0	29.6	31.7	37.8
Willard, N. C.	38.3	37.2	36.6	35.4
McCullers, N. C.	29.9	34.0	30.2	33.8
Florence, S. C.	33.1	32.9	33.0	34.5
Mean	32.0	31.6	31.2	34.5
	Southeast			
Tallassee, Ala.	40.4	36.9	43.3	42.1
Tifton, Ga.	16.4	14.6	13.8	14.4
Monticello, Fla.	32.6	30.8	27.3	26.8
Quincy, Fla.	37.8	37.8	34.6	36.6
Marianna, Fla.	26.8	22.0	23.8	22.4
Walnut Hill, Fla.	36.4	39.6	36.9	38.0
Fairhope, Ala.	35.0	35.8	37.4	33.9
Baton Rouge, La.	32.4	33.8	30.1	28.1
Mean	32.2	31.4	30.9	30.3
	Upper and Central South			
Clemson, S. C.	24.8	21.6	23.5	23.9
Experiment, Ga.	24.3	21.6	24.6	26.4
State College, Miss.	24.4	22.2	21.6	21.8
Mean	24.5	21.8	23.2	24.0
	Delta			
Stoneville, Miss.	26.4	21.0	26.0	22.6
Louise, Miss.	29.4	24.5	28.8	25.3
St. Joseph, La.	42.0	40.0	45.2	39.6
Mean	32.6	28.5	33.3	29.2
	West			
Curtis, La.	33.5	31.0	35.6	34.1
Lubbock, Texas	16.5	16.6	15.6	16.0
Mean	25.0	23.8	25.6	25.0

Table 39: Two-year summary of the oil percentage for the strains in Uniform Group VII, 1951-52

Location	Roanoke	Dortch. 31	N46-2872	N46-2881	N47-3479	N47-309	N48-1574	N48-1867
Petersburg, Va.	20.4	20.1	19.4	21.0	20.8	19.6	19.9	20.3
McCullers, N. C.	21.1	20.1	20.0	20.7	20.5	20.3	20.4	20.7
Florence, S. C.	21.9	20.8	20.7	21.9	21.5	20.6	21.2	21.2
Quincy, Fla.	22.5	21.6	22.7	23.2	22.8	21.4	22.7	22.3
Walnut Hill, Fla.	23.2	21.7	22.3	22.6	21.9	22.0	22.8	22.3
Fairhope, Ala.	22.6	21.9	22.4	22.8	22.9	22.8	22.6	23.2
Baton Rouge, La.	23.2	22.1	23.0	22.9	23.0	22.9	23.2	22.8
Clemson, S. C.	21.9	21.0	21.4	21.8	21.6	21.5	21.9	21.0
Stoneville, Miss.	21.1	19.0	21.0	21.0	21.0	19.4	20.4	20.6
Curtis, La.1/	22.4	20.8	21.0	22.0	21.7	21.6	21.5	21.4
Mean	22.0	20.9	21.4	22.0	21.8	21.2	21.7	21.6

1/1951 data for Stuttgart, Arkansas.

Table 40: Three-year summary of yield, in bushels per acre, for the strains in Uniform Group VII, 1950-52

Location	Roanoke	Dortch. 31	N46-2872	N46-2881	N47-3479	N47-309
			East Coast			
Petersburg, Va.	35.7	35.4	32.6	36.1	31.6	27.2
Holland, Va.	31.9	30.1	33.4	36.5	35.3	29.1
Plymouth, N. C.	33.3	31.0	36.1	35.7	36.0	33.9
Willard, N. C.	35.3	36.4	38.4	36.5	39.3	38.0
McCullers, N. C.	33.0	36.2	33.9	34.9	33.3	34.9
Florence, S. C.	31.1	34.4	33.2	33.7	34.6	32.8
Mean	33.4	33.9	34.6	35.6	35.0	32.7
			Southeast			
Tallassee, Ala.	38.0	36.1	39.5	39.6	38.6	32.9
Tifton, Ga.	15.1	13.7	14.5	14.1	15.5	15.1
Monticello, Fla.	24.9	24.1	28.8	28.3	28.4	25.0
Marianna, Fla.	25.8	23.2	24.5	26.5	26.9	24.3
Walnut Hill, Fla.	40.0	42.3	43.4	43.1	40.3	42.8
Fairhope, Ala.	30.9	29.4	31.7	30.4	31.1	32.5
Baton Rouge, La.	26.9	26.0	31.5	27.3	29.5	31.6
Mean	28.8	27.8	30.6	29.9	30.0	29.2
			Upper and Central South			
Clemson, S. C.	25.8	24.2	24.9	25.1	26.2	24.7
Experiment, Ga.	24.7	25.5	26.0	26.3	25.2	23.9
State College, Miss.	24.5	24.6	25.9	24.1	25.1	22.0
Mean	25.0	24.8	25.6	25.2	25.5	23.5
			Delta			
Stoneville, Miss.	29.2	23.1	29.2	28.4	34.0	26.1
Louise, Miss.	33.1	25.5	38.0	32.7	36.3	29.7
St. Joseph, La.	36.4	28.8	35.9	33.7	35.5	35.8
Mean	32.9	25.8	34.4	31.6	35.3	30.5
			West			
Curtis, La.	32.7	30.3	34.4	30.6	35.6	32.8

Table 41: Three-year summary of the oil percentage of the strains in Uniform Group VII, 1950-52

Location	Roanoke	Dortch. 31	N46-2872	N46-2881	N47-3479	N47-309
Petersburg, Va.	20.5	20.1	19.5	20.9	20.7	19.8
McCullers, N. C.	21.1	20.1	19.9	20.5	20.5	20.4
Florence, S. C.	21.5	20.6	20.4	21.5	21.2	20.7
Walnut Hill, Fla.	23.1	21.9	22.3	22.8	22.1	22.0
Fairhope, Ala.	23.3	22.7	23.1	23.7	23.5	23.2
Baton Rouge, La.	23.1	22.1	23.3	23.3	23.1	22.6
Clemson, S. C.	22.1	21.1	21.4	21.5	21.3	21.4
Stoneville, Miss.	21.3	19.3	21.1	21.4	21.3	19.6
Stuttgart, Ark. 1/	22.0	20.5	21.0	21.9	21.6	21.1
Mean	22.0	20.9	21.3	21.9	21.7	21.2

1/1952 data from Curtis, Louisiana.

UNIFORM GROUP VIII, 1952

Strain or Variety	Source or Originating Agency	Origin
Improved Pelican	Louisiana A.E.S.	Sel. from Tanloxi x P.I. 60406
Acadian	Louisiana A.E.S.	Sel. from P.I. 60406 x P.I. 04910
J.E.W. 45	J. E. Wannamaker, St. Matthews, S. Car.	Sel. from mixed seed lot.
Majos	Coker Pedigreed Seed Co., Hartsville, S. C.	Sel. from Tokio x Yelredo
Mamotan 6640	Delta Br. A.E.S.	Sel. from Mammoth Yellow x Otootan
Mamotan 6680	Delta Br. A.E.S.	Sel. from Mam. Yellow x Otootan
Woods Yellow #1	Farmer selection	Sel. from Woods Yellow
N46-2652	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate x Palmetto
N47-3332	N. Car. A.E.S. & U.S.R.S.L.	Sel. from Volstate x Palmetto
La. 48-277	Louisiana A.E.S.	Sel. from P.I. 85897

Fourteen Group VIII nurseries were planted. Results of 9 of these nurseries are summarized in tables 42 through 50. The nurseries at Hartsville, St. Joseph and Curtis were frosted before maturity. This would tend to favor the earlier-maturing strains.

Improved Pelican, recently released by the Louisiana Agricultural Experiment Station, has been substituted for Acadian as the check variety. Improved Pelican is similar to Acadian in general growth characters, but has a slight advantage in both seed yield and oil content.

Because of their rank growth, varieties of Group VIII are more limited in their production possibilities. The heavy growth resulting from other than very late plantings, makes combining difficult. Seed yields from these varieties usually averages lower than for Group VII varieties, except for extremely late plantings. The three-year average yield for J.E.W. 45 of 35.7 bushels per acre at Walnut Hill, Florida, compares with 40 bushels per acre for Roanoke.

There appears to be rather distinct regional adaptation of these strains. J.E.W. 45 and Majos surpass Acadian and Improved Pelican in the Georgia and Florida plantings, while Acadian and Improved Pelican give higher yields in Louisiana tests.

The two strains, N46-2652 and N47-3332, are of Group VII maturity, but their rank growth habit adapts them more generally to the conditions under which Group VIII strains are adapted.

Table 42: Yield, in bushels per acre, for the strains in Uniform Group VIII, 1952

Location	Imp. Pelican	Acadian	J.E.W. 45	Majos	M'tan 6640	M'tan 6680	W. Yel. #1	N46-2652	N47-3332	La. 48-277	L.S.D. (5%)	C.V.
Hartsville, S. C.	10.2	11.0	12.4	13.0	11.8	14.9+	13.5	10.7	13.1	2.6-	3.5	18%
Experiment, Ga.	24.5	22.4	29.8+	25.9	26.9	22.7	31.3+	25.2	27.1	24.7	4.7	11%
Tifton, Ga.	14.7	12.8	10.9	19.5	18.9	13.9	17.7	13.4	12.9	17.4	N.S.	23%
Gainesville, Fla.	36.8	32.2	34.0	41.2	46.4	42.8	42.2	32.2	31.8	27.6	11.0	13%
Quincy, Fla.	25.8	23.2	31.8	27.5	36.1+	29.5	28.2	25.2	23.9	24.5	7.8	14%
Walnut Hill, Fla.	29.4	26.7	33.4	35.1+	37.5+	33.9	34.9+	33.9	34.4+	27.2	4.9	9%
Baton Rouge, La.	24.8	23.7	23.5	11.6-	34.7+	25.1	26.0	21.5-	24.2	15.1-	3.1	9%
St. Joseph, La.	26.4	19.8	39.3+	42.7+	48.5+	37.6+	46.5+	29.5	43.3+	25.0	8.5	16%
Curtis, La.	20.7	17.1	25.9+	17.4	28.5+	20.2	7.0-	25.9+	26.5+	10.9-	5.1	18%
Mean	23.7	21.0	26.8	26.0	32.1	26.7	27.5	24.2	26.4	19.4		

Table 43: Chemical composition of the strains in Uniform Group VIII, 1952

Location	Imp. Pelican	Acadian	J.E.W. 45	Majos	M'tan 6640	M'tan 6680	W. Yel. #1	N46-2652	N47-3332	La. 48-277
					PERCENTAGE OIL					
Tifton, Ga.	20.4	21.0	21.0	22.7	21.6	19.8	23.4	22.0	23.0	21.3
Quincy, Fla.	21.7	20.4	21.3	20.6	21.2	20.2	21.6	21.4	22.4	20.7
Walnut Hill, Fla.	19.5	19.3	19.7	19.3	21.3	18.7	20.2	21.6	21.8	19.1
Baton Rouge, La.	22.8	22.3	20.8	20.1	20.7	20.5	21.7	22.5	24.1	22.0
Mean	21.1	20.8	20.7	20.7	21.2	19.8	21.7	21.9	22.8	20.8
					PERCENTAGE PROTEIN					
Tifton, Ga.	41.6	39.8	40.3	38.9	39.8	38.3	37.9	38.8	39.1	37.2
Quincy, Fla.	43.3	43.9	43.0	40.6	41.7	43.6	40.7	43.1	42.5	42.2
Walnut Hill, Fla.	44.3	44.7	41.9	39.5	40.6	44.6	40.2	41.2	39.2	40.3
Baton Rouge, La.	37.0	36.5	37.5	35.1	38.9	38.6	39.0	38.5	38.6	36.3
Mean	41.6	41.2	40.7	38.5	40.3	41.3	39.5	40.4	39.9	39.0
					IODINE NO. OF OIL					
Tifton, Ga.	139.9	141.4	134.0	136.6	139.1	138.8	136.6	136.6	139.1	137.7
Quincy, Fla.	137.2	137.2	128.0	131.2	137.7	135.1	132.3	128.6	134.7	134.0
Walnut Hill, Fla.	139.1	137.4	130.6	134.5	137.2	137.4	133.4	132.1	136.6	134.3
Baton Rouge, La.	136.3	138.8	131.5	132.6	138.0	136.0	133.7	130.0	134.3	132.9
Mean	138.1	138.7	131.0	133.7	138.0	136.8	134.0	131.8	136.2	134.7

Table 44: Relative maturity data, days earlier (-) or later (+) than Improved Pelican, for the strains of the Uniform Group VIII, 1952

Location	Date Planted	Imp. Pel. Matured	Aca-dian	J.E.W. 45	Majos	M'tan 6640	M'tan 6680	W. Yel. #1	N46-2652	N47-3332	La. 48-277
Experiment, Ga.	5-13	11-1	0	+2	+5	-1	+2	-1	-4	-3	+5
Tifton, Ga.	6-2	10-27	0	0	+3	0	+1	0	-10	-10	+3
Quincy, Fla.	6-16	10-28	0	0	0	0	0	0	-13	-13	0
Walnut Hill, Fla.	6-13	11-11	+2	-4	-5	-1	-2	-3	-8	-6	-5
Baton Rouge, La.	6-6	11-3	0	-14	-2	-7	-9	-7	-19	-18	-2
St. Joseph, La.	6-2	11-2	-3	-7	+2	0	0	0	-10	-9	0
Curtis, La.	5-13	F	F	F	F	F	F	F	F	F	F
Mean			0	-4	0	-1	-1	-2	-11	-10	0

Table 45: Height data for the strains in Uniform Group VIII, 1952

Location	Imp. Pelican	Aca-dian	J.E.W. 45	Majos	M'tan 6640	M'tan 6680	W. Yel. #1	N46-2652	N47-3332	La. 48-277
Hartsville, S. C.	47	46	39	37	32	44	33	47	47	41
Experiment, Ga.	50	48	43	39	38	40	32	56	38	42
Tifton, Ga.	46	43	29	31	29	37	30	41	36	33
Gainesville, Fla.	51	51	27	31	30	42	29	46	44	35
Quincy, Fla.	45	50	26	28	28	34	29	36	36	31
Walnut Hill, Fla.	56	57	47	41	47	52	49	46	48	47
Baton Rouge, La.	65	70	35	33	36	50	34	50	54	44
St. Joseph, La.	65	66	36	34	34	50	38	54	54	36
Curtis, La.	62	64	40	40	42	60	39	54	52	34
Mean	54	55	36	35	35	45	35	48	45	38

Table 46: Lodging scores for the strains in Uniform Group VIII, 1952

Location	Imp. Pelican	Aca-dian	J.E.W. 45	Majos	M'tan 6640	M'tan 6680	W. Yel. #1	N46-2652	N47-3332	La. 48-277
Hartsville, S. C.	2.0	2.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	2.0
Experiment, Ga.	3.0	2.0	2.0	3.0	1.0	2.0	1.0	2.0	1.0	4.0
Tifton, Ga.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Walnut Hill, Fla.	2.0	2.7	2.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0
Baton Rouge, La.	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
St. Joseph, La.	4.0	3.0	2.0	2.0	2.0	2.0	1.0	3.0	2.0	1.0
Curtis, La.	5.0	4.0	3.0	3.0	3.0	4.0	3.0	4.0	4.0	3.0

Table 47: Seed quality scores for the strains in Uniform Group VIII, 1952

Location	Imp. Pelican	Aca-dian	J.E.W. 45	Majos	M'tan 6640	M'tan 6680	W. Yel. #1	N46-2652	N47-3332	La. 48-277
Tifton, Ga.	2.0	3.0	2.0	2.0	2.0	3.0	2.0	3.0	2.0	2.0
Gainesville, Fla.	3.0	4.3	2.7	2.0	2.7	3.0	1.7	3.7	4.0	3.0
Walnut Hill, Fla.	3.0	3.0	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	1.0	1.0	1.0	1.0	1.0	1.0	1.0
St. Joseph, La.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Curtis, La.	3.0	4.0	3.0	2.0	2.0	3.0	3.0	2.0	1.0	4.0

Table 48: Seed weight, in grams per 100 seeds, for the strains in Uniform Group VIII, 1952

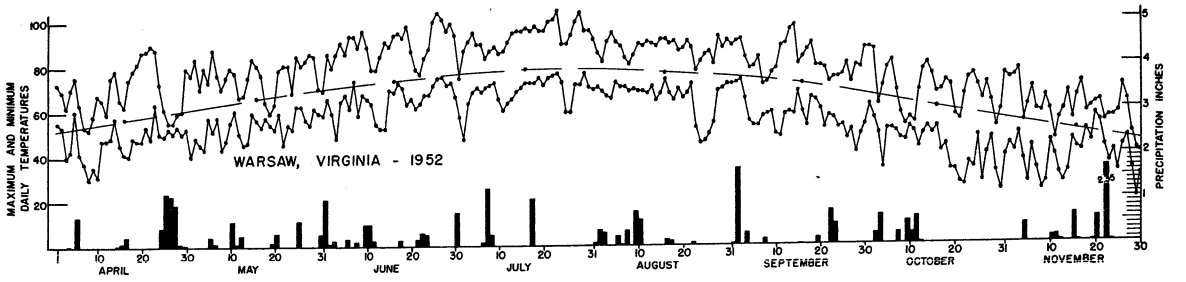
Location	Imp. Pelican	Aca-dian	J.E.W. 45	Majos	M'tan 6640	M'tan 6680	W. Yel. #1	N46-2652	N47-3332	La. 48-277
Hartsville, S. C.	10.0	11.3	19.3	18.7	17.7	14.0	18.3	14.7	14.0	13.0
Tifton, Ga.	13.9	17.7	16.7	15.4	10.6	12.8	13.4	14.6	10.5	11.9
Gainesville, Fla.	14.3	15.5	23.0	22.5	22.8	18.3	20.7	17.5	17.8	18.0
Quincy, Fla.	13.7	14.6	20.2	22.7	18.6	15.7	17.1	16.8	15.8	16.8
Walnut Hill, Fla.	14.5	14.7	22.1	22.3	19.9	16.9	20.2	17.3	18.3	18.7
Mean	13.3	14.8	20.3	20.3	17.9	15.5	17.9	16.2	15.3	15.7

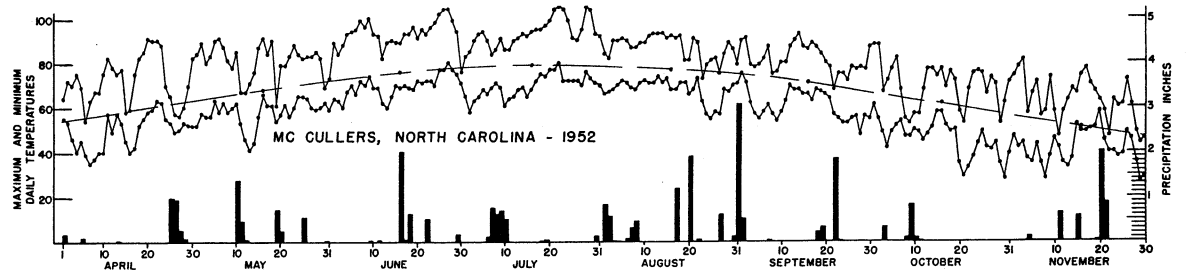
Table 49: Two-year summary of the yield, in bushels per acre, and the oil percentage of the strains in Uniform Group VIII, 1951-52

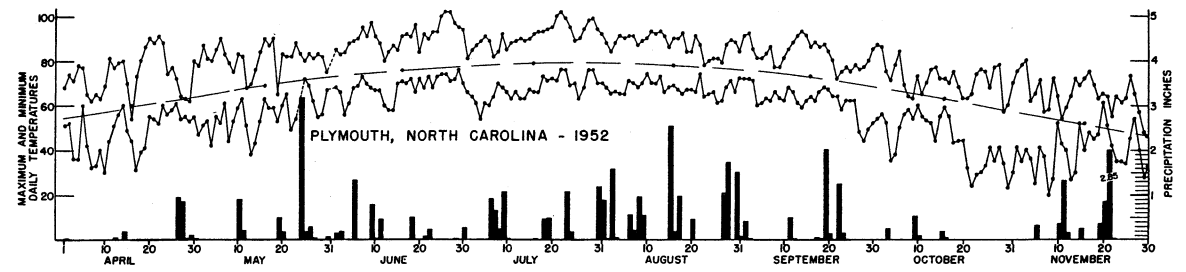
	Imp. Pelican	Acadian	J.E.W. 45	Majos	M'tan 6640	M'tan 6680	W. Yel. #1	M46-2652
				YIELD				
Experiment, Ga.	20.8	20.8	25.1	24.2	23.8	16.2	27.6	20.7
Tifton, Ga.	15.5	14.3	14.8	19.2	14.8	16.3	19.6	13.4
Quincy, Fla.	25.2	23.2	33.6	28.0	-	28.8	30.1	26.7
Walnut Hill, Fla.	29.2	28.4	34.8	34.7	34.8	31.5	34.2	32.6
Baton Rouge, La.	28.5	27.4	26.2	19.6	32.0	26.8	27.2	25.2
St. Joseph, La.	23.8	20.8	28.5	34.6	36.5	30.0	37.0	24.1
Curtis, La.	29.3	27.0	28.9	22.0	31.1	26.0	20.0	29.6
Mean	24.6	23.1	27.4	26.0	28.8	25.1	27.9	24.6
				OIL PERCENTAGE				
Tifton, Ga.	20.5	21.5	21.4	22.2	21.4	19.3	22.8	21.5
Quincy, Fla.	21.5	20.4	20.8	20.7	-	19.7	21.5	20.5
Walnut Hill, Fla.	20.5	20.1	19.9	19.6	20.5	19.4	20.4	21.4
Baton Rouge, La.	22.3	21.9	21.0	21.0	21.3	20.8	22.3	22.2
Mean	21.2	21.0	20.8	20.9	21.1	19.8	21.8	21.4

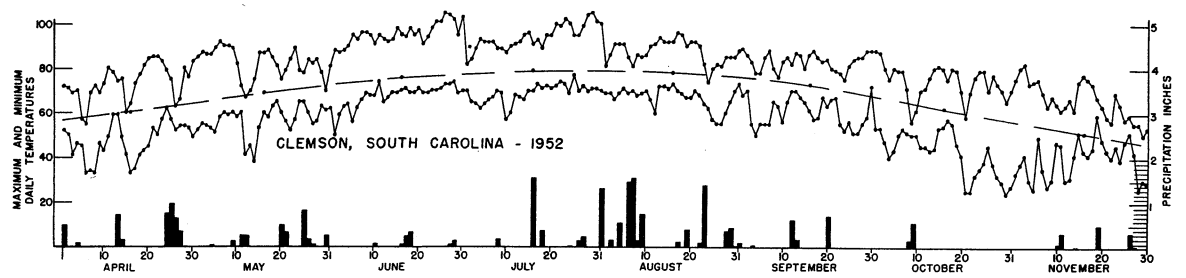
Table 50: Three-year summary of the yield, in bushels per acre, and the oil percentage for the strains in Uniform Group VIII, 1950-52

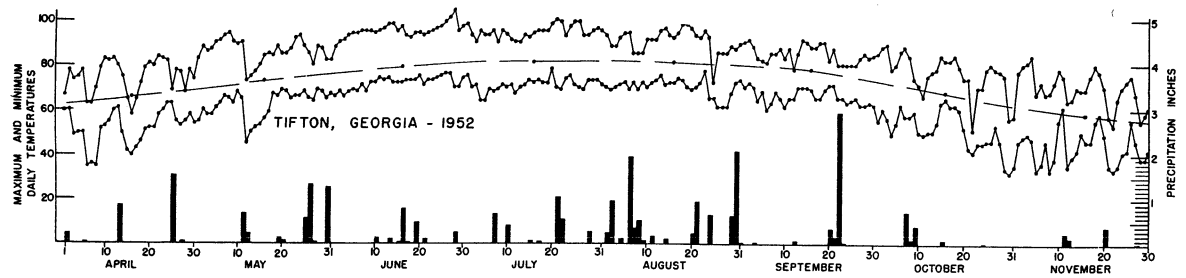
Location	Imp. Pelican	Acadian	J.E.W. 45	Majos	Mamotan 6680
		YIELD			
Experiment, Ga.	21.0	18.8	25.3	22.9	16.4
Tifton, Ga.	13.4	13.1	13.0	17.2	13.9
Walnut Hill, Fla.	29.9	29.4	35.7	34.4	33.3
Baton Rouge, La.	28.4	28.0	24.5	16.6	26.6
Curtis, La.	29.6	28.2	25.2	21.0	24.2
Mean	24.5	23.5	24.5	22.4	22.9
		OIL PERCENTAGE			
Walnut Hill, Fla.	20.6	20.3	20.0	19.5	19.3
Baton Rouge, La.	22.4	22.0	21.0	21.9	20.9
Mean	21.5	21.2	20.5	20.7	20.1

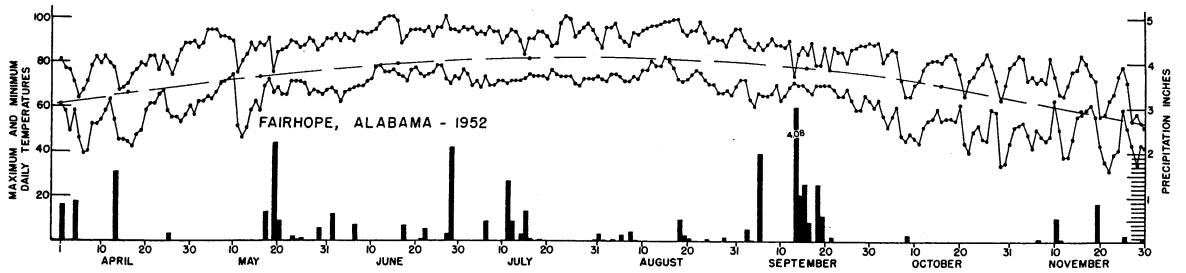

WARSAW, VIRGINIA - 1952
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
2.56
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

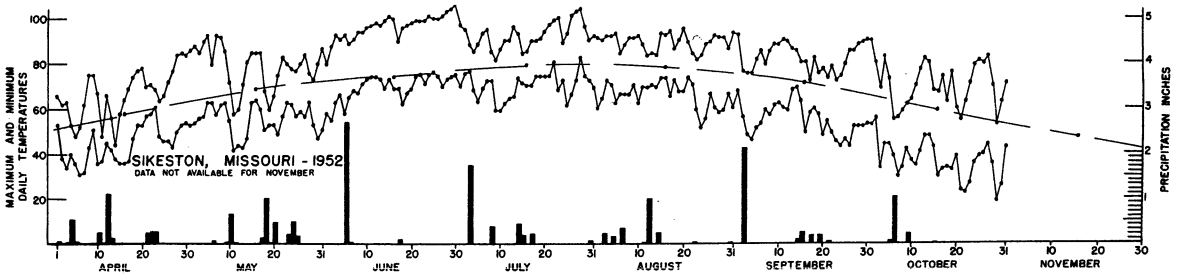

MC CULLERS, NORTH CAROLINA - 1952
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

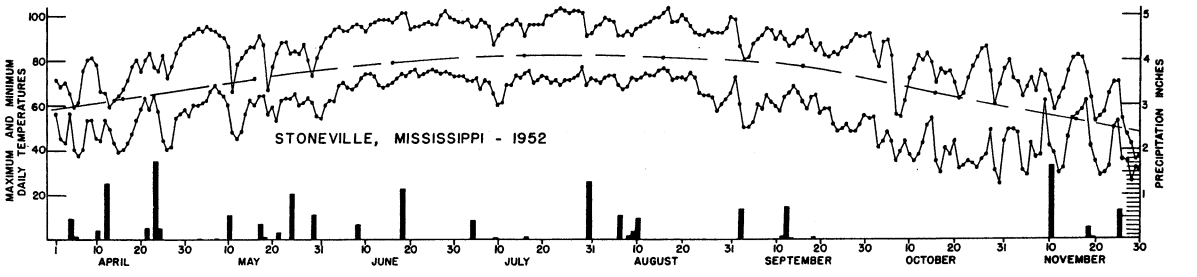

PLYMOUTH, NORTH CAROLINA - 1952
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
2.55
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

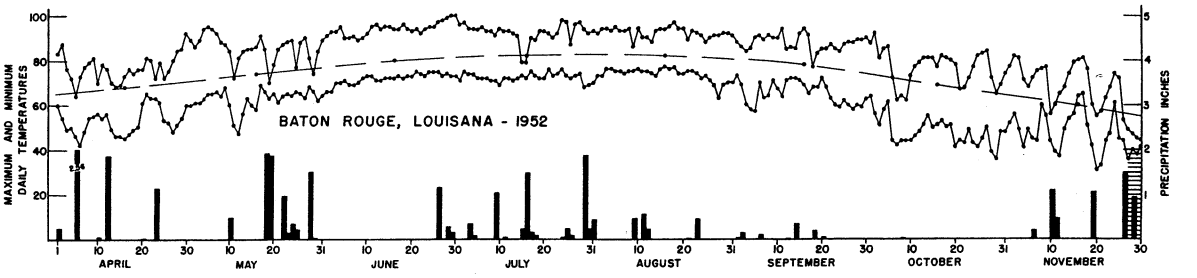

CLEMSON, SOUTH CAROLINA - 1952
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

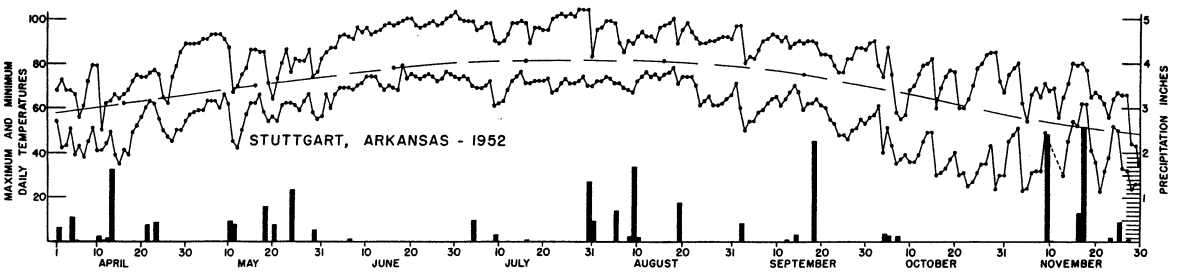

TIFTON, GEORGIA - 1952
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

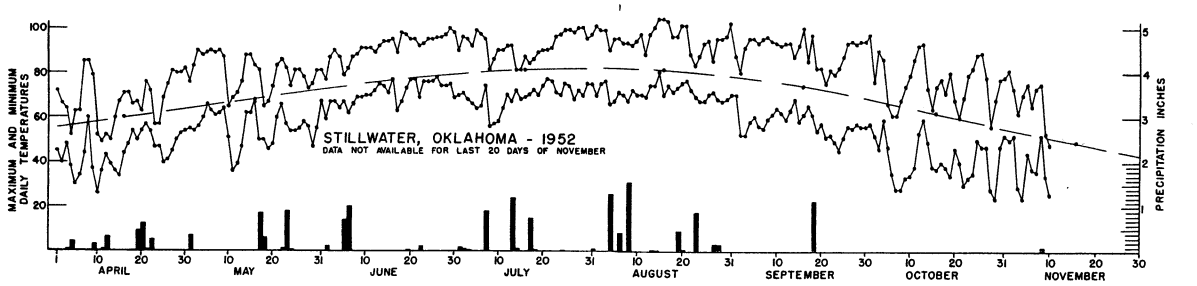

FAIRHOPE, ALABAMA - 1952
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
4.58
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

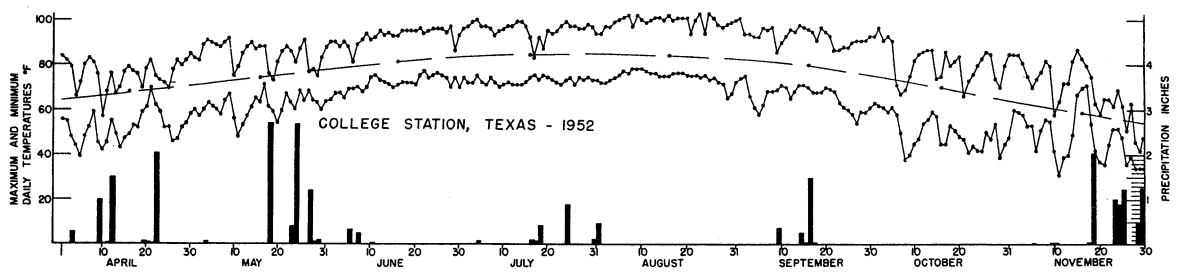

SIKESTON, MISSOURI - 1952
DATA NOT AVAILABLE FOR NOVEMBER
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

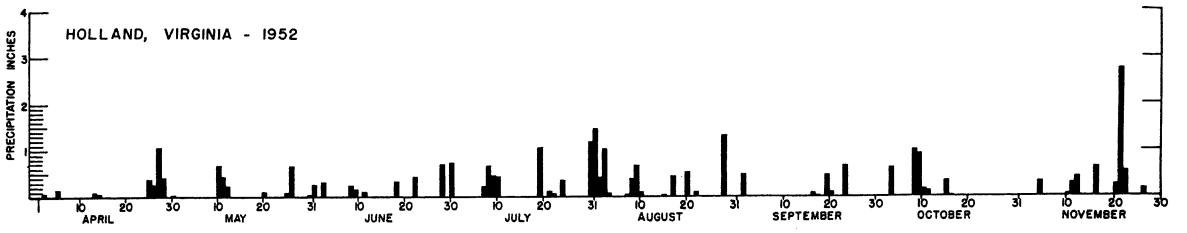

STONEVILLE, MISSISSIPPI - 1952
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

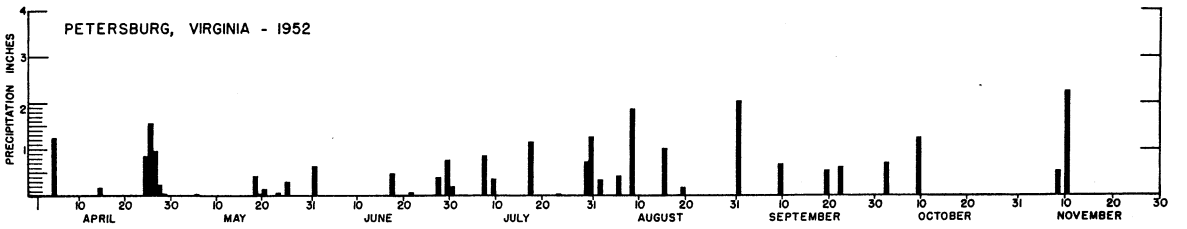

BATON ROUGE, LOUISANA - 1952
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

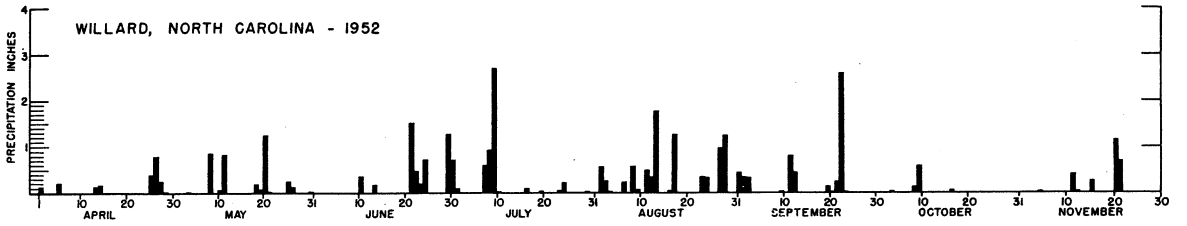

STUTTGART, ARKANSAS - 1952
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

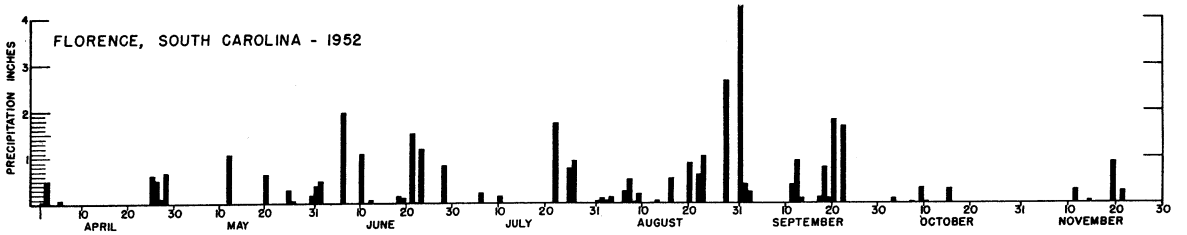

STILLWATER, OKLAHOMA - 1952
DATA NOT AVAILABLE FOR LAST 20 DAYS OF NOVEMBER
MAXIMUM AND MINIMUM DAILY TEMPERATURES
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

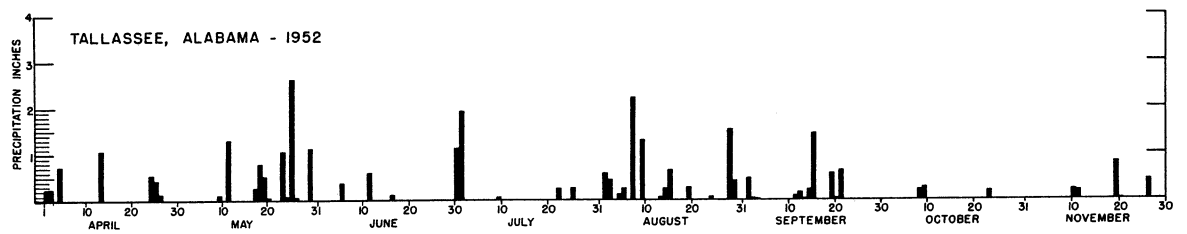

COLLEGE STATION, TEXAS - 1952
MAXIMUM AND MINIMUM DAILY TEMPERATURES °F
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

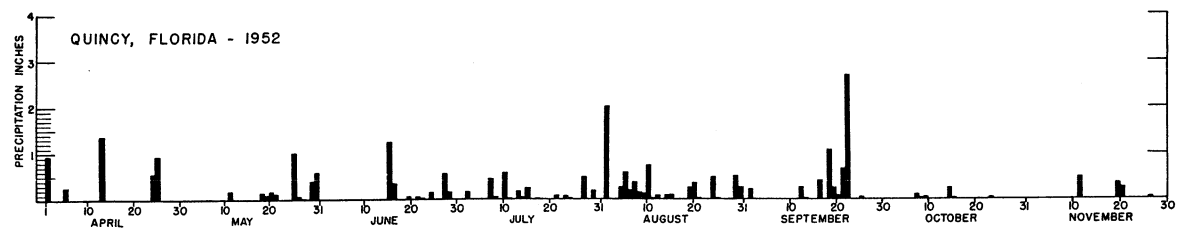

HOLLAND, VIRGINIA - 1952
PRECIPITATION INCHES
0
1
2
3
4
1 10 20 30 10 20 31 10 20 30 10 20 31 10 20 31 10 20 30 10 20 31 10 20 30
APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER

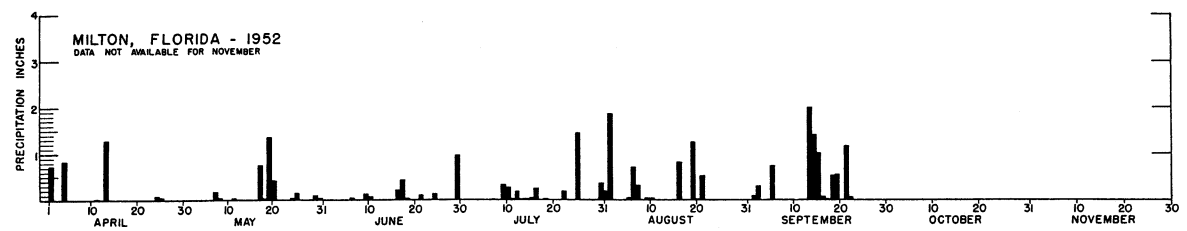

PETERSBURG, VIRGINIA - 1952
PRECIPITATION INCHES
0
1
2
3
4
1 10 20 30 10 20 31 10 20 30 10 20 31 10 20 31 10 20 30 10 20 31 10 20 30
APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER

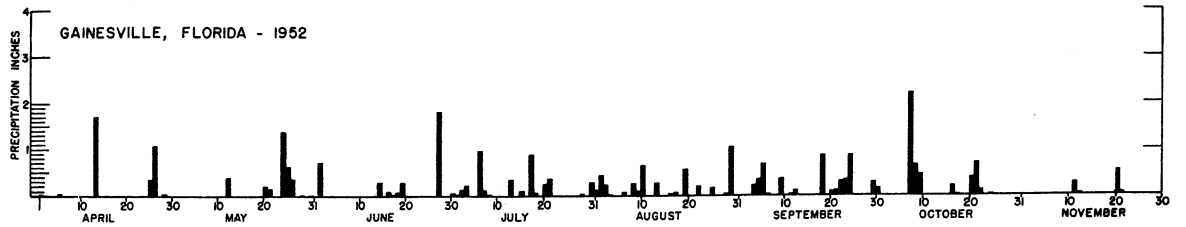

WILLARD, NORTH CAROLINA - 1952
PRECIPITATION INCHES
0
1
2
3
4
1 10 20 30 10 20 31 10 20 30 10 20 31 10 20 31 10 20 30 10 20 31 10 20 30
APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER

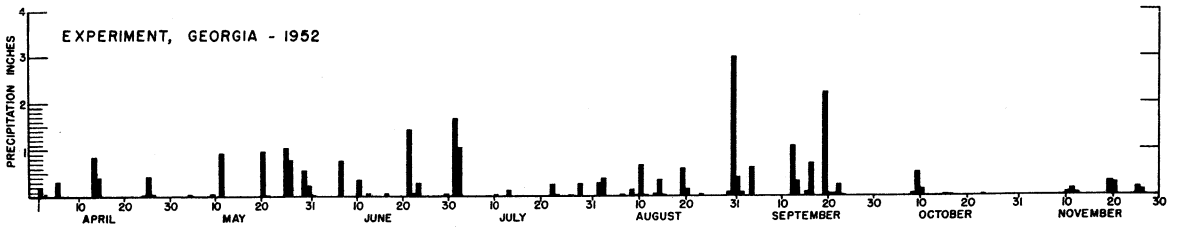

FLORENCE, SOUTH CAROLINA - 1952
PRECIPITATION INCHES
0
1
2
3
4
1 10 20 30 10 20 31 10 20 30 10 20 31 10 20 31 10 20 30 10 20 31 10 20 30
APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER

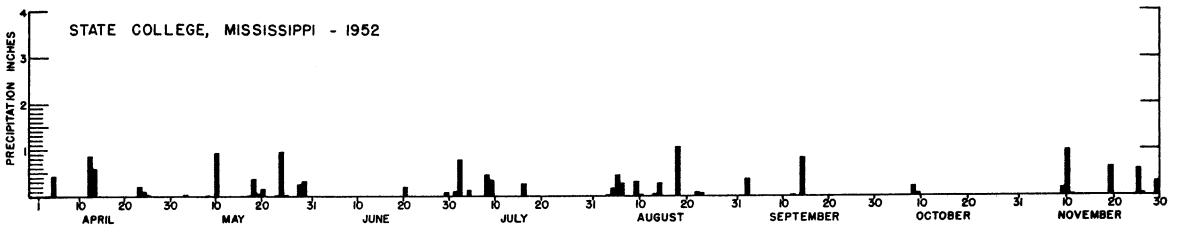

TALLASSEE, ALABAMA - 1952
PRECIPITATION INCHES
0
1
2
3
4
1 10 20 30 10 20 31 10 20 30 10 20 31 10 20 31 10 20 30 10 20 31 10 20 30
APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER

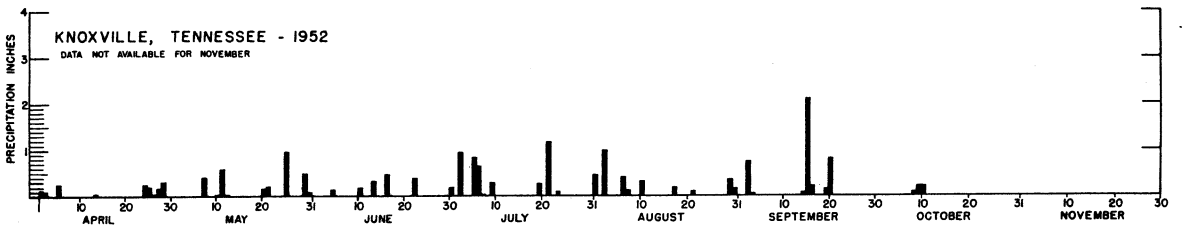

QUINCY, FLORIDA - 1952
PRECIPITATION INCHES
0
1
2
3
4
1 10 20 30 10 20 31 10 20 30 10 20 31 10 20 31 10 20 30 10 20 31 10 20 30
APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER

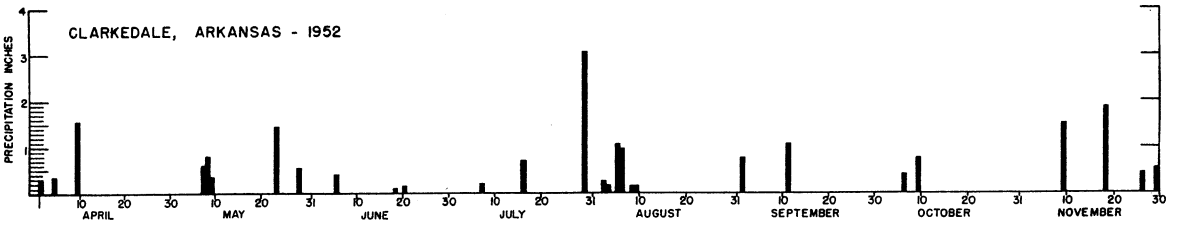

MILTON, FLORIDA - 1952
DATA NOT AVAILABLE FOR NOVEMBER
PRECIPITATION INCHES
0
1
2
3
4
1 10 20 30 10 20 31 10 20 30 10 20 31 10 20 31 10 20 30 10 20 31 10 20 30
APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER

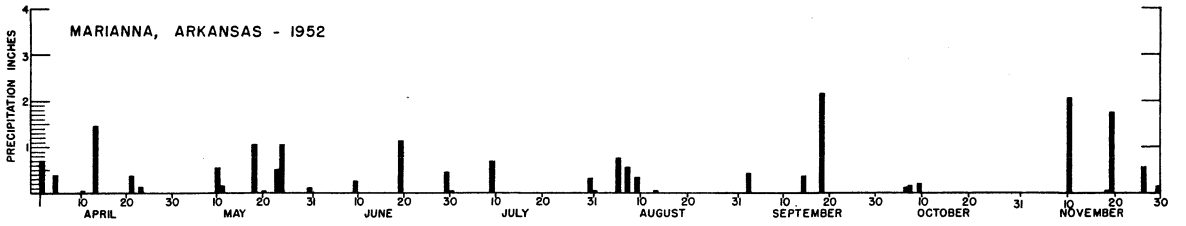

GAINESVILLE, FLORIDA - 1952
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

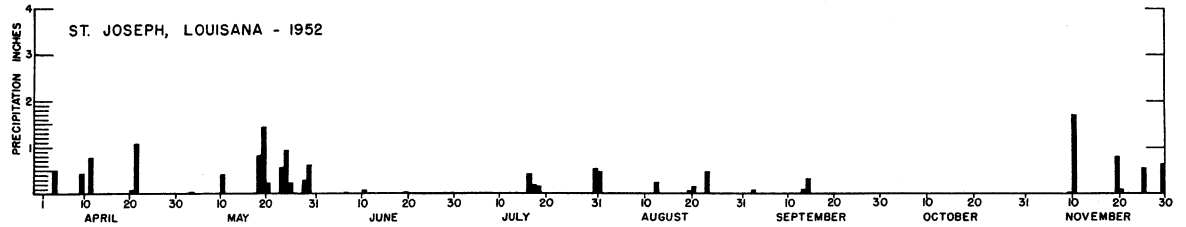

EXPERIMENT, GEORGIA - 1952
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

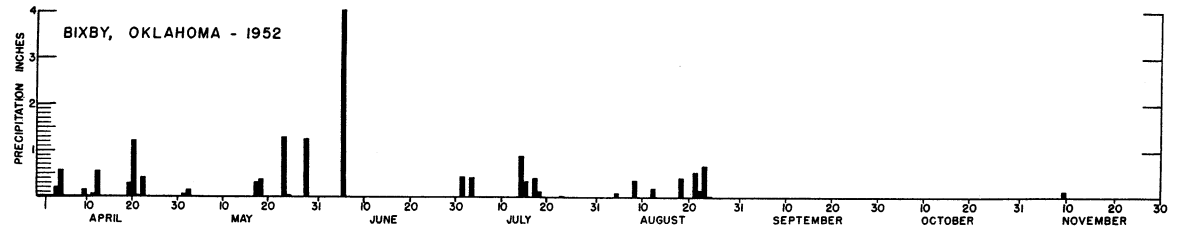

STATE COLLEGE, MISSISSIPPI - 1952
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

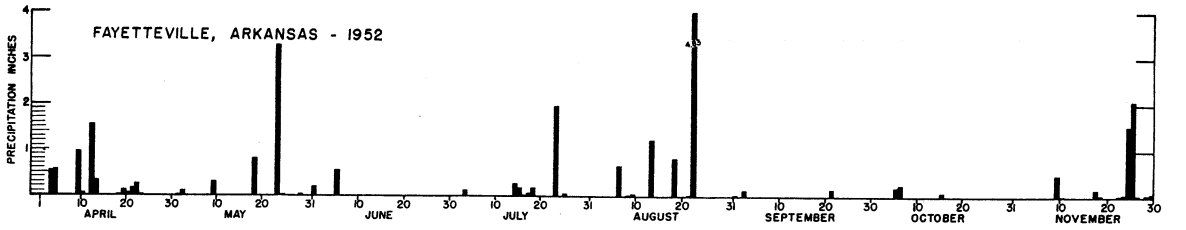

KNOXVILLE, TENNESSEE - 1952
DATA NOT AVAILABLE FOR NOVEMBER
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

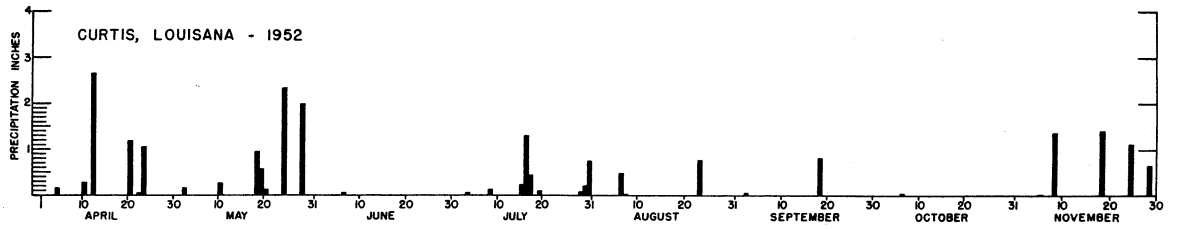

CLARKEDALE, ARKANSAS - 1952
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

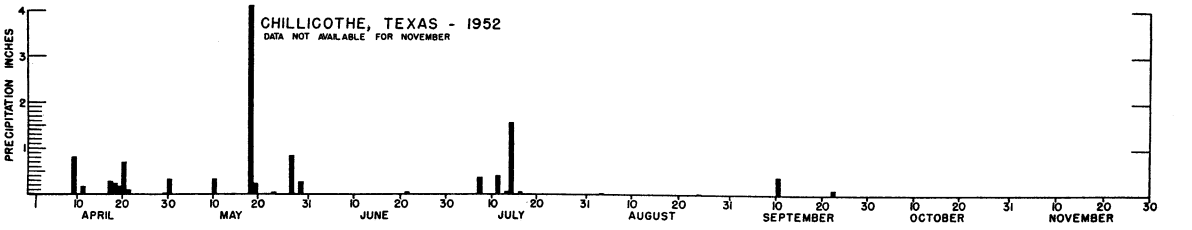

MARIANNA, ARKANSAS - 1952
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER

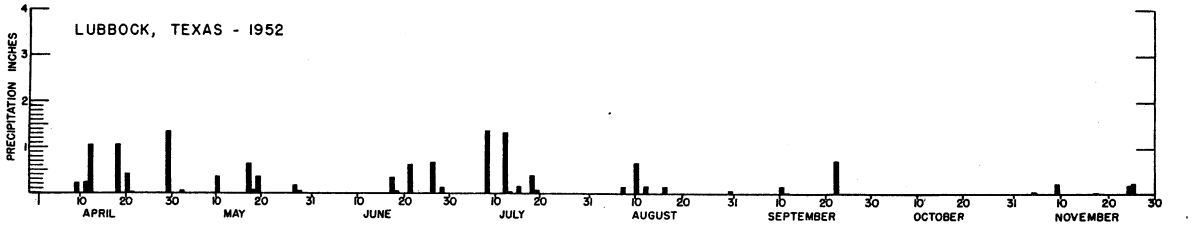

ST. JOSEPH, LOUISANA - 1952
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER


BIXBY, OKLAHOMA - 1952
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER


FAYETTEVILLE, ARKANSAS - 1952
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER


CURTIS, LOUISANA - 1952
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER


CHILLICOTHE, TEXAS - 1952
DATA NOT AVAILABLE FOR NOVEMBER
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER


LUBBOCK, TEXAS - 1952
PRECIPITATION INCHES
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER