

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search http://ageconsearch.umn.edu aesearch@umn.edu

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

No endorsement of AgEcon Search or its fundraising activities by the author(s) of the following work or their employer(s) is intended or implied.

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

Ag 84 m JUL 1 1 1955 CHARGES PARIMENT OF ADACULTURE For Ginning Cotton

LIBRA CIIC BRA



UNITED STATES DEPARTMENT OF AGRICULTURE Marketing Research Division and Cotton Division Agricultural Marketing Service Washington, D.C.

Marketing Research Report No. 120 June 1956

CONTENTS

Deer

	rage
Summary	iii
Importance of the ginning industry	1
Sources of data	1.
Nathed of approximation and approximation of the second seco	4
Methods of assessing glinning charges	4
Charges for ginning cotton	5
Charges for ginning upland cotton	7
Charges for ginning American-Egyptian cotton	11
Factors affecting ginning charges	12
General business and economic conditions	12
Methods of harvesting action	10
	10
weight of seed cotton per bare	11
Types of gin equipment	20
Use of seed cotton driers	21
Use of lint cleaners	23
Ginning preparation	26
Materials used for covering bales	27
Transportation of octon from form to gin	21
Deleted husiness estimation of simple	22
Related business activities of gimers	22
Purchase of cotton by ginners	33
Purchase of cottonseed by ginners	35
Other services of ginners	37
Supplemental tables	39
Rate conversion formulas	1.7
	41

ACKNOWLEDGMENT

The cooperation of ginners throughout the Cotton Belt in making information available and the efforts of field personnel of the Cotton Division, AMS, in selecting gins and in collecting and reviewing the data are gratefully acknowledged. This is a cooperative study and joint report of the Marketing Research Division and Cotton Division, AMS. Beginning with the 1953-54 season, annual data have been published jointly by these two agencies. Prior to 1953-54, information was collected and reported by the Cotton Branch of the former Production and Marketing Administration.

For sale by Superintendent of Documents, Government Printing Office, Washington 25, D. C. Price 30 cents.

SUMMARY

Facilities for the ginning of cotton in the United States make up an important industry, and charges paid for ginning services are a big item of cost to cotton growers. Growers, on the average, paid more than 160 million dollars annually for ginning services during the period 1947-48 to 1954-55. Currently, the total investment in ginning facilities is in the neighborhood of 400 million dollars.

Charges for ginning usually are assessed by ginners according to one of four basic methods with separate charges in most instances for wrapping materials. During the seasons 1947-48 to 1954-55, charges for ginning approximately 72 percent of the crop were based on the hundredweight of seed cotton. About 19 percent of ginnings were charged for according to the hundredweight of lint. A flat charge per bale was levied on about 9 percent of ginnings, while charges based on toll per hundredweight of seed cotton (retention of a percentage of the seed cotton by ginners) represented less than 1 percent.

Belt-wide average charges for ginning and wrapping a 500-pound bale progressively increased from \$9 per bale in 1947-48 to \$12.83 per bale in 1954-55. In recent seasons, however, charges have tended to level off, or even decrease slightly, in some States. Region-wise, charges were lowest in the Southeast, where labor was less expensive, average investment in ginning facilities was lower, and practically all cotton was handpicked. Charges were highest in the Southwest because of factors almost opposite to those in the Southeast.

Since 1928, ginning charges for the most part have closely paralleled the wholesale price index of all commodities, which is recognized as a reliable indicator of price levels. Charges also have followed closely the parity prices of cotton, but have varied widely in relation to farm prices.

Methods of harvesting often account for variations in ginning charges. Proportion of the crop handpicked during the period 1947-48 to 1954-55 declined from 78 to 54 percent. Use of both mechanical pickers and strippers increased, while little change occurred from season to season in proportions harvested by handsnapping.

Since ginning charges most commonly are assessed on the basis of seed cotton weight, they are affected directly by the quantity of seed cotton needed to provide a bale of lint. The annual average weights of handpicked seed cotton required per 500-pound gross-weight bale varied from 1,305 pounds in 1947 to 1,392 pounds in 1954, and there were indications of a slight upward trend during the period. Average weights of handsnapped seed cotton ranged from 1,856 pounds to 2,015 pounds per standard-weight bale during the 8-year period. The annual average quantities of mechanically picked seed cotton needed per bale varied from 1,337 pounds in 1947-48 to 1,524 pounds in 1954-55, exceeding weights for handpicked cotton annually by about 95 pounds on the average. Weights for machine-stripped cotton exceeded those for handpicked cotton by from 750 to 1,000 pounds each season.

Nowadays, most gins must be equipped with extensive auxiliary equipment such as seed cotton driers, bur extractors, and various types of cleaners in order to perform satisfactory jobs of ginning. In recent seasons, many ginners have installed lint cleaners to help maintain cotton quality. Increased costs associated with installation and operation of such equipment frequently result in increased charges paid by growers for ginning services.

Very nearly one-third of the gins in operation in 1954-55 were equipped with lint cleaners. Indications are, however, that many ginners need further guidance as to how and when to use such equipment in the best interest of their customers. At those gins operating lint cleaners, 7 out of every 10 ginners ran every bale through these cleaners. Thus, many bales of high grade cotton (that grading Middling or better prior to lint cleaning) were lintcleaned at a loss to the grower, since the value of weight losses in lintcleaning such cotton generally exceeds returns from grade improvement.

The real cost to growers for ginning depends not only upon the charge paid but also upon the quality of the service received. In recent years a most gratifying development in this regard has been a substantial Belt-wide decrease in proportions of cotton reduced in grade because of below-normal ginning preparation. During the 14-year period 1933-46, proportions of roughginned cotton, by regions, ranged from approximately 11 percent in the Southeast to about 3 percent in the West. In the 8-year period 1947-54, about 4 percent of the crop in the Southeast and less than 1 percent of that in the West was roughly ginned. Ginning charges during both periods generally were lower in those regions where rough ginning was more frequent, but these lower charges presumably are offset somewhat by the poorer quality of service.

Charges for bale wrapping materials are an important item of cost to growers. From 1947-48 to 1954-55, growers paid \$3.37 per bale, on the average, for bagging and ties--a total cash outlay of about 46 million dollars a season. In 1954-55, almost 60 percent of the crop was wrapped with open-weave jute bagging and most of the remainder was covered with sugar-bag cloth.

Nowadays, practically all cotton is moved to gins by motor vehicles. In 1954-55, only 3 percent of the crop was hauled by wagons and teams, as compared to 18 percent in 1947-48.

Ginners usually buy from one-fourth to one-third of the cotton ginned, on the average, and practically all cottonseed except that saved by growers for use on farms. Many ginners also conduct various other sideline activities on the gin yard, and policies regarding these activities often have a direct bearing on charges made for ginning services.

CHARGES FOR GINNING COTTON 1/ Seasons 1947-48 to 1954-55

By A. J. Fortenberry, agricultural economist, Market Organization and Costs Branch, Marketing Research Division, Agricultural Marketing Service

IMPORTANCE OF THE GINNING INDUSTRY

Cotton ginning was once chiefly a farm operation, but, since the turn of the century, it has been streamlined into a highly specialized commercial activity. The aggregate investment in ginning facilities currently in operation probably approaches 400 million dollars.

For many years, the trend in ginning has been toward fewer but larger and better equipped gin plants, designed to handle the cotton crop more efficiently, particularly in maintaining quality. The number of active gins in the United States has decreased from 26,234 in 1910 to 7,069 in 1954, and volumes of ginning per gin at the same time have increased from 443 bales to almost 2,000 bales (table 1). Volume of ginning is a major factor in the cost structure of gin operation; at a given gin, usually, as volume of business increases, total ginning cost per bale decreases.

Growers have a direct interest not only in charges paid for ginning services but in gin equipment available and manner of its use. Grade, an important factor in determining the market value of cotton, can be influenced appreciably by the quality of the ginning service. The entire cotton industry depends largely upon ginners to preserve the inherent quality of cotton lint.

Significance of ginning as an item of cost to growers is shown by the fact that the estimated total charges paid for ginning services averaged almost 161 million dollars yearly for the seasons 1947-48 to 1954-55. Seasonal charges during the 8-year period ranged from 107 million dollars in 1947-48 to an all-time high of about 209 million dollars in 1953-54.

Ginners normally buy the cottonseed from each lot of seed cotton they gin, and deduct the ginning charges from amounts due farmers for seed. During the 27 years 1928-29 to 1954-55, ginning charges per 500-pound gross weight bale have averaged about 41 percent of the farm value of the cottonseed (table 2). But in the depression of the early 1930's, charges paid by growers often exceeded the value of the seed.

1/ This is the fourth in a series of reports dealing with ginning charges and related data in the United States. Previous reports in order of release were: (1) Rates for Ginning and Wrapping American Cotton and Related Data, Seasons 1928-29 to 1935-36, by J. W. Wright and W. B. Lanham, Bur. Agr. Econ., January 1937 (mimeographed); (2) Charges for Ginning Cotton, by John W. Wright and R. C. Soxman, Agr. Mktg. Serv., January 1942 (processed); and (3) Charges for Ginning Cotton, 1941-42 to 1946-47, by Arthur L. Roberts and A. J. Fortenberry, Prod. and Mktg. Admin., September 1947 (processed). This report includes data for the period 1947-48 to 1954-55 and brings up to date some of the material contained in the previous publications. Table 1.--Cotton production in the United States, number of active gins, and average volume of ginning per gin, seasons 1910-11 to 1954-55

: Average : volure of :ginning per gin	: Bales	: 963	: 761	830	: 982	: 1,476	: 973	: 994	: 1,079	: 964	: 1,190	: 1,133	: 1,291	: 1,044	: 1,046	: 1,433	: 1,802	: 1,592	: 1,323	: 1,980	: 2,056	: 2,306	: 1,935	••	••	
Active gins	Number	13,543	12,663	12,812	12,625	12,838	12,279	11,885	11,650	11,148	10,775	10,090	9,470	8,632	8,257	8,272	8,249	8,097	7,570	7,650	7,364	7,141	7,069			
•• •• ••	••••	••••	••	••	••	••	••	••	••	••		: 2		••~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	••	••	••	•• ~	••	••	••	••	••	••	••	
Cotton production 1/	Bales	13,047,263	9,636,559	10,638,391	12, 398, 883	18,945,028	11,944,340	11,815,759	12,564,988	10,741,589	12,819,506	11,428,74	12,230,053	9,016,067	8,639,595	11,856,74	14,868,269	16,127,948	10,014,335	15,148,273	15,139,47	16,464,801	13,678,803			
		• ••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	3		••	
Season		1933-34	1934-35	1935-36	1936-37	1937-38	1938-39	1939-40	1940-41	1941-42	1942-43	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	•		
•• •• ••	•••••	• ••	••	** **	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	**	••	
: Average : volume of :ginning per gin	: Bales	: 443	: 596	: 542	: 572	: 657	: 483	: 530	: 555	: 625	: 607	: 729	: 491	: 633	: 663	: 880	: 1,040	: 1,141 :	: 872	: 967	: 997	960 :	: 1,208	: 958	••	
s	20	34	149	79	49	47	62	24	Z	65	Ъ	<u>to</u>	92	20	98	78	82	ŝ	63	74	68	08	57	20		
Acti gin	quun :	: 26,2	: 26,3	: 25,2	: 24,7	: 24,5	: 23,1	: 21,6	: 20,3	: 19,2	: 18,8	: 18,4	: 16,1	: 15,4	: 15,2	: 15,4	: 15,4	: 15,7	: 14,8	: 14,9	: 14,8	: 14,5	: 14,1	: 13,5	••	t bales
Cotton production 1/	Bales	11,608,616	15,692,701	13,703,421	14,156,486	16,134,930	11,191,820	026,644,611	11,302,375	12,040,532	11,420,763	13,439,603	7,953,641	9,762,069	10,139,671	13,627,936	16,103,679	17,977,374	12,956,043	14,477,874	14,824,861	13,931,597	17,095,594	13,001,508		ud gross-weigh nary.
•• •• ••	•••••	• ••		••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	imi
Season		1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18	1918-19	1919-20	1920-21	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30	1930-31	1931-32	1932-33		$\frac{1}{2}$ / Prel

Compiled from reports of the Bureau of the Census.

Table 2.--Average charges for ginning services, farm value of cottonseed and cotton lint, and percent of farm values represented by ginning charges, seasons 1928-29 to 1954-55

	Per 500-	-pound gro	ss-weight	bale	:	:	Percent of
:		: Farm	value of		: Percent of	:0	combined farm
:	~	: . :	:		:farm value of	: 1	value of
	Unarges	: :	:	Combined	: cottonseed	:	cottonseed
Season	Ior	: Cotton-:	Cotton :	cotton-	: represented	:	and lint
:	ginning	: seed :	lint :	seed and	: by ginning	:	represented
:	services	: :	:	lint	: charges	:	by ginning
		: :	:		:	:	charges
:	Dollars	: Dollars:	Dollars:	Dollars	: Percent	:	Percent
1009 00	r 06	:	80.00	105 09	:	:	r' 🗩
1920-29	5.70	: 15.10 : . 12 71 .	09.90	105.00	· 37.3	•	2•1
1929-30	5.14	: 13.15 :	03.90 :	97.05	: 41.7	:	5.9
1930-31	5.05	: 9.02 :	47.30 :	57.12	: 51.4	:	8.8
1931-32:	4.04	: 3.99 :	28.30 :	32.29	: 101.3	:	12.5
1932-33	4.34	: 4.50 :	32.60 :	37.18	: 94.8	:	11.7
1933-34	4.76	: 5.73 :	50.85 :	56.58	: 83.1	:	8.4
1934-35:	5.05	: 14.71 :	61.80 :	76.51	: 34.3	:	6.6
1935-36:	5.03	: 13.56 :	55.45 :	69.01	: 37.1	: :	7.3
1936-37	4.93	: 14.79 :	61.80 :	76.59	: 33.3	:	6.4
1937-38:	4.89	: 8.68 :	42.05 :	50.73	: 56.3	:	9.6
1938-39:	4.72	: 9.69 :	43.00 :	52.69	: 48.7	:	9.0
1939-40:	4.67	: 9.41 :	45.45 :	54.86	: 49.6	:	8.5
1940-41:	4.76	: 9.65 :	49.45 :	59.10	: 49.3	:	8.1
1941-42:	5.71	: 21.24 :	85.15 :	106.39	: 26.9	:	5.4
1942-43:	5.95	: 20.33 :	95.25 :	115.58	: 29.3	:	5.1
1943-44:	6.18	: 21.32 :	99.50 :	120.82	: 29.0	:	5.1
1944-45:	6.44	: 21.11 :	103.65 :	124.76	: 30.5	:	5.2
1945-46:	6.40	: 20.76 :	112.60 :	133.36	: 31.1	:	4.8
1946-47:	8.09	: 29.22 :	163.15 :	192.37	: 27.7	:	4.2
1947-48:	9.00	: 33.92 :	159.60 :	193.52	: 26.5	:	4.6
1948-49:	9.65	: 26.88 :	151.90 :	178.78	: 35.9	:	5.4
1949-50:	10.47	: 17.81 :	142.85 :	160.66	: 60.2	:	6.5
1950-51:	11.19	: 35.40 :	199.50 :	234.90	: 31.6	:	4.8
1951-52:	12.04	: 28.85 :	188.45 :	217.30	: 41.7	:	5.5
1952-53:	12.44	: 28.47 -:	170.85 :	199.32	: 43.7	:	6.2
1953-54	12.69	: 21.58 .:	160.50 :	182.08	: 58.8	:	7.0
1954-55:	12.83	1/25.15 :	1/164.30 :	189.45	: 51.0	:	6.8
:		: :	:		:	:	
27-year :		: :	:		•	:	
average:	7.26	: 17.55 :	99.13 :	116.68	: 41.4	:	6.2
		:	:		:	:	
1/ Prelim	inary.						

For the 8-year period 1947-48 to 1954-55, ginning charges represented about 43 percent of the farm value of cottonseed, ranging from about 26 percent in 1947-48 to 60 percent in 1949-50. During the same period, ginning charges as a proportion of the combined farm value of seed and lint averaged about 6 percent and ranged from 4.6 percent in 1947-48 to 7.0 percent in 1953-54. These figures parallel those covering the entire 26-year period.

SOURCES OF DATA

Information contained in this report is based primarily on annual field surveys of selected gins representing more than 10 percent of the active gins in the Cotton Belt. Gins included in the sample each season were selected to provide a cross-section of the industry from the standpoint of size, geographical location, operating practices, equipment installed, and varieties of cotton ginned. These data are supplemented by those from secondary sources, which are cited in each instance.

METHODS OF ASSESSING GINNING CHARGES

Ginners in the United States usually adopt one of four basic methods of assessing charges for ginning, as follows:

- 1. A rate per hundredweight of seed cotton.
- 2. A rate per hundredweight of lint.
- 3. A flat charge per bale.
- 4. A toll charge (a stated proportion of the seed cotton to become the property of the ginner).

Individual ginners rarely apply more than one method of assessing charges during a season. The method used is determined chiefly by two somewhat interrelated factors--local custom and condition of seed cotton received at the gin. Rates under each method may include the cost of bagging and ties, but in most instances, separate charges are made for wrapping materials.

Charges are based on seed cotton weights in most areas where rough harvesting is common or where both handpicked and roughly harvested cotton normally are received at the gin. In some States one method is used almost exclusively, while in others all four of the basic systems are employed to some extent. In any one State, however, one method usually predominates.

The charge per hundredweight of seed cotton continues in widest use for the Cotton Belt as a whole. During the 3 periods in which these data were assembled--the 13 years 1928-40, the 6 years 1941-46, and the 8 years 1947-54-use of this method in the United States increased from 58 to 66 to 72 percent of the crop, respectively. Use of each of the other methods decreased in successive periods. From 1947-48 to 1954-55, charges for ginning practically all of the crop in the Western and Southwestern regions and almost three-fourths of that in the South Central region were assessed on the basis of seed cotton weights (table 3). In the Southeastern region, this method was used extensively only in North Carolina, and its use there has been decreasing.

Charges based on the hundredweight of lint were assessed on about 19 percent of the total crop during the seasons 1947-48 to 1954-55. This system predominated only in the Southeast and there only in two States--Georgia and South Carolina. Louisiana was the only other State in which this method was used most commonly.

A flat charge per bale for ginning was made on about 9 percent of the bales ginned in the United States from 1947-48 to 1954-55. Widest use of this method occurred in the Southeast, but there it predominated in only one major cotton State--Alabama. Charges for about one-tenth of the crop in the South Central region were assessed on a per-bale basis, the most noticeable application of this method being in Tennessee.

From all indications, the toll method of collecting ginning revenue is gradually being abandoned, although it was never of great importance in any one State within the past few decades. The practice by ginners of accepting fixed proportions of seed cotton in payment for ginning services usually was employed only in those States where handpicking was the predominant harvesting method and where seed cotton weights were fairly uniform throughout the season. The usual charge was 5 percent of the seed cotton weight if ginning included bagging and ties, or 4 percent if separate charges were made for wrapping materials.

In a few States, cotton is sometimes ginned and wrapped in exchange for the cottonseed. From 1947-48 to 1954-55, this practice was confined entirely to the South Central region, and there it represented only about 1 percent of ginnings. This method customarily is used only on very roughly harvested cotton received near the end of the season.

CHARGES FOR GINNING COTTON

Because of the several systems of assessing charges throughout the Cotton Belt, ginning rates as such are not directly comparable. 2/ Therefore, rates have been converted to a common base, representing the charge to the grower for ginning and wrapping a 500-pound gross-weight bale. 3/

2/ Estimated average charges under each of the various systems of assessing charges are reported by States and seasons in tables 25 to 32, pages 39 to 46. 3/ Formulas used in converting rates under the various systems to a common base are listed on page 47. Table 3.--Methods of assessing ginning charges: Proportionate use of specified methods by States and regions; average for 8-year period 1947-48 to 1954-55

	Method of assessing ginning charge											
State and region	Per bale	Fer cwt.	Per cwt.	Seed cotton toll	Total							
Alabama Florida Georgia North Carolina South Carolina Virginia	Percent 68.5 55.0 10.5 19.3 5.7 81.5	Percent 28.5 45.0 82.2 38.3 85.0	: <u>Percent</u> : : 2.5 : : : : 4.7 : : 41.6 : : 9.3 : : 18.5 :	Percent 0.5 2.6 .8	Percent 100.0 100.0 100.0 100.0 100.0 100.0							
Southeastern region	30.0	: : 57.7	: 11.3 :	1.0	100.0							
Arkansas. Louisiana. Mississippi. Missouri. Tennessee. South central region.	2.0 0.1 8.7 0.1 54.3	2.3 81.4 11.9 . 6.9	2 95.0 2 18.5 2 79.4 2 95.7 2 34.8 2	2/	1/ 99.3 100.0 100.0 1/ 95.8 1/ 96.4							
	9.9	: 16.9	: 72.1 :	.1	1/ 99.0							
Oklahoma Texas	2/	: :	100.0 93.9		100.0 100.0							
region	2/	5.6	94.4		100.0							
Arizona California New Mexico Western		* * * *	100.0 100.0 100.0 100.0 100.0 100.0		100.0 100.0 100.0							
region		2 mmm	: 100.0 :		100.0							
United States	9.2	: 18.7	* * * * 71.6 *	0.2	1/ 99.7							

1/ Differences between 100 percent and the percentages shown represent cotton ginned in exchange for the cottonseed. 2/ Less than 0.05 percent.

Charges for Ginning Upland Cotton

Through the last 20-odd years, charges for ginning upland cotton have followed rather distinct regional patterns. Average charges per 500-pound grossweight bale since 1928 have been lowest in the Southeast, and since 1932 have been highest in the Southwest (fig. 1). For the last quarter-century, ginning charges in the South Central and Western regions have followed a rather parallel course.

The low level of charges in the Southeast results from several factors, chief of which are: (1) Labor normally is less expensive than in other regions, (2) practically all cotton is harvested by handpicking, (3) the average gin is less elaborately equipped, and (4) second-hand wrapping materials are used to a greater extent than in other regions.

In direct contrast, the continuing high level of charges in the Southwest results from factors almost the reverse of those in the Southeast: Labor is more expensive; most of the crop is roughly harvested, either handsnapped or mechanically stripped; more elaborate gins are necessary to handle the cotton and maintain its inherent quality; and new bagging and ties are used almost exclusively.

From 1947-48 to 1951-52, the Western region ranked next to lowest in ginning charges, but in more recent seasons it has ranked next to highest. Reasons for this rising level of charges are: (1) Increased proportions of the crop harvested by mechanical pickers, (2) relatively higher labor costs, and (3) the tremendous costs involved in erecting new gins or modernizing existing gins with necessary machinery and equipment to handle mechanically harvested cotton. The number of active gins in the West has more than doubled since 1945, whereas the number of gins in other regions has steadily decreased.

During the 8-year period 1947-48 to 1954-55, seasonal average charges by ginners in the United States for ginning and wrapping upland cotton ranged from \$9 per 500-pound gross-weight bale in 1947 to \$12.83 in 1954 (table 4). Progressive increases occurred from season to season for the Cotton Belt as a whole. In the last few years, however, charges have tended to level off somewhat. In Alabama, charges decreased very slightly in each of the last two seasons, and in 1954-55 average charges in six other States were a trifle lower than for the prior season.

Ginning charges not only vary widely among regions but even between States in the same region. For the period 1947-48 to 1954-55, charges in Missouri averaged \$15.55 per 500-pound bale, the highest for any of the major cottonproducing States (fig. 2). Similar charges in Tennessee, which adjoins Missouri, averaged \$9.69 per bale, and ranked 11th from the high among the 16 major cotton States.

In most States, charges for drying seed cotton and, in recent seasons, charges for lint cleaning, if either driers or lint cleaners were used, were included in the ginning rate. However, in Arizona and California and in isolated cases in a few other States, separate charges were made for these services. Generally, total charges were no higher in such cases, but represented only a difference in method of charging for the complete ginning service. These additional charges are reflected in average charges for ginning, reported in table 4 and elsewhere cited in this report, for the period 1947-48 to 1954-55.



upland	
of	
bale	
gross-weight	to 1954-55
500-pound	5, 1947-48
per	asons
imated averages	and regions, se
ces: Est	y States
servi	ton, b
ginning	cot
for	
4Charges	
Table	

0

State : and :	1947-48	: 1948-49	: 1949-50	: 1950-51	: 1951-52	: 1952-53	: 1953-54	: 1954-55	:Average :1947-48 to
* • • • • • • • • • • • • • • • • • • •	Dollars	: Dollars	: Dollars	: Dollars	: Dollars	: Dollars	: Dollars	: Dollars	: Dollars
••				••		••	••		
Alabama	7.08	. 7.35	: 7.22	α.00 	: 8.37	: 8.95	: 8°9	: 8.84	: 8.05
Florida:	7.13	: 7.31	: 7.59	: 8.72	: 10.00	: 10.82	: 11.18	: 10.71	: 9.71
Georgia:	6.87	: 7.58	: 7.74	: 8.90	: 9.71	: 9.74	: 9.77	: 9.72	: 8.81
North Carolina:	7.39	: 8.36	: 8.31	: 9.38	: 10.07	: 10.23	: 10.31	: 10.54	: 9.27
South Carolina:	7.00	: 7.75	: 8.01	: 9.00	. 9.58	: 9.48	: 9. ⁸ 1	: 9.76	: 8.77
Virginia	6.72	: 8.00	: 7.57	: 7.2Li	: 8.68	: 8.33	: 9.13	: 9.85	: 8.18
Southeastern :			••	••	••		••	••	••
region	7°06	: 7.70	: 7.73	: 8.67	: 9.36	: 9.53	: 9.57	. 9.58	: 8.63
Arkansas	9.50	: 10.23	: 10.48	: 12.73	: 13.42	: 13.36	: 13.39	: 14.24	: 12.04
Louisiana	8.26	: 9.04	9.08	: 10.55	: 11.17	: 12.01	: 12.04	: 12.59	: 10.68
Mississippi	8.09	: 9.02	9.55	: IU.33	: 10.68	: 10.69	: 11.15	: 11.27	: lu.09
Missouri	12.11	: 13.24	: 13.79	: 17.51	: 17.75	: 16.97	: 16.56	: 17.46	: 15.55
Tennessee	7.77	: 8°40	8.48	: <u>10.02</u>	: 10.40	: 10.42	: 10.91	: 11.12	: 9.69
South Central :		6.0		••		••	••	••	••
region 1/	8.81	: 9.68	: 10.08	: 11.62	: 12.01	: 12.08	: 12.31	: 12.96	: 11.15
Oklahoma	89°11	: 12.32	: 12.76	: 13.27	: 15.84	: 14.87	: 15.12	: 15.06	: 13.85
Texas	10.65	: 11.54	: 12.02	: 12.58	81.4L :	: 14.79	: 14.34	: 14.00	: 13.05
Southwestern :		••	••	••		••	• •		
region	10.74	: 11.63	: 12.08	: 12.63	: 14.34	: 1179	: 14.41	: 14.07	: 13.12
Arizona	8°90	11.6 :	9.10	: 9.52	: 11.41	: 12.13	: 13.75	: 12.47	: 11.53
California:	07.8	. 9.40	: 9.54	: 10.15	: 11.20	: 12.92	: 13.65	: 11.20	: 11.66
New Mexico	. 9.21	: 10.77	: 11.70	: 11.14	: 14.42	: 12.97	: 13.68	: 12.66	: 12.33
Western			••	66		••	••	••	••
region	8 .62	: 9.54	: 9.70	: 10.09	: 11.56	: 12.69	: 13.69	: 13.47	: 11.69
••		••	••	••	••	••	••	••	••
United States .:	00.6	: 9.65	: 10.47	: 11.19	: 12.04	: 12.44	: 12.69	: 12.83	: 11.36
••			••	08	8.0		••	••	••
1/ Includes Ill	inois and	Kentucky.		and the second se	an a				

- 9 -



Charges for Ginning American-Egyptian Cotton

American-Egyptian cotton has been grown commercially in the United States since 1918, and during the 8-year period 1947-48 to 1954-55, production ranged from a low of 1,208 bales in 1947-48 to a record high of 93,467 bales in 1952-53 (table 5). This specialty cotton is produced almost exclusively in the irrigated sections of Arizona and the Rio Grande Valley of Texas and New Mexico and is ginned on roller gins because of its extra-long fiber and comparatively slick seed.

Table 5	-Production	of Ameri	can-Egyptian	cotton in the	United States	s, and
average	charge for	ginning	and wrapping	per 500-pound	gross-weight	bale,
seasons	1947-48 to	1954-55				

: Season : ;	Production <u>1</u> /	: Average charge for ginning : and wrapping per 500-pound : gross-weight bale
:	Bales	: Dollars
1947-48 1948-49 1949-50 1950-51 1951-52 1952-53 1953-54 1954-55	1,208 3,465 3,889 62,235 46,049 93,467 64,527 40,919	15.47 17.90 18.20 21.06 21.24 22.81 23.52 20.24

1/ Running bales.

Charges for ginning American-Egyptian cotton are considerably higher than for upland cotton ginned on saw gins because roller gin operation requires much more attention and labor. Also, charges customarily are assessed on the basis of the hundredweight of seed cotton, and relatively large quantities are necessary to produce a 500-pound gross-weight bale.

From 1947-48 to 1954-55, average charges for ginning this extra-staple cotton in the United States ranged from \$15.47 per 500-pound bale in 1947-48 to \$23.52 per bale in 1953-54. Charges were progressively higher from one season to another except for 1954-55, when the average charge was about 14 percent below that of the previous season. This apparently was due, for the most part, to more favorable gin turnouts as the result of increased production of a new and improved strain.

FACTORS AFFECTING GINNING CHARGES

Average charges for ginning, on a Belt-wide basis, have more than doubled since 1928, as have costs of numerous other services and products. Growers, however, are expecting and receiving a greatly different type of ginning service than was provided 25 years ago. Changes in methods of harvesting have placed greatly increased responsibilities on ginners for preserving cotton quality, causing numerous ginners to revamp their operations substantially.

Numerous factors, both measurable and immeasurable, have some bearing on the charges paid by growers for ginning services. Some of the most important considerations include: (1) The level of business or economic conditions and their relation to wages and prices generally, (2) methods of harvesting, (3) weight of seed cotton per bale of lint, (4) capacity of gins and volume of ginning, (5) types of gin equipment and manner and extent of use, and (6) quality of the ginning service.

General Business and Economic Conditions

Ginning, for the most part, is considered a highly competitive industry, and charges therefore are influenced largely by the cost of and demand for the service. However, in Oklahoma, ginning rates are regulated by State authority.

On a Belt-wide basis, ginning charges over a period of time tend to vary directly with general economic conditions. From 1928 to 1948, the level of ginning charges paralleled very closely the U. S. wholesale price index for all commodities, an index widely recognized as a reliable indicator of price levels (table 6 and figure 3). Beginning in 1949 and continuing through 1955, however, charges showed considerable advance not registered by the index of wholesale prices, apparently as a result of increased demands upon the industry for additional equipment and services to meet changes in harvesting practices.

In relation to farm prices for cotton, ginning charges--as is the case with any service charge--generally are subject to only minor changes from one season to another while cotton prices often change sharply. Over a long period, however, there is a general relationship between ginning charges paid and prices received by growers.

Methods of Harvesting Cotton

Variations in ginning charges from one section of the Cotton Belt to another often are the result of differences in harvesting practices. In those areas where charges are assessed according to the hundredweight of seed cotton, charges necessarily are higher per bale for handsnapped than for handpicked cotton due to the additional weight of excess trash and higher investments in ginning facilities. Table 6.--Indexes of average charges for ginning cotton as related to indexes of average farm prices of upland cotton and the wholesale price indexes for all commodities, seasons 1928-29 to 1954-55 (1947-49=100)

Season <u>1</u> /	Average charge per 500-pound bale for ginning services	Average farm price of cotton per pound 2/	•	Wholesale prices for all commodities
	Index	Index	:	Index
1928-29 $1929-30$ $1930-31$ $1931-32$ $1931-32$ $1932-33$ $1933-34$ $1934-35$ $1935-36$ $1936-37$ $1937-38$ $1938-39$ $1939-40$ $1940-41$ $1940-41$ $1941-42$ $1942-43$ $1943-44$ $1944-45$ $1945-46$ $1946-47$ $1945-46$ $1946-47$ $1947-48$ $1948-49$ $1949-50$ $1950-51$	60.9 58.7 51.6 41.3 44.4 48.7 48.7 51.4 50.4 50.0 48.3 47.8 48.7 58.4 60.8 63.2 65.8 65.4 82.7 92.0 98.7 107.1	Index 59.7 55.7 31.4 18.8 21.6 33.8 41.0 36.8 41.0 27.9 28.5 30.1 32.6 56.3 65.6 65.6 108.3 100.1 94.9 132.5		61.7 59.5 50.7 43.9 41.1 47.1 51.0 52.1 55.3 53.1 50.0 50.9 53.1 62.0 66.2 67.3 68.2 71.1 91.1 102.0 102.2 98.8
1951-52	123.1	125.1	*	112.7
1952-53	127.2	: 113.4	:	110.4
1953-54	129.8	: 106.6	:	110.5
±704=00 · · · · · · · · · · · · · ·	T)TOC	• TTT • 5	•	TTA • T

1/ Year beginning August 1.

2/ Data for seasons 1928-29 to 1935-36 represent prices for all cotton; data from 1936-37 to 1954-55 represent prices for upland cotton only.



Figure 3

Table 7.--Proportion of upland cotton harvested by specified methods, by States and regions, seasons 1947-48 and 1954-55

- 15 -

Handpicking continues to be the principal method of harvesting in the United States, although its use by growers declined noticeably during the last 10 years. Use of mechanical methods in harvesting increased considerably over the entire Cotton Belt, while the practice of handsnapping varied moderately from season to season. Factors prompting the shift from conventional handpicking to other methods are chiefly: (1) A growing scarcity of labor, (2) increasing costs of handpicking, (3) the trend toward complete mechanization of farming operations, and ($\dot{\mu}$) speed-up of harvest during favorable weather.

From 1947-48 to 1954-55, proportions of the United States cotton crop harvested by handpicking decreased from about 78 percent to 54 percent (table 7). Over the same period, the use of mechanical pickers steadily increased from an almost negligible proportion in the earliest season to about 16 percent in 1954-55. Harvesting by mechanical strippers increased moderately while handsnapping varied seasonally from about 18 to 26 percent.

The extent to which the different methods were used varied considerably from one region to another. In both 1947-48 and 1954-55, most of the cotton grown in the Southeastern and South Central regions was harvested by handpicking. In the Southwest, handsnapping predominated in both seasons, and its use gradually increased during the 8-year period.

Greatest strides in use of mechanical pickers were made in the Western region where such machines now harvest more than one-half of the crop. In 1947-48, nearly nine-tenths of the Western crop was harvested by handpicking. However, production in that area has increased greatly and mounting labor costs were met by wide-scale introduction of machines.

Before 1950, practically all of the American-Egyptian crop was harvested by handpickers, but in recent years, mechanical pickers have been used to a considerable extent (table 8). Almost one-fourth of the crop during the last three seasons was picked by machine but less than 1 percent was handsnapped since this extra-long-fibered cotton is more difficult to clean than upland cottons.

:			Method	of	harvestin	g-	
Season :	Handpicked	: H	andsnapped	•	Machine picked	:	Total
	Percent	:	Percent	:	Percent	:	Percent
1950-51 1951-52 1952-53 1953-54 1954-55	95.4 84.6 75.0 71.5 75.5	••••••	3.0 4.0 .5 4.0 .5	•	1.6 11.4 24.5 24.5 24.0		100.0 100.0 100.0 100.0 100.0

Table 8.--Proportions of American-Egyptian cotton harvested by specified methods, seasons 1950-51 to 1954-55

Weight of Seed Cotton per Bale

Charges for ginning assessed on the basis of the hundredweight of seed cotton are directly affected by the quantities of cotton necessary to produce a bale of lint. The amounts of seed cotton required to produce a 500-pound bale vary widely in weight mainly because of methods used in harvesting and to a lesser extent according to variety. Variations in weights between balelots of handpicked and handsnapped seed cotton, for example, often are as great as 700 pounds. From an economic standpoint, such differences are very important since charges over the Cotton Belt most commonly are assessed on seed-cotton weights.

From 1947-48 to 1954-55, weights of handpicked upland seed cotton needed per 500-pound gross-weight bale in the United States ranged from 1,305 pounds in the earlier season to 1,392 pounds in 1954-55 (table 9). A slight upward trend in weights was indicated, although some variations occurred within the period. Weights of handpicked seed cotton needed per bale were higher in Missouri, Oklahoma, and Texas, and in recent seasons have increased considerably in Arizona and California.

Table 9.--Average weight of handpicked seed cotton required per 500-pound grossweight bale of upland cotton, by States, seasons 1947-48 to 1954-55

Chata	:			Seas	son			
State	:1947-48	:1948-49	:1949-50	:1950-51	:1951-52	:1952-5	1:1953-51	:1954-5
	:Pounds	:Pounds	:Pounds	:Pounds	:Pounds	:Pounds	:Pounds	:Pounds
	• •	*	0 0	*	*	*	•	:
Alabama	: 1,256	: 1,298	: 1,341	: 1,299	: 1,334	: 1,315	: 1,299	: 1/
Arizona	: 1,304	: 1,385	: 1,333	: 1,319	: 1,440	: 1,475	: 1,415	: 1,408
Arkansas	: 1,309	: 1,299	: 1,375	: 1,369	: 1,396	: 1,338	: 1,346	: 1,405
California	: 1,289	: 1,315	: 1,327	: 1,363	: 1,400	: 1,420	: 1,410	: 1,478
Florida	: 2/	: 2/	: 2/	: 2/	: 2/	: 2/	: 2/	: 2/
Georgia	: 1,271	: 1,309	: I/	: 1/	: 1/	? Ī/	: 1/	: 1/
Louisiana	: 1,307	: 1,306	: ī/	: 1/	: 1/	: 1/	: 1/	: 1/
Mississippi	: 1,261	: 1,269	: 1,330	: 1,303	: 1,319	: 1,289	: 1,328	: 1,339
Missouri	: 1,418	: 1,398	: 1,481	: 1,460	: 1,500	: 1,421	: 1,408	: 1,481
New Mexico	: 1,332	: 1,346	: 1,327	: 1,344	: 1,411	: 1,312	: 1,389	: 1,333
North Carolina	: 1,268	: 1,332	: 1,350	: 1,327	: 1,342	: 1,343	: 1,320	: 1/
Oklahoma	: 1,410	: 1,503	: 1,378	: 1,391	: 1,410	: 1,336	: 1,368	: 1,443
South Carolina	: 2/	: 2/	: 2/	: 2/	: 2/	: 2/	: 2/	: 2/
Tennessee	: 1,277	: 1,285	: 1,360	: 1,344	: 1,354	: 1,324	: 1,326	: 1,346
Texas	: 1,384	: 1,384	: 1,376	: 1,427	: 1,432	: 1,397	: 1,403	: 1,410
Virginia	: 1,275	: 1,325	: 1,393	: 1,344	: 1,309	: 1,366	: 1,293	: 1,307
	•	•	•	:	:	:	:	:
United States.	: 1,305	: 1,316	: 1,358	: 1,356	: 1,371	: 1,347	: 1,367	: 1,392
	:	:	:	:	:	:	:	:

1/ Insufficient data.

2/ Seed cotton customarily not weighed.

For the most part, differences in weights required per bale perflect differences in methods used in harvesting, but the variety of cotton grown is an important factor. Although the major part of the American crop is still harvested by handpicking, the trend toward rougher harvesting methods is increasing rapidly. Even handpicked cotton varies widely in cleanness from one area to another.

Handsnapping is the normal harvesting method followed in parts of Texas and Oklahoma. In most other sections of the Belt, cotton is customarily handsnapped only in the late part of the season. Handsnapped cotton normally contains in addition to the burs, considerable other foreign matter such as leaf trash, stems, and dirt. In such cases, weights of seed cotton needed to produce a bale of lint are increased by several hundred pounds.

From the national standpoint, average weights of handsnapped seed cotton necessary to provide a standard-weight bale ranged from 1,856 pounds to 2,015 pounds during the 8-year period 1947-48 to 1954-55 (table 10). A slight upward trend in weights is indicated for the period as a whole. Such weights exceeded those for handpicked cotton by from 498 to 644 pounds each season. Belt-wide average weights of handsnapped seed cotton per bale reflect to a large extent weights of such cotton in the Southwest where most of the crop is handsnapped.

								_		_		-			
Ctoto :							Se	a	son						
Duale :	1947-48	3:	1948-49):	1949-50):.	1950-51	.:.	1951-52	::	1952-53	3:3	1953-51	1:]	1954-55
0	Pounds	:	Pounds	:	Pounds	:]	Pounds	:]	Pounds	:]	ounds	:F	Pounds	•	ounds
		:		:		:		:		:		:		:	
Alabama:	1,709		1,820	:	1,929	:	1,878	:	1,818	:	1,648	:	1,655	:	2/
Arizona:	1,905	:	2,220	:	2,050	:	1,978	:	2,283	:	2,163	:	2,488	:	2,256
Arkansas:	1,913	0	1,925	:	1,835	:	1,987		2,037	:	2,088	:	2,087	:	2,033
California:	2,096	:	2,075	:	2,280	:	2,337	:	2,432	:	2,244	:	2,608	:	2,637
Mississippi:	1,791		1,662	•	1,612	:	1,605	:	1,621	:	1,857	:	1,915	:	1,791
Missouri	2,083	:	1,993	:	2,050	:	2,100	:	2,175		2,188	:	2,080	:	2,114
New Mexico:	1,938	•	2,202	:	2,121	:	2,011		2,240	:	2,211	:	2,209	:	1,955
North Carolina.:	1,644		1,730		1,890	:	2,136	:	1,866	:	1,628	:	2/	:	2/
Oklahoma:	1,922	:	1,934	:	1,877	:	1,977	:	1,970	:	1,938	:	1,935	:	1,902
Tennessee:	1,903	:	1,876	•	1,970	:	1,931	:	1,932	:	1,926	:	1,974	:	1,899
Texas	1,879	•	1,996	•	1,834	•	1,930	•	2,001	:	1,954	:	1,972		1,910
•		:		:		:		:		:		:		:	
United States:	1,891		1,957	:	1,856	•	1,949	:	2,015	•	1,971	:	1,989	:	1,943
•		•		:		:		:		:		:		:	
1/ Does not in	clude S	St	ates wh	ie:	re this	5 1	nethod	0	f harve	S	ting is	r	not use	d	or is

Table 10.--Average weight of snapped seed cotton required per 500-pound gross-weight bale of upland cotton, by specified States, seasons 1947-48 to 1954-55 1/

of minor importance.

2/ Insufficient data.

The trend toward machine harvesting has increased since 1946 and considerable data have been accumulated since that year on seed cotton weights required per bale for mechanically picked and stripped cotton. For the entire crop during the 8-year period 1947-48 to 1954-55, weights of machine-picked seed cotton ranged from 1,337 pounds to 1,524 (table 11). Over the 8-year period, weights of machine-picked cotton per bale exceeded handpicked weights by about 95 pounds, on the average.

Season :	Weights of seed 500-pound gros	l cotton ss-weight	required per bale for
Jeason	Machine-picked	:	Machine-stripped
:	cotton	:	cotton
:	Pounds		Pounds
:			Charlen and a second
1947-48	1,346	:	2,086
1948-49	1,337	:	2,154
1949-50	1,390	:	2,111
1950-51	1,387	:	2,167
1951-52	1,418	•	2,384
1952-53	1,452	:	2,291
1953-54	1,471	:	2,207
1954-55	1,524	e 0	2,173
•			

Table 11.--Average weight of machine-picked and machine-stripped seed cotton required per 500-pound gross-weight bale, seasons 1947-48 to 1954-55

From 1947-48 to 1954-55, weights of machine-stripped seed cotton per bale exceeded those for handpicked cotton by from 750 to 1,000 pounds each season. During the period 1941-42 to 1946-47, seasonal differences in balelot weights between handpicked and machine-stripped cotton ranged from about 900 to 1,200 pounds. The recently smaller weight difference between these two methods likely is due to both use of less care in handpicking and improvement in design and operation of strippers.

Although American-Egyptian cotton accounts for less than 1 percent of the total American crop each season, it is quite important to a limited number of growers in the irrigated sections of the West and Southwest. Ginning charges are assessed entirely on the basis of seed cotton weights, and rates are much higher than for upland varieties. Gin turnout, therefore, is a very important consideration to growers.

For the entire American-Egyptian crop during the period 1947-48 to 1954-55, quantities of handpicked seed cotton required per 500-pound bale ranged from 1,536 to 1,759 pounds (table 12). More than 1,900 pounds were necessary to gin a standard-weight bale in Arizona in 1953-54, but turnouts were much more favorable the following season due primarily to production of a new and improved strain. Information available on required weights of extra-longstaple seed cotton harvested by other methods than handpicking was very incomplete.

Table 12.--Average weight of handpicked seed cotton required per 500-pound gross-weight bale of American-Egyptian cotton, by States, seasons 1947-48 to 1954-55

State and	W	eight of	seed co	otton per	bale in	specifi	led seaso	n
area	:1947-48	:1948-49	:1949-50):1950-51	.:1951-52	:1952-53	3:1953-54	:1954-55
	:Pounds	:Pounds	:Pounds	:Pounds	:Pounds	:Pounds	:Pounds	:Pounds
Arizona	: 1,642	: 1,680	: 1,689	: 1,664	: 1,786	: 1,774	: 1,908	: 1,506
New Mexico	• • • • • •	\$ == -	:	: 1,473	: 1,407	: 1,592	: 1,642	: 1,541
Texas (Dist.6).	: 1,578	: 1,475	: 1,537	: 1,516	: 1,619	: 1,563	: 1,682	: 1,544
Western area.	: 1,593	: 1,536	: 1,599	: :1,603	: : 1,654 :	: : 1,648	: : 1,759 :	: : 1,552 :

Types of Gin Equipment

Under present-day methods of harvesting, gins in many areas require extensive auxiliary machinery in order to gin satisfactorily. This situation has caused many ginners in recent years to make expensive installations of additional conditioning and cleaning equipment. Added investments and operating costs represented by such equipment presumably have contributed to the upward trend in ginning charges.

Four principal types of auxiliary equipment are used in gins. This equipment includes: (1) Driers for reducing the moisture content of seed cotton that is too green or damp for proper cleaning and ginning, (2) extractors for removing burs, stems, limbs, and other bulky foreign matter, (3) cleaners for removing dirt and small particles of trash from the seed cotton, and (4) lint cleaners for removing dust, motes, and pin trash from the ginned lint. All gins use some of these types of equipment. Most of the newer or recently remodeled gins which handle roughly harvested cotton now operate all four types.

Even in 1945, the latest year for which complete data on gin equipment were available, considerable auxiliary equipment was in place throughout the Belt (table 13). In that season, gins in the Southeast had the least amount of equipment, and those in the Western region were the most elaborately equipped. Gins east of the Mississippi River generally do not receive as much roughly harvested cotton, and therefore do not require as extensive a combination of cleaning equipment as in the western half of the Cotton Belt. Since 1945, use of auxiliary equipment in gins has increased greatly. In fact some devices such as lint cleaners had not been manufactured commercially 10 years ago but are now commonplace in areas favoring their use.

At most gins in the United States, the use of auxiliary equipment is considered an integral part of the ginning operation, and regularly established charges for ginning cover necessary conditioning, cleaning, and extracting functions provided by available equipment. However, in Arizona and California, an additional charge usually is made at gins when driers and lint cleaners are used.

									_												
	:					(Ji	ns wi	t	h spe	eC:	ified	1 (equip	m	ent 1	./				
Region	:	Seed	С	ottor	1:	Maste	er	bur	:	Over	h	ead		Airl	i	ne	:1	Hull	ex	tract	ing
1061011		dri	Le	rs		extra	ac	tors		clea	m	ers	:	clea	m	ers	:	clear	in	ng fee	ders
	+	1945	:	1940	;	1945	.*	1940	:	1945		1940		1945	:	1940.	:	1945	:]	.940	
	:	Pct.	. :	Pct.	; :	Pct.	, :	Pct.	:	Pct.		Pct.		Pct.	:	Pct.	. :	Pct.	:	Pct.	
	:		:				:		:		:	Contracting of the		Constants	:	Castoria	:		:		
Southeastern	:	15	e 0	6	•	7		1	:	34	:	23	:	15	:	13	:	56	÷,	40	
South Central.	:	39	:	18	•	21	:	8	:	62		50		16	•	14	:	76	:	64	
Southwestern		31	:	9	:	53		51	:	81		79	:	49	:	46	:	76	:	60	
Western	:	72	:	36	:	62		32	:	89		81	•	50		52		76	:	61	
	:		:		:		:		:		:		:		:		:		:		
United States	5:	28		11	*	26		19	•	58	:	49		26	:	24	:	69	:	53	
	:		:		:	1.0	:				:		:		:		:		:		

Table 13.--Proportions of gins equipped with specified equipment, by regions, crop years 1945 and 1940

1/ Includes both active and inactive saw and roller gins, as reported by the U.S. Bureau of the Census.

Use of Seed Cotton Driers

Seed cotton driers were once found only in the more elaborate gin setups, but in recent years they have become standard equipment in most gins. In 1935-36, only 1 gin in 50 over the Cotton Belt was equipped with a drier (table 14). In 1954-55, 82 of every 100 gins had at least 1 drier of some type. Many of the more elaborate plants have 2 or more drying units or systems.

By regions, in 1954-55, 87 percent of the gins in the Southwest and practically all of those in the West were equipped with driers. In the Southeast and South Central regions, proportions of active gins with driers were 78 and 79 percent, respectively.

While 82 percent of the active gins in 1954-55 were equipped with driers, only 68 percent of the total crop passed through driers with heat applied. In 1945-46 only 36 percent of the gins had driers and 42 percent of the crop was subjected to heat before ginning. These comparative figures suggest that in the earlier season driers were found chiefly in gins with above average volumes--usually the larger and newer plants--and apparently were used on a very large proportion of bales received at such gins. In the latter season, most gins had driers but tended to make use of such equipment in a more selective manner.

The extent of drying practices at gins over the Cotton Belt, however, in no way indicates the manner of drying. The degree of heat applied by ginners may vary considerably and is dependent upon moisture in the seed cotton above the normal moisture content necessary for efficient ginning. Overdrying can be as damaging to the fiber as inadequate drying, both having appreciable influence on the ultimate quality of the ginned lint.

Table 14, --- Proportion of active gins equipped with seed cotton driers, and proportion of total ginnings passed through driers, by States and regions, in specified seasons

State and	Percent equippe	tage of ac	tive gins	Percentage of passed throu	of ginnings igh driers in-
region	1935-30	1945-40	· 1954=55	1945-40	· 1954-55
	Percent	Percent	: <u>Percent</u>	Percent	Percent
Alabama	1 3/ 1 3/	20 23 16 23	79 76 66 91	23 24 37 35	58 64 63 62
region 4/	1	23	78	29	62
Arkansas Louisiana Mississippi Missouri Tennessee	3 4 3 11	45 58 34 98 34	79 86 71 6/100 80	64 78 42 88 47	72 86 57 74 58
South Central region 5/	3	45	79	56	67
Oklahoma	1 2	38 41	85 87	47 40	53 66
Southwestern region	1	40	87	41	65
Arizona	2 18	57 99 74	6/100 6/100 92	29 74 9	62 93 46
Western region	9	84	99	38	78
United States	2	36	82	42	68

1/ Based on reports of the U. S. Bureau of the Census with all inactive gins deleted on the assumption that only active gins were equipped with seed cotton driers.

- 2/ Data based on surveys by the Agricultural Marketing Service.
- 3/ Less than 0.5 percent.
- 4/ Includes Florida and Virginia.
 5/ Includes Illinois and Kentucky.
- More than 99.5 percent; rounded to 100. 6/

Over most of the Cotton Belt, drying charges are included in the ginning rate, but in Arizona and California, separate charges usually are assessed for drying services. In recent seasons, such charges have averaged about \$1.50 per bale in both Arizona and California. Since large proportions of the crop in each of these States were subjected to this extra charge, the average cost of the entire ginning service was advanced considerably. For example, in 1954-55 additional expenditures by growers in California averaged \$1.02 per bale for the entire California crop.

Use of Lint Cleaners

The latest item of equipment to come into prominent use is the lint cleaner, which is an outgrowth of increases in machine harvesting. Within the last 6 years, installations of lint cleaners have expanded to a spectacular extent. In 1948-49, such cleaners were chiefly an object of curiosity, operating in only 28 commercial gins. $\underline{4}$ / By 1954-55, very nearly one-third of all active gins were so equipped (table 15). Their use was greatest in the West, where about 9 out of 10 gins operated these cleaners. In other regions, proportions of gins with lint cleaners ranged from about one-fourth in the Southeast to slightly less than one-third in the Southwest. This distribution in a very general way followed the pattern of use of mechanical methods of harvesting. By States, gins having lint cleaners ranged from 12 percent of those in Tennessee to 96 percent in California.

In 1954-55, slightly more than half the crop was lint-cleaned by the slightly less than one-third of the gins with such cleaners. Excluding the West, where practically all gins have lint cleaners, gins with these cleaners had volumes as a group which were considerably above average for their locations.

A surprising and somewhat disturbing fact was that 94 percent of the cotton received at lint cleaner-equipped gins was passed through these cleaners. This average high rate of use was Belt-wide, ranging from 90 percent in the South Central region to 97 percent in the Southwest. Minimum State-wide use was in Arkansas, where ginners having such equipment lint-cleaned 84 percent of their volume. In 9 of the 14 larger cotton-growing States, ginners used their lint cleaners more than 95 percent of the time.

For the Belt as a whole, about 7 out of 10 ginners operating lint cleaners used this equipment on every bale (table 16). Only 11 percent of the ginners with lint cleaners used them on less than 80 percent of the cotton, and only 5 percent passed less than 60 percent of their bales through the cleaners. Ginners in the South Central and Southwestern regions showed slightly more selective use, but even there about 60 percent of ginners lint-cleaned all bales as against around 80 percent in the West and Southeast.

Some caution is in order concerning use of lint cleaners. This type of equipment was developed to go beyond the practical limits of existing seed

^{4/} Gerdes, Francis L., "Cotton Lint Cleaning at Gins--An Evaluation from the Standpoint of Cotton Quality and Economic Factors," U. S. Department of Agriculture, May 1951 (processed).

Table 15.—Extent to which gins were equipped with lint cleaners, proportions of the total crop passed through lint cleaners, and proportions of ginnings lint cleaned at gins equipped with lint cleaners, by specified major cotton States and regions, season 1954-55

		Proportion of-	
State and region	Active gins equipped with lint cleaners	Total ginnings passed through lint cleaners	Ginnings lint cleaned at gins equipped with lint cleaners
1	Percent	Percent	Percent
Alabama	31.0 20.8 16.9 26.4	41.8 32.6 28.8 36.3	96.9 97.6 97.5 91.9
Southeastern region 1/	24.6	35.8	96_0
Arkansas Louisiana Mississippi Missouri Tennessee.	29.7 21.8 32.5 62.5 12.5	40.2 39.0 45.1 51.3 18.3	84.3 89.9 91.4 95.6 95.7
South Central region 2/	29.4	40.2	90.0
Oklahoma Texas	17.0 35.1	35.8 55.0	97.6 97.2
Southwestern : region	32,5	53.7	97.3
Arizona	94.4 96.3 53.8	89•4 92•3 57•7	96.8 93.6 99.9
region	89.4	87.6	95.1
United States	32,2	53.0	94.4

1/2/

Includes Florida and Virginia. Includes Illinois and Kentucky.

cotton cleaning in removing additional leaf and other trash particles often present in machine-harvested cotton. Lint cleaners have played an important role in helping growers realize the full value of crops gathered mechanically or in a relatively rough manner by hand. Lint cleaning, however, in some cases reduces net returns to growers. Cotton which is Middling or better before lint cleaning usually is not improved enough in grade value by such cleaning to offset the resulting loss in bale weight. Also, growers not uncommonly have to pay an added charge or higher rate for having the cotton lint-cleaned.

Table	16Prop	portionate	dist:	ribution	of lint	cleane	er-e	quipp	bed gi	ns a	according
to s	pecified	proportion	ns of	ginnings	lint-c	leaned	at	such	gins,	by	regions,
seas	son 1954-5	55									

	Dranantian	Prop	ort	ion of li	nt	cleaner-	equipped gir	is in
	of ginnings	South-	:	South	:	South-	Western	IInited
	lint alanad	eastern	L 🕄	Central		western	: western	Statos
	THIC CLEANED	region	:	region	*	region	: region	Duales
		Percent	:	Percent	*	Percent	: Percent :	Percent
	:		:		:		:	}
Less	than 40		:	3.2		1.2	: :	1.3
40.0	to 59.9	1.3	:	8.7			: 4.1 :	3.6
60.0	to 79.9	6.6		8.7	:	4.6	: 4.1 :	6.2
80.0	to 99.9	9.2	:	20.7	:	33.3	: 12.2 :	20.1
100.		82.9	:	58.7	:	60.9	: 79.6	68.8
	:	6	:		:		:	
Tot	tal	: 100.0	:	100.0	:	100.0	: 100.0	100.0
	:	:	:		:		:	

Ginners operating lint cleaners in 1954-55 did receive about one-third less handpicked cotton, proportionately, than did ginners not having such cleaners (table 17). Most machine-picked cotton was taken to lint cleanerequipped gins, the proportion of such cotton handled by lint-cleaner gins being about eight times greater than at gins without these cleaners. This decided preference of growers with machine-picked cotton for using gins with lint cleaning facilities was Belt-wide. On the other hand, most ginners having lint cleaners did receive important volumes of handpicked cotton and therefore had to exercise care and judgment in the selective use of the cleaners in protecting the best interests of their customers.

In all except the Western region, ginners seldom make a separate added charge for lint cleaning. In California and Arizona, where most gins have lint cleaners, most of the gins made a separate charge for this service of about \$1.50 per bale in 1954-55.

Although most ginners in Arizona and California had their schedules of charges arranged so that they got important revenue from running cotton through lint cleaners, this situation apparently had no real bearing on rate of use of the cleaners. Actually, in both States in 1954-55, ginners making separate added charges used their cleaners less than did ginners who provided lint cleaning at no extra charge. In both cases, however, charges for ginning presumably were increased by the high rates at which the service was provided. The major fact is that ginners everywhere should give more thought and attention to determining when cotton should be bypassed around such equipment.

Table 17.--Proportions of cotton received at gins with and without lint cleaners which were harvested by specified methods, by regions, season 1954-55

		Meth	0	d of harve	est	
Hand-	:	Machine		Hand-	: Machine	Total
picking	:	picking	:	snapping	stripping	
Percent	:	Percent	:	Percent	Percent	Percent
;	•				:	:
	•		:	:	:	:
			*	:	:	:
89.5		6.6	:	3.8 :	: 0.1 :	100.0
98.3	:	.8	•	.9 :	: <u>1</u> / :	100.0
	:		:	:	: .	:
61.1	:	25.4	:	13.4	.1	100.0
82.2	:	5.4	:	12.3	1	: 100.0
:	:		:			
21.0	:	3.0		54.0	: 22.0	100.0
16.4	:	1.7		68.2	: 13.7	: 100.0
	:		:	:		
39.6	:	53.9	:	6.3	. 2	100.0
78.9		6.6		14.1		100.0
	:		:			
			•			
15.3		25.8		22.2	6.7	100.0
65.6		3.2		26.9	1.3	100.0
0,10		202		2007	-++	
	Hand- picking Percent 89.5 98.3 61.1 82.2 21.0 16.4 39.6 78.9 45.3 65.6	Hand- picking : Percent : 89.5 98.3 61.1 82.2 21.0 16.4 39.6 78.9 45.3 65.6	Meth Hand- : Machine picking : picking Percent : Percent : 89.5 : 6.6 98.3 : .8 61.1 : 25.4 82.2 : 5.4 21.0 : 3.0 16.4 : 1.7 39.6 : 53.9 78.9 : 6.6 45.3 : 25.8 65.6 : 3.2	Method Hand- : Machine : picking : picking : Percent : Percent : 89.5 : 6.6 : 98.3 : .8 : 61.1 : 25.4 : 82.2 : 5.4 : 21.0 : 3.0 : 16.4 : 1.7 : 39.6 : 53.9 : 78.9 : 6.6 : 45.3 : 25.8 : 65.6 : 3.2 :	Method of harve Hand- Machine Hand- picking picking snapping Percent Percent Percent 89.5 6.6 3.8 98.3 .8 .9 61.1 25.4 13.4 82.2 5.4 12.3 21.0 3.0 54.0 16.4 1.7 68.2 39.6 53.9 6.3 78.9 6.6 14.1 45.3 25.8 22.2 65.6 3.2 26.9	Method of harvest Hand- Machine Hand- Machine picking picking snapping:stripping Percent Percent Percent Percent 89.5 6.6 3.8 0.1 98.3 .8 .9 1/ 61.1 25.4 13.4 .1 82.2 5.4 12.3 .1 21.0 3.0 54.0 22.0 16.4 1.7 68.2 13.7 39.6 53.9 6.3 .2 78.9 6.6 14.1 .4 45.3 25.8 22.2 6.7 65.6 3.2 26.9 4.3

1/ Less than 0.05 percent.

Ginning Preparation

The real cost to growers for ginning depends not only upon the charge paid but also upon the quality of service received. Upon occasion, differences in the quality of ginning performance between areas have been compared on the basis of relative amounts of cotton reduced in grade because of ginning preparation.

A most gratifying development has been the substantial decrease in recent years in the proportions of roughly ginned cotton in all parts of the Belt. During the 14-year period 1933-46, approximately 7 percent of ginnings suffered a reduction in grade because of ginning preparation (table 18). In the 8-year period 1947-54, only about 2 percent of the crop was roughly ginned, on the average. During both periods, however, relative amount of rough-ginned cotton by regions were progressively greater from east to west across the Belt.

	: 14-year period 1	19:	33-46	::	8-year period 1	947	7-54
Region	: Average charge : for ginning : services per : 500-pound :gross-weight bala	•••••••••••••••••••••••••••••••••••••••	Average percent of rough-ginne cotton	d	Average charge for ginning services per 500-pound gross-weight bal	: : e:	Average percent of cough-ginned cotton
	: Dollars		Percent	::	Dollars	0 0	Percent
Southeast	3.97	:	10.8	::	8.63	••••••	4.0
South Central.	5.72	:	6.3	::	11.15	:	2.0
Southwestern	6.46	:	4.5	::	13.12	:	.8
Western	5.63	•	2.9	::	11.69	:	.7
United States	5.45	•	6.8		11.36	•••••••	1.8

Table 18.--Ginning charges and percentages of rough-ginned cotton, by regions-lly-year period 1933-46 and 8-year period 1947-54

In the earlier period, approximately 11 percent of the Southeastern crop was reduced in grade on account of preparation, as compared with approximately 3 percent in the Western region. During the latter period, 4 percent of the cotton in the Southeast was roughly ginned, a proportion about 6 times greater than the 0.7 percent found in the West.

In spite of this very marked reduction in the proportion of roughly ginned cotton originating from all four regions of the Belt, the fact remains that the lower ginning charges prevailing particularly in the Southeast and to a lesser extent in the South Central region are offset somewhat by the poorer quality of service. Admittedly, climatic conditions affecting ginning preparation are more adverse in these regions than in the less humid Southwest and West, but on the other hand, these latter two regions receive more roughly harvested cotton.

Regardless of differences in regional problems in the nature and condition of cotton as received, the average gin in the Southeast in the past 8 years received about one-seventh as much volume and about one-eleventh as much gross ginning income as the typical Western gin. Presumably, this combination has had an adverse effect upon the ability of many ginners to install and maintain equipment necessary to cope with the operating problems peculiar to the area.

Materials Used for Covering Bales

Charges for ginning cotton as discussed in this report include charges for the packaging materials. Charges for bagging and ties form an important item of ginning cost to growers in most States, but at some gins in the Southeast, the use of secondhand wrapping materials results in a lower charge than elsewhere. During the 8-year period 1947-48 to 1954-55, charges paid for bagging and ties by all growers in the United States averaged \$3.37 per bale (table 19). Thus, the total annual cost to farmers for such materials during this period averaged about 46 million dollars and represented about 30 percent of the total cost to growers for ginning services.

By regions, average charges for bagging and ties ranged from \$2.83 in the Southeast to \$3.55 in the South Central States. The lowest charge was assessed in Virginia and the highest charge was made in Missouri, averaging \$2.35 and \$4.29 per 500-pound bale, respectively. Charges in the Southeast were from 49 to 72 cents per bale less than in the other regions, partly because of the fact that sizable proportions of the crop normally are wrapped with reworked or secondhand bagging. In the Southwestern and Western regions, average charges for bagging and ties during the period were \$3.53 and \$3.32 per bale, respectively.

Variations in charges for bale coverings made by ginners are influenced by a wide variety of circumstances. These include differences in type and quality of materials, in transportation costs, and in the customs followed in setting charges for bagging and ties as compared to those for the ginning operation.

For decades, open-weave jute bagging has been the most popular bale covering, and nearly all of the remainder of bales were wrapped in sugar-bag cloth. In 1954-55, open-weave jute was used on about three-fifths of the crop, the more extensive use being made in Arizona, Arkansas, California, Mississippi, Missouri, Oklahoma, South Carolina, and Tennessee (table 20). Two-fifths of the crop was wrapped with sugar-bag cloth, the major proportion of ginnings in the Southeast and Southwest being covered with this material. All other types of bale coverings, including cotton bagging, burlap, and certain experimental materials, together accounted for only 0.2 percent of the crop. Use of sugar-bag cloth has expanded considerably in recent years, increasing from 29 percent of all bales in 1946-47 to 40 percent in 1954-55. Most of the relatively small but important crop of American-Egyptian cotton is wrapped with sugar-bag cloth.

All branches of the cotton industry long have recognized the need for improving the protective features, appearance, and tare of the conventional gin bale. Recently the cotton industry and a number of manufacturers of bale covering materials have been experimenting with a wide variety of substitute coverings, including nonwoven fabrics, treated paper, burlap, and plastics. Numerous ginners have cooperated in placing experimental coverings on bales. Although no final reports have been made, several new types of covers seem to offer considerable promise.

Ta	able 19 Total charges for gir	min	g servi	ces per	500-ро	ound gros	s-weight	bale,
	charges for bagging and ties,	and	propor	tion of	total	ginning	charges	repre-
	sented by charges for bagging	and	ties,	by State	s and	regions,	8-year	averages,
	seasons 1947-48 to 1954-55							

	Total charge for	• •	: Proportion of
:	ginning and	: Charge per bale	: total charge for
State and region	wrapping a 500-	for bagging	: ginning repre-
1	pound gross-	and ties	: sented by charge
	weight bale		for bagging and ties
	Dollars	Dollars	: Percent
			*
Alabama	8,05	2.70	: 33.5
Florida	9.71	2.94	: 30.3
Georgia	8.81	2,91	: 33.0
North Carolina	9,27	2,93	: 31.6
South Carolina	8.77	2.87	: 32.7
Virginia	8.18	2,35	28.7
Southeastern			
region	8,63	2.83	32.8
			*
Arkansas	12.04	: 3.48	: 28.9
Louisiana	10.68	: 3.45	: 32.3
Mississippi	10.09	: 3.51	: 34.8
Missouri	15.55	: 4.29	: 27.6
Tennessee	9.69	: 3.51	: 36.2
South central			
region	11.15	3,55	31.8
Oklahoma	13.85	: 3.37	: 24.3
Texas	13.05	: 3.54	: 27.1
Southwestern			0 0
region	13.12	: 3.53	: 26.9

Arizona	11.53	: 3.35	: 29.1
California	11.66	: 3.27	: 28.0
New Mexico	12.33	: 3.57	: 29.0
Western		n den general en general de la construction de la construction de la construction de la construction de la cons B B	0 9
region	11.69	: 3.32	: 28.4
:		6 0	
United States	11.36	: 3.37	: 29.7

Table 20 .-- Relative importance of specified types of bagging used at gins for covering cotton bales, by States and regions season 1954-55 1/

	Type of bag	gging used		
Open-	: Sugar	: Cotton	Other	All twos
iute	: cloth	:	2/	. vypes
Percent	: Percent	: Percent	: Percent	Percent
24.3	: 75.3	: 3/	: 0.4	100.0
5.3	: 94.7	* ******	• •••• ;	100.0
47.1	: 52.3	: <u>3/</u>	: 0.6 :	: 100.0
46.1	: 50.7	: 0.8	: 2.4	: 100.0
65.5	: 34.3	•	: 0.2 :	100.0
3.3	: 89.4	: 5.5	: 1.8	: 100.0
43.2	: 55.8	: 0.2	: 0.8	100.0
		:	:	
94.8	: 5.2	• • • • • •	: :	: 100.0
35.7	: 63.8	: 0.3	: 0.2	: 100.0
79.1	: 20.6	: 0.2	: 0.1 :	: 100.0
90.4	: 9.1	: 0.5		100.0
87.4	: 12.4	: 0.2	e as as	100.0
	•	•	•	•
80.6	: 19.2	: 0.2	: 3/	100.0
96.9 31.8	3.1 68.0	: <u>3/</u> : 0.2	: :	100.0 100.0
36.4	: 63.4	: 0.2	:	100.0
82.7 77.1 41.7	17.3 22.9 58.3	6 0	-	100.0 100.0 100.0
75.1	24.9	0 0 0 000 000	•	100.0
59.7	: 40.0	: : 0.1 :	0.2	100.0
	Open- weave jute Percent 24.3 5.3 47.1 46.1 65.5 3.3 43.2 94.8 35.7 79.1 90.4 87.4 80.6 96.9 31.8 36.4 82.7 77.1 41.7 75.1 59.7	Type of bayOpen-: Sugarweave: bagjute: clothPercent:24.3: 75.35.3: 94.7 47.1 : 52.3 46.1 : 50.7 65.5 : 34.33.3: 89.4 43.2 : 55.894.8: 5.235.7: 63.879.1: 20.690.4: 9.187.4: 12.480.6: 19.2:: <td>Type of bagging used Open- Sugar Cotton jute cloth Percent Percent 24.3 75.3 $3/$ 5.3 94.7 47.1 52.3 $3/$ 46.1 50.7 0.8 65.5 34.3 3.3 89.44 5.5 43.2 55.8 0.2 94.8 5.2 35.7 63.8 0.3 79.1 20.6 0.2 90.4 9.1 0.5 87.4 12.4 0.2 80.6 19.2 0.2 96.9 3.1 $3/$ 31.8 68.0 0.2 36.4 63.4 0.2 82.7 17.3 77.1 22.9 11.7 58.3 59.7 40.0 0.1</td> <td>Type of bagging usedOpen-SugarCottonOtherjuteclothPercentPercentPercent24.375.3$3/$0.45.394.747.152.3$3/$65.5$31.3$$47.1$52.3$3/$$65.5$$31.3$$65.5$$31.3$$65.5$$31.3$$65.5$$31.3$$65.5$$31.3$$65.5$$31.3$$65.5$$31.3$$0.2$$79.1$$20.6$$0.2$$91.8$$5.2$$79.1$$20.6$$0.2$$90.4$$9.1$$0.5$$91.4$$9.1$$0.5$$96.9$$3.1$$3/$$36.6$$19.2$$0.2$$36.4$$63.4$$0.2$$77.1$$22.9$$22.9$$$$75.1$$21.9$$75.1$$21.9$$75.1$$21.9$$75.7$$40.0$$75.7$$40.0$</td>	Type of bagging used Open- Sugar Cotton jute cloth Percent Percent 24.3 75.3 $3/$ 5.3 94.7 47.1 52.3 $3/$ 46.1 50.7 0.8 65.5 34.3 3.3 89.44 5.5 43.2 55.8 0.2 94.8 5.2 35.7 63.8 0.3 79.1 20.6 0.2 90.4 9.1 0.5 87.4 12.4 0.2 80.6 19.2 0.2 96.9 3.1 $3/$ 31.8 68.0 0.2 36.4 63.4 0.2 82.7 17.3 77.1 22.9 11.7 58.3 59.7 40.0 0.1	Type of bagging usedOpen-SugarCottonOtherjuteclothPercentPercentPercent24.375.3 $3/$ 0.45.394.747.152.3 $3/$ 65.5 31.3 47.1 52.3 $3/$ 65.5 31.3 65.5 31.3 65.5 31.3 65.5 31.3 65.5 31.3 65.5 31.3 65.5 31.3 0.2 79.1 20.6 0.2 91.8 5.2 79.1 20.6 0.2 90.4 9.1 0.5 91.4 9.1 0.5 96.9 3.1 $3/$ 36.6 19.2 0.2 36.4 63.4 0.2 77.1 22.9 22.9 $$ 75.1 21.9 75.1 21.9 75.1 21.9 75.7 40.0 75.7 40.0

1/2/3/ Preliminary.

Includes burlap, plastics, and various other materials. Less than 0.05 percent.

Based on data obtained from the U.S. Bureau of the Census.

Transportation of Cotton from Farm to Gin

Many ginners, under certain competitive conditions, perform services which are not strictly a part of the ginning operation. Generally, seed cotton is transported from farms to gins by growers, but in some cases, ginners haul for growers and include hauling costs in the ginning rate. In most instances, however, separate charges are made when hauling is performed by ginners.

During the period 1947-48 to 1954-55, proportions of cotton hauled to gins by growers in the United States increased from about 83 percent in the earlier season to about 87 percent in 1954-55 (table 21). The remaining 17 to 13 percent of ginnings was hauled by ginners' trucks or by commercial truckers. For the Cotton Belt as a whole, only minor variations in proportions of cotton hauled by each of these agencies have occurred during the last 15 years.

Although the proportions of cotton hauled by farmers varied little between 1947-48 and 1954-55, the method of transportation changed significantly. In 1947-48, about 18 percent of the total crop was brought to gins by farmers using wagons and teams, but in 1954-55, only 3 percent was hauled by such means, which is further evidence of the trend toward mechanization of farming activities.

For a number of years, growers in the Western region almost exclusively have used their own motor vehicles in hauling cotton to the gin. In 1947-48, minute proportions of the Western crop were hauled by commercial truckers, but in 1954-55, the small amount transported by means other than growers' vehicles was moved in trucks owned by ginners.

Growers in the Southeastern region made most extensive use of ginners' trucks, but even there the practice declined appreciably from 1947-48 to 1954-55. In earlier years, ginners hauled as much as one-fourth of the Southeastern crop, but by 1947-48 that proportion decreased to about 17 percent and by 1954-55 it had declined to slightly more than one-tenth of the Southeastern crop.

Most of the hauling performed by ginners was done on a fee basis, but in some cases the service was included as a part of the regular ginning charge. In the Southeast, separate charges were levied on about 97 percent of the cotton hauled by ginners in both the 1947-48 and 1954-55 seasons. During the 8-year period, average charges in the Southeast increased from \$1.55 per bale in 1947-48 to \$1.68 per bale in 1954-55.

The use of commercial truckers by growers was confined largely to the Southwestern region, and there mainly in Texas. During the period 1947-48 to 1954-55, from one-fourth to one-third of the Southwestern crop was hauled to gins by commercial truckers. Average charges for commercial hauling in the Southwest increased from \$4.91 per bale in 1947-48 to \$5.36 per bale in 1954-55. In each season, commercial truckers were used to a limited extent by growers in both the Southwast and South Central regions. Table 21.--Proportions of cotton hauled to gins by farmers, ginners, and commercial truckers, by States and regions, seesons 1954-55 and 1947-46

••			1954	-55		••			1947	-46		
C+ - + -		3	perner uons	10 gin 0				8	ton hauled	to gin by	-	
		Farmers	••		Commer-	••		Farmers	••		Commer-	
region	Wagons	Motor Vehicles	Total :	Ginners' trucks	cial truckers	Total :	: Wagons	Motor Vehicles	Total :	Ginners ' trucks	cial truckers	Total
••	Percent	: Percent	Percent :	Percent	Percent :	Percent :	: Percent	: Percent :	Percent :	Percent :	Percent :	Percent
Alabama	و•5	: 88.6	: 95.1 :	3.0	1.9	100.0	: 31.7	: 49.5 :	81.2 :	6 . 5	12.3 :	100.0
Florida	1.8	: 98.2 :	100.0	1	1-	100.0	: 11.5	: 88.5 :	100.0	1	1	100.0
Georgia	100 100	81.7	85.5 5	12,1	at a N 1	100.0		52.6	19.7	18,9	ਸ (ਸ (100.0
North Carolina.	n n n	6.6) 1.0.57	80°0	17.0	4 C	100°0	23°F		: 5°1/		N	100-0
Virginia	5.6	86.98	92.5	2.0	1.9	100.0		909	1.67	20.0		100.0
Southeastern region:	5.2	81.6	86 . 8	10.7	2°5	100,0	26.5	: 50 . 2 :	76.7	16-9	6. ⁴	100.0
Arkansee.	3.44	92.8	96.2 35.2	0°5	20 Y	100.0	31.9	65.5 5.3	97.4	r, o	2°1	100.0
Mississippi	0 0 1 0	91.3	2 2 2 2 1 2 1	10		100.0		· · · ·	88°.0		0 00 0	100.0
Missouri	13.3		99°84	14	15.8 •1	100°0		53.1 :	98°60	1 "	م 0 ف	100.0
South Central region:	6 ,4	89•2	95.6	1. ¹	3.0	100.0	31.8	: 61 .)+ :	93•2 :	2°6	3.9 :	100.0
: Oklahome Texas	<u>ң</u> «	92.8 67.8	92.9 68.0	11	7.1 32.0	100.0 100.0	10.6 2.8	85.5 64.9	96.1 67.7	14	3.9 32.2	100.0 100.0
Southwestern region	~	69.6	69.8		30.2	100.0	3.5	66.7	70.2		29.7	100.0
••			••					••	••	••	••	
Arizons. California	1.2	98.4 95.5 100.0	99.6 95.5 100.0	ਸ ਯ ਸ		100.0 100.0	0.0	100.0 99.7 98.8	100 . C 99.9	111	11.0	100.0 100.0 100.0
Western region	7.	6•96	97.3	2.7	1	100.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	99.5	99 . 8	1	୍ .	100.0
United States	3.1	83.5	36.6	50 N	10.6	100.0	18.5	т°й9	82.9	6•†	12.2	100.0

- 32 -

Related Business Activities of Ginners

Frequently, ginners engage in other business activities. In many areas, ginners purchase most of the cotton they gin, and in all areas they customarily buy all cottonseed except that saved by growers for planting or other farm use. Thus, an exact appraisal of actual cost to growers for ginning services is tied in with prices paid growers by ginners for cotton and cottonseed, as well as costs of supplies or services obtained from ginners.

Sideline businesses such as gristmills, feed-grinding mills, and, in some instances, sawmills often are conducted by ginners on the gin premises. In many cases, the ginning activity is supplemented by sale of planting seed, fertilizers, insecticides, stock feeds, and various other items needed by farmers.

Also, in some instances, gins are operated by owners whose main business interest lies in some other established but related enterprise, such as cottonseed crushing, production credit, cotton marketing, or warehousing. Frequently, in this regard, policies concerning charges for ginning are influenced somewhat by the overall situation.

Purchases of Cotton by Ginners

For the Cotton Belt as a whole, ginners bought one-third of the cotton they ginned in 1947-48 as compared with 27 percent of the crop in 1954-55 (table 22). By regions in 1954-55, proportions of ginnings purchased from growers ranged from 2 percent in the West to about 46 percent in the Southeast. In most fringe States of the Cotton Belt, ginners in 1947-48 and 1954-55 bought the major portion of the cotton received.

Ginners usually bought cotton as baled lint, but about 1 or 2 percent of purchases in the United States from 1947-48 to 1954-55 were in the form of seed cotton. Ginners in Virginia purchased considerable cotton from farmers as seed cotton in each season. In 1954-55, such transactions represented almost three-fifths of the Virginia crop as compared with about 43 percent in 1947-48. Elsewhere purchases of seed cotton by ginners consisted almost entirely of remnants.

Normally, ginners in the Western region purchase relatively small proportions of cotton from growers, as compared with other regions of the Cotton Belt. Ginners in Missouri and Tennessee bought more than 70 percent of the cotton received in both 1947-48 and 1954-55; but in Mississippi, proportions of cotton sold to ginners by growers have always been minor.

For the last 20 years, proportions of the crop purchased by ginners have been influenced to a large extent by the volume of cotton marketed by growers through Government loan programs. For example, in 1948-49, more than one-third of the U.S. crop was placed in the loan, and ginners actually purchased almost 36 percent of the "free" cotton, as compared with about 23 percent of the total crop (table 23). In 1950-51, only a very small proportion of cotton entered the loan, and the actual proportion of free cotton purchased by giners was smaller than for the 1948-49 season.

	: Purchase	s of seed	: Purchases	of baled	: Total cott	on purchases
State and region	: cotton by	ginners 1/	: lint by	ginners	: by gi	nners
	: 1954-55	: 1947-40	: 1954-55	: 1947-448	: 1954=55	: 1947-48
	satinings :	ginnings	sinnings :	: ginnings	: ginnings	ginnings
	C F			37.0	. 1.6 2	0 80
M.LaDama			0 0 0 0 0 0	70.0	6 6 8 8 8	97.0
	0.0		111.0	31.5	lilt.6	31.9
North Carolina	6 8	4.3	: 42.7	39.8	149.5	1.14
South Carolina	0.2	: 0.2	: 44.1	: 26.3	: 44.3	: 26.5
Virginia	: 57.6	: 43.2	: 33.4	: 43.9	: 91.0	: 87.l
Southeastern region	1.9	: 1.5	: 44.3	: 33.8	: 46.2	: 35.3
		•	0			
Arkansas	0 8	: 0.7	: 31.5	: 27.2	: 32.3	: 27.9
Louisiana	s 0.4	• 0 • e	: 27.0	: 19.9	s 27.4	20•5
Mississippi	• 0•3	: 0.2	: 4.3	: 1,3	: 5.1	
Missouri	1.0	: 1.7	: 97.2	: 77.2	: 98 . 2	: 78.9
Tennessee	: 4.6	: 9.7	: 76.7	: 61.8	: 81.3	: 71.5
South Central region	: 1.1		: 33 . 8	: 24.9	: 34.9	: 26.7
		.				
Oklahoma		22.2 1.2	29•5 23•8	50.3 37.4	35.0 24.5	72.5 38.6
Southwestern region	1.0	: 3•0	: 24.2	: : 38.6	: : 25•2	ء•تبا : *
Arizona		2/	2.7	8	2.7	2/
California	1			38.8		38 • 8
New Mexico		۲.0	: 9.8	5.6	; 9 . 8	: 5.7
Western region	3	: 2/	: 2°0	: 26.2	: 2.0	: 26.2
United States	1.0	. 1.9	: 26.3	: 31.4	: 27.3	33.3
	••	••	••	••	••	••
1/ Bale remnants not $\overline{2}$ / Less than 0.05 pe	t reported in prcent.	some instances				

Table 22.--Proportions of cotton purchased by ginners, by States and regions, seasons 1954-55 and 1947-48

- 34 -

Table 23.--Proportion of cotton marketed by growers through Government loan program and by sale to ginners, seasons 1938-39 to 1954-55

				_			
:_	Proportion of	<u>)1</u>	production	:	Proportion	:	Proportion
:	Placed in	:		:	of "free"	:	of total
Season :	Government	:	Remaining as	:	cotton	:	cotton
:	loan	:	"free" cotton	:	purchased	:	purchased
:	TOgu	:		:	by ginners	:	by ginners
:	Percent	:	Percent	:	Percent	:	Percent
:		:		:		:	
1938-39	38.4	:	61.6	:	36.0	:	22.2
1939-40	.3	:	99.7	:	30.3	:	30.2
1940-41	25.9	:	74.1	:	37.4	:	27.7
1941-42	21.3	:	78.7	:	35.4	:	27.9
1942-43	25.4	:	74.6	:	31.5	:	23.5
1943-44	32.5	:	67.5	:	29.3	:	19.8
1944-45	17.9	:	82.1	:	22.0	:	18.1
1945-46	2.5	:	97.5	:	29.9	:	29.2
1946-47	1.7	:	98.3	:	32.9	:	32.4
1947-48	2.4	:	97.6		34.1		33.3
1948-49	36.2	:	63.8		35.7		22.8
1949-50	20.0		80.0	:	34.4		27.5
1950-51	.1	1	99.9	:	32.0		32.0
1951-52	7.)	:	92.6	•	30.9		28.6
1952-53	15.5		84.5	:	30.9		26.1
1953-5	12.0		58.0	:	32.6	:	18.9
195/-55	17.0		83.0		32.9		27.3
17-year		:				:	-1.45
average	19.2		80.8	•	32.2		26.0
area agorrerer	2/02			•	2202		2010
				-			

Purchase of Cottonseed by Ginners

Cottonseed production in the United States averaged about 5 1/4 million tons per season during the 10-year period 1944-45 to 1953-54. From 86 to 92 percent of seed in each season was marketed for crushing purposes. Cottonseed is customarily sold by growers to ginners at time of ginning, except for small amounts saved for planting or other farm use. In the settlement of seed transactions, weights are determined at gins either by weighing or by various methods of estimation.

Information regarding the different methods followed in determining purchase weights of cottonseed at gins has been collected periodically since 1944-45. During this period, some significant changes have been developing gradually. The general trend has been toward use of seed scales by ginners in determining cottonseed purchase weights (table 24). In 1954-55, 45 percent of the cottonseed bought by ginners from growers in the United States was bought on scale weights as compared with 25 percent in 1944-45.

By regions, the swing toward use of seed scales was particularly noticeable in the Southeast and Southwest, where 77 and 81 percent, respectively, of seed purchased in the 1954-55 season was actually weighed at the gin, as Table 24.--Proportions of cottonseed purchased by ginners from growers according to specified methods of determining cottonsseed weights, by States and regions, seasons 1954-55 and 1944-45

•				Mathods	c of do	terminine	cottongeed we	dehte in	enert file	n sesson				
• •	1		-		Se Se	ed cotton	load welcht	164149 444		TOODO T				
• ••			Seed c	otton	: minu	B Pross we	ight of bale	: Estimat	ເອດ	, ,	••••		• ••	
State and region	e co	ed Teg	. LOEG W	ereas gross	: mi	h. or a pl	weight of	: a perce	cotton :	multipl	ied by .	Other m	lethoda: /	To tal each
	2	2	weigh ba	t of le	of p	ounds, or a	a percentage load weight	: load	releht	uil-peas	t retio.	11		season
> ••	1954-55	n-titi61:	5:1954-55	:1944-4F	5: 19	54-55	1944-145	:1954-55	1944-45	1954-55:	1944-45:	1954-55:	1944-145:	
	Percent	Percen	t :Percent	:Percent	Pe	rcent :	Percent	:Percent	Percent:	Percent:	Percent ;	Percent:	Percent ;	ercent
Alabama	61	06	: 3h	: 8 ⁴⁴	•• ••		ħ	1	1		۰۰ ۰۰	1	1	100
Georgia	62 :	1	: 18	: 94	••	~	9	1	1	1		1	1	100
North Carolina	78	19	g -	: 100			95	-		-	1	1	1 -	100
······································	2	00				•	07				-		-	
Southeastern region 2/:	11	: 18	50	: 73		3	7	. 3/		1	ч.	1	3/ :	100
Arkansas	14	: 7	: 5	: 35		61 :	148	Q.	1	16 :		ດ.	·· ··	100
Louisiana	6	. ⁴⁰		12		~	ч (1		 M	1	1	•••	100
Mississippi	80	∾	58	. 53		0 17 17	142 101			» :	 Mu	1 U	1	001
Tennessee			16	11		73 :	74 89	3/		- T	• •	n.#		100
South Central region 14/:	25	00	: 24	: 39	•• ••	39 :	μg	r-1	2		•••• †	0		100
						•••					•••		•••	
Oklahoma	46 8	53 66	1			06	~	96	21 21	1 m	1 5	12	- /r	100
Southwestern region	81	: 63	: 3/	г 	•• ••	· · · 2	9	б 	 56	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	rt 1	ה של		100
•••••						••		•• •	••	•• •	••	••	•••	
Arizona	11	11			- •• ••	99 :: 17 ::	65 85	11	1	83 . .	35 : 15 :	11		100 100
New Merico	11	1	!			73 :	91	-	-	10	6	I		100
Western region	N	1		1	•• •• ••	145 :	81	1	1	53	19 :			100
••						>•		20			20		•	
United States:	£	ۍ ۲	11	: 37	•• ••	 ፈ	56	m	r-	15 :	н т	-	ч Ч	100
1/ Includes various minor	r method	s of es	timation,	most of	f which	were deri	red from bale	weights	also in	cludes,	in a few	instanc	es, cotto	nseed
2/ Includes Florida and V	a cotto Arginia	а.												
3/ Less than 0.5 percent. If Includes Illinois and	Kentuck	ч.												

- 36 -

compared with 18 and 63 percent in 1944-45. The use of seed scales increased significantly in all States of these two regions. In all South Central States except Louisiana, seed scales were used to a minor extent. In the West, no use of seed scales was reported in Arizona or California in either season.

Although use of seed scales has steadily increased over most of the Cotton Belt, most of the cottonseed sold by growers to ginners in 1954-55, as in past seasons, was purchased on weights estimated by one or more methods, depending upon local custom. About 36 percent of seed in 1954-55 was purchased by ginners on weights estimated by weighing loads of seed cotton and either deducting gross weights of bales or deducting bale weights and additional amounts to compensate for trash. Such methods were used for 63 percent of the cottonseed purchased in the South Central region in 1954-55 compared with about 87 percent in 1944-45. Also in 1944-45, four-fifths of the seed in the Southeast was bought on such estimates, as compared with only one-fifth in 1954-55.

Weights for about 15 percent of the cottonseed purchased by ginners in the United States in 1954-55 were estimated by multiplying the bale weights by seed-lint ratio factors. This method was employed generally on snapped or mechanically harvested cotton in those areas where seed scales were less commonly used. More than half the seed purchased in the Western region in 1954-55 was bought on weights estimated in this manner, while most of the remaining seed transactions were based on seed cotton weights minus bale weights and established reductions for trash.

Several other methods of estimating seed weights were used in 1954-55, but most were relatively unimportant on a regional or Belt-wide scale. In past seasons, weights for a sizable proportion of seed in the Southwest were estimated as percentages of seed cotton load weights, but that practice appears to have largely given way to use of seed scales.

Other Services of Ginners

Numerous other services are performed by ginners in connection with ginning and marketing cotton. Some may be the result of competition, but on the whole, the ginner holds a very responsible position in the local market, and many of the services performed are voluntary contributions toward improving production and marketing practices.

In some States, ginners frequently haul baled lint from gins to nearby destinations such as local warehouses, compresses, or railroad platforms, as desired by growers. Often the distance is not great, and charges are seldom made for the service at gins where such hauling is routine. In addition to aiding the grower, this procedure also minimizes fire hazards associated with accumulations of cotton on gin yards. Also, the marketing process is facilitated in that baled lint is placed in warehouses or compresses very shortly after ginning.

Growers in most sections of the Cotton Belt have the privilege of storing baled cotton on gin yards until sold. Customarily, ginners make no charge

for this service, and in some cases free insurance is provided. A large proportion of the Western crop is stored on gin yards until sold by growers, but ginners in that area usually make a separate charge for the service. In such cases, total ginning revenue is increased considerably.

In 1954-55, ginners in both Arizona and California most commonly received \$1 per bale for storage and insurance for the first 20 days and an additional amount, averaging about 14 cents per bale, for in-transit insurance from field to gin. In New Mexico, such related charges ranged from 30 cents per bale for insurance covering the first 30 days to \$1.25 per bale to cover insurance and yardage for the entire time cotton was on the gin yard. However, in most cases the cotton moved within short periods of time.

Federal quarantine regulations regarding pink bollworm control require sterilization of cottonseed during ginning in areas of infestation. For a number of years these areas were confined to Arizona, New Mexico, and the extreme southern and western parts of Texas, but in recent seasons infestation has spread to parts of Arkansas and Louisiana.

In 1954-55, ginners subject to the regulation in Arizona usually made a separate charge for sterilization, averaging about 45 cents per bale. Most New Mexico ginners made no separate charge for the service. More than two-fifths of the Texas crop was under quarantine and ginners sterilized about 60 percent of the seed at an average additional cost to growers of about 69 cents per bale. Only small proportions of the Arkansas and Louisiana crops required sterilization, and in most cases growers in the respective States paid \$1.22 and \$1.24 per bale, on the average, for the service when performed.

Ginners have been of much assistance to growers in cotton improvement programs, frequently supplying farmers with the latest information relating to cotton varieties. Some ginners keep account of the seed being used by their customers and offer to supply new and improved seed as it becomes necessary and available.

Growers who were members of cotton improvement groups in 1954-55 received free classification on more than 10 million bales of cotton, or almost threefourths of the entire crop. Much of this cotton was sampled for such classing free of charge, by ginners who were bonded to perform the sampling service. Many ginners also perform numerous other services in connection with various agricultural programs, one of the more important being the preparation of necessary documents for growers wanting to market their cotton through Government loan programs. Most of these services are provided free to customers.

Various miscellaneous services performed by some ginners free of charge to their customers include such practices as lending trucks and trailers for use in hauling cotton to the gin, insuring seed cotton and hauling vehicles while on the gin yard, hauling back to farms seed saved by growers for planting, helping farmers locate labor for the harvest, making available for use spraying and dusting machines, and assisting farmers in marketing their cotton.

TABLE	
UPPLEMENTAL	

Table 25..--Estimated average charges for ginning upland cotton under specified systems of assessing charges, by States, season 1947-48 J/

System of assessing chargesming charges including bagging and tiesSystem of assessing charges not including baggingbaleFer cwt.isnappedFloked :SnappedisnappedFloked :SnappedisnappedFloked :SnappedisnappedFloked :SnappedisnappedFloked :SnappedisnappedFloked :SnappedisnappedFloked :Snappedistripped:Old $2/$	a and that a Canada	ng and tres : Separate	Per cwt. : charge lint : per	icked :Snapped : for	otton : and : bagging	2/ stripped: and ties	Dol. : Dol. : Dol.	••	0•96 : <u>3</u> / : 2•11	: : 2.37	3/ : 3/ : 2.71		1.00 : : 2.00	•91 : <u>3</u> / : 2•29	1.11 : : 2.82	•97 : <u>3</u> / : 2.82		: : 2.56	1.00 : 3/ : 2.24	- : - : 2.60	•95 : <u>3</u> / : 2.16		1.16 : 1.56 : 2.83	: : 2.00	••	•99 : 1•53 : 2•67
System of assessing charming cottonFer cwt.baleFer cwt.Fer cwt.SimappedFirked SmappedSimappedFirked SmappedSimappedFirked SmappediSmappedPollePollePolle $2/$ $2/$ 1.52 1.650 $2/$ $3/$ $3/$ $2/$ 1.52 1.650 $2/$ 7.90 $2/$ 1.650 $3/$ $3/$ $3/$ $2/$ 1.650 $3/$ $3/$ $3/$ $2/$ 1.650 $3/$ $3/$ $3/$ $2/$ 1.610 $3/$ $3/$ $3/$ $2/$ 1.610 $3/$ $3/$ $3/$ $2/$ 1.610 $3/$ $3/$ $3/$ $2/$ 1.610 $3/$ $3/$ $3/$ $2/$ 1.610 $3/$ $3/$ $3/$ $2/$ 1.610 $3/$ $3/$ $3/$ $2/$ 1.60 $3/$ $3/$ $3/$ $2/$ 1.60 $3/$ $3/$ $3/$ $2/$ 1.60 $3/$ $3/$ $3/$ $2/$ 1.60 $3/$ $3/$ $3/$ $2/$ 1.60 $3/$ $3/$ $3/$ $2/$ $2/$ $2/$ $2/$ $3/$ $2/$ $2/$ $2/$ $2/$ $3/$ $2/$ <td>arges</td> <td>ges not including baggi</td> <td>Fer cwt.</td> <td>d : Picked :Snapped : P</td> <td>: cotton : and : c</td> <td>ed: 2/ :stripped:</td> <td>: Dol. : Dol. :</td> <td>••</td> <td>: 0.40 : <u>3/</u> :</td> <td>: •43 : 0.50 :</td> <td>: •4.7 : •56 :</td> <td>: •40 : •45 :</td> <td> </td> <td>: •35 : <u>3</u>/ :</td> <td>: •39 : <u>-</u> :</td> <td>: •43 : •48 :</td> <td>: •51 : •68 :</td> <td>: .45 : .51 :</td> <td>38</td> <td>: •45 : •50 :</td> <td>: : 010 :</td> <td>: th. : 04. :</td> <td>: •46 : •49 :</td> <td>: .32 : :</td> <td>••</td> <td>: •44 : •50 :</td>	arges	ges not including baggi	Fer cwt.	d : Picked :Snapped : P	: cotton : and : c	ed: 2/ :stripped:	: Dol. : Dol. :	••	: 0.40 : <u>3/</u> :	: •43 : 0.50 :	: •4.7 : •56 :	: •40 : •45 :	 	: •35 : <u>3</u> / :	: •39 : <u>-</u> :	: •43 : •48 :	: •51 : •68 :	: .45 : .51 :	38	: •45 : •50 :	: : 010 :	: th. : 04. :	: •46 : •49 :	: .32 : :	••	: •44 : •50 :
wing charges including bagging and tiesbalePer cwt.balePer cwt.iSnappedPicked iSnappediStrippedPicked iSnappedistripped $2/$ istripped $3/$ $3/$ istripped $3/$ $2/$ istripped $3/$ $3/$ $3/$ 1.52 $3/$ -1.52 $3/$ -1.52 $3/$ -1.52 $3/$ -1.52 $3/$ -1.52 $3/$ -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50	ystem of assessing cha	TENT BUTUUTA ::	:: :: Per bale ::	ped :: Picked :Snapped	1 :: cotton : and	pped:: 2/ :strippe	Le :: Dol. : Dol.	•••	- :: 4.50 :		/ :: 3/ : 3/			- :: 5.00 :				•	/ :: 5.00 : 3/		(:: 3/ : 3/	/ :: 8.00 : T			••	/ :: 5•65 : 3/
wing charges includinbalePer cwtistrippedPicked iSristripped $2/$ istripped $2/$ $3/$ $3/$ $3/$ $2/$	Sy the second se	ig paggrug and vies	er cwt.	apped : Picked :Snapp	and : cotton : and	wipped: 2/ strip	Dol. : Dol. : Dol	•••	3/ : 1.52 :		: 1.50 : 3/			: 1.49 :		: 1.42 : 3/			: 1.39 : <u>3/</u>		: 1.40 : <u>3/</u>	: 1.60 : <u>3</u> /	3/ : :		••	<u>3</u> / : 1.46 : <u>3</u> /
		urphront sagrens guin	bale : Per cwt ; seed cott	:Snapped : Picked :Sn	: and : cotton :	stripped: 2/ :st	: Dole : Dole :	••	: <u>3</u> / : <u>3</u> / :		: 7.90 : :	•••		: <u>3</u> / : :	•••	:;		•••	: <u>3</u> / : <u>3</u> / :			: 10.10 : :	: : .76 :			: 9•28 : •65 :

 $\frac{1}{2}/$ Rates are exclusive of any separate charges for drying or lint cleaning. $\frac{2}{3}/$ Includes handpicked and machine picked. $\frac{3}{3}/$ Represents less than 0.5 percent of total ginnings in State.

١

-11
6
Ľ.
I
8
5
3
8
5
ă
õ
S
-

ő
د
άđ.
<u>-</u>
03
b
` ط
-
8
60
H
g
셨
0
60
R
1
ŝ
0
ň
0
Ø
T
0
3
E
é
5
2
5
g
e
ø
<u>D</u> 4
60
24
6
ð
8
P
et i
5
Ç.
- 2 -
8
0
70
R.
60
5
E.
20
9
F
5
7
60
ö
4
0
Q
20
B
p.
U
0
50
đ
H
e
2
-0
10
Õ
5
3
1
فب
80
1
I.
9
CA.
0
F.
9
05
and the second se

	Separate	charge per pattern	for	pagging and ties	Dol.	2.27	3.02	3.24	3• 00	3 ° 00	2.73	3.13	3.29	3.90	00°E	2 . 66	3.10	2° 70	3.14	3•05	1	3•09	
	and ties :	cwt. :	Snapped :	stripped:	Dol.	• •• 	•	3/ :	•	-	۔ اب		ایر	•	1	 		: /~		: 1.64	:	: 1.69 :	•
	ig bagging	Per LI	Picked	cotton 2/	Dol	0•99	1	3		1•00	-96 -	1•20	•94	1	1	1•06	1	1°06	1	1•23	1	1.07	
	iot includin	cwt. :	Snapped :	stripped :	Dol.	1	0.47 :	•57 •	• 45 ·	1	س	1	ନ୍ଦ୍ର ଜୁନ		• 68	•45 :	• <u>5</u> 0	3	• 142	• • 49	1	•51	
arges	charges r	Per seed o	Picked :	cotton : 2/ :	Dol.	0.35	11-	S.	01•	1	•37	- 111-		•57	בי	• 42	- <u>1</u> 5	• <u>1</u> ,3	4	• 49	1	74.	
sessing ch	Ginning	Per ba l e	Picked	cotton : 2/ :	Dol.	5.08	1	3/		1	اب	1	1	1	1	2•00 2•00	ľ	ي اع	1	1	1	5 . 18	
stem of ass	••	at.	Snapped :	stripped :	Dol.	•	1	:	:	1	-	1	: /	:	1.	3	1	:	:	1	-	3/ ::	
ST	ig and ties	Per c lin	Picked :	cotton : 2/ :	Dol.	1. b2	•	: 1.60 :	•	3/	: 1.58 :		: 1.54 :	•	•	1 •50	•	1.50	1.60 :		••	: 1•53 :	
	ding baggir	cwt. otton	Snapped	and : stripped :	Dol.	1	1	1	1	1	I	1	ł	1	1	1	1	1	1	<u>س</u>	1	3/	
	rges inclu	Per seed o	: Picked :	cotton : 2/ :	Dol.	1		••		:			•	:		: 2	-	•		: 83 :	•	: 22 :	
	nning char	ale	Snapped	stripped	Dol.	9.58	1	9-93	ł	ł	ł	1) M	ł	1.) M	ł	3	9.85	ł	1	9.49	
	63	Per h	Picked :	cotton : 2/ :	Dol.	7.26 :	•	7.29 :	:	6•55 :	e.97 :		7.18 :	•		7.75 :	:	6 . 86	8•05 •		8.00 :	: 7.4.7	•
-		state :			••	Alabama	Arizona	Arkansas	California	Florida	Georgia	Louisiana	Mississippi	Missouri	New Mexico	North Carolina	Oklahoma	South Carolina:	Tennessee	Texas	Virginia	: United States:	••

1/ Rates are exclusive of any separate charges for drying or lint cleaning. Z/ Includes handpicked and machine picked. J/ Represents less than 0.5 percent of total ginnings in State.

5
0
5
57
61
2
5
as
e
ິ
te t
.9
S
Þ
à
e
H
ha
G
20
5
SS
ë
ŝ
ದ
4
0
E SE
e
st.
2
eq
2
-
S
ğ,
e
g
3
g
5
t
ö
g
R
1
ä
60
F
H
F
00
H
4
\$
80
H
ha
O
e
ae
La la
A
40
be
r.
Ē
t
00
T
2
Le
ab
FH

•• *		and the second		udine boes	+ 000 003	System of a	ssessin	g char	ges	of fueludi	an hour on	- ond +foc	Conounto
		inning cha	rges inc.	and add	ung and t	les		ung cu	arges n	INTOUT NO	Burdden Bur	SATA DUR	Separate
State .	Per	bale	Per	cut. cotton	B.	r cwt.	Per		Per seed c	cwt. otton	Per	swt.	per
	1		1 1 1 1								The second second		pattern
•••	Ficked	snapped	: Flcked	: snapped	. ricked	: onapped	Flok		atton :	onapped	: Plcked :	onappeu :	harring
• •	200000	strinned	. 2/	strinned	. 2/	: strinned		• •	2/ .	strinned	: 2/ :	strinned :	and ties
• ••	Dol.	Dol.	: Dol.	: Dol.	: Dol.	: Dol.	:: Dol		Dol.	Dol.	: Dol.	Dol.	Dol.
••					••		::	•••			•••	••	
Alabama	6 •99	. 9.27	1	:	: 1.69	I 	:: 5•0	••	0.38 :	3/	: 0.99 . :	3/ :	2.48
Arizona	1	1	!	:	:	!	::	••	: 21.	0.148	 	.1	3.27
Arkansas	7.37	s 8.88	:	:	: 1•63	: 3/	:	••	•50	-57	: 3/ :	3/ :	3.36
California:	1	1	!	!			::	••	• 140	171°			3 •25
Florida:	7.36	1	:	:	!	1		••	:	ľ	: 1•00 :		3°00
Georgia	7.67	1	•	!	: 1.57	: 3/	:	••	• 39	Э С	: •96 :	3/ :	2.90
Louisiana	1	1	1	1	[:: 3/	••	• 49	•62	: 11.11 :		3•23
Mississippi	7.27	3	1	!	: 1.68		::	••	•48	•57	: 1.00 :	M	3.44
Missouri	1	1	:	I 	!		:	••	•26	•73	••	1	11.00h
New Mexico	1	1	!	!	!	:	::	••	•47 :	•58		-	3.48
North Carolina:	7.73	3/	!	!	: 2•07	: 3/	0°2 ::	•	•42 :	ł	: 1.04 :	3/ :	2.74
Oklahoma	1	1	!	1	1	.1	::	••	20 20	•51		, I	3.40
South Carolina	7.14	1			•	1	::	••	•112	ł	: 1.02 :	3/	2 . 82
Tennessee	8°01	: 9.26	1	1	: 1.75	:	:	••	•40	-44.	•••		3•Li
Texas	1	1	: 0•78	: 3/	•	:		••	•50	ۍ ۲	: 1.20 :	1.74 :	3•55
Virginia	8,00	1	:		!			••	• 35	;	•••••••••••••••••••••••••••••••••••••••	•	2•50
: United States:	7.42	9.19	: •78	: 3/	: 1.68	: 3/	:: 4.8	••••	•l47 :	<u>ځ</u>	: 1.05 :	1.77	3.38
••			••	ı 	••	ı 	••	••	••		••	••	

 $\frac{1}{2}$ Rates are exclusive of any separate charges for drying or lint cleaning. $\frac{2}{3}$ Represents handpicked and machine picked.

1

Table 20.-Estimated average charges for ginning upland cotton under specified systems of assessing charges, by States, season 1950-51 1/

••							S	stem of	883	ssing	char	res							
	6	ming che	urges 11	olud	ing baggi	ng and	ties			Ginni	ng ch	argea	not	includi	ng bag	ging a	nd ties	Separate	
State :	Per t	ale	306	Per c	wt. tton	oo oo so	Per c lir	te te	•• •• •• •• •• ••	Per bale	•• •• ••	Pesed	r cw	ton		Per cw lint	د	charge per pattern	
	Picked :	Snapped	: Picke	: pe	Snapped	: Pick	ed :	Snapped		Picke		icked	s. Si	napped	: Pick	ed : S	napped	for	
**	cotton :	and	: cotto	: 40	and	: cott	: 10	and	**	cotto	n : c	otton	••	and	: cott	: uo	and	bagging	
**	2/ 3	stripped	: 2/	••	stripped	: 2/	••	strippe	d ::	2/		2/	••	tripped	: 2/	*	tripped	and ties	
••	Dol.	Dol.	: Dol	••	Dol.	: Dol	••	Dol.	**	Dol.	••	Dol.	••	Dol.	: Dol	••	Dol.	Dol.	
Alabama	7.80 :	01.11		•• ••	:	: . l.6		ł	•• ••	5.45	•• ••	0.45	•• ••	I	: 1•0	•••	1	2.66	
Arisona	1	8	-	• ••	ł		• ••	ł	••	1	•••	-111-	••	0.l19		•••	1	3.29	
Arkansas	8.00 :	11.00	:	••	I	: 1.7	•• @	3/	**	-	••	•60	••	•70	: 3/	••) E	3.54	
California:	•	1	•	**	1	-	••	i	**		••	•140	••	tu.		••		3•25	
Florida	8.51	1		••	8		••	1	••	-	••	ł	**	I	: 1.2			3•00	
Georgia	8.33 :	1	1	••		: 1•9	 2	2	••	6°00	••	5	••	2	: 1.J	.") M	2.88	
Louisiana	•	ł	•	••	1		••	1	00 00	1		•49	••	1	: 1.4	*	ľ	3•37	
Mississippi	7.87 :	m		••	1	: 1.7	•	m	••	1	••	ហ្វ	••	•59	: 1.1	ო	ر س	3 . 51	
Missourii	-	:	1	••	ł		••	1	••	I	••	•74	••	•87		••		1.39	
New Mexico		Ľ	1°	••			••	1	••	ľ	••	°149	••	•62		••	Ľ	3•57	
North Carolina:	8.72 :) M	 	••	1	: 1•6	-2 -	m	**	m]	••	ក្ដីរំ	••	2	: 1.J	*	ر سا	2.99	
Oklahoma	:	1	••	••	8	:	••	ł	••	1	••	<u>.</u>	••	<u>ک</u>		••	1.	3°39	
South Carolina	1.1.1	:	••	••	1		••	ł	**	1	••	S.	••	1	: 1.2	••	ς Γ	2°83	
Tennessee	8.69 :	10.32		••	13	: 2.0	••	2 .1 5	••	-	••	20 20	••			••	1	3.65	
Texas	•	I	: 0.75	••	M		••	ł	••	1	••	ل	••	•52	: 1.3	 	1.91	3.63	
Virginia	7.35 :		-	••	8		••	1	••	-	••	•35	••	I		••		2°50	
	•	10.05	••	••	10	••	••		••	2	••	{	••	โ	••	••	c c	1	
United States:	8•08	10.86		••	2	: T•0	••	2°09	••	5.02	••	₽4•	••	1 1<	: T•2		T-09	CH-5	
••	••			•			•		:	·						••			
" / Dotos amo amo			and a	9	and and and	1	7												
1/ Rates are excru	BIVE OI du	ny separat	e cnar	ges r	artyno ro	IT JO	nt c1	eaning.											
3/ Represents less	than 0.5	percent (of tota	l gin	nings in	State.													

- 42 -

Table 29.--Estimated average charges for ginning upland cotton under specified systems of assessing charges, by States, season 1951-52 1/

	arate	arge er tern	or	ties	히		01	111.	•73	•L5	8	•12	.63	• 72	51	. 88	.26	52.	.16	• 72	• 78	-	6 2	
	Sep	ch Pat	сн 8 2 2	and	Ā		m	m	m	m	m	m	m	m	7	m	m	m	m	m	ŝ		m	
	ties :	et.	Snapped :	and .		••	1.20 :		3/ :		1	1.70 :	1.51	3/			3/ :		3/ :		1.72 :	•	: 1.65 :	••
	ging and 1	Per cu lint	Picked :	couton :	: · Tod	••	1.06		3/ :		1.40 :	1.19 :	1.50 :	1.11 :	:		1.30 :	:	1.26 :	 	1.39 :		: 1.29 :	•
	iding bag	Fer cwt. seed cotton	inapped :	and .	Dol.	••	 	: 610	• 69	• 148 :		• lt9 :	• 65	•57 :	•91 :	• 10	3/ :	: 09 <u>·</u>	3/ :		54	•	• 56	••
S	not inclu		Picked :	2/ 11	Dol.	••	0.40	•43 :	•63 :	• 42 :	•	• 146 :	•57 :	ۍ ۲	• 75 :	•57 :	•56	•61	•53	85 .	•56		•53 :	•
Ing charge	g charges	ale :	Snapped :	and .	Dol.	••		** 8 8	•••	1		3/ :		1	:	*	:		:		:	3	3/ :	•
f assessi	Ginning	Per b	Picked :	cotton : 2/ ::	Dol. :	••	••				8	7.65 :	••	••		:-	6.26 :					••	: 12°-1	•
tem o	:	•• •• ••	::: 7	ed::	•••	••	••	••	••	•••	••	••	••	••	••	••	••	••	••	**	••	••		•
Sys	80	Per cwt. lint	5napped and	and	Dol.		m		1	1	å B	2°05	1	3	1	1	3/	1	ł	2°00	8	1	1.97	
	ig and ti		Picked :5	cotton : 2/ ::	Dol. :	••	1.83 :		1.88 :		:-	2.0lt :	1	1.59 :	8	•••	1.72 :	:		2.00 :			: 1 . 96 :	•
	ggin		i i	ed:	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	2	•
	ing ba	wt. tton	Snappe	and stripi	Dol		8	8	1	06°	8	1	8	1.	-	1	8	8	į	1	3/	11	.8	
	s includ	Per c seed co	Picked :	cotton : 2/ :	Dol.	••		:	1	• 90	1	1	8	1	1	8	3/		1	8	3/ :	.1		•
	ng charges		napped : P and : c	ana . stripped:	Dol. :	••	10.43 :		: 72.11	8	10.00 :	: 70°11	8	3/ :			:		:	10.73 :			: 10°58	•
	Ginni	Per ba	icked :	:00000 : 2/ ::	Dol. :	••	8.18 :	••	8.57 :		:00°00	.0.61 :		9.22 :			9.37 :	••	8.46 :	9.01 :	8	8°68 :	8.77 :	•
		State	••• •	• •	••.	••	Alabama	Arlzona	Arkansas	California	Floridai	Georgia1	Louisiana	Mississippi:	Missouri	New Mexico:	North Carolina:	Oklahoma	South Carolina:	Tennessee	T exas	Virginia	: United States:	•••

1/ Rates are exclusive of any separate charges for drying or lint cleaning. $\frac{2}{2}$ / Includes handpicked and machine picked. $\frac{3}{2}$ / Represents less than 0.5 percent of total ginnings in State.

Table 30.=-Estimated average charges for ginning upland cotton under specified systems of assessing charges, by States, season 1952-53 1/

	: Separate	: charge : per	: patiern	: for	: bagging	: and ties	: Dol.	, IL			3.76	UC.5 :	3.00	: 3.17	: 3.83	: 3.73	: 4.65	3.88	3.21	3.60	3.10	3.68	3.85			3.70	
	and ties	cwt.	2	: Snapped	: and	: stripped	: Dol.	1.08			 ای	ľ	: 3/	: 1-67	: 1.62	: 3/			: 3/	11	1	!	: 2.03		•••	: 1.93	
	ng bagging	Per	utt :	: Picked	: cotton	: 2/	: Dol.	: 1.31		`< 		-	: 1.40	: 1.22	: 1°64	: 1.02	 		: 1.27	1	: 1.27	:	: 1,51		••	: 1.36	
	not includi	curt.	otton	: Snapped	and :	stripped	Dol.	1	а Ч	000		10.		ایم	2	•68	•90	: :67	3/	-57	8	57	•57			•59	
harges	charges 1	. Per o	seed co	: Picked	: cotton :	: 2/	: Dol.	01	α.				1	: •45	•63	: 20 :	• 78	: .57 :	: •28	 , , , , , , , , , , , , , , , , , ,	 	: •60	: .61	-		• 57	
ssessing c	:: Ginning	Per	bale	.: Picked	:: cotton	:: 2/	:: Dol.	5,1,8			:		:	:	•	:	::		:: 7.00					:	••	::: 5.62 	
ystem of a	Ø	cwt.	lnt	Snapped	and	stripped	Dol.		-	8	8	8	Ľ	2.14	1.	<u>m</u> l	1	8	3/	8		2 . 00	8	-		2.07	
S	ng and tie	Per	1	: Picked :	: cotton :	: 2/ :	: Dol.	: 1.87 :		••• • •	: T6°T :	:		: 2.08	 /~	: 1.98 :		:	: 1.74 :		: 1.60 :	: 2.00 :	: 3/ :	•• 	••	: 2•00	
	iding baggi	cwt.	otton	Snapped	and	stripped	Dol.	1	1	8	- ^ c	اہ		8	8	8	1	I.	8	1	Ē	1	3/	11		<u>~</u> 1	
	arges inclu	Per	seed c	: Picked :	: cotton :	: 2/ :	: Dol.		••••		 	· CONT :	8 8 1		1	: 1.13			: 3/	1	:	1	: 3/	1	••	1•02	•
	dinning cha	bale		Snapped	and	: stripped	Dol.	21.11		1	21		: 13°84	11.54		اب ا	1	1	3/		1	11.11	1	1		: 11.23	
		Per	- -	: Picked	: cotton :	: 2/ :	. Dol.	: 8.1.7	- - - - - - - - - - - - - - - - - - -		: 9•03		: 10.75	. 9.45	 / 	: 8.27	:	1	: 10.14	:	: 8•03 :	: 9.04	1	: 8.33		8°80 8°80	
		C+ o+ o	2					4 โลกลาย		····· PIIOZTIY	Arkansas	Callfornta	Florida	Georgia	Louisiana	Mississippi	Missouri	New Mexico	North Carolina	Oklahoma	South Carolina	Tennessee	Texas	Virginia		United States	

Rates are exclusive of any separate charges for drying or lint cleaning. Includes handpicked and machine picked. Represents less than 0.5 percent of total ginnings in State.

-11
5
<u>–</u>
5
E .
88
Se
es
at
St
Þ
۵
ູ້
8
ar
C
50
1
SS
Se
35
44
0
SE
te
ys.
6
g
ž
ě
sp
54
de
5
a
5
6t
e
pu
la
d
50
5
g
The state
8.
[0]
10
ě
H.
ha
g
5
A
03
ed
at
1m
st
H
i
31
0
PTq
8
2.4

the second	A DESCRIPTION OF A DESC			n you cu	0000 10 1	TOTTO STITCO	800				
Ginning cha	rges inclu	iding baggi	ing and t	ies	: Ginn	ing charge	s not in	cluding ba	agging ar	d ties :	Separate
Per bale	: Per	cwt.	Per	cwt. nt	: Per	bale	: Per	cwt. cotton	: Per	cwt.	charge per
											pattern
cked : Snapped	: Picked	:Snapped	Picked	: Snapped :	: Picked	:Snapped	: Picked	: Snapped	: Picked	:Snapped:	for
tton : and	: cotton	: and	cotton	: and :	: cotton	: and	: cotton	: and	: cottor	: and :	bagging
2/ :strippe	d: 2/	:stripped:	: 2/	:stripped:	: 2/	:Stripped	: 2/	:stripped	1: 2/	:stripped:	and ties
lol. : Dol.	: Dol.	: Dol.	Dol.	: Dol.	: Dol.	: Dol.	: Dol.	: Dol.	: Dol.	: Dol.	Dol.
••		•••		••	••	••	••	•••	••	••	
•38 : 11.43		8	2.10	: 3/ :	: 5.32	8	: 0.39	 V	: 1.31	: 1.93 :	3 . 04
	: 1.07	: 1.10 :				8	•52	: 0.57	:	••	3.40
•11 : 3/		:	: 1.67	•	-		: .67	: .71	:		3.80
	: 1.07	: 3/	-	:	8	:	• 45	: 53	:		3.38
•58 : 13.09			8		-	:		:	: 1.40	: 2.00 :	3 ° 00
•37 : 11.47	8	:	2°02	: 2.15 :	: 7.65	: 7.65	• 45	: .48	: 1.25	: 1.71 :	3 . 04
	8		-	8	:		: •64	•65	: 1.68	: 1.67 :	3.65
• 80 : 3/			1.91	: / /			: 58	: 3/	• • 99	: <u>/</u> :	3.74
	:		-		:	:	•80	: 93		•••	l4.68
	8		-	1	1	8	•60	: •62	1		. 3.87
•86 : <u>3</u> /			1.87	: 3/ :		8	•58	: •70	: 1.33	: 3/ :	3.19
-			8				•62	• • •		•• • •	3.50
•26 :	8	8	1.98	•		1	:	: 3/	: 1.34	: 3/ :	3.08
•17 : 11.09			2°00				: .62	: •62		••	3.85
	 	: /~ :	2	1			•58	: 55	: 1.55	: 2,00	3.73
•13 :			-			8					-
••		••		••	••	••		••	••	••	
17. : 11.34	: 1.07	: 1.01	: 1.99	: 2 . 15 :	: 5.57	: 7.65	•58	• 56	: 1.41	: 1.94 :	3.64
-				••	••	••				••	
	Per bale Per bale cked Snapped otton : and 2/ :strippe 01.	Per baleFer seedPer balePer seedcked :Smapped : Pickedotton : and : cotton $2/$:stripped: $2/$ 01_{-} : 10_{1}_{-} -33 : $11_{-}1_{1}^{-}$ -37 : $11_{-}1_{1}^{-}$ -86 : $3/$ -86 : $3/$ -86 : $3/$ -17 : $11_{-}09$ -17 : $11_{-}09$ -17 : $11_{-}09$ -17 : $11_{-}34_{1}$ -77 : $11_{-}34_{1}$ -77 : $11_{-}34_{1}$	Per balePer cuarges including oagg seed cottonPer balePer cwt.cked SmappedPer cwt.cked SmappedPicked Smappedotton:andcotton:and $2/$ stripped: $2/$ istripped: $2/$ 1.01_{0} 01_{0} 101_{0} $2/$ 1.01_{0} $2/$ 11.01_{0} 11 $2/$ $2/$ 11.01_{0} 11 $2/$ 37 11.01_{0} 26 $2/$ 26 $$ 26 $$ 26 $$ 26 $$ 26 $$ 26 $$ -17 11.00_{0} -17 11.00_{0} -17 11.01_{0} -77 11.01_{0} -77 11.01_{0} -77 11.01_{0}	Per balePer cwt.Per cwt.Per larPer baleseed cotton11.cked :SmappedFlcked :Snapped : Pickedotton : andcotton : andcotton $2/$:stripped: $2/$:stripped: $2/$.38<	Per balePer cwt.Per cwt.Per balePer cwt.Per cwt.cked SmappedPer cwt.Ilntcked SmappedPlaced Snappedotton : andcotton : and $2/$:stripped: $2/$:stripped: $2/$:stripped 38 : 11.413 $$ $2/$:stripped: $2/$:stripped: $2/$:stripped 37 : 11.413 $$ 37 : 11.413 $$ 20 : $3/$: $$ 37 : 11.417 $$ -580 : $3/$: $$ $$ -607 : $3/$: $$ -11 : $3/$: $$ -11 : $3/$: $$ -11 : 1.007 : $$ -12 : 11.417 : $$ -11 : -07 : $$ -107 : $$ -107 : $$ -11 : -01 : -01 : -01 : -01 -12 : -07 : $$ -107 : $$ -107 : $$ -107 : $$ -107 : $$ -107 : $$ -107 : $$ -107 : $$	Per balePer cwt.Per cwt.Per cwt.Per balePer cwt.Per cwt.Per cwt.Per cwt.cked Smapped : Picked Snapped : Picked	Per balePer cwt.Per cwt.Per balePer balePer cwt.Per cwt.Per cwt.Per balecked SmappedPlcked Snapped SnappedPlcked SnappedSnappedcked SmappedPlcked SnappedPlcked SnappedPlcked Snapped $2/$ stripped: $2/$ stripped: $2/$ stripped: $2/$ stripped $2/$ stripped: $2/$ stripped: $2/$ stripped: $2/$ stripped $2/$ stripped: $2/$ stripped: $2/$ stripped: $2/$ stripped: $3/8$ 11.4/3 $$ 2.010 $3/$ 5.32 $$ 1.01 -1 $2/$ 11.4/3 $$ 2.010 $3/$ 5.32 $$ 1.01 -11 $3/$ $$ 1.07 1.100 1.67 $$ 1.01 $-3/7$ 11.4/7 $$ 2.05 2.15 7.65 -66 $3/$ $$ 1.01 1.67 $$ 1.01 $$ 1.01 -10 $3/$ $11.4/7$ $$ 1.01 $3/$ $$ 1.01 $$ 1.01 -11 $3/$ $$ $$ 1.07 1.67 $$ $$ 1.01 $$ $$ $$ $$ $$ $$ $$ $$	Fer balePer cartePer cartePer cartePer balePer	Per balePer cwt. seed cottonPer cwt. IlintPer cwt. red cottonPer baleReadcottonPer cwt. IlintPer cwt. Per cwt.Per baleReed cottonPer cwt. IlintPer cwt. Per cwt.Per cwt. Per cwt.ChediSnappedFleikedSnappedFleikedStraipedStraipedCottonandcottonand2/straiped2/straiped2/straiped2/3811.4132.103/5.320.393711.4132.103/5.320.393711.4172.103/5.320.393711.4172.052.157.657.657.65383/1.913/0.393/5711.4172.052.157.657.650.555.61.913/0.393/583/1.913/583/0.580.550.555.711.6090.580.550.555.71.913/0.580.555.80.590.580.550.555.7	Per balePer cwt. seed cottonPer cwt. andPer cwt. andPer cwt. andPer cwt. andPer cwt. andPer cwt. and $Chef i SmappedFlotked i SmappedFlotked i SmappedFlotked i SmappedFlotkedPlotked2/stripped:2/stripped:2/stripped:2/11.4132.0103/5.320.393/11.4132.0103/5.320.393/11.4132.0103/5.320.393/11.4132.0103/5.320.393/11.4172.0052.157.650.450.120.103/11.4170.393/1.0100.113/2.0052.157.650.450.460.103/0.393/0.100.113/0.393/0.300.11.4170.392.157.650.460.460.111.071.9113/0.393/0.300.111.071.9113/0.390.610.300.111.0913/1.0111.9113/$	CambragesCambragesCommany chargesControl interactionPer cwt.Fer wateFer baleFer cwt.Fer cwt.Fer cwt.Fer cwt.Fer cwt.Fer cwt.Cfed (Smapped Picked (Smap

1/ Rates are exclusive of any separate charges for drying or lint cleaning. $\overline{2}/$ Includes handpicked and machine picked. $\overline{3}/$ Represents less than 0.5 percent of total ginnings in State.

.

Table 32.--Estimated average charges for ginning upland cotton under specified systems of assessing charges, by States, season 1954-55 1/

					S	ystem of a	ssessin	g charg	es				
	Ginning ch	narges inc.	luding bag	ging and	ties	::	inning	charges	not inc	luding b	agging an	d ties	* Separate
State	Per bale	. Per	cwt. cotton	Ъ	r cwt. lint	е Ч	r bale	•• •• ••	Fer c seed co	wt. tton	Per	cwt. nt	charge per pattern
	Picked:Snapped	1 : Picked	:Snapped	: Picked	: Snapp	ed ::Pick	ed :Snaj	pped :	Picked:	Snapped	: Picked	: Snapped	for
	cotton: and	: cotton	: and	: cotton	: and	::cott	on : and	с 	cotton:	and	: cotton	: and	bagging
	2/ strippe	sd: 2/	:stripped	: 2/	: strip	ped :: 2/	:str	ipped:	2/ :	stripped	. 2/	: stripped:	and ties
	Dol. : Dol.	: Dol.	: Dol.	: Dol.	: Dol	. :: Dol	D	ol. :	Dol.:	Dol.	Dol.	: Dol.	Dol.
						::						•••	
Alabama	46.11 : 44.8		1	: 1.95	:	:: 5.9	5 : 7	: 02.4	50	1	1.26	: 1.92 :	3•01
Arizona	8 0 •••	• 90	: 3/				•		: 61.	-59	1	1	3.33
Arkansas,	3/:10.50		1	: 2.00	: 3/	:			• 69 •	•67	1	 	3.78
California		: 1.04	: 1.08	:		::			• <i>\</i> 47 :	58 82	1		3.27
Florida	10.64 : 13.86		1	1	:	::			•••		1.41	3/	3•00
Georgia	10.08 : 11.27		1	: 2.05	: 3/	::	•••		• 444 •	3/	1.28	m 	3.00
Louisiana		1				•••			•65 :	- <u>69</u>	1.76	: 1 <u>-</u> 62 :	3.70
Mississippi	9.55 : 3/	: 3/		: 1.60	: 3/	1 1 			•58 :	.61	: 1.26	 	3.76
Missouri	: 15.50		, 1	:		1 1 	•		: 62.	• 90	1		4.66
New Mexico	8 1 	:	:	00 cm	1	::	•		• 59	•62	1		3.76
North Carolina	9.87 :		:	: 1.91		::	•••		•60 :	<u>ج</u>	1.42	: 3/	3 •23
Oklahoma			:		:	•••	••		• 60		1		3•50
South Carolina	8.00 :	1	:	: 1.60	:	::	•	 !	ب	3/	1.33	: 3/ :	3.04
Tennessee	8.67 : 10.01		1	: 3/	1	:	•••	3/ :	•64 :	09	ł		3.86
Texas.			 ای		:	::			. 62	5	1.50	: 1.97 :	3.74
Virginia	: 00.01	:	!		:	::			• 50 :	1	-		2.55
	••	••	••	••	••	••	••	••	••				
	•••	••	••	••	•••	••	••	••	••			••	
United States	8.86:10.89	: 1.03	99	: 1.96	: 3/	:: 5.9	5 : 8	81 :-	• 59 :	•57	1.43	: 1.79 :	3.62
$\frac{1}{2}$ / Rates are exclus: $\frac{2}{3}$ / Includes handpic	tve of any seps sed and machine than 0.5 nerree	arate char, > picked.	ges for di	ying or	lint cle	anîng.							
1/ mohron mon	tor rol /on mon	***** TO AT	- E-unition	TAL NUME									

- 46 -

EATE CONVERSION FORMULAS

Formulas for conversion of charges for ginning and wrapping cotton, assessed by various systems, to a common base; that is, rate per 500-pound gross-weight bale

System of assessing charge	Formula
Per bale, including bagging and ties	$R = \frac{500 r}{W}$
Per bale, not including bagging and ties	$R = \frac{500 r}{w} + b$
Per hundredweight seed cotton, in-	$R = r_1 N$
Per hundredweight seed cotton, not in- cluding bagging and ties	$R = r_1 N + b$
Per hundredweight lint cotton, including bagging and ties	$R = 5r_2$
Per hundredweight lint cotton, not : including bagging and ties	R = 5r + b

R = rate for ginning and wrapping per 500-pound gross-weight bale
r = rate per running bale
r_1 = rate per hundredweight seed cotton
r_2 = rate per hundredweight lint cotton
w² = average weight of bales

- b = separate charge for bagging and ties
- N = number of hundredweight of seed cotton required for a 500pound gross-weight bale

☆ U. S. GOVERNMENT PRINTING OFFICE: 1956 O - 387211



.

.

. .

-4