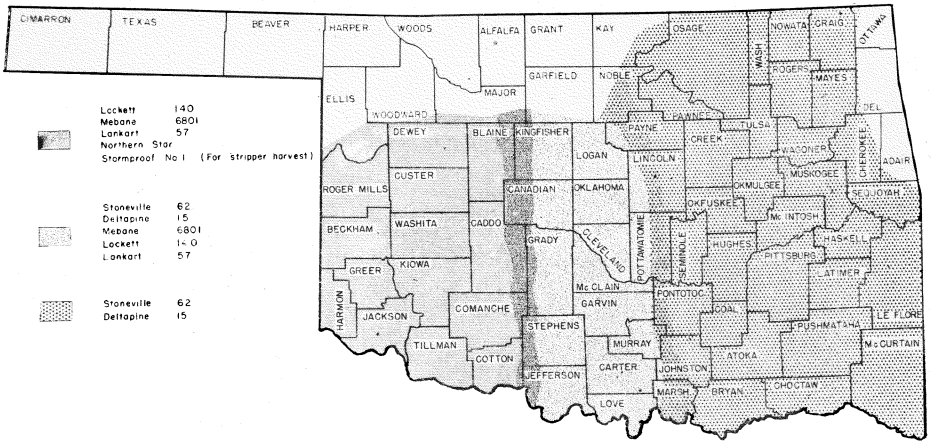




# Oklahoma Cotton Variety Tests, 1944 to 1948

By

I. M. PARROTT, N. M. GOBER, Jr., and J. M. GREEN



Varieties recommended for cotton producing areas in Oklahoma.

**OKLAHOMA AGRICULTURAL EXPERIMENT STATION**

Oklahoma Agricultural and Mechanical College

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in cooperation with

**BUREAU OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL  
ENGINEERING**

United States Department of Agriculture



## SUMMARY

Average data on cotton varieties tested at four locations in Oklahoma during the five-year period 1944 to 1948 are presented. Detailed data on all varieties tested during this period are included in the appendix, pages 14 to 44.

On the basis of results obtained, the following varieties are recommended for Oklahoma:

<b>Western Oklahoma</b>	<b>Central Oklahoma</b>	<b>Eastern Oklahoma</b>
Mebane 6801	Stoneville 62	Stoneville 62
Lockett 140	Deltapine 15	Deltapine 15
*Lankart 57	Mebane 6801	
*Northern Star	Lockett 140	
**Stormproof No. 1	*Lankart 57	

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\* Lankart 57 and Northern Star are better adapted to tight upland than to bottomland soils.

\*\* Stormproof No. 1 is recommended only for mechanical stripping.

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# Oklahoma Cotton Variety Tests, 1944 to 1948

by

I. M. PARROTT, N. M. GOBER, Jr., and J. M. GREEN.\*

Cotton varieties have been tested at a number of locations in Oklahoma for many years. Results of these tests have been summarized periodically. Because of minor modifications of existing varieties by cotton breeders, and because of the appearance of new varieties, these tests are needed every year. Also because of these changes in varieties, it is not desirable to extend averages over a long period of years, as can be done with self-pollinated crops like the small grains. On the other hand little confidence can be placed in the results obtained in a single year. It therefore seemed desirable to consider data covering a period of five years in summarizing information available on cotton variety tests in Oklahoma.

During the five-year period, 1944 through 1948, tests were conducted at Tipton, Lawton, Chickasha, and Perkins. Tipton and Lawton are representative of different soil types of Western Oklahoma. Chickasha is somewhat intermediate between Eastern and Western Oklahoma, and Perkins is the eastern-most location from which data are available.

## Soil Types

The soil at Tipton is a very fine sandy loam of relatively high fertility. The Lawton test was located on a tight-natured upland, dark grayish-brown, silty clay loam of medium fertility. Chickasha tests were conducted in the Washita River bottom on medium sandy loam with a high fertility level. The soil at Perkins was classified as a very fine sandy loam.

## Climatic Conditions

In interpreting the yield data from a period of years, it may be assumed that the years in which tests were conducted constitute a random sample of years. In the present report, therefore, detailed considerations of variation in rainfall and temperature have been omitted. Average monthly data on rainfall and mean temperature for the five years in which tests were

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\* Parrott is Superintendent, Oklahoma Cotton Research Station, Chickasha; and Gober is Cotton Laboratory Technician at Stillwater. The tests reported in this publication were conducted by Henry E. Dunlavy, Agronomist, and Agent, U.S.D.A. Dunlavy resigned June 15, 1949, and was succeeded by Green, who is responsible for the present arrangement of this publication.

## TEMPERATURE AND RAINFALL

TABLE I.—Average monthly mean temperature and rainfall data for Tipton, Lawton, Chickasha, and Perkins, Oklahoma, for the five years 1944 to 1948.

	Tipton				Lawton				Chickasha				Perkins**			
	Temperature		Precipitation		Temperature		Precipitation		Temperature		Precipitation		Temperature		Precipitation	
	Mean	Dev.*	Mean	Dev.*	Mean	Dev.	Mean	Dev.	Mean	Dev.	Mean	Dev.	Mean	Dev.	Mean	Dev.
January	39.4	-1.9	1.36	+0.30	39.5	-0.5	1.46	+0.25	37.9	-1.2	1.73	+0.62	37.7	+0.8	1.40	+0.27
February	44.4	-1.3	1.51	+0.34	44.1	+0.8	1.89	+0.65	42.4	-0.5	1.88	+0.75	42.1	+2.1	1.21	-0.06
March	51.6	-2.2	1.36	-0.40	52.4	-0.7	1.85	+0.19	50.5	-2.2	3.03	+1.05	50.6	+0.4	2.32	+0.13
April	62.4	0.0	2.42	-0.38	63.1	+1.0	3.41	+0.36	61.8	+0.5	3.96	+0.47	61.5	+1.7	4.25	+0.44
May	69.0	-1.6	3.65	-0.36	69.9	+0.2	4.13	-0.86	68.0	-1.0	4.59	-0.47	67.1	-0.8	3.16	-1.61
June	79.4	-0.1	3.95	+0.59	79.3	+0.8	3.45	-0.21	77.4	-0.9	5.38	+1.67	76.9	0.0	4.90	+0.81
July	83.1	-0.8	2.12	-0.03	82.9	+0.3	2.59	-0.08	81.3	-1.6	2.50	+0.51	80.8	-0.6	2.24	-0.44
August	84.1	-1.5	1.78	-0.29	83.7	+1.1	2.18	-0.52	82.5	-0.4	1.96	-0.56	82.3	+1.0	2.26	-0.97
September	76.3	-0.2	2.11	-0.80	75.7	+0.2	3.42	+0.20	74.5	-0.7	3.03	-0.36	74.1	+0.6	4.33	+0.81
October	65.6	+0.5	2.92	-0.12	64.9	+1.2	1.97	-1.15	64.3	+1.0	2.12	-1.00	64.5	+2.7	0.91	-2.07
November	52.5	-0.1	1.52	-0.10	51.6	+0.5	1.86	+0.10	50.2	-5.2	2.00	+0.21	50.4	+1.2	2.60	+0.37
December	43.2	+0.8	1.35	-0.07	42.6	+0.7	1.29	-0.37	40.8	-0.3	1.22	-0.30	40.0	+1.2	0.94	-0.51
Annual	62.6	-0.7	26.05	-1.32	62.5	+0.6	29.50	-1.44	61.0	-0.6	33.40	+2.59	60.7	+0.9	30.52	-2.83

\* Deviations based on long-time averages at Frederick.

\*\* Weather data from Stillwater.

conducted are given in Table I. Deviations from long time averages in both temperature and rainfall are also shown.

Mean temperatures are progressively lower from west to east within the State, and the five-year averages for the entire year ranged from 62.6 degrees F. at Tipton to 60.7 degrees F. at Perkins. Temperatures during the growing season showed differences of similar magnitude.

Rainfall for the five years being considered was below normal at all locations except Chickasha. Most of the excess at Chickasha occurred during the months of June, July, and September of 1945. Rainfall for the balance of the period was not greatly different from the long-time average.

### **Procedures**

Variation in soil type and fertility level as well as in climatic conditions among locations resulted in almost unique results for each test location. For this reason, the results obtained at different locations were not averaged.

Within locations, seasonal variations were eliminated by adjusting the yields of varieties tested less than five years to the mean level of those varieties tested all five years. Average data on varieties tested two or more years are included in Tables II to V, inclusive. Tables containing annual and average data on all varieties tested are included in the appendix.

Certain procedures were common to all tests. Yield data were based on three to six replicates. Lint percent, boll size, and staple length were determined on boll samples from two or more replicates. Staple length was determined by licensed classifiers. Rows were 40 inches apart and stands were thinned to one plant every 15 inches in all tests.

### **Varietal Comparisons**

Mebane 140 is especially well adapted to Western Oklahoma. The four highest yields at Tipton were all made by strains of this variety. One of these strains, Mebane 6801, was developed by the Oklahoma Agricultural Experiment Station. Lockett 140 is another strain of the same variety; it is produced and sold by a Texas seed company. The variety designated "Mebane 140 Station" is not in commercial production but is carried as a check. Mebane 140 is a close fruiting variety of medium maturity with excellent fiber which usually is classed 28/ to 30/32 of an inch. Experience has shown this variety to be better than average in its storm-proof qualities.

Mebane 6801 was tied for highest yield at Lawton. Mebane 140 was fourth and Lockett 140 was sixth. These strains performed satisfactorily at Chickasha, but apparently were not well adapted at Perkins.

Deltapine 15 was second in lint yield at Lawton, and it compared favorable with Mebane 140 at Tipton and Chickasha. It was no better than Lockett 140 at Perkins. Deltapine 15 is characterized by a larger plant with more branches than Mebane 140. Its small bolls are partly responsible for its being unpopular in Western Oklahoma. Although often classed as inch cotton, Deltapine 15 has a high lint percent, and it cleans well in ginning.

Lankart 57 was tied for high lint yield at Lawton, while at Tipton, Chickasha, and Perkins it was consistently lower than either Mebane 140 or Deltapine 15. Apparently this variety is limited to a narrower range of adaptation than are the other two varieties mentioned. Lankart 57 fruits over a long period and is slow maturing; therefore it must be planted early in order to utilize the full season. It has excellent fiber, usually 31/32 inches, that cleans well in ginning. It has a very large boll and is highly storm resistant.

Northern Star was similar to Lankart 57 in its yield response at the various locations. It is characterized by smaller bolls and longer fiber than Lankart.

Watson, a strain of Mebane, is a slow fruiting, late maturing, large balled, storm resistant variety, similar to Lankart 57 in many respects. Its fiber is usually 1/32 shorter than Lankart. Watson was not outstanding in lint yield at any of the test locations.

Half and Half and Hi-Bred have only fair yield records at Tipton and Lawton but compared very favorably at Chickasha and Perkins. They are moderately close fruiting varieties characterized by short wiry lint, 26/ to 28/32 of an inch, and exceptionally high lint percent. Experience has been that these varieties yield a high grade at the gin. These varieties generally produce lint which is untenderable because of its short staple length.

Stoneville 62 is a variety selected out of Stoneville 2B at the Oklahoma Agricultural Experiment Station. Stoneville 62 strains have been among the highest yielding varieties tested at Perkins. Two strains tested at Chickasha compared favorably with Deltapine 15 and Mebane 140, while at Tipton and Lawton the strains tested were approximately equal to Half and Half in lint yield. Stoneville 62 appears to be better ad-



adapted to the central and eastern portion of Oklahoma. It is characterized by a medium close fruiting plant and moderately coarse fiber, usually classed 31/32 to an inch. Strain numbers carried on Stoneville 62 in these tests are dropped when the seed go into commercial production.

Stormproof No. 1 and Macha are unique in having burs that do not open fully and in having the lint knitted in the bur. Consequently they are not adapted to picking; but they are of considerable interest as varieties especially adapted to harvesting with a mechanical stripper. Stormproof No. 1 has had a slightly more spreading growth type, slightly longer lint, and higher lint yield than Macha in the Oklahoma tests.

A group of long staple varieties adapted only to picking were included in some of the tests. Of these, Empire had the best yield record. Other varieties in this group were Delfos 9169, Stoneville 2B, Coker 100 Wilt, Wilds, Ambassador, Bobshaw 1, Paula, Acala 4-42, and Acala 1517 Wilt. Experience to date indicates that the length and fineness of lint of these varieties make them unadapted to Oklahoma harvesting methods.

#### **New Strains**

New strains of cotton are included in these tests in order to compare them with the varieties in commercial production. Those developed by the Oklahoma Agricultural Experiment Station which are in limited production are Oklahoma Special (Acala 6566-18), CR-1, and CR-2.

Oklahoma Special is a small balled, rapid fruiting, early maturing variety with good lint that classes 30/ 31/32 of an inch. It has yielded well in Central Oklahoma bottomlands as a result of its maturity. Its early maturity has made it a good variety for late planting. Because of its lack of storm resistance, no foundation seed of Oklahoma Special will be sold by the Experiment Station.

CR-1 is characterized by a prominent central stalk and short lateral branches, resulting in a close fruiting habit. It is intermediate between Oklahoma Special and Mebane 140 in maturity and storm resistance. CR-2 is a sister selection of CR-1 that has shorter staple, 7/8 to 29/32 of an inch, shorter stalk, more compact boll, and somewhat more storm resistance than CR-1. Seed of these two varieties will be available in limited quantities for experimental plantings in 1950. Seed from these experimental plantings will not be eligible for certification.

Nucala 7480 shows considerable promise in the comparative tests but has not yet been increased.

## TIPTON AVERAGES

TABLE II.—Average data obtained on 25 varieties of cotton tested two to five years at Tipton, Oklahoma, during the period 1944 through 1948.

VARIETY	Lbs. Lint per Acre	Staple in 32's	Lint Percent		Grams per Boll	Pct. Picked 1st Pick.	Years Tested
			Picked	Pulled			
<b>Mebane 6801-2-1</b>	308	28	39.9	31.2	6.0	52.9	3
Mebane 6801-2-5	301	28	40.5	31.2	5.4	56.0	2
<b>Lockett 140</b>	296	29	39.6	30.7	5.3	53.7	5
Mebane 140 Sta.	291	29	39.3	29.9	5.3	55.3	5
Nucala 7480	284	30	40.0	30.3	5.0	58.9	3
CR-2	274	29	41.7	31.5	5.2	62.8	2
<b>Deltapine 15</b>	269	32	41.2	30.6	4.5	57.8	5*
<b>Stormproof #1</b>	264	30	37.4	28.6	5.2	52.6	2
<b>Watson</b>	263	30	37.6	28.7	6.6	44.6	5
<b>Hi-Bred</b>	260	26	41.1	32.6	5.1	64.5	5
CR-1	260	30	38.9	29.0	5.5	65.9	3
<b>Paula</b>	256	32	35.1	27.1	5.2	58.0	3
<b>Stoneville 62-84</b>	250	31	36.8	27.8	4.8	81.5	2
<b>Half and Half</b>	249	26	41.2	32.4	5.1	63.4	5
<b>Stoneville 2B</b>	249	32	35.8	27.6	5.4	62.2	5
<b>Acala 6566-18 (Okla.Sp.)</b>	248	31	39.4	29.8	4.6	61.6	4
<b>Lankart 57</b>	245	31	38.7	29.0	6.5	56.2	5
<b>Northern Star</b>	240	32	37.6	28.7	5.6	62.8	4
<b>Paymaster</b>	231	30	37.8	28.7	5.4	77.2	2
<b>Delfos 9169</b>	227	33	36.7	27.8	5.1	49.7	2
<b>Dortch #1</b>	219	31	34.8	25.9	6.3	60.2	2
Acala 8	210	33	39.4	29.1	5.4	48.9	2
<b>Watson's New Rowden</b>	209	31	34.7	25.8	6.0	63.2	3
<b>Macha</b>	202	29	34.1	25.9	4.9	56.9	4
Acala P-18-C	139	33	37.7	27.7	5.5	47.9	2

\* Data for 1944-46 were on Deltapine 14.

NOTE: Seed is commercially available for varieties printed in blackface type.

## LAWTON AVERAGES

TABLE III.—Average data obtained on 21 varieties of cotton tested two to five years at Lawton, Oklahoma, during the period 1944 through 1948.

VARIETY	Lbs. Lint Staple per Acre in 32's	Lint Percent		Grams per Boll	Pct. Picked 1st Pick.	Years Tested	
		Picked	Pulled				
<b>Lankart 57</b>	270	31	40.1	30.3	6.7	65.9	5
<b>Mebane 6801-2-1</b>	270	28	40.5	31.5	5.7	69.7	3
<b>Deltapine 15</b>	265	32	41.3	31.3	4.7	73.8	5*
Okla. Triumph 92-1-1	258	30	37.9	28.2	4.7	79.9	4
Mebane 140 Sta.	256	29	38.8	30.9	5.4	70.2	3
<b>Northern Star</b>	253	31	38.8	29.9	5.8	75.2	4
<b>Lockett 140</b>	252	28	40.2	31.8	5.4	80.0	3
<b>Acala 6566-18</b>	248	29	40.3	30.8	4.7	79.7	4
CR-1	248	31	39.2	29.4	5.6	81.9	3
<b>Stoneville 62-108</b>	247	31	38.4	29.2	4.9	77.9	2
<b>Half and Half</b>	243	26	41.9	33.0	5.2	80.3	2
<b>Watson</b>	239	30	39.7	30.6	7.0	63.5	4
<b>Hi-Bred</b>	236	26	41.9	33.5	5.2	80.0	5
Nucala 7480	233	30	41.7	31.7	5.0	79.2	5
Acala 2496	233	31	40.5	31.0	5.2	74.5	3
<b>Stoneville 2B</b>	227	32	37.0	28.6	5.3	69.9	5
Acala 892 Mass	227	30	38.6	29.4	5.9	92.7	3
<b>Macha</b>	225	28	37.6	29.1	4.9	67.4	2
<b>Roldo Rowden</b>	224	31	36.6	27.8	6.3	70.8	2
<b>Watson's New Rowden</b>	215	31	36.9	27.8	5.9	64.1	2
Acala 8	182	32	40.9	30.8	5.9	58.4	2

\* Data for 1944-46 were on Deltapine 14.

NOTE: Seed is commercially available for varieties printed in blackface type.

## CHICKASHA AVERAGES

TABLE IV.—Average data obtained on 34 varieties of cotton tested two to five years at Chickasha, Oklahoma, during the period 1944 through 1948.

VARIETY	Lbs. Lint Staple per Acre in 32's	Lint Percent		Grams per Boll	Pct. Picked 1st Pick.	Years Tested	
		Picked	Pulled				
Nucala 7480	344	31	38.8	29.2	5.7	75.6	5
<b>Empire</b>	341	33	36.2	27.1	6.8	63.6	2
<b>Acala 6566-18 (Okla.Sp.)</b>	336	31	38.4	29.0	5.5	71.9	5
CR-1	333	31	38.1	28.2	6.8	72.8	4
<b>Stormproof #1</b>	331	29	38.3	29.1	5.6	63.4	3
<b>Half and Half</b>	327	28	40.3	31.5	6.0	72.6	3
<b>Hi-Bred</b>	326	27	40.9	32.3	5.9	72.5	5
Mebane 140 Sta.	323	30	38.3	29.3	6.0	61.5	3
CR-2	319	31	40.5	30.4	5.5	66.5	2
Acala 892 Mass	316	30	36.6	27.2	6.6	71.3	3
<b>Lockett 140</b>	314	29	38.8	30.3	5.8	73.7	5
<b>Deltapine 15</b>	312	32	40.6	29.7	4.8	60.0	5*
<b>Stoneville 62-84</b>	312	32	36.1	28.0	5.5	73.6	3
Acala 5675	307	33	39.4	28.6	5.4	72.3	3
<b>Paula</b>	306	33	35.1	27.0	6.2	51.4	3
<b>Stoneville 62-108</b>	306	32	35.8	27.0	5.6	73.1	2
<b>Paymaster</b>	297	30	37.2	28.2	6.4	79.9	3
<b>Mebane 6801-2-1</b>	294	29	38.4	29.1	6.5	64.9	4
<b>Watson</b>	294	31	37.7	28.8	7.4	53.1	4
Acala 2496	292	31	39.3	29.7	5.8	69.8	3
<b>Northern Star</b>	291	32	37.0	28.2	6.3	71.1	5
<b>Watson's New Rowden</b>	287	32	35.9	26.7	7.1	65.2	4
Acala 8	287	33	39.5	29.3	6.4	58.0	2
Okla. Triumph 92-1-1	285	30	37.0	27.6	5.5	70.5	3
<b>Delfos 9169</b>	280	35	35.1	26.4	6.0	55.3	2
<b>Stoneville 2B</b>	271	32	34.8	26.6	5.9	64.4	5
<b>Lankart 57</b>	265	32	37.2	27.3	7.2	55.6	4
<b>Acala 4-42</b>	263	35	38.3	27.3	5.8	56.7	2
<b>Rowden 41B</b>	262	32	35.0	25.8	6.7	66.9	3
<b>Roldo Rowden</b>	262	32	36.1	26.7	7.3	70.4	2
<b>Coker 100 wilt</b>	260	35	34.9	26.1	5.6	60.0	2
<b>Acala 1517 wilt</b>	205	34	34.2	24.9	6.0	56.6	2
<b>Coker Wilds</b>	203	38	31.3	22.5	5.3	65.9	2
Acala P-18-C	182	34	37.5	27.9	6.5	52.6	2

\* Data for 1944-46 were on Deltapine 14.

NOTE: Seed is commercially available for varieties printed in blackface type.

## PERKINS AVERAGES

TABLE V.—Average data obtained on 25 varieties tested two to five years at Perkins, Oklahoma, during the period 1944 through 1948.

VARIETY	Lbs. Lint Staple per Acre in 32's	Lint Percent		Grams per Boll	Pct. Picked 1st Pick.*	Years Tested	
		Picked	Pulled				
<b>Empire</b>	324	33	35.5	36.9	6.4	35.0	3
<b>Stoneville 62-84</b>	308	32	36.0	28.0	5.6		3
<b>Hi-Bred</b>	304	27	41.3	32.9	5.8	52.3	5
Mebane 140 Sta.	303	30	37.9	29.7	5.9		3
<b>Stoneville 62-84</b>	300	32	35.9	27.3	5.5	38.4	3
<b>Half and Half</b>	296	29	41.6	33.0	5.8	44.5	2
<b>Stoneville 62-108</b>	294	32	35.6	27.0	5.6		3
D & PL Fox	291	34	35.7	27.3	5.0	31.5	2
CR-1	282	32	37.1	27.9	6.3	32.2	4
Okla. Triumph 92-1-1	282	32	34.9	26.2	5.1		3
Acala 892 Mass	265	32	36.3	27.2	6.4		3
<b>Deltapine 15**</b>	263	33	38.9	29.0	4.7	26.5	5**
<b>Lockett 140</b>	263	29	38.6	30.9	5.9	25.1	3
Acala 6566-18 (Okla.Sp.)	259	31	38.1	29.1	5.1	33.9	5
Acala 2496	256	33	37.6	28.6	5.4		3
<b>Watson's New Rowden</b>	254	31	34.6	26.0	6.7	26.6	5
<b>Northern Star</b>	252	32	36.0	27.5	6.2	27.8	4
<b>Lankart 57</b>	252	33	36.2	27.6	7.3	10.6	3
<b>Ambassador</b>	248	31	33.6	26.6	6.3		2
<b>Mebane 6801-2-1</b>	247	29	38.5	30.1	6.3	9.4	2
<b>Stoneville 2B</b>	241	33	33.7	25.9	5.7	23.6	5
<b>Delfos 9169</b>	234	34	34.4	26.2	5.6	23.0	4
<b>Watson</b>	212	31	36.9	28.7	7.2	2.1	5
<b>Bobshaw 1</b>	178	34	32.3	24.7	5.2	18.1	2
Acala P-18-C	161	34	37.6	28.7	6.8	15.9	2

\* Data for 1948 only.

\*\* Data for 1944-46 were on Deltapine 14.

NOTE: Seed is commercially available for varieties printed in blackface type.

### APPENDIX

Annual and average data on all varieties and strains tested during the past five years are included in the appendix. The following key will serve as an index to the appendix tables:

	Table Number			
	<i>Tipton</i>	<i>Lawton</i>	<i>Chickasha</i>	<i>Perkins</i>
Lint yield per acre	1	7	13	19
Staple length	2	8	14	20
Lint percent of picked cotton	3	9	15	21
Lint percent of pulled cotton	4	10	16	22
Boll size	5	11	17	23
Earliness	6	12	18	24

Table 25 contains a list of sources of seed planted in the cotton variety tests, 1944 through 1948.

## TIPTON—YIELD

TABLE 1.—Annual and average yields of lint per acre of cotton varieties tested at Tipton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 8 varieties same Yrs.
Lockett 140	359	218	284	253	364	296	265
Mebane 140 Sta.	384	225	225	270	350	291	265
Deltapine 15	322*	200*	218*	248	359	269	265
Watson	341	156	255	275	286	263	265
Hi-Bred	319	221	188	244	326	260	265
Half and Half	321	215	187	233	287	249	265
Stoneville 2B	302	263	168	218	296	249	265
Lankart 57	293	192	168	241	331	245	265
Acala 6566-18		173	193	247	316	232	249
Northern Star		190	172	238	294	224	249
Mebane 6801-2-1			294	257	361	304	261
CR-1			190	253	325	256	261
Nucala 7480	305	321			298	308	289
Macha	273	144		177	269	216	279
Watson's New Rowden		164	112		302	193	249
Mebane 6801-2-5				278	365	322	286
CR-2				252	338	295	286
Acala, 8	303				242	273	328
Delfos 9169		171			289	230	268
Acala P-18-C		103			181	142	268
Stoneville 62-1-0-0-84			162		343	253	268
Paymaster			153		314	234	268
Stoneville 62-1-8					355	355	325
D & PL Fox					342	342	325
Empire					334	334	325
Wacona					321	321	325
Coker 100 wilt					312	312	325
Western Prolific					308	308	325
Paula		245	185	214		215	224
Stormproof #1			214	243		229	230
Dortch #1			142	226		184	230
Roldo Rowden			114			114	212

\* Deltapine 14.

## TIPTON—STAPLE LENGTH

TABLE 2.—Annual and average staple lengths of cotton varieties tested at Tipton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 8 varieties same Yrs.
Lockett 140	29	29	29	28	28	29	30
Mebane 140 Sta.	30	30	29	29	29	29	30
Deltapine 15	32*	33*	32*	32	31	32	30
Watson	30	30	30	30	31	30	30
Hi-Bred	26	26	28	26	26	26	30
Half and Half	26	26	26	26	26	26	30
Stoneville 2B	32	33	32	32	33	32	30
Lankart 57	30	31	31	32	32	31	30
Acala 6566-18		31	30	30	31	31	30
Northern Star		33	32	32	32	32	30
Mebane 6801-2-1			29	28	28	28	30
CR-1			30	30	30	30	30
Nucala 7480	30	30			31	30	30
Macha	28	28		30	29	29	30
Watson's New Rowden		32	31		31	31	30
Mebane 6801-2-5				28	28	28	29
CR-2				29	28	29	29
Acala 8	32				33	33	29
Delfos 9169		33			33	33	30
Acala P-18-C		33			33	33	30
Stoneville 62-1-0-0-84			30		31	31	30
Paymaster			30		30	30	30
Stoneville 62-1-8					32	32	30
D & PL Fox					31	31	30
Empire					33	33	30
Wacona					31	31	30
Coker 100 wilt					36	36	30
Western Prolific					30	30	30
Paula		32	31	33		32	30
Stormproof #1			29	30		30	30
Dortch #1			31	31		31	30
Roldo Rowden			31			31	30

\* Deltapine 14.



## TIPTON—LINT PERCENT; PICKED

TABLE 3.—Annual and average determinations of lint percent of picked cotton in varieties tested at Tipton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 8 varieties same Yrs.
Lockett 140	40.6	39.4	38.2	41.1	39.1	39.7	39.4
Mebane 140 Sta.	40.1	38.9	38.0	40.9	38.9	39.4	39.4
Deltapine 15	43.5*	39.4*	40.7*	43.3	39.6	41.3	39.4
Watson	38.7	35.0	37.9	40.7	36.0	37.7	39.4
Hi-Bred	40.1	41.9	40.4	43.2	40.2	41.2	39.4
Half and Half	41.3	42.0	41.2	41.6	40.5	41.3	39.4
Stoneville 2B	36.3	35.8	35.2	36.5	35.8	35.9	39.4
Lankart 57	39.9	36.1	40.2	41.4	36.3	38.8	39.4
Acala 6566-18		38.1	38.5	41.9	38.6	39.3	39.2
Northern Star		37.2	37.1	40.0	35.8	37.5	39.2
Mebane 6801-2-1			40.3	41.0	39.0	40.1	39.5
CR-1			38.3	40.8	38.1	39.1	39.5
Nucala 7480	40.6	38.9			39.7	39.7	39.0
Macha	33.7	35.5		34.3	33.7	34.3	39.5
Watson's New Rowden		33.5	34.3		34.2	34.0	38.6
Mebane 6801-2-5				41.9	39.8	40.9	39.7
CR-2				42.7	41.5	42.1	39.7
Acala 8	40.9				37.7	39.3	39.2
Delfos 9169		36.1			35.5	35.8	38.4
Acala P-18-C		36.6			37.0	36.8	38.4
Stoneville 62-1-0-0-84			35.9		36.2	36.1	38.6
Paymaster			36.7		37.4	37.1	38.6
Stoneville 62-1-8					36.4	36.4	38.3
D & PL Fox					36.3	36.3	38.3
Empire					35.5	35.5	38.3
Wacona					35.7	35.7	38.3
Coker 100 wilt					34.9	34.9	38.3
Western Prolific					39.9	39.9	38.3
Paula		35.6	34.7	35.7		35.3	39.5
Stormproof #1			37.6	38.6		38.1	40.0
Dortch #1			33.0	37.9		35.5	40.0
Roldo Rowden			34.4			34.4	39.0

\* Deltapine 14.

## TIPTON—LINT PERCENT; PULLED

TABLE 4.—Annual and average determinations of lint percent of pulled cotton in varieties tested at Tipton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 8 varieties same Yrs.
Lockett 140	32.0	29.6	30.2	31.7	30.5	30.8	30.3
Mebane 140 Sta.	30.8	28.9	29.9	30.7	29.5	30.0	30.3
Deltapine 15	32.5*	29.4*	30.8*	31.2	29.5	30.7	30.3
Watson	29.8	26.7	29.2	30.8	27.3	28.8	30.3
Hi-Bred	32.1	33.2	32.7	33.9	31.8	32.7	30.3
Half and Half	32.6	33.0	33.0	32.6	31.5	32.5	30.3
Stoneville 2B	28.5	27.4	27.4	27.5	27.6	27.7	30.3
Lankart 57	29.9	27.2	30.4	30.8	27.1	29.1	30.3
Acala 6566-18		28.5	29.3	31.6	29.2	29.7	30.1
Northern Star		28.3	28.5	30.4	27.2	28.6	30.1
Mebane 6801-2-1			31.8	31.4	30.6	31.3	30.3
CR-1			28.7	30.2	28.4	29.1	30.3
Nucala 7480	31.3	29.1			29.6	30.0	29.9
Macha	25.6	26.5		25.9	25.4	25.9	30.2
Watson's New Rowden		24.4	25.9		25.7	25.3	29.7
Mebane 6801-2-5				32.1	30.4	31.3	30.3
CR-2				31.6	31.5	31.6	30.3
Acala 8	30.8				27.3	29.1	30.2
Delfos 9169		27.0			27.0	27.0	29.4
Acala P-18-C		26.8			27.0	26.9	29.4
Stoneville 62-1-0-0-84			27.6		27.4	27.5	29.9
Paymaster			28.4		28.3	28.4	29.9
Stoneville 62-1-8					27.8	27.8	29.4
D & PL Fox					27.4	27.4	29.4
Empire					26.9	26.9	29.4
Wacona					27.5	27.5	29.4
Coker 100 wilt					26.6	26.6	29.4
Western Prolific					30.5	30.5	29.4
Paula		27.4	27.1	27.1		27.2	30.3
Stormproof #1			29.5	28.9		29.2	30.8
Dortch #1			25.0	27.9		26.5	30.8
Roldo Rowden			26.0			26.0	30.5

\* Deltapine 14.

## TIPTON—BOLL SIZE

TABLE 5.—Annual and average boll sizes expressed as grams per boll for varieties tested at Tipton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 8 varieties same Yrs.
Lockett 140	5.0	5.7	5.0	5.0	5.6	5.3	5.5
Mebane 140 Sta.	5.1	6.0	4.9	5.2	5.3	5.3	5.5
Deltapine 15	4.1*	5.1*	4.3*	4.2	4.6	4.5	5.5
Watson	6.2	7.5	6.1	6.6	6.5	6.6	5.5
Hi-Bred	4.6	6.0	4.6	5.1	5.4	5.1	5.5
Half and Half	4.6	5.8	4.9	5.1	5.1	5.1	5.5
Stoneville 2B	5.3	5.7	4.9	5.4	5.5	5.4	5.5
Lankart 57	5.7	7.8	6.0	6.3	6.9	6.5	5.5
Acala 6566-18		5.1	4.4	4.6	4.5	4.7	5.6
Northern Star		6.4	5.2	5.5	5.5	5.7	5.6
Mebane 6801-2-1			5.7	5.9	6.5	6.0	5.4
CR-1			4.9	5.6	5.8	5.4	5.4
Nucala 7480	4.7	5.6			5.0	5.1	5.6
Macha	4.6	5.6		4.9	5.0	5.0	5.6
Watson's New Rowden		6.4	5.7		6.1	6.1	5.6
Mebane 6801-2-5				5.3	5.5	5.4	5.5
CR-2				5.0	5.4	5.2	5.5
Acala 8	5.1				5.3	5.2	5.3
Delfos 9169		5.6			5.4	5.5	5.9
Acala P-18-C		6.3			5.4	5.9	5.9
Stoneville 62-1-0-0-84			4.4		5.0	4.7	5.4
Paymaster			5.1		5.5	5.3	5.4
Stoneville 62-1-8					5.6	5.6	5.6
D & PL Fox					4.5	4.5	5.6
Empire					6.0	6.0	5.6
Wacona					5.3	5.3	5.6
Coker 100 wilt					5.1	5.1	5.6
Western Prolific					5.5	5.5	5.6
Paula		5.5	5.0	5.4		5.3	5.6
Stormproof #1			4.8	4.9		4.9	5.2
Dortch #1			5.6	6.3		6.0	5.2
Roldo Rowden			5.7			5.7	5.1

\* Deltapine 14.

## TIPTON—EARLINESS

TABLE 6.—Annual and average earliness data expressed as percent of crop harvested in the first picking of varieties tested at Tipton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 8 varieties same Yrs.
Lockett 140	75.9	84.4	43.3	46.3	42.3	58.4	61.9
Mebane 140 Sta.	75.6	90.1	58.2	41.7	34.6	60.0	61.9
Deltapine 15	79.7*	88.7*	69.2*	36.3	38.6	62.5	61.9
Watson	69.9	83.6	34.5	38.5	20.0	49.3	61.9
Hi-Bred	78.0	91.4	62.5	67.0	47.5	69.2	61.9
Half and Half	80.1	90.4	68.2	58.4	43.4	68.1	61.9
Stoneville 2B	87.8	91.3	76.2	36.6	42.5	66.9	61.9
Lankart 57	86.3	89.0	61.2	40.4	27.6	60.9	61.9
Acala 6566-18		86.0	56.9	66.2	38.9	62.0	57.6
Northern Star		90.7	63.4	60.2	38.5	63.2	57.6
Mebane 6801-2-1			45.2	51.7	32.2	43.0	47.3
CR-1			62.3	66.2	39.6	56.0	47.3
Nucala 7480	87.4	79.9			42.8	70.0	68.3
Macha	66.9	86.4		65.1	30.8	62.3	62.6
Watson's New Rowden		86.2	80.1		36.4	67.6	61.6
Mebane 6801-2-5				48.1	32.3	40.2	41.4
CR-2				57.2	36.8	47.0	41.4
Acala 8	73.2				26.4	49.8	58.1
Delfos 9169		85.1			25.5	55.3	62.8
Acala P-18-C		86.0			21.0	53.5	62.8
Stoneville 62-1-0-0-84			91.7		53.0	72.4	48.1
Paymaster			79.5		56.6	68.1	48.1
Stoneville 62-1-8					41.7	41.7	37.1
D & PL Fox					48.0	48.0	37.1
Empire					37.6	37.6	37.1
Wacona					34.6	34.6	37.1
Coker 100 wilt					30.0	30.0	37.1
Western Prolific					31.3	31.3	37.1
Paula		86.3	72.5	37.0		65.3	64.5
Stormproof #1			60.5	35.0		47.8	52.4
Dortch #1			58.7	52.1		55.4	52.4
Roldo Rowden			77.6			77.6	59.2

\* Deltapine 14.

## LAWTON—YIELD

TABLE 7.—Annual and average yields of lint per acre of cotton varieties tested at Lawton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 5 varieties same Yrs.
Lankart 57	256	430	150	166	396	280	256
Deltapine 15	246*	437*	159*	127	406	275	256
Hi-Bred	210	404	111	151	353	246	256
Nucala 7480	250	324	130	146	365	243	256
Stoneville 2B	210	389	139	132	317	237	256
Okla. Triumph 92-1-1		401	135	140	419	274	262
Northern Star		428	121	158	367	269	262
Acala 6566-18		398	122	150	387	264	262
Watson		318	130	166	405	255	262
Mebane 6801-2-1			124	149	451	241	217
CR-1			135	145	378	219	217
Lockett 140		401		156	369	309	303
Half and Half				151	355	253	256
Macha	223				337	280	301
Watson's New Rowden				134	315	225	256
Acala 8	210				263	237	301
Wacona					393	393	367
Stoneville 62-1-8					380	380	367
Empire					358	358	367
Stoneville 62-1-0-0-108			133	150		142	141
Stoneville 62-1-0-0-84			150			150	138
Stoneville 62-1	252					252	234
Mebane 140 Sta.	252		132	162		182	172
Dortch #1				144		144	144
Stormproof #1				141		141	144
Paula				124		124	144
Acala 892 Mass.	222	354	136			237	256
Acala 2496	209	408	113			243	256
Roldo Rowden	223		104			164	186
Rowden 41B		395				395	397
Acala P-18-C		223				223	397
Delfos 9169	225					225	397
Ambassador	202					202	397

\* Deltapine 14.

## LAWTON—STAPLE LENGTH

TABLE 8.—Annual and average staple lengths of cotton varieties grown at Lawton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 5 varieties same Yrs.
Lankart 57	30	32	30	32	32	31	30
Deltapine 15	31*	34*	31*	32	31	32	30
Hi-Bred	24	28	26	26	26	26	30
Nucala 7480	29	30	29	30	30	30	30
Stoneville 2B	31	34	32	32	33	32	30
Okla. Triumph 92-1-1		32	30	30	31	31	31
Northern Star		32	31	32	32	32	31
Acala 6566-18		31	29	30	30	30	31
Watson		31	30	31	31	31	31
Mebane 6801-2-1			28	28	29	28	30
CR-1			30	31	31	31	30
Lockett 140		29		28	29	29	31
Half and Half				26	26	26	30
Macha	28				28	28	30
Watson's New Rowden				31	31	31	30
Acala 8	31				33	32	30
Waona					31	31	30
Stoneville 62-1-8					31	31	30
Empire					33	33	30
Stoneville 62-1-0-0-108			30	31		31	30
Stoneville 62-1-0-0-84			30			30	30
Stoneville 62-1	31					31	29
Mebane 140 Sta.	28		29	29		29	30
Dortch #1				31		31	30
Stormproof #1				29		29	30
Paula				33		33	30
Acala 892 Mass.	30	32	29			30	30
Acala 2496	31	32	31			31	30
Roldo Rowden	30		30			30	29
Rowden 41B		30				30	32
Acala P-18-C		33				33	32
Delfos 9169	32					32	29
Ambassador	30					30	29

\* Deltapine 14.

## LAWTON—LINT PERCENT; PICKED

TABLE 9.—Annual and average determinations of lint percent of picked cotton in varieties tested at Lawton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg. Avg. for 5 varieties same Yrs.	
Lankart 57	38.9	36.8	42.3	40.7	40.8	39.9	40.2
Deltapine 15	40.2*	39.3*	42.3*	41.8	42.2	41.2	40.2
Hi-Bred	39.2	41.4	43.4	42.4	42.0	41.7	40.2
Nucala 7480	40.7	39.7	42.4	42.6	41.9	41.5	40.2
Stoneville 2B	35.2	35.7	38.3	37.8	36.8	36.8	40.2
Okla. Triumph 92-1-1		35.6	39.7	36.6	40.2	38.0	40.5
Northern Star		37.8	39.0	39.8	38.9	38.9	40.5
Acala 6566-18		38.4	41.2	40.7	41.4	40.4	40.5
Watson		37.1	40.5	41.2	40.2	39.8	40.5
Mebane 6801-2-1			41.0	41.3	41.6	41.3	41.2
CR-1			40.7	39.5	39.7	40.0	41.2
Lockett 140		38.4		41.0	40.4	39.9	40.1
Half and Half				42.6	42.1	42.4	40.9
Macha	36.6				37.3	37.0	39.8
Watson's New Rowden				37.8	36.9	37.4	40.9
Acala 8	40.6				40.0	40.3	39.8
Wacona					38.6	38.6	40.7
Stoneville 62-1-8					38.5	38.5	40.7
Empire					38.6	38.6	40.7
Stoneville 62-1-0-0-108			39.2	39.6		39.4	41.4
Stoneville 62-1-0-0-84			39.8			39.8	41.7
Stoneville 62-1	36.6					36.6	38.8
Mebane 140 Sta.	39.1		40.1	40.3		39.8	40.5
Dortch #1				37.5		37.5	41.1
Stormproof #1				39.6		39.6	41.1
Paula				37.2		37.2	41.1
Acala 892 Mass.	37.4	36.1	40.3			37.9	39.7
Acala 2496	39.7	38.8	40.9			39.8	39.7
Roldo Rowden	36.1		36.9			36.5	40.3
Rowden 41B		35.5				35.5	38.6
Acala P-18-C		37.2				37.2	38.6
Delfos 9169	35.9					35.9	38.8
Ambassador	33.0					33.0	38.8

\* Deltapine 14.

## LAWTON—LINT PERCENT; PULLED

TABLE 10.—Annual and average determinations of lint percent of pulled cotton in varieties tested at Lawton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 5 varieties same Yrs.
Lankart 57	29.4	27.6	32.6	30.1	30.9	30.1	30.9
Deltapine 15	30.2*	29.8*	32.5*	30.9	32.1	31.1	30.9
Hi-Bred	31.2	32.6	35.8	33.5	33.3	33.3	30.9
Nucala 7480	30.9	29.2	33.1	32.5	31.8	31.5	30.9
Stoneville 2B	27.3	27.2	29.9	28.7	28.7	28.4	29.3
Okla. Triumph 92-1-1		26.5	30.7	25.8	29.9	28.2	31.1
Northern Star		28.9	30.4	30.1	30.0	29.9	31.1
Acala 6566-18		28.9	32.1	30.4	31.8	30.8	31.1
Watson		28.4	31.7	31.2	31.2	30.6	31.1
Mebane 6801-2-1			32.4	31.8	32.4	32.2	31.8
CR-1			31.0	29.2	30.0	30.1	31.8
Lockett 140		29.9		32.1	31.8	31.3	30.6
Half and Half				33.3	33.1	33.2	31.3
Macha	28.9				28.3	28.6	30.6
Watson's New Rowden				28.0	27.9	28.0	31.3
Acala 8	30.1				30.4	30.3	30.6
Wacona					30.0	30.0	31.4
Stoneville 62-1-8					29.8	29.8	31.4
Empire					29.5	29.5	31.4
Stoneville 62-1-0-0-108			30.2	29.9		30.1	32.0
Stoneville 62-1-0-0-84			30.8			30.8	32.8
Stoneville 62-1	28.6					28.6	29.8
Mebane 140 Sta.	30.9		31.7	30.5		31.0	31.2
Dortch #1				27.7		27.7	31.1
Stormproof #1				30.1		30.1	31.1
Paula				28.5		28.5	31.1
Acala 893 Mass.	28.4	27.0	31.2			28.9	30.6
Acala 2496	30.3	29.5	31.7			30.5	30.6
Roldo Rowden	27.7		28.3			28.0	31.3
Rowden 41B		26.4				26.4	29.3
Acala P-18-C		27.2				27.2	29.3
Delfos 9169	27.5					27.5	29.8
Ambassador	25.8					25.8	29.8

\* Deltapine 14.



## LAWTON—BOLL SIZE

TABLE 11.—Annual and average boll sizes expressed as grams per boll for varieties tested at Lawton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 5 varieties same Yrs.
Lankart 57	6.1	7.6	6.3	6.0	7.4	6.7	5.4
Deltapine 15	4.2*	5.5*	4.6*	4.0	5.2	4.7	5.4
Hi-Bred	4.6	6.1	4.9	4.5	6.0	5.2	5.4
Nucala 7480	4.8	5.5	4.9	4.3	5.4	5.0	5.4
Stoneville 2B	4.9	6.1	5.0	4.7	5.9	5.3	5.4
Okla. Triumph 92-1-1		5.5	4.4	4.1	5.1	4.8	5.5
Northern Star		6.6	5.5	5.1	6.3	5.9	5.5
Acala 6566-18		5.5	4.5	3.9	5.1	4.8	5.5
Watson		7.6	6.8	6.1	7.8	7.1	5.5
Mebane 6801-2-1			5.5	5.0	6.6	5.7	5.3
CR-1			5.6	4.9	6.3	5.6	5.3
Lockett 140		6.0		5.1	5.7	5.6	5.6
Half and Half				4.6	5.8	5.2	5.3
Macha	4.7				5.3	5.0	5.5
Watson's New Rowden				5.3	6.5	5.9	5.3
Acala 8	5.5				6.4	6.0	5.5
Wacona					6.2	6.2	6.0
Stoneville 62-1-8					5.7	5.7	6.0
Empire					6.4	6.4	6.0
Stoneville 62-1-0-0-108			4.6	4.4		4.5	4.9
Stoneville 62-1-0-0-84			4.5			4.5	5.1
Stoneville 62-1	5.0					5.0	4.9
Mebane 140 Sta.	5.1		5.1	4.8		5.0	4.9
Dortch #1				5.5		5.5	4.7
Stormproof #1				4.2		4.2	4.7
Paula				4.9		4.9	4.7
Acala 892 Mass	5.5	6.5	5.8			5.9	5.4
Acala 2496	5.0	5.7	4.9			5.2	5.4
Roldo Rowden	5.9		6.0			6.0	5.0
Rowden 41B		6.8				6.8	6.2
Acala P-18-C		6.6				6.6	6.2
Delfos 9169	4.9					4.9	4.9
Ambassador	4.9					4.9	4.9

\* Deltapine 14.

## LAWTON—EARLINESS

TABLE 12.—Annual and average earliness data expressed as percent of crop harvested in the first picking of varieties tested at Lawton, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1946	1947	1948	Avg.	Avg. for 5 varieties same Yrs.
Lankart 57	83.3	64.1	37.0	85.3	67.4	75.2
Deltapine 15	84.5*	88.0*	38.1*	90.6	75.3	75.2
Hi-Bred	85.0	89.2	58.5	93.1	81.5	75.2
Nucala 7480	92.2	87.8	51.4	91.2	80.7	75.2
Stoneville 2B	79.3	81.5	34.4	90.4	71.4	75.2
Okla. Triumph 92-1-1		86.5	57.2	90.9	78.2	72.0
Northern Star		80.4	48.3	91.9	73.5	72.0
Acala 6566-18		88.3	55.2	90.6	78.0	72.0
Watson		74.1	31.1	80.2	61.8	72.0
Mebane 6801-2-1		80.1	39.0	84.9	68.0	72.0
CR-1		85.8	62.3	92.5	80.2	72.0
Lockett 140			56.6	89.9	73.3	67.0
Half and Half			56.0	91.1	73.6	67.0
Macha	78.7			83.6	81.2	87.5
Watson's New Rowden			31.1	83.7	57.4	67.0
Acala 8	68.4			75.9	72.2	87.5
Wacona				92.6	92.6	90.1
Stoneville 62-1-8				89.8	89.8	90.1
Empire				94.5	94.5	90.1
Stoneville 62-1-0-0-108		85.6	48.8		67.2	63.0
Stoneville 62-1-0-0-84		83.3			83.3	82.1
Stoneville 62-1	73.3				93.9	84.9
Mebane 140 Sta.		85.7	41.3		66.8	70.3
Dortch #1			31.3		31.3	43.9
Stormproof #1			41.3		41.3	43.9
Paula			33.9		33.9	43.9
Acala 892 Mass.	89.6	89.0	89.0		89.3	70.3
Acala 2496	83.2	85.4			84.3	83.5
Roldo Rowden	81.3	79.9			80.6	83.5
Delfos 9169	91.0				91.0	84.9
Ambassador	95.8				95.8	84.9

The entire crop was harvested in one picking in 1945.

\* Deltapine 14.

## CHICKASHA—YIELD

TABLE 13.—Annual and average yields of lint per acre of cotton varieties tested at Chickasha, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
Nucala 7480	318	374	293	259	444	338	307
Acala 6566-18	331	358	261	248	451	330	307
Hi-Bred	329	260	292	239	479	320	307
Lockett 140	352	235	238	222	495	308	307
Deltapine 15	315*	261*	283*	226	443	306	307
Northern Star	265	252	233	236	441	285	307
Stoneville 2B	287	231	235	181	389	265	307
CR-1		335	261	237	469	326	306
Mebane 6801-2-1		182	241	255	468	287	306
Lankart 57		196	181	207	447	258	306
Mebane 140 Sta.	337		261	229	469	324	314
Watson	343		184	252	402	295	314
Watson's New Rowden Half and Half	300		190	207	455	288	314
Stoneville 62-1-0-0-84			276	257	452	328	314
			253	240	446	313	314
Acala 5675			223	234	468	308	314
Paymaster			284	208	402	298	314
Rowden 41B		163		226	417	269	320
Empire		333			454	394	365
CR-2				211	480	346	340
Delfos 9169				177	436	307	340
Acala 4-42				173	407	290	340
Coker 100 wilt				181	392	287	340
Acala 1517 wilt				150	314	232	340
Coker Wilds				166	293	230	340
Acala 8	315				397	356	381
Acala 108-2-19-78					401	401	449
Mebane 6801-2-5					482	482	449
Stoneville 62-1-8					461	461	449
D & PL Fox					439	439	449
Wacona					439	439	449
Macha					439	439	449
Western Prolific					431	431	449
Lone Star 22-4					413	413	449
Mebane 8G					400	400	449
Acala P-18-C		110			359	469	365

(Continued on next page.)

TABLE 13 (Continued.)

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
CSS 11					344	344	449
Stormproof #1		301	301	226		276	258
Paula		330	230	193		251	258
Stoneville 62-1-0-0-108			261	217		239	246
Dortch #1				247		247	230
Acala 892 Mass	307	301	259			289	286
Acala 2496	317	266	211			265	286
Okla. Triumph 92-1-1	310	234	229			258	286
Roldo Rowden	308		161			235	288
Stoneville 62-1-0-0-48			231			231	262
Dortch 10			223			223	262
Station C 42		244				244	282
Supreme #10		238				238	282
C. A. 122		198				198	282
Floyd's Mebane		194				194	282
C. A. 89A		188				188	282
Supreme #1		187				187	282
Acala 6583	347					347	314
Stoneville 62-1	322					322	314
Ambassador	251					251	314

\* Deltapine 14.

## CHICKASHA—STAPLE LENGTH

TABLE 14.—Annual and average staple lengths of cotton varieties tested at Chickasha, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
Nucala 7480	29	30	30	32	32	31	30
Acala 6566-18	30	30	30	31	32	31	30
Hi-Bred	28	26	28	26	28	27	30
Lockett 140	29	28	29	29	29	29	30
Deltapine 15	32*	32*	31*	32	33	32	30
Northern Star	32	31	32	30	33	32	30
Stoneville 2B	32	31	32	33	34	32	30
CR-1		31	30	31	32	31	31
Mebane 6801-2-1		29	29	29	30	29	31
Lankart 57		32	32	32	32	32	31
Mebane 140 Sta.	29		29	30	30	30	31
Watson	31		30	30	32	31	31
Watson's New Rowden	31		31	31	33	32	31
Half and Half			28	28	28	28	31
Stoneville 62-1-0-0-84			31	31	33	32	31
Acala 5675			31	34	34	33	31
Paymaster			30	30	31	30	31
Rowden 41B		31		31	33	32	31
Empire		32			33	33	31
CR-2				30	31	30	31
Delfos 9169				34	35	35	31
Acala 4-42				35	35	35	31
Coker 100 wilt				35	34	35	31
Acala 1517 wilt				34	34	34	31
Coker Wilds				36	40	38	31
Acala 8		32			34	33	31
Acala 108-2-19-78	32				32	32	31
Mebane 6801-2-5					30	30	32
Stoneville 62-1-8					33	33	32
D & PL Fox					34	34	32
Wacona					32	32	32
Macha					34	34	32
Western Prolific					31	31	32
Lone Star 22-4					32	32	32
Mebane 8G					33	33	32
Acala P-18-C					34	34	32

(Continued on next page.)

TABLE 14 (Continued.)

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
CSS 11					34	34	32
Stormproof #1		28	29	30		29	30
Paula		33	32	33		33	30
Stoneville 62-1-0-0-108			31	32		32	30
Dortch #1				32		32	30
Acala 892 Mass	31	30	30			30	30
Acala 2496	31	31	31			31	30
Okla. Triumph 92-1-1	30	30	30			30	30
Roldo Rowden	32		31			32	30
Stoneville 62-1-0-0-48			31			31	30
Dortch 10			32			32	30
Station C 42		31				31	30
Supreme #10		33				33	30
C. A. 122		30				30	30
Floyd's Mebane		31				31	30
C. A. 89A		30				30	30
Supreme #1		32				32	30
Acala 6583	28					28	30
Stoneville 62-1	31					31	30
Ambassador	30					30	30

\* Deltapine 14.

## CHICKASHA—LINT PERCENT; PICKED

TABLE 15.—Annual and average determinations of lint percent of picked cotton in varieties tested at Chickasha, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
Nucala 7480	37.9	37.0	40.3	40.1	38.3	38.7	38.4
Acala 6566-18	38.0	36.2	38.9	40.2	38.0	38.3	38.4
Hi-Bred	40.4	39.2	41.3	41.8	41.1	40.8	38.4
Lockett 140	39.7	37.8	38.2	39.1	38.6	38.7	38.4
Deltapine 15	41.5*	38.4*	42.1*	42.8	37.6	40.5	38.4
Northern Star	36.8	35.4	37.2	39.4	35.9	36.9	38.4
Stoneville 2B	35.0	33.5	35.7	36.1	33.3	34.7	38.4
CR-1		36.5	38.8	39.7	36.7	37.9	38.3
Mebane 6801-2-1		36.4	38.8	38.9	38.6	38.2	38.3
Lankart 57		34.7	38.9	39.9	34.5	37.0	38.3
Mebane 140 Sta.			38.3	39.6	38.1	38.7	38.9
Watson	38.6		38.1	40.0	35.3	38.0	38.8
Watson's New Rowden	35.7		35.9	38.7	34.6	36.2	38.8
Half and Half			41.5	41.2	39.5	40.7	38.9
Stoneville 62-1-0-0-84			37.5	37.0	34.9	36.5	38.9
Acala 5675			40.4	41.0	38.0	39.8	38.9
Paymaster			37.9	39.7	35.2	37.6	38.9
Rowden 41B		31.5		38.4	34.0	34.6	38.1
Empire		35.4			34.4	34.9	37.2
CR-2-				41.6	39.7	40.7	38.7
Delfos 9169				36.9	33.6	35.3	38.7
Acala 4-42				39.9	37.1	38.5	38.7
Coker 100 wilt				35.9	34.2	35.1	38.7
Acala 1517 wilt				34.4	34.4	34.4	38.7
Coker Wilds				33.4	29.5	31.5	38.7
Acala 8	41.1				36.9	39.0	38.0
Acala 108-2-19-78					32.5	32.5	37.5
Mebane 6801-2-5					39.8	39.8	37.5
Stoneville 62-1-8					34.6	34.6	37.5
D & PL Fox					35.0	35.0	37.5
Wacona					34.2	34.2	37.5
Macha					38.4	38.4	37.5
Western Prolific					37.8	37.8	37.5
Lone Star 22-4					33.9	33.9	37.5
Mebane 8G					35.8	35.8	37.5
Acala P-18-C		36.0			36.3	36.2	37.2

(Continued on next page.)

TABLE 15 (Continued.)

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
CSS 11					32.7	32.7	37.5
Stormproof #1		37.3	38.3	39.6		38.4	38.6
Paula		33.8	35.4	36.4		35.2	38.6
Stoneville 62-1-0-0-108			35.6	37.9		36.8	39.5
Dortch #1				38.9		38.9	40.0
Acala 892 Mass	35.1	34.7	38.8			36.2	38.1
Acala 2496	39.6	37.6	39.6			38.9	38.1
Okla. Triumph 92-1-1	37.5	34.1	38.2			36.6	38.1
Roldo Rowden	35.9		36.8			36.4	38.8
Stoneville 62-1-0-0-48			37.3			37.3	39.1
Dortch #10			35.7			35.7	39.1
Station C 42		34.9				34.9	36.8
Supreme #10		33.4				33.4	36.8
C. A. 122		34.4				34.4	36.8
Floyd's Mebane		33.2				33.2	36.8
C. A. 89A		34.5				34.5	36.8
Supreme #1		31.1				31.1	36.8
Acala 6583	39.4					39.4	38.5
Mebane 140	38.6					38.6	38.5
Stoneville 62-1	36.4					36.4	38.5
Ambassador	32.7					32.7	38.5

\* Deltapine 14.



## CHICKASHA—LINT PERCENT; PULLED

TABLE 16.—Annual and average determinations of lint percent of pulled cotton in varieties tested at Chickasha, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
Nucala 7480	28.5	28.5	31.6	29.0	28.5	29.2	29.3
Acala 6566-18	28.8	28.0	30.2	29.4	28.8	29.0	29.3
Hi-Bred	32.1	31.3	33.4	32.2	32.3	32.3	29.3
Lockett 140	31.7	30.0	30.4	29.5	29.9	30.3	29.3
Deltapine 15	30.4*	29.0*	31.3*	30.5	27.3	29.7	29.3
Northern Star	28.5	27.2	28.8	29.5	27.1	28.2	29.3
Stoneville 2B	27.0	26.0	27.8	26.7	25.3	26.6	29.3
CR-1		27.7	29.3	28.4	27.3	28.2	29.3
Mebane 6801-2-1		28.0	30.0	28.7	29.8	29.1	29.3
Lankart 57		25.9	29.6	28.8	25.0	27.3	29.3
Mebane 140 Sta.	30.7		29.6	28.8	28.9	29.5	29.5
Watson	29.9		29.5	29.6	26.9	29.0	29.5
Watson's New Rowden	27.2		26.9	27.9	25.6	26.9	29.5
Half and Half			33.2	31.1	30.9	31.7	29.5
Stoneville 62-1-0-0-84			29.0	26.8	28.8	28.2	29.5
Acala 5675			30.2	28.3	27.8	28.8	29.5
Paymaster			29.3	29.6	26.4	28.4	29.5
Rowden 41B		23.4		28.1	24.8	25.4	28.9
Empire		26.8			25.7	26.3	28.5
CR-2				30.1	30.1	30.1	29.0
Delfos 9169				26.7	25.5	26.1	29.0
Acala 4-42				27.0	27.0	27.0	29.0
Coker 100 wilt				26.0	25.5	25.8	29.0
Acala 1517 wilt				23.7	25.4	24.6	29.0
Coker Wilds				23.2	21.2	22.2	29.0
Acala 8	30.5				27.5	29.0	29.0
Acala 108-2-19-78					25.1	25.1	28.5
Mebane 6801-2-5					30.7	30.7	28.5
Stoneville 62-1-8					25.5	25.5	28.5
D & PL Fox					26.0	26.0	28.5
Wacona					26.1	26.1	28.5
Macha					29.8	29.8	28.5
Western Prolific					29.2	29.2	28.5
Lone Star 22-4					25.6	25.6	28.5
Mebane 8G					27.5	27.5	28.5
Acala P-18-C		27.0			27.2	27.1	28.5

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TABLE 16 (Continued.)

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
CSS 11					24.8	24.8	28.5
Stormproof #1		28.8	30.2	29.0		29.3	29.5
Paula		26.7	27.8	27.1		27.2	29.5
Stoneville 62-1-0-0-108			27.6	27.8		27.7	30.0
Dortch #1				28.2		28.2	29.5
Acala 892 Mass	26.1	26.4	29.6			27.4	29.5
Acala 2496	30.1	28.8	30.8			29.9	29.5
Okla. Triumph 92-1-1	28.2	25.8	29.3			27.8	29.5
Roldo Rowden	27.2		27.5			27.4	30.0
Stoneville 62-1-0-0-48			28.9			28.9	30.5
Dortch 10			27.8			27.8	30.5
Station C 42		26.6				26.6	28.6
Supreme #10		26.0				26.0	28.6
C. A. 122		26.3				26.3	28.6
Floyd's Mebane		25.5				25.5	28.6
C. A. 89A		25.9				25.9	28.6
Supreme #1		23.1				23.1	28.6
Acala 6583	30.1					30.1	29.6
Stoneville 62-1	28.4					28.4	29.6
Ambassador	25.9					25.9	29.6

\* Deltapine 14.

## CHICKASHA—BOLL SIZE

TABLE 17.—Annual and average boll sizes expressed as grams per boll for varieties tested at Chickasha, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
Nucala 7480	5.1	6.0	5.8	5.5	6.2	5.7	5.7
Acala 6566-18	5.0	6.3	5.4	4.9	6.1	5.5	5.7
Hi-Bred	5.2	6.1	5.9	5.0	7.2	5.9	5.7
Lockett 140	5.7	5.7	6.0	5.1	6.4	5.8	5.7
Deltapine 15	4.1*	4.9*	4.8*	4.6	5.7	4.8	5.7
Northern Star	6.3	6.5	6.3	5.7	6.7	6.3	5.7
Stoneville 2B	5.2	6.1	5.8	5.6	6.9	5.9	5.7
CR-1		7.7	6.5	5.7	7.3	6.8	5.8
Mebane 6801-2-1		6.5	6.6	5.8	7.2	6.5	5.8
Lankart 57		6.8	7.6	6.4	7.8	7.2	5.8
Mebane 140 Sta.			6.2	5.2	6.5	6.0	5.8
Watson	6.9		7.8	6.6	8.2	7.4	5.7
Watson's New Rowden	7.3		7.0	6.5	7.7	7.1	5.7
Half and Half			5.9	5.2	6.8	6.0	5.8
Stoneville 62-1-0-0-84			5.6	5.0	6.0	5.5	5.8
Acala 5675			5.6	4.5	6.1	5.4	5.8
Paymaster			6.2	6.0	7.0	6.4	5.8
Rowden 41B		6.6		6.6	7.3	6.8	5.9
Empire		6.9			7.5	7.2	6.2
CR-2				4.6	6.3	5.5	5.8
Delfos 9169				5.3	6.6	6.0	5.8
Acala 4-42				5.0	6.5	5.8	5.8
Coker 100 wilt				5.3	5.9	5.6	5.8
Acala 1517 wilt				5.0	7.0	6.0	5.8
Coker Wilds				4.6	5.9	5.3	5.8
Acala 8	5.5				7.2	6.4	5.8
Acala 108-2-19-78					7.3	7.3	6.5
Mebane 6801-2-5					7.0	7.0	6.5
Stoneville 62-1-8					6.7	6.7	6.5
D & PL Fox					5.6	5.6	6.5
Wacona					6.8	6.8	6.5
Macha					6.1	6.1	6.5
Western Prolific					6.8	6.8	6.5
Lone Star 22-4					7.9	7.9	6.5
Mebane 8G					7.7	7.7	6.5
Acala P-18-C		6.7			7.1	6.9	6.2

(Continued on next page.)

TABLE 17 (Continued.)

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
CSS 11					6.5	6.5	6.5
Stormproof #1		6.0	5.5	5.0		5.5	5.6
Paula		6.6	6.0	5.6		6.1	5.6
Stoneville 62-1-0-0-108			5.5	5.2		5.4	5.5
Dortch #1				6.7		6.7	5.2
Acala 892 Mass	5.6	7.4	6.6			6.5	5.6
Acala 2496	4.7	6.3	6.0			5.7	5.6
Okla. Triumph 92-1-1	5.3	5.3	5.7			5.4	5.6
Roldo Rowden	6.9		7.2			7.1	5.5
Stoneville 62-1-0-0-48			5.8			5.8	5.7
Dortch #10			6.1			6.1	5.7
Station C42		6.3				6.3	5.9
Supreme #10		6.4				6.4	5.9
C. A. 122		6.6				6.6	5.9
Floyd's Mebane		6.0				6.0	5.9
C. A. 89A		5.8				5.8	5.9
Supreme #1		6.8				6.8	5.9
Acala 6583	4.7					4.7	5.2
Mebane 140	5.5					5.5	5.2
Stoneville 62-1	5.3					5.3	5.2
Ambassador	5.8					5.8	5.2

\* Deltapine 14.

## CHICKASHA—EARLINESS

TABLE 18.—Annual and average earliness data expressed as percent of crop harvested in the first picking of varieties tested at Chickasha, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
Nucala 7480	94.1	52.8	88.7	78.5	72.8
Acala 6566-18	92.7	42.9	88.8	74.8	72.8
Hi-Bred	85.4	50.6	90.2	75.4	72.8
Lockett 140	88.8	52.6	88.3	76.6	72.8
Deltapine 15	76.8*	32.6	79.2	62.9	72.8
Northern Star	94.5	51.5	75.9	74.0	72.8
Stoneville 2B	93.6	31.4	77.0	67.3	72.8
CR-1		51.8	82.9	67.4	64.5
Mebane 6801-2-1		41.7	77.3	59.5	64.5
Lankart 57		37.4	62.9	50.2	64.5
Mebane 140 Sta.	88.6	32.1	72.5	64.4	72.8
Watson	77.1	31.3	59.5	56.0	72.8
Watson's New Rowden	87.5	43.3	73.6	68.1	72.8
Half and Half		48.3	86.0	67.2	64.5
Stoneville 62-1-0-0-84		51.6	84.7	68.2	64.5
Acala 5675		61.4	72.3	66.9	64.5
Paymaster		58.3	90.7	74.5	64.5
Rowden 41B		50.5	72.5	61.5	64.5
Empire			77.7	77.7	84.0
CR-2		44.3	77.8	61.1	64.5
Delfos 9169		26.4	73.4	49.9	64.5
Acala 4-42		25.8	76.8	51.3	64.5
Coker 100 wilt		31.0	78.1	54.6	64.5
Acala 1517 wilt		23.6	78.7	51.2	64.5
Coker Wilds		39.8	81.1	60.5	64.5
Acala 8	79.9		69.7	74.8	86.7
Acala 108-2-19-78			71.2	71.2	84.0
Mebane 6801-2-5			78.3	78.3	84.0
Stoneville 62-1-8			75.5	75.5	84.0
D & PL Fox			83.0	83.0	84.0
Wacona			76.0	76.0	84.0
Macha			74.3	74.3	84.0
Western Prolific			67.3	67.3	84.0
Lone Star 22-4			84.2	84.2	84.0
Mebane 8C			73.4	73.4	84.0
Acala P-18-C			66.7	66.7	84.0

(Continued on next page.)

TABLE 18 (Continued.)

Variety	1944	1947	1948	Avg.	Avg. for 7 varieties same Yrs.
CSS 11			65.7	65.7	84.0
Stormproof #1		38.4		38.4	44.9
Paula		26.4		26.4	44.9
Stoneville 62-1-0-0-108		48.1		48.1	44.9
Dortch #1		45.9		45.9	44.9
Acala 892 Mass	90.8			90.8	89.4
Acala 2496	89.3			89.3	89.4
Okla. Triumph 92-1-1	90.0			90.0	89.4
Roldo Rowden	89.9			89.9	89.4
Acala 6583	92.7			92.7	89.4
Stoneville 62-1	90.0			90.0	89.4
Ambassador	94.6			94.6	89.4

\* Deltapine 14.

## PERKINS—YIELD

TABLE 19.—Annual and average yields of lint per acre of cotton varieties tested at Perkins, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 6 varieties same Yrs.
Hi-Bred	334	317	182	244	427	301	253
Deltapine 15	291*	262*	182*	190	373	260	253
Acala 6566-18 (Okla. Sp.)	318	262	176	206	320	256	253
Watson's New Rowden	272	268	163	185	366	251	253
Stoneville 2B	316	267	157	136	315	238	253
Watson	306	220	158	173	179	209	253
CR-1		325	179	205	352	265	239
Northern Star	309	264	175		306	264	268
Delfos 9169	317	231		151	303	251	273
Stoneville 62-84			188	205	429	274	230
Empire	409	306			393	369	301
Lockett 140		268		215	323	269	262
Lankart 57		253	194		309	252	256
Half and Half				225	375	300	260
Deltapine 041				202	387	295	260
Mebane 6801-2-1				207	295	251	260
Bobshaw 1				130	234	182	260
Acala P-18-C		213			193	203	298
Stoneville 62. (Blend)					396	396	330
Wacona					347	347	330
Coker's 100					276	276	330
Okla. Triumph 92-1-1	350	284		207		280	254
Mebane 140 Sta.	390		205	212		269	222
Stoneville 62-108		355	188	198		247	209
Stoneville 62-48	396	326	178			300	248
Acala 892 Mass	339	252	179			257	248
Acala 2496	313	257	175			248	248
Ambassador	334	221				278	286
Dortch #1				200		200	189
Delfos 651			163			163	173
Supreme #1		300				300	266
Supreme #10		295				295	266
Paula		263				263	266
Nucala	328					328	306
Acala 6563-12	323					323	306
Roldo Rowden	275					275	306
Acala 8	238					238	306

\* Deltapine 14.

## PERKINS—STAPLE LENGTH

TABLE 20.—Annual and average staple lengths of cotton varieties grown at Perkins, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 6 varieties same Yrs.
Hi-Bred	26	28	26	28	29	27	31
Deltapine 15	32*	34*	30*	33	36	33	31
Acala 6566-18	30	30	29	30	34	31	31
Watson's New Rowden	31	32	30	31	33	31	31
Stoneville 2B	33	34	30	33	35	33	31
Watson	30	32	29	32	32	31	31
CR-1		32	31	31	33	32	31
Northern Star	31	33	31		34	32	31
Delfos 9169	34	35		33	36	35	32
Stoneville 62-84			30	32	34	32	31
Empire	33	34			34	34	32
Lockett 140		30		29	30	30	32
Lankart 57		34	31		34	33	31
Half and Half				28	31	30	32
D & PL Fox				33	37	35	32
Mebane 6801-2-1				29	30	30	32
Bobshaw 1				33	37	35	32
Acala P-18-C		34			36	35	32
Stoneville 62 (Blend)					34	34	33
Wacona					34	34	33
Coker's 100					38	38	33
Okla. Triumph 92-1-1	32	32		31		32	31
Mebane 140 Sta.	28		29	30		29	30
Stoneville 62-108		33	30	32		32	31
Stoneville 62-48	31	33	30			31	30
Acala 892 Mass	31	33	28			31	30
Acala 2496	32	33	31			32	30
Ambassador	31	33				32	31
Dortch #1				32		32	31
Delfos 651			32			32	29
Supreme #1		33				33	32
Supreme #10		34				34	32
Paula		34				34	32
Nucala	30					30	30
Acala 6563-12	30					30	30
Roldo Rowden	31					31	30
Acala 8	33					33	30

\* Deltapine 14.



## PERKINS—LINT PERCENT; PICKED

TABLE 21.—Annual and average determinations of lint percent of picked cotton in varieties tested at Perkins, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 6 varieties same Yrs.
Hi-Bred	42.0	41.6	40.6	42.9	39.7	41.4	37.3
Deltapine 15	41.1*	39.5*	40.0*	37.4	36.9	39.0	37.3
Acala 6566-18 (Okla. Sp.)	39.7	38.4	38.4	38.5	36.2	38.2	37.3
Watson's New Rowden	36.3	33.9	33.9	34.5	34.7	34.7	37.3
Stoneville 2B	35.3	34.1	34.7	32.6	32.2	33.8	37.3
Watson	38.6	36.4	37.5	36.4	36.1	37.0	37.3
CR-1		37.8	36.7	37.8	35.2	36.9	37.0
Northern Star	37.9	36.1	37.0		33.9	36.2	37.4
Delfos 9169	37.2	34.8		33.7	32.4	34.5	37.3
Stoneville 62-84			36.3	35.9	34.4	35.5	36.8
Empire	39.0	35.3			32.9	35.7	37.4
Lockett 140		39.7		38.1	37.0	38.2	36.8
Lankart 57		36.2	38.5		33.1	35.9	36.9
Half and Half				42.6	39.1	40.9	36.5
D & PL Fox				35.7	34.4	35.0	36.5
Mebane 6801-2-1				38.4	37.1	37.8	36.5
Bobshaw 1				32.1	31.1	31.6	36.5
Acala P-18-C		38.1			35.9	37.0	36.6
Stoneville 62 (Blend)					34.0	34.0	36.0
Wacona					33.5	33.5	36.0
Coker's 100					32.9	32.9	36.0
Okla. Triumph 92-1-1	36.6	35.1		34.4		35.4	37.7
Mebane 140 Sta.	39.3		38.3	37.9		38.5	37.8
Stoneville 62-108		36.2	35.1	35.7		35.7	37.3
Stoneville 62-48		35.9	36.4			36.2	37.4
Acala 892 Mass	37.3	36.2	37.4			37.0	37.9
Acala 2496	38.3	37.9	38.8			38.3	37.9
Ambassador	35.7	33.3				34.5	38.1
Dortch #1				35.6		35.6	37.1
Delfos 651			33.7			33.7	37.5
Supreme #1		34.4				34.4	37.3
Supreme #10		33.7				33.7	37.3
Paula		33.2				33.2	37.3
Nucala	37.8					37.8	38.8
Acala 6563-12	37.6					37.6	38.8
Roldo Rowden	36.7					36.7	38.8
Acala 8	38.2					38.2	38.8

\* Deltapine 14.

## PERKINS—LINT PERCENT; PULLED

TABLE 22.—Annual and average determinations of lint percent of pulled cotton in varieties tested at Perkins, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 6 varieties same Yrs.
Hi-Bred	34.6	33.5	32.1	33.7	31.1	33.0	28.7
Deltapine 15	32.6*	28.8*	30.2*	26.8	27.3	29.1	28.7
Acala 6566-18 (Okla. Sp.)	31.0	29.6	29.5	28.9	26.9	29.2	28.7
Watson's New Rowden	28.4	25.5	25.3	25.3	26.1	26.1	28.7
Stoneville 2B	28.2	26.3	26.8	24.2	24.3	26.0	28.7
Watson	31.2	28.4	29.0	27.2	28.1	28.8	28.7
CR-1		28.7	27.2	27.8	25.9	27.4	28.1
Northern Star	30.1	27.8	28.1		25.5	27.9	29.0
Delfos 9169	29.5	26.7		24.9	24.2	26.3	28.7
Stoneville 62-84			27.5	26.7	25.5	26.6	27.9
Empire	30.7	26.7			24.6	27.3	29.0
Lockett 140		32.2		29.6	28.9	30.2	27.9
Lankart 57		27.6	29.5		24.7	27.3	28.3
Half and Half				33.1	30.7	31.9	27.5
D & PL Fox				26.4	26.0	26.2	27.5
Mebane 6801-2-1				29.4	28.6	29.0	27.5
Bobshaw 1				23.6	23.5	23.6	27.5
Acala P-18-C		29.2			26.9	28.1	28.0
Stoneville 62 (Blend)					25.4	25.4	27.3
Wacona					25.6	25.6	27.3
Coker's 100					24.8	24.8	27.3
Okla. Triumph 92-1-1	28.4	26.5		25.3		26.7	29.1
Mebane 140 Sta.	32.5		29.9	28.6		30.3	29.2
Stoneville 62-108		27.9	26.0	26.6		26.8	28.4
Stoneville 62-48	31.0	27.8	28.0			28.9	29.5
Acala 892 Mass	28.6	27.6	28.0			28.1	29.5
Acala 2496	29.5	29.3	29.6			29.5	29.5
Ambassador	29.2	26.4				27.8	29.8
Dortch #1				26.2		26.2	27.7
Delfos 651			25.2			25.2	28.8
Supreme #1		25.8				25.8	28.7
Supreme #10		26.2				26.2	28.7
Paula		26.1				26.1	28.7
Nucala	29.7					29.7	31.0
Acala 6563-12	29.4					29.4	31.0
Roldo Rowden	28.8					28.8	31.0
Acala 8	29.3					29.3	31.0

\* Deltapine 14.

## PERKINS—BOLL SIZE

TABLE 23.—Annual and average boll sizes expressed as grams per boll for varieties tested at Perkins, Oklahoma, from 1944 to 1948, inclusive.

Variety	1944	1945	1946	1947	1948	Avg.	Avg. for 6 varieties same Yrs.
Hi-Bred	5.95	6.48	5.15	5.37	6.14	5.82	5.87
Deltapine 15	5.17*	4.69*	4.29*	4.29	5.16	4.72	5.87
Acala 6566-18	5.53	5.50	4.62	4.67	5.10	5.08	5.87
Watson's New Rowden	7.27	7.22	5.98	5.92	6.96	6.67	5.87
Stoneville 2B	6.18	6.15	4.95	5.13	6.06	5.69	5.87
Watson	7.86	8.21	6.15	6.20	7.66	7.22	5.87
CR-1		6.84	5.59	5.68	6.58	6.17	5.75
Northern Star	6.75	7.08	5.06		6.51	6.35	6.02
Delfos 9169	6.02	6.26		4.99	5.64	5.73	6.04
Stoneville 62-84			4.71	4.89	5.80	5.13	5.54
Empire	6.85	7.00			6.62	6.82	6.29
Lockett 140		6.50		4.95	6.45	5.97	5.94
Lankart 57		7.91	6.35		7.79	7.35	5.92
Half and Half				5.13	6.06	5.60	5.72
D & PL Fox				4.50	5.12	4.81	5.72
Mebane 6801-2-1				5.59	6.57	6.08	5.72
Bobshaw I				4.42	5.58	5.00	5.72
Acala P-18-C		7.43			6.91	7.17	6.28
Stoneville 62 (Blend)					5.78	5.78	6.18
Wacona					6.48	6.48	6.18
Coker's 100					5.98	5.98	6.18
Okla. Triumph 92-1-1	5.34	5.72		4.42		5.16	5.99
Mebane 140 Sta.	6.67		5.12	5.00		5.60	5.59
Stoneville 62-108		6.31	4.77	4.82		5.30	5.61
Stoneville 62-48	5.88	6.01	5.23			5.71	5.96
Acala 892 Mass	7.10	7.08	5.23			6.47	5.96
Acala 2496	5.79	5.85	4.85			5.50	5.96
Ambassador	6.66	6.76				6.71	6.35
Dortch #1				6.15		6.15	5.26
Delfos 651			4.10			4.10	5.19
Supreme #1		7.57				7.57	6.38
Supreme #10		6.73				6.73	6.38
Paula		6.51				6.51	6.38
Nucala	5.96					5.96	6.33
Acala 6563-12	5.89					5.89	6.33
Roldo Rowden	7.16					7.16	6.33
Acala 8	6.96					6.96	6.33

\* Deltapine 14.

## PERKINS—EARLINESS

TABLE 24.—*Earliness data expressed as percent of crop harvested in the first picking of varieties tested at Perkins, Oklahoma, in 1948.*

Variety	1948
Hi-Bred	52.3
Deltapine 15	26.5
Acala 6566-18	33.9
Watson's New Rowden	26.6
Stoneville 2B	23.6
Watson	2.1
CR-1	32.2
Northern Star	27.8
Delfos 9169	23.0
Stoneville 62-84	38.4
Empire	35.0
Lockett 140	25.1
Lankart 57	10.6
Half and Half	44.5
D & PL Fox	31.5
Mebane 6801-2-1	9.4
Bobshaw 1	18.1
Acala P-18-C	15.9
Stoneville 62 (Blend)	31.9
Wacona	21.2
Coker's 100	10.2

Note: 1948 was the only year in which more than one picking was made.

## SEED SOURCES

TABLE 25.—Sources of seed planted in the cotton variety tests 1944 through 1948.

Acala 4-42	U. S. Cotton Field Station	Shafter, Calif.
Acala 8	California Planting Seed Distrs.	Bakersfield, Calif.
Acala 108	U. S. Cotton Field Station	Greenville, Texas
CR Strains	Okla. Cotton Research Station	Chickasha, Okla.
Acala 1517 Wilt	New Mexico Agr. Exp. Station	State College, N. Mexico
Acala 2496	Okla. Cotton Research Station	Chickasha, Okla.
Acala 5675	U. S. Cotton Field Station	Knoxville, Tenn.
Acala 6566-18 (Okla. Special)	Okla. Cotton Research Station	Chickasha, Okla.
Acala 6583	Okla. Cotton Research Station	Chickasha, Okla.
Acala P-18-C	U. S. Cotton Field Station	Shafter, Calif.
Ambassador	Stoneville Pedigreed Seed Co.	Stoneville, Miss.
C. A. 89A	Texas Substation #8	Lubbock, Texas
C. A. 122	Texas Substation #8	Lubbock, Texas
Coker 100 Wilt	Coker's Pedigreed Seed Co.	Hartsville, So. Carolina
Coker Wilds	Coker's Pedigreed Seed Co.	Hartsville, So. Carolina
CSS 11	U. S. Cotton Field Station	Greenville, Texas
Delfos 651	U. S. Cotton Field Station	Stoneville, Miss.
Delfos 9169	Stoneville Pedigreed Seed Co.	Stoneville, Miss.
D & PL Fox	Delta and Pine Land Co.	Scott, Miss.
Deltapine 15	Delta and Pine Land Co.	Scott, Miss.
Dortch #1	Robert L. Dortch	Scott, Arkansas
Dortch #10	Robert L. Dortch	Scott, Arkansas
Empire	Georgia Agr. Exp. Station	Experiment, Georgia
Floyd's Mebane	D. D. Floyd	Waxahatchie, Texas
Half and Half	Texas Substation #12	Chillicothe, Texas
Hi-Bred	B. T. Summerour Seed Co.	Norcross, Georgia
Okla. Triumph 92-1-1	Okla. Agr. Exp. Station	Stillwater, Okla.
Paula	Cotton Delinting Corp.	Bragg City, Missouri
Lankart 57	Lankart Seed Farms	Waco, Texas
Lockett 140	Lockett Seed Co.	Vernon, Texas
Lone Star 22-4	John Gorham & Son	Waco, Texas
Macha	H. A. Macha	Tahoka, Texas
Mebane 8G	D. D. Floyd	Waxahatchie, Texas
Mebane 140 Station	Okla. Cotton Research Station	Chickasha, Okla.
Mebane 6801-2-1	Okla. Cotton Research Station	Chickasha, Okla.
Northern Star	Northern Star Seed Farms	O'Brien, Texas
Nucala 7480	Okla. Cotton Research Station	Chickasha, Okla.

(Continued on next page.)

TABLE 25 (Continued.)

Paymaster	Lockview Farms	Lockview, Texas
Roldo Rowden Rowden 41B	Robert L. Dortch Texas Planting Seed Asso.	Scott, Arkansas Bryan, Texas
Station C 42 Stoneville 2B Stoneville 62-84 Stormproof #1 Supreme #1 Supreme #10	Ga. Coastal Plains Exp. Station Stoneville Pedigreed Seed Co. Okla. Agri. Exp. Station Lockett Seed Co. Robert L. Dortch Robert L. Dortch	Tifton, Georgia Stoneville, Miss. Stillwater, Okla. Vernon, Texas Scott, Arkansas Scott, Arkansas
Wacona Watson Watson's New Rowden Western Prolific	Northern Star Seed Farms Ferris Watson Seed Farms Ferris Watson Seed Farms Von Roeder's	O'Brien, Texas Garland, Texas Garland, Texas Snyder, Texas