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COTTONSEED QUALITY

CROP OF 1964



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Cottonseed Quality - Crop of 1964

This publication contains statistical data on the quality of cottonseed graded from the 1964 crop with comparative data for 1963. Averages of cottonseed quality factors and grades are shown by states, districts, months and by specified frequencies. Data were compiled from official cottonseed grade certificates issued by licensed chemists under the supervision of the Department of Agriculture.

Official grade certificates covering 91,900 samples of cottonseed were issued during the 1964-65 season. These samples were drawn from cottonseed delivered to crushing mills located principally in the south central and southwestern areas of the Cotton Belt. Averages shown for the United States are not fully representative of the entire crop because of the relatively small volume of seed graded in a number of states in the southeastern and far western areas.

A summary of cottonseed grades and quantity and quality factors is shown below in Table 1 for the fifteen-year period 1950-1964. These data show that the 1964-65 grade was down moderately from a year earlier but slightly higher than the five-year 1959-63 average. The average oil and ammonia content of seed from the 1964 crop were both down slightly from a year earlier while linters content was the highest in six years. The average percentage of moisture was up substantially from a year earlier. The proportion of free fatty acids increased slightly and foreign matter content was unchanged for the third consecutive year.

Average quality factors of cottonseed are shown for specified states in Table 3. These averages, as well as all others in this report, are arithmetic means of quality factors and indexes tabulated and averaged from individual grade certificates. This table contains average quality factors, averages of quality and quantity indexes, and average grades of cottonseed by states.

Table 1. Cottonseed quality factors, indexes, and grades,
1950-1964 ^{1/}

Year beginning August 1	Cottonseed quantity and quality factors						Quantity	Quality	Average grade	Number of samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter				
	Percent	Percent	Percent	Percent	Percent	Percent				
1950	18.7	3.64	-	12.8	1.9	1.1	101.02	95.0	96.0	87,663
1951	18.5	3.88	-	11.0	1.5	1.0	101.56	96.5	98.0	124,398
1952	18.6	4.04	-	9.5	1.0	0.9	102.95	98.1	101.0	145,146
1953	18.7	4.00	-	9.0	0.7	0.8	103.46	99.0	102.5	166,916
1954	18.2	4.12	11.4	9.2	0.7	1.0	102.07	99.2	101.5	128,983
1955	18.9	3.95	10.4	10.4	0.7	0.9	102.96	98.9	102.0	101,174
1956	18.9	4.12	10.2	9.1	0.5	0.8	103.51	99.5	103.0	79,071
1957	18.8	3.78	10.0	12.5	2.5	1.3	100.81	92.9	93.5	74,016
1958	19.0	3.76	10.4	11.5	1.4	1.0	102.09	97.0	99.0	72,076
1959	18.8	3.89	10.2	11.4	1.3	0.9	102.10	97.1	100.0	87,772
1960	18.6	3.98	9.7	11.7	1.6	1.1	100.70	95.7	96.0	83,410
1961	18.8	3.83	10.1	10.9	0.9	1.2	101.16	98.0	99.5	92,251
1962	18.2	3.96	10.1	11.1	1.4	1.1	98.54	97.6	96.5	98,390
1963	18.7	4.05	10.3	9.3	0.7	1.1	103.55	99.2	103.0	86,035
1964	18.4	3.98	10.4	10.6	0.9	1.1	102.07	98.5	100.5	91,881

^{1/} National averages appearing in this table and presented in all other tables are based on state quality factors and grades weighted by number of official cottonseed grade certificates.

Standards for Grades of Cottonseed Sold or Offered for Sale
for Crushing Purposes Within the United States
(As Amended Effective October 1, 1963)

Determination of grade. The grade of cottonseed shall be determined from the analysis of samples, and it shall be the result, stated in the nearest whole or half numbers, obtained by multiplying a quantity index by a quality index and dividing the result by 100. The quantity index and the quality index shall be determined as hereinafter provided.

- (a) The basis grade of cottonseed shall be grade 100.
- (b) High grades of cottonseed shall be those grades above 100.
- (c) Low grades of cottonseed shall be those grades below 100.

Determination of quantity index. The quantity index of cottonseed shall be determined as follows:

- (a) The quantity index shall equal the result of 4 times (percentage of oil) plus 6 times (percentage of ammonia) plus the applicable linters premium or discount calculated on the basis of the formula shown below, plus 5.
- (b) Formulas for determining linters premiums and discounts (total linters content to the nearest 0.1 percent) are as follows:

Percent Linters on Cottonseed	Premium or Discount Factor
10.6 and over	Premium = (percent linters minus 10.5) x 1.0
10.5	None
10.4-9.0	Discount = (10.5 minus percent linters) x 1.0
8.9-4.0	Discount = (9.0 minus percent linters) x 2.0 + 1.5
3.9-0	Discount = (4.0 minus percent linters) x 2.5 + 11.5

Determination of quality index. The quality index of cottonseed shall be an index of purity and soundness, and shall be determined as follows:

- (a) Prime quality cottonseed. Cottonseed that by analysis contain not more than 1.0 percent of foreign matter, not more than 12.0 percent of moisture, and not more than 1.8 percent free fatty acids in the oil in the seed, shall be known as prime quality cottonseed and shall have a quality index of 100.
- (b) Below prime quality cottonseed. The quality index of cottonseed that by analysis contain foreign matter, moisture, or free fatty acids in the oil in the seed, in excess of the percentage prescribed in (a) above shall be found by reducing the quality index of prime quality cottonseed as follows:
 - (1) Four-tenths of a unit for each 0.1 percent of free fatty acids in the oil in the seed in excess of 1.8 percent.
 - (2) One-tenth of a unit for each 0.1 percent of foreign matter in excess of 1.0 percent.
 - (3) One-tenth of a unit for each 0.1 percent of moisture in excess of 12.0 percent.
- (c) Off quality cottonseed. Cottonseed that has been treated by either mechanical or chemical process other than the usual cleaning, drying, and ginning (except sterilization required by the United States Department of Agriculture for quarantine purposes) or that are fermented or hot, or that upon analysis are found to contain 12.5 percent or more of free fatty acids in the oil in the seed, or more than 10.0 percent of foreign matter, or more than 20.0 percent of moisture, or more than 25.0 percent of moisture and foreign matter combined, shall be designated as "off quality cottonseed".
- (d) Below grade cottonseed. Cottonseed the grade of which when calculated according to the foregoing is below grade 40.0 shall be designated as "below grade cottonseed" and a numerical grade shall not be indicated.

Table 2. Examples of the computation of cottonseed quality and quantity indexes and grades, by qualities, in accordance with the Official Standards of the United States 1/

Ex-ample 2/	Quality Factors										Quantity Factors					Grade		
	FFA 3/		FM 4/		H ₂ O 5/		Total Reduc-tions 6/	Qual-ity index		Oil		NH ₃ 9/		Linters	Sum of Pro-ducts 7/		Adjust-ment Fac-tors	Quan-tity Index
	Total	Re-duction	Total	Re-duction	Total	Re-duction		Total	Pro-duct 7/	Total	Pro-duct 7/	Total	Pro-duct 7/					
							Pct.							Units	Pct.		Units	Pct.
<u>PRIME QUALITY SEED</u>																		
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	12.0	+1.5	99.10	+5	104.10	
2	1.8	0.0	1.0	0.0	12.0	0.0	0.0	100.0	17.8	71.2	4.10	24.60	10.0	-0.5	95.30	+5	100.30	
3	1.2	0.0	0.8	0.0	9.6	0.0	0.0	100.0	16.2	64.8	3.97	23.82	9.5	-1.0	87.62	+5	92.62	
<u>BELOW PRIME QUALITY SEED</u>																		
4	1.9	0.4	1.0	0.0	12.0	0.0	0.4	99.6	18.5	74.0	3.50	21.00	12.0	+1.5	96.50	+5	101.50	
5	1.8	0.0	1.1	0.1	12.0	0.0	0.1	99.9	19.7	78.8	3.75	22.50	11.0	+0.5	101.80	+5	106.80	
6	1.8	0.0	1.0	0.0	12.1	0.1	0.1	99.9	17.3	69.2	4.23	25.38	8.7	-2.1	92.48	+5	97.48	
7	1.9	0.4	1.1	0.1	12.1	0.1	0.6	99.4	15.8	63.2	2.98	17.88	14.0	+3.5	84.58	+5	89.58	
8	2.5	2.8	3.2	2.2	7.4	0.0	5.0	95.0	24.7	98.8	4.15	24.90	1.7	-17.25	106.45	+5	111.45	
<u>OFF QUALITY SEED</u>																		
Treated (other than usual), Fermented, Hot																		
9	12.5	42.8	0.7	0.0	12.0	0.0	42.8	57.2	20.1	80.4	3.67	22.02	11.5	+1.0	103.42	+5	108.42	
10	1.8	0.0	10.1	9.1	12.0	0.0	9.1	90.9	16.9	67.6	4.13	24.78	8.9	-1.7	90.68	+5	95.68	
11	1.8	0.0	1.0	0.0	20.1	8.1	8.1	91.9	18.8	75.2	3.80	22.80	13.2	+2.7	100.70	+5	105.70	
12	1.8	0.0	15.8	14.8	11.1	0.0	14.8	85.2	19.3	77.2	4.08	24.48	12.1	+1.6	103.28	+5	108.28	
13	4.6	11.2	11.5	10.5	9.2	0.0	21.7	78.3	16.4	65.6	4.32	25.92	10.6	+0.1	91.62	+5	96.62	
<u>BELOW GRADE SEED</u>																		
14	10.5	34.8	20.8	19.8	15.6	3.6	58.2	41.8	17.0	68.0	3.41	20.46	11.5	+1.0	89.46	+5	94.46	
15	17.5	62.8	0.5	0.0	14.1	2.1	64.9	35.1	19.5	78.0	3.94	23.64	13.9	+3.4	105.04	+5	110.04	

1/ Important key figures that determine the range of various qualities of cottonseed are underscored.

2/ Example "6", demonstration of application of grading system on American-Egyptian seed; all others relate primarily to upland cottonseed.

3/ Free fatty acids in the oil in the seed.

4/ Foreign matter in the seed.

5/ Moisture in the seed.

6/ Reductions are the adjustments made in the quality index for excesses of free fatty acids, foreign matter, and moisture above or below tolerances.

7/ "Products" are percentages of oil, ammonia and linters in the seed multiplied by the factor used in computing the quantity index.

For linters, the "products" are positive or negative depending on relationship of linters content to the 10.5 percent base.

8/ Ammonia in the seed.

• Below grade 40. No numerical grade is indicated.



Figure 1. -- Crop-reporting districts of the U. S. Department of Agriculture for the cotton-producing States.

Table 3. Cottonseed: Quality factors, indexes, and grades, by States and United States, 1963 and 1964

State	Cottonseed analysis														Average index				Average grade	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1963	1964		
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964						
	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>					
Ala.	19.3	18.8	3.91	3.86	11.0	10.9	9.5	10.8	0.6	0.9	0.6	0.8	105.90	103.89	99.7	99.2	105.5	103.0		
Ariz.	18.7	18.8	4.15	4.08	10.4	10.6	8.3	8.8	1.4	1.2	1.6	2.1	104.39	104.97	97.6	97.2	102.0	102.5		
Ark.	19.0	18.4	4.10	4.01	10.0	10.3	9.7	11.7	0.6	0.8	0.9	0.9	104.65	102.15	99.3	98.7	104.0	101.0		
Calif.	18.7	19.0	4.19	4.15	9.8	9.9	7.9	8.2	3.2	1.7	1.5	1.6	104.09	105.32	92.8	97.4	96.5	103.0		
Ky.	19.4	18.3	3.82	4.00	10.4	10.5	9.9	10.9	0.5	0.7	1.0	1.2	105.65	102.39	99.4	99.0	105.0	101.5		
La.	18.4	18.0	4.05	3.98	10.1	10.0	10.3	11.7	1.3	2.3	0.7	0.7	101.86	100.28	98.7	95.5	100.5	96.0		
Miss.	18.7	18.3	4.01	3.94	10.8	10.6	9.7	11.1	0.6	1.0	0.8	0.9	103.62	102.06	99.5	98.5	103.5	100.5		
Mo.	18.9	18.3	4.00	4.01	10.2	10.3	10.6	11.9	0.6	0.8	1.0	1.0	104.00	101.85	98.9	98.4	103.0	100.5		
N. Mex.	19.0	19.7	3.95	3.89	10.0	10.5	7.8	7.8	0.5	0.5	1.9	1.5	103.98	106.95	98.9	99.2	103.0	106.5		
Okla.	17.7	17.8	4.16	4.12	11.1	10.6	8.4	10.3	0.6	1.1	1.4	1.4	101.32	100.85	99.3	99.3	101.0	100.5		
Tenn.	19.4	18.7	3.97	3.79	10.3	10.6	9.9	11.7	0.6	0.7	1.0	1.2	105.92	102.58	99.2	98.6	105.5	101.5		
Tex.	18.3	18.2	4.11	4.08	9.9	10.0	7.8	8.5	0.6	0.6	1.7	1.5	101.53	101.47	99.1	99.1	101.0	101.0		
All other	19.3	19.3	3.66	3.86	12.1	11.7	8.8	10.1	0.9	2.1	1.7	0.9	106.04	106.27	98.2	96.5	104.5	102.5		
Total	18.7	18.4	4.05	3.98	10.3	10.4	9.3	10.6	0.7	0.9	1.1	1.1	103.55	102.07	99.2	98.5	103.0	100.5		

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1963 and 1964

ALABAMA

Month	Cottonseed analysis												Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1963	1964	1963	1964	No.	No.		
Aug.	18.6	17.9	3.55	3.67	10.6	12.4	13.9	13.7	1.4	1.2	0.4	1.6	99.21	100.69	96.0	96.3	95.5	97.0	47	9
Sept.	18.8	19.6	3.73	3.88	11.6	11.1	11.2	9.9	0.6	0.6	0.4	0.5	102.63	107.51	99.4	99.7	102.0	107.5	1,139	1,034
Oct.	19.5	19.0	3.97	3.87	10.9	10.7	8.8	10.8	0.5	0.6	0.5	0.7	107.31	104.21	99.9	99.7	107.5	104.0	2,028	1,672
Nov.	19.5	18.4	3.99	3.86	10.7	11.0	8.4	10.9	0.5	1.0	1.0	0.9	107.38	102.24	99.7	99.3	107.0	101.5	763	1,384
Dec.	19.2	18.1	3.93	3.80	10.8	11.0	9.4	12.0	0.5	1.3	1.1	1.3	105.81	100.79	99.6	98.3	105.5	99.0	171	430
Jan.	19.2	18.2	3.93	3.82	10.6	11.0	9.7	11.9	0.6	1.8	1.3	1.6	105.83	101.12	99.4	96.5	105.0	97.5	101	253
Feb.	19.4	18.8	3.96	3.92	10.8	11.3	9.5	10.6	0.5	1.4	1.0	1.2	106.68	104.53	99.7	97.9	106.5	102.5	98	143
Mar.-July	19.1	18.6	3.97	3.94	11.0	10.9	9.7	10.4	0.7	1.7	1.2	1.2	105.91	103.70	98.8	97.3	105.0	101.5	103	164
Season	19.3	18.8	3.91	3.86	11.0	10.9	9.5	10.8	0.6	0.9	0.6	0.8	105.90	103.69	99.7	99.2	105.5	103.0	4,450	5,089

ARIZONA

Aug.	18.3	19.2	3.98	3.87	9.9	9.5	11.4	9.9	0.4	0.9	0.2	0.9	99.35	104.42	99.5	99.8	99.5	104.5	5	3
Sept.	19.0	19.1	4.06	3.94	9.5	10.0	10.3	10.8	0.9	0.6	0.8	0.6	102.65	104.37	99.5	99.4	102.5	104.0	93	65
Oct.	19.4	19.3	4.15	4.06	10.3	10.8	8.2	9.1	0.6	0.5	0.5	0.6	107.51	107.13	99.9	99.8	107.5	107.0	511	525
Nov.	19.0	19.4	4.13	4.17	10.4	10.6	9.2	8.2	0.6	0.5	0.7	0.6	105.95	107.90	99.8	100.0	106.0	108.0	684	615
Dec.	18.5	19.0	4.17	4.11	10.4	10.5	8.6	8.1	1.2	0.9	1.4	1.3	103.77	105.81	96.8	99.2	102.5	105.0	637	898
Jan.	17.9	18.0	4.19	3.94	10.4	10.4	6.9	10.3	2.3	1.6	3.1	3.5	101.69	100.38	94.9	96.2	96.5	97.0	449	389
Feb.	17.8	17.8	4.15	4.01	10.6	10.5	6.8	9.5	3.4	3.4	4.0	6.7	101.27	100.09	90.1	87.2	91.5	87.0	236	282
Mar.-July	18.0	17.7	4.17	4.07	10.7	10.8	6.3	8.1	3.7	4.9	5.4	7.9	102.06	100.24	87.9	79.5	89.5	78.5	58	104
Season	18.7	18.8	4.15	4.08	10.4	10.6	8.3	8.8	1.4	1.2	1.6	2.1	104.39	104.97	97.6	97.2	102.0	102.5	2,673	2,881

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1963 and 1964 (Continued)

ARKANSAS

Month	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1963	1964	1963	1964	No.	No.
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964
Aug.	18.0	18.6	3.98	4.02	8.9	9.7	13.7	11.5	2.1	2.4	0.6	0.7	96.76	102.49	93.8	94.0	91.5	97.0	194	35		
Sept.	18.2	18.5	4.04	4.09	9.9	9.7	12.0	12.1	0.6	0.5	0.6	0.6	100.07	102.51	99.0	99.0	99.5	101.5	4,873	2,988		
Oct.	19.5	18.9	4.15	4.08	9.9	9.9	8.4	11.2	0.6	0.5	0.7	0.6	107.34	104.46	99.9	99.6	107.5	104.0	7,975	7,448		
Nov.	19.3	18.1	4.09	3.97	10.2	11.0	8.7	11.0	0.5	0.7	1.2	0.9	106.67	101.52	99.6	99.6	106.5	101.5	2,986	4,535		
Dec.	18.5	17.3	4.00	3.84	10.3	10.9	10.4	13.5	0.7	1.1	1.9	1.5	102.84	97.30	98.8	97.5	102.0	95.0	872	1,284		
Jan.	18.4	17.0	4.02	3.75	10.3	11.0	10.7	14.4	0.9	1.9	2.4	2.4	102.43	95.55	97.9	94.2	100.5	90.0	372	861		
Feb.	18.5	17.4	4.05	3.81	10.3	11.0	10.4	13.1	1.2	2.4	2.2	2.6	103.20	97.65	97.6	93.5	101.0	91.5	492	545		
Mar.-July	18.3	17.8	4.09	3.89	10.4	10.6	10.0	12.3	1.8	3.2	2.0	2.6	101.33	99.25	96.2	90.3	98.0	90.0	155	342		
Season	19.0	18.4	4.10	4.01	10.0	10.3	9.7	11.7	0.6	0.8	0.9	0.9	104.65	102.15	99.3	98.7	104.0	101.0	17,919	18,038		

CALIFORNIA

Sept.	18.8	-	4.05	-	10.8	-	10.1	-	0.7	-	0.6	-	103.13	-	99.6	-	103.0	-	6	-		
Oct.	19.0	19.2	3.99	3.88	10.0	10.7	10.8	10.8	0.8	0.4	0.4	0.4	104.13	105.29	99.7	99.7	104.0	105.0	16	20		
Nov.	19.4	19.7	4.17	4.17	9.5	10.0	9.2	8.4	2.2	0.7	0.5	0.7	106.23	108.48	97.0	99.8	103.0	108.5	99	64		
Dec.	19.1	19.4	4.20	4.18	9.8	9.9	7.9	8.0	2.9	1.4	0.9	1.1	105.87	107.21	94.6	98.9	100.0	106.0	266	246		
Jan.	17.5	18.1	4.18	4.15	9.8	9.8	7.2	8.3	4.3	2.3	2.5	2.4	99.19	101.78	88.6	95.5	88.0	97.5	114	135		
Feb.	17.9	17.8	4.24	4.15	10.4	10.1	6.6	7.6	5.0	3.7	4.4	3.8	101.33	100.76	83.7	89.9	83.5	90.5	50	38		
Mar.-July	18.6	18.1	4.23	4.15	10.6	10.5	6.2	7.3	4.7	2.0	2.7	5.1	104.97	102.06	86.6	95.0	91.5	97.0	16	4		
Season	18.7	19.0	4.19	4.15	9.8	9.9	7.9	8.2	3.2	1.7	1.5	1.6	104.09	105.32	92.8	97.4	96.5	103.0	567	507		

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1963 and 1964 (Continued)

KENTUCKY

Month	Cottonseed analysis												Average index		Average grade		Samples				
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.				
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.	No.			
Sept.	19.1	18.8	3.62	4.01	10.0	10.4	13.7	10.7	0.6	0.5	0.7	0.7	101.63	103.79	97.9	99.9	99.0	104.0	10	20	
Oct.	20.0	18.8	3.88	4.00	10.2	9.9	9.1	11.3	0.4	0.5	0.6	1.0	107.96	103.82	100.0	99.5	108.0	103.5	40	27	
Nov.	19.0	17.8	3.85	4.00	11.0	11.2	9.0	9.5	0.5	0.6	1.2	1.5	104.89	100.88	99.5	99.4	104.5	100.5	16	14	
Dec.	18.9	17.0	3.77	3.92	10.8	11.0	10.7	13.1	0.4	1.6	2.0	3.7	103.28	96.50	99.0	93.0	102.5	90.5	8	2	
Jan.	18.2	16.7	3.72	3.97	10.8	11.5	10.6	12.9	1.5	2.4	3.4	2.5	100.25	96.42	96.0	92.1	97.0	84.5	3	3	
Feb.	17.7	16.2	3.92	3.77	10.5	12.5	9.6	13.6	0.6	2.2	1.3	4.8	100.50	96.25	99.5	93.7	100.5	87.5	1	1	
Mar.-July	-	15.5	-	3.92	-	12.5	-	10.6	-	1.4	-	3.6	-	92.50	-	97.5	-	87.5	-	1	1
Season	19.4	18.3	3.82	4.00	10.4	10.5	9.9	10.9	0.5	0.7	1.0	1.2	105.65	102.39	99.4	99.0	105.0	101.5	78	68	

LOUISIANA

Aug.	17.3	16.7	3.72	3.64	10.4	9.6	14.8	17.9	1.6	4.0	0.5	0.8	94.97	92.56	95.1	84.6	90.5	75.5	428	134
Sept.	18.3	18.1	3.97	3.95	10.1	10.0	11.4	12.0	0.9	1.8	0.5	0.5	100.26	100.46	99.2	96.8	99.5	97.5	2,234	1,797
Oct.	18.6	18.4	4.14	4.06	10.1	9.8	9.2	11.1	1.5	2.1	0.6	0.6	103.91	102.40	98.9	96.5	103.0	99.0	3,022	2,719
Nov.	18.2	17.5	4.13	3.95	10.3	10.4	9.1	11.6	1.4	2.5	1.0	0.8	102.61	98.38	98.8	95.6	101.5	94.0	834	1,268
Dec.	18.0	16.9	4.07	3.91	10.5	10.3	10.4	12.7	1.6	3.5	1.3	1.1	100.99	95.67	98.2	91.4	99.5	88.0	168	289
Jan.	17.8	16.6	4.02	3.80	10.4	10.6	10.8	13.2	1.9	4.6	1.6	1.6	99.90	93.95	97.1	86.2	97.5	80.5	64	145
Feb.	17.6	16.8	4.01	3.82	10.5	10.6	10.6	12.6	2.6	5.5	1.9	2.0	99.58	94.72	95.7	81.3	95.5	78.0	27	58
Mar.-July	18.2	17.3	4.22	3.98	10.1	10.4	9.3	11.1	2.2	5.2	1.2	1.6	102.38	97.84	96.3	85.5	99.5	83.0	34	40
Season	18.4	18.0	4.05	3.98	10.1	10.0	10.3	11.7	1.3	2.3	0.7	0.7	101.86	100.28	98.7	95.5	100.5	96.0	6,811	6,450

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1963 and 1964 (Continued)

MISSISSIPPI

Month	Cottonseed analysis														Average index		Average grade		Samples					
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1963		1964		1963		1964	
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964
	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>No.</u>	<u>No.</u>		
Aug.	17.6	17.0	3.92	3.67	10.4	11.0	13.3	15.8	1.1	1.5	0.6	0.7	97.33	95.09	97.1	95.0	95.0	90.5	626	246				
Sept.	18.3	18.8	3.89	3.95	10.9	10.4	11.5	10.7	0.6	0.6	0.5	0.6	101.03	103.88	99.3	99.5	100.5	103.5	5,925	6,056				
Oct.	19.0	18.6	4.06	3.99	10.7	10.4	8.5	10.8	0.6	0.7	0.7	0.7	105.63	103.43	99.9	99.4	105.5	103.0	9,572	8,804				
Nov.	18.6	17.8	4.06	3.92	10.7	10.9	8.9	11.0	0.6	1.2	1.2	1.0	104.09	100.11	99.6	98.4	104.0	98.5	3,541	5,399				
Dec.	18.3	17.5	3.98	3.78	10.6	10.9	10.5	12.8	0.7	1.8	1.6	1.5	102.21	97.79	98.9	95.9	101.5	94.0	736	1,267				
Jan.	18.2	17.3	3.97	3.75	10.7	11.0	10.4	13.4	1.1	2.7	1.8	2.2	101.75	97.02	97.8	92.3	100.0	90.0	201	667				
Feb.	18.2	17.3	3.99	3.81	10.6	11.0	10.6	12.6	1.2	3.3	1.9	2.4	101.75	97.20	98.0	90.5	100.0	88.0	123	253				
Mar.--July	18.5	17.6	4.14	3.98	10.6	10.8	9.3	11.2	1.2	3.2	0.9	2.0	103.89	99.31	98.5	90.3	102.5	89.5	399	322				
Season	18.7	18.3	4.01	3.94	10.8	10.6	9.7	11.1	0.6	1.0	0.8	0.9	103.62	102.06	99.5	98.5	103.5	100.5	21,123	23,014				

MISSOURI

Aug.	17.7	18.5	3.94	4.10	9.8	10.4	12.0	10.8	2.9	1.5	1.2	2.0	96.50	103.31	93.0	97.5	90.5	101.0	20	12				
Sept.	17.9	18.2	3.95	4.11	10.0	9.8	14.0	12.6	0.9	0.7	0.6	0.7	98.15	101.72	97.1	98.4	95.5	100.5	1,022	900				
Oct.	19.5	18.6	4.06	4.06	10.0	9.8	9.4	11.8	0.5	0.5	0.6	0.6	106.87	103.15	99.9	99.3	107.0	102.5	2,549	2,215				
Nov.	18.9	18.1	3.99	3.93	10.7	11.3	9.3	10.4	0.5	0.6	1.2	1.1	104.98	101.62	99.5	99.6	104.5	101.5	924	921				
Dec.	18.3	17.2	3.87	3.75	10.7	11.4	11.2	13.0	0.5	1.0	2.2	1.7	101.87	97.09	98.7	97.6	100.5	95.0	258	162				
Jan.	17.8	16.6	3.83	3.58	10.8	11.5	12.1	15.6	0.7	2.2	3.3	2.5	99.30	93.25	96.9	92.3	96.5	85.5	122	88				
Feb.	17.6	16.9	3.81	3.68	10.9	11.5	12.4	14.5	1.2	3.1	4.1	3.6	98.32	95.33	95.6	88.9	94.0	84.0	96	59				
Mar.--July	17.8	17.3	3.86	3.74	10.9	11.4	11.7	12.8	2.3	4.6	3.7	3.4	99.53	97.10	92.7	84.7	92.5	81.5	94	139				
Season	18.9	18.3	4.00	4.01	10.2	10.3	10.6	11.9	0.6	0.8	1.0	1.0	104.00	101.85	98.9	98.4	103.0	100.5	5,085	4,496				

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1963 and 1964 (Continued)

NEW MEXICO

Month	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1963	1964	1963	1964	No.	No.
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964
Sept.	19.4	-	3.97	-	10.1	-	10.2	-	0.9	-	0.5	-	106.83	-	100.0	-	106.5	-	3	-	3	-
Oct.	20.4	20.5	3.81	3.84	11.6	11.2	8.3	8.4	0.4	0.4	0.9	0.8	110.79	111.23	99.8	99.7	111.0	111.0	124	188	124	188
Nov.	19.1	20.3	3.99	3.88	9.8	11.0	8.0	7.3	0.4	0.5	1.3	0.9	104.16	110.22	99.5	99.8	104.0	110.0	152	146	152	146
Dec.	18.3	18.8	4.03	3.96	8.9	9.4	7.2	7.5	0.5	0.4	2.5	1.8	99.91	102.18	98.5	99.1	98.5	101.5	157	160	157	160
Jan.	18.1	18.1	3.97	3.93	9.7	9.3	7.4	7.9	0.6	0.6	3.3	3.6	100.00	99.13	97.7	97.4	97.5	96.5	63	59	63	59
Feb.	19.1	18.5	3.85	3.84	10.8	11.6	7.8	8.1	0.8	0.9	4.9	4.0	105.16	103.00	95.7	97.1	100.0	100.0	17	11	17	11
Mar.-July	15.5	18.5	3.77	3.70	12.5	11.5	6.6	8.1	0.8	1.0	4.8	7.2	92.50	101.13	96.5	94.3	87.5	94.0	1	2	1	2
Season	19.0	19.7	3.95	3.89	10.0	10.5	7.8	7.8	0.5	0.5	1.9	1.5	103.98	106.95	98.9	99.2	103.0	106.5	517	566	517	566

OKLAHOMA

Sept.	16.7	17.3	4.14	4.11	11.4	11.2	9.3	10.0	0.6	0.8	0.9	1.1	95.91	98.84	99.6	99.5	95.5	98.5	235	49	235	49
Oct.	17.7	18.0	4.21	4.17	11.3	10.4	7.6	10.1	0.5	0.9	1.1	0.8	101.48	101.53	99.6	99.6	101.5	101.5	695	328	695	328
Nov.	18.1	18.0	4.15	4.10	11.1	10.6	8.5	10.8	0.6	0.9	1.2	0.9	102.98	101.65	99.6	99.6	103.0	101.5	510	269	510	269
Dec.	18.1	17.9	4.16	4.13	10.9	10.5	8.6	10.3	0.6	1.1	1.6	1.4	102.70	101.19	99.2	99.4	102.0	101.0	440	735	440	735
Jan.	17.6	17.6	4.09	4.09	11.0	10.9	9.0	10.0	0.8	1.2	2.2	1.9	100.45	100.31	98.7	98.9	99.5	99.5	307	644	307	644
Feb.	17.6	17.2	4.12	4.05	11.0	10.8	9.4	10.2	1.1	1.4	2.4	2.1	100.76	98.44	98.5	98.2	99.5	97.0	54	91	54	91
Mar.-July	17.8	17.3	4.15	4.12	11.0	10.5	9.8	10.5	1.9	1.1	2.1	2.1	101.71	98.62	94.7	98.5	97.0	97.0	18	13	18	13
Season	17.7	17.8	4.16	4.12	11.1	10.6	8.4	10.3	0.6	1.1	1.4	1.4	101.32	100.85	99.3	99.3	101.0	100.5	2,259	2,129	2,259	2,129

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1963 and 1964 (Continued)

TENNESSEE

Month	Cottonseed analysis												Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964		
Aug.	16.6	19.5	3.81	4.00	10.7	10.5	15.4	9.1	3.6	2.6	1.7	1.6	92.81	105.38	86.2	93.7	81.5	100.5	8	2
Sept.	18.3	19.4	3.88	3.89	10.7	10.0	12.7	12.1	0.8	0.6	0.6	0.6	100.53	105.40	98.3	99.0	99.0	104.5	1,455	1,018
Oct.	19.8	19.3	4.02	3.85	10.0	10.1	8.8	11.4	0.5	0.5	0.7	0.7	108.23	104.84	99.9	99.5	108.5	104.5	3,202	3,155
Nov.	19.6	18.5	3.98	3.78	10.5	11.1	8.7	10.6	0.5	0.5	1.3	1.1	107.62	102.34	99.5	99.6	107.5	102.0	1,295	2,348
Dec.	18.8	17.4	3.89	3.59	10.5	11.2	10.9	13.8	0.5	0.9	2.4	2.0	103.76	96.58	98.4	97.0	102.0	94.0	424	722
Jan.	18.6	17.1	3.87	3.54	10.6	11.2	11.3	14.3	0.7	1.8	3.2	3.1	102.81	95.33	97.3	94.3	100.5	90.0	143	481
Feb.	18.5	17.5	3.83	3.58	10.7	11.4	11.8	13.0	0.9	2.3	3.7	3.4	102.18	96.91	96.3	93.6	99.0	91.0	63	185
Mar.-July	19.1	17.8	3.90	3.64	10.8	11.4	10.4	12.1	1.4	4.0	3.0	3.9	105.07	98.69	95.5	87.6	100.5	86.5	73	146
Season	19.4	18.7	3.97	3.79	10.3	10.6	9.9	11.7	0.6	0.7	1.0	1.2	105.92	102.58	99.2	98.6	105.5	101.5	6,663	8,057

TEXAS

Aug.	17.8	17.0	4.04	4.08	11.4	11.5	9.5	10.0	0.7	0.5	0.6	0.7	99.85	96.25	99.8	99.7	99.5	98.0	1,364	2,802
Sept.	17.1	16.7	4.12	4.12	11.7	11.1	8.3	9.3	0.6	0.7	1.0	1.1	97.57	97.10	99.5	99.4	97.5	97.0	851	1,752
Oct.	18.5	18.2	4.12	4.15	10.7	10.3	7.5	8.8	0.6	0.8	0.9	1.0	103.91	102.49	99.6	99.2	103.5	102.0	2,646	2,331
Nov.	18.7	18.8	4.14	4.10	9.8	10.0	7.8	7.9	0.5	0.6	1.2	1.2	103.39	103.98	99.6	99.4	103.0	103.5	3,800	3,166
Dec.	18.3	18.7	4.13	4.07	9.1	9.4	7.5	8.0	0.5	0.6	2.0	1.7	100.87	102.55	99.0	99.1	100.0	102.0	6,220	8,187
Jan.	18.1	18.3	4.06	4.04	9.5	9.3	7.8	8.1	0.7	0.8	2.7	2.6	100.12	100.38	98.2	98.1	98.5	98.5	2,629	2,017
Feb.	18.2	18.0	4.01	4.04	10.3	10.1	7.6	8.5	1.1	1.4	4.7	3.6	101.45	100.09	95.0	95.7	97.0	96.0	220	223
Mar.-July	18.5	18.0	3.96	4.01	10.5	10.1	7.9	8.6	1.2	1.8	4.6	4.5	102.53	100.45	94.9	93.9	97.5	93.5	113	46
Season	18.3	18.2	4.11	4.08	9.9	10.0	7.8	8.5	0.6	0.6	1.7	1.5	101.53	101.47	99.1	99.1	101.0	101.0	17,843	20,524

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1963 and 1964

ALABAMA

Dist. No.	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1963	1964	1963	1964	No.	No.
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964						
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
1	19.4	19.0	3.77	3.80	11.1	11.0	9.7	10.8	0.6	0.8	0.7	1.0	105.78	104.42	99.6	99.4	105.5	104.0	541	617		
2	19.4	18.8	3.94	3.89	10.8	10.8	9.4	10.7	0.5	0.8	0.7	0.8	106.24	103.99	99.6	99.4	106.0	103.5	2,777	3,288		
3	19.1	18.4	4.04	3.86	10.6	10.9	9.2	11.1	0.5	0.7	0.7	1.0	105.72	102.01	99.8	99.4	105.5	101.5	396	644		
4	19.1	19.1	3.71	3.75	11.9	11.4	9.8	10.6	0.6	1.7	0.5	0.5	104.71	104.91	99.7	97.3	104.5	102.0	399	404		
5	18.7	18.8	3.93	3.83	12.4	12.0	9.6	10.8	0.9	1.9	0.5	0.6	104.96	104.78	99.9	95.5	105.0	100.0	235	47		
6	19.2	19.0	3.84	3.73	11.0	11.1	10.4	11.1	0.5	0.9	0.5	0.7	105.05	104.11	99.7	98.6	105.0	103.0	59	55		
7	18.7	19.4	3.82	3.54	12.4	12.0	10.4	11.7	0.6	2.5	0.2	0.2	104.56	105.62	99.7	94.8	104.0	99.0	31	29		
8	18.7	19.7	3.96	3.62	12.4	10.5	11.5	12.6	1.1	0.6	0.4	0.9	104.90	104.50	99.0	99.5	104.0	104.5	12	1		
9	-	19.0	-	3.58	-	13.2	-	10.1	-	4.9	-	0.9	-	104.88	-	87.0	-	91.5	-	-	4	
State	19.3	18.8	3.91	3.86	11.0	10.9	9.5	10.8	0.6	0.9	0.6	0.8	105.90	103.89	99.7	99.2	105.5	103.0	4,450	5,089		

ARIZONA

5	18.6	18.7	4.18	4.08	10.2	10.4	8.3	9.0	1.4	1.3	1.6	2.3	104.18	104.26	97.6	96.8	102.0	101.0	2,080	2,060
7	18.9	19.1	4.10	4.04	10.1	10.2	8.5	8.8	1.5	1.8	1.4	1.9	104.71	105.52	97.9	96.3	102.5	102.0	309	281
9	18.7	19.3	4.00	4.09	12.1	11.2	7.8	8.0	0.9	0.7	2.1	1.1	105.54	107.37	97.9	99.0	103.5	106.5	284	540
State	18.7	18.8	4.15	4.06	10.4	10.6	8.3	8.8	1.4	1.2	1.6	2.1	104.39	104.97	97.6	97.2	102.0	102.5	2,673	2,861

ARKANSAS

2	19.2	19.2	4.18	4.13	8.7	8.6	9.4	11.4	0.6	0.6	1.0	0.9	104.10	103.92	99.6	99.8	104.0	104.0	33	26
3	18.7	18.3	4.13	4.00	9.8	10.2	10.2	12.1	0.6	0.8	0.8	1.0	103.12	101.53	99.1	98.5	102.5	100.0	6,940	6,955
4	19.2	18.0	4.15	4.15	10.2	10.0	8.7	11.0	0.6	1.0	1.0	1.1	106.10	101.04	99.6	98.8	106.0	100.0	181	104
5	19.4	18.6	4.09	4.09	10.2	10.3	9.0	11.0	0.7	0.6	1.2	1.1	106.77	103.65	99.5	99.4	106.5	103.0	556	331
6	19.1	18.5	4.08	3.98	10.0	10.3	9.5	11.6	0.6	0.7	0.9	0.9	105.14	102.56	99.4	98.8	104.5	101.5	6,656	7,297
7	18.9	17.9	4.08	4.15	10.2	10.2	9.1	11.3	0.7	2.3	1.0	1.0	104.68	101.29	99.7	95.9	104.5	97.0	407	304
8	19.3	18.3	3.95	4.17	10.4	9.7	9.7	11.9	0.8	1.4	1.0	1.1	105.43	102.37	99.5	98.0	105.0	100.5	257	186
9	19.4	18.3	4.06	4.06	10.2	10.5	9.3	11.0	0.7	0.7	1.0	0.9	106.61	102.55	99.5	99.5	106.5	102.0	2,889	2,835
State	19.0	18.4	4.10	4.01	10.0	10.3	9.7	11.7	0.6	0.8	0.9	0.9	104.65	102.15	99.3	98.7	104.0	101.0	17,919	18,038

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1963 and 1964 (Continued)

LOUISIANA

Dist. No.	Cottonseed analysis												Average index				Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Average grade		No.	
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964
1	18.3	17.7	4.29	4.25	9.9	9.4	9.0	11.3	0.9	2.2	0.4	0.4	102.87	100.08	99.8	97.1	103.0	97.5	877	734
2	18.2	17.4	4.15	4.16	10.0	9.8	10.2	11.8	1.4	1.8	0.8	0.8	101.87	98.60	99.2	97.7	101.0	96.5	290	281
3	18.5	18.1	4.08	4.01	10.0	10.1	9.9	11.2	1.0	1.4	0.7	0.7	102.62	100.71	99.5	98.4	102.5	99.5	3,444	3,378
4	17.9	17.7	4.18	4.25	10.3	9.6	9.4	10.8	0.9	2.3	0.7	0.5	100.82	100.38	99.6	97.3	100.5	98.0	287	295
5	18.2	18.1	3.91	3.78	10.5	10.4	11.4	12.8	1.8	4.1	0.7	0.7	100.66	99.93	97.3	89.2	98.0	89.0	1,623	1,481
6	17.1	18.0	3.73	3.60	11.0	11.5	13.3	12.7	1.6	2.6	0.6	0.5	95.71	99.41	97.4	94.0	93.5	93.5	70	96
7	17.9	18.0	3.61	3.61	10.5	10.2	14.2	15.4	3.6	5.7	0.7	0.5	97.45	98.22	89.9	80.7	87.0	78.0	137	106
8	18.1	18.0	3.68	3.69	10.6	10.6	13.7	14.0	3.0	5.9	0.7	0.7	98.94	99.21	92.8	81.7	92.0	80.0	83	79
State	18.4	18.0	4.05	3.98	10.1	10.0	10.3	11.7	1.3	2.3	0.7	0.7	101.86	100.28	98.7	95.5	100.5	96.0	6,811	6,450

MISSISSIPPI

1	18.4	18.0	4.08	4.06	10.7	10.6	9.4	11.1	0.6	0.7	0.9	0.9	103.16	101.42	99.5	99.0	103.0	100.5	5,603	6,147
2	19.3	18.6	3.85	3.80	10.6	10.6	9.6	11.3	0.6	0.6	0.9	1.2	105.11	102.23	99.4	99.0	104.5	101.5	2,638	3,055
3	19.8	19.1	3.64	3.71	10.8	10.6	10.1	11.1	0.6	0.7	0.9	1.1	106.29	103.92	99.3	99.0	105.5	103.0	1,386	1,594
4	18.4	18.0	4.12	4.07	10.7	10.5	9.6	10.9	0.6	0.8	0.8	0.8	103.12	101.27	99.6	99.2	103.0	100.5	6,603	6,786
5	18.6	18.8	4.03	3.87	10.8	10.3	9.8	11.0	0.8	1.1	0.6	0.7	103.56	103.19	99.5	98.8	103.5	102.0	2,122	2,249
6	19.2	18.8	3.73	3.77	11.2	10.4	10.0	11.0	0.7	1.2	0.6	0.7	104.50	102.83	99.6	98.6	104.5	101.5	1,099	1,261
7	18.5	18.6	4.02	3.78	10.6	10.5	10.0	11.5	0.9	2.7	0.7	0.8	102.74	102.20	99.3	94.0	102.5	96.5	723	799
8	18.0	19.0	4.06	3.64	11.3	11.2	10.1	11.4	0.8	3.2	0.7	0.8	101.43	103.59	99.7	91.8	101.5	95.0	697	837
9	18.1	19.1	4.01	3.67	11.9	11.9	10.5	11.2	0.7	2.4	0.5	0.4	102.26	104.81	99.5	95.0	102.0	99.5	252	286
State	18.7	18.3	4.01	3.94	10.8	10.6	9.7	11.1	0.6	1.0	0.8	0.9	103.62	102.06	99.5	98.5	103.5	100.5	21,123	23,014

NEW MEXICO

3	18.1	18.4	4.16	3.95	7.2	8.0	7.2	7.7	0.5	0.5	2.1	1.9	97.11	98.44	98.9	98.9	96.0	97.5	95	85
7	19.8	20.5	3.73	3.77	11.7	11.9	8.7	8.1	0.5	0.4	2.7	0.5	108.24	111.56	98.2	99.9	106.5	112.0	64	95
9	19.2	19.7	3.94	3.91	10.4	10.6	7.8	7.7	0.5	0.5	1.7	1.6	105.04	107.69	99.1	99.1	104.0	107.0	358	386
State	19.0	19.7	3.95	3.89	10.0	10.5	7.8	7.8	0.5	0.5	1.9	1.5	103.98	106.95	98.9	99.2	103.0	106.5	517	566

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1963 and 1964 (Continued)

OKLAHOMA

Dist. No.	Cottonseed analysis														Average index				Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Average grade		No.	
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964
3	18.6	18.5	4.17	4.17	9.3	9.2	8.4	10.3	0.5	0.6	1.7	1.7	102.76	102.08	99.3	99.3	102.0	101.5	18	18
4	17.8	17.9	4.21	4.15	11.1	10.6	8.5	10.2	0.6	1.1	1.5	1.6	101.95	101.65	99.1	99.2	101.5	101.0	455	445
5	17.2	17.6	4.22	4.20	11.0	10.2	8.3	10.9	0.6	1.1	1.3	1.3	99.38	100.17	99.4	99.4	99.0	100.0	166	154
6	18.2	18.3	4.11	4.10	9.8	9.0	8.4	11.0	0.5	1.1	1.6	1.5	101.42	100.70	99.3	98.7	101.0	100.0	94	78
7	17.8	17.7	4.13	4.09	11.3	10.9	8.4	10.1	0.6	1.1	1.3	1.4	101.48	100.73	99.4	99.3	101.0	100.5	1,423	1,333
8	17.2	17.6	4.24	4.24	11.3	9.7	7.5	10.2	0.5	1.4	1.2	1.3	99.21	99.81	99.6	99.0	99.0	99.0	103	99
9	-	17.7	-	3.92	-	10.0	-	11.6	-	1.9	-	1.7	-	98.38	-	98.0	-	96.0	-	2
State	17.7	17.8	4.16	4.12	11.1	10.6	8.4	10.3	0.6	1.1	1.4	1.4	101.32	100.85	99.3	99.3	101.0	100.5	2,259	2,129

TENNESSEE

1	19.0	18.5	4.02	3.86	10.2	10.6	10.1	11.8	0.6	0.7	1.0	1.1	104.33	101.99	99.1	98.7	103.5	101.0	2,327	2,930
2	19.5	18.9	3.95	3.74	10.4	10.6	9.8	11.7	0.6	0.7	1.1	1.3	106.64	103.13	99.2	98.5	106.0	102.0	3,816	4,566
3	19.9	18.5	3.90	3.76	10.1	10.7	9.7	11.6	0.5	0.8	0.8	1.2	107.67	101.43	99.6	98.7	107.5	100.5	237	299
4	19.9	18.3	3.84	3.82	10.3	10.7	9.6	11.6	0.5	0.8	0.7	0.9	107.91	101.22	99.7	99.3	108.0	100.5	235	212
5	19.7	18.1	3.86	3.67	11.0	11.8	9.0	11.6	0.5	1.0	0.8	1.3	107.51	100.39	99.8	98.9	107.5	99.5	46	50
6	20.5	-	3.85	-	9.5	-	10.1	-	0.7	-	0.5	-	110.63	-	100.0	-	110.5	-	2	-
State	19.4	18.7	3.97	3.79	10.3	10.6	9.9	11.7	0.6	0.7	1.0	1.2	105.92	102.58	99.2	98.6	105.5	101.5	6,663	8,057

TEXAS

1	18.4	18.8	4.13	4.07	9.1	9.3	7.6	7.9	0.5	0.5	1.8	1.6	101.23	102.88	99.1	99.2	100.5	102.5	11,203	11,338
2	17.9	17.9	4.19	4.17	10.5	10.1	7.7	8.7	0.6	0.7	1.2	1.4	101.24	101.03	99.6	99.4	101.0	100.5	3,103	2,858
3	17.1	17.4	4.23	4.10	11.5	10.4	7.8	9.3	0.6	1.1	0.7	1.2	99.38	99.12	99.9	99.5	99.5	99.0	81	67
4	16.8	15.7	4.13	4.21	12.3	11.5	7.3	8.4	0.4	1.0	1.3	1.4	97.07	93.78	99.5	98.6	97.0	92.5	369	1,308
5	18.5	17.8	4.19	4.14	10.0	10.2	8.7	10.5	0.8	1.2	0.7	0.8	102.59	100.30	99.7	98.9	102.5	99.5	102	415
6	19.2	19.2	3.91	3.94	11.9	11.5	7.9	7.8	0.6	0.8	2.8	3.1	106.65	106.55	97.8	97.3	104.5	104.0	1,597	1,095
7	17.1	16.7	4.25	4.17	11.3	10.9	7.6	8.9	0.6	1.5	1.1	1.3	99.18	97.33	99.7	98.6	99.5	96.0	64	63
8	16.8	16.5	4.05	4.12	11.4	11.4	9.6	10.1	0.6	0.6	0.7	0.9	95.74	96.44	99.9	99.7	96.0	96.5	416	846
9	18.3	17.6	4.04	3.94	10.4	10.4	10.2	11.8	1.1	1.0	0.7	0.8	101.44	98.68	98.8	98.5	99.5	97.5	294	1,046
10	18.2	17.2	3.98	4.09	11.8	12.1	9.6	9.2	0.8	0.5	0.5	0.7	102.08	99.98	99.9	99.6	102.0	100.0	614	1,488
State	18.3	18.2	4.11	4.08	9.9	10.0	7.8	8.5	0.6	0.6	1.7	1.5	101.53	101.47	99.1	99.1	101.0	101.0	17,843	20,524

Table 6. Percentage distribution of quantity index by specified frequencies, by States and United States, 1963 and 1964

State	Quantity Index																						
	Under 65		65-69		70-74		75-79		80-84		85-89		90-94		95-99		100-104		105 and over		Total		
	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ark.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Calif.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miss.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N. Mex.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Okla.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tex.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
All other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

* Less than 0.05 percent.

Table 7. Percentage distribution of quality index by specified frequencies, by States and United States, 1963 and 1964

State	Quality Index																								
	Below grade		Below prime quality												Prime quality 100										
	1963 Pct.	1964 Pct.	40.0-49.9	50.0-59.9	60.0-69.9	70.0-79.9	80.0-84.9	85.0-89.9	90.0-94.9	95.0-99.9	100.0	100.1	100.2	100.3	100.4	100.5	100.6	100.7	100.8	100.9	101.0	101.1	101.2	101.3	101.4
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calif.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miss.	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N. Mex.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

* Less than 0.05 percent.

Table 8. Percentage distribution of grades by specified frequencies, by States and United States, 1963 and 1964

State	Grade																		Total			
	Below grade 00.0-39.9		40.0-74.9		75.0-79.9		80.0-84.9		85.0-89.9		90.0-94.9		95.0-99.9		100.0		105.0		110.0 and over			
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964		
Ala.	-	-	0.1	0.3	0.1	0.2	0.1	0.5	0.3	1.2	1.0	2.9	5.4	12.9	28.9	45.9	54.6	30.0	9.5	6.1	100.0	100.0
Ariz.	-	-	0.6	2.2	0.7	1.5	2.0	2.3	3.6	3.8	6.1	5.6	13.7	9.7	28.1	18.4	41.6	50.1	3.6	6.4	100.0	100.0
Ark.	*	*	0.4	0.6	0.2	0.5	0.3	1.2	0.9	2.9	4.6	7.7	13.4	19.0	27.2	41.8	42.7	23.3	10.3	3.0	100.0	100.0
Calif.	-	-	4.8	0.2	4.6	0.4	6.5	0.8	6.2	5.3	10.6	8.1	14.5	13.0	23.5	19.5	28.4	48.8	0.9	3.9	100.0	100.0
Ky.	-	-	-	1.5	-	-	1.3	1.5	-	2.9	3.9	2.9	7.7	14.7	29.4	50.0	50.0	26.5	7.7	-	100.0	100.0
La.	*	*	0.3	4.6	0.5	3.1	1.3	4.9	2.7	6.6	6.8	12.0	22.0	23.0	46.3	36.2	19.3	9.2	0.8	0.4	100.0	100.0
Miss.	* 0.1	0.1	0.9	0.1	0.6	0.1	1.1	1.1	0.6	3.2	3.4	7.7	13.7	16.9	42.8	46.0	36.7	22.6	2.5	0.9	100.0	100.0
Mo.	-	-	0.3	1.4	0.3	1.0	1.1	1.2	3.3	2.0	7.1	4.7	11.0	24.2	28.7	45.3	40.3	19.0	7.9	1.2	100.0	100.0
N. Mex.	-	-	-	-	-	-	0.2	0.5	1.5	1.6	10.9	3.7	24.4	12.0	21.3	20.5	22.8	22.6	18.9	39.1	100.0	100.0
Okla.	-	-	0.1	0.1	*	-	0.3	0.1	1.3	0.5	6.9	6.0	32.3	36.4	39.1	48.4	18.3	8.3	1.7	0.2	100.0	100.0
Tenn.	-	-	0.2	0.4	*	0.5	0.3	1.4	1.1	3.9	4.0	7.7	10.3	14.2	20.0	41.5	48.3	28.9	15.8	1.5	100.0	100.0
Tex.	*	*	0.1	0.3	0.1	0.2	0.3	0.4	1.1	1.4	8.3	10.1	29.0	25.9	42.6	40.6	16.7	19.6	1.8	1.5	100.0	100.0
All other	-	-	-	-	-	1.6	-	-	2.1	6.5	2.1	3.2	12.7	17.7	31.9	25.8	38.4	42.0	12.8	3.2	100.0	100.0
Total	*	*	0.3	0.9	0.2	0.7	0.5	1.2	1.3	2.8	5.3	8.0	17.1	19.8	35.7	41.7	33.9	22.7	5.7	2.2	100.0	100.0

* Less than 0.05 percent.

Table 9. Percentage distribution of oil by specified frequencies, by States and United States, 1963 and 1964

State	Oil																		Total						
	Under 15.0		15.0-15.9		16.0-16.4		16.5-16.9		17.0-17.4		17.5-17.9		18.0-18.4		18.5-18.9		19.0-19.9		20.0-20.9		21.0 and over				
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964			
Ala.	*	-	0.1	-	0.3	0.1	1.3	0.7	3.7	2.6	9.9	9.0	19.2	21.0	22.6	48.1	32.3	17.2	10.0	1.3	0.6	100.0	100.0		
Ariz.	*	0.2	0.1	0.7	0.6	2.4	2.6	5.6	5.4	11.8	9.2	16.9	12.0	21.5	16.9	37.0	46.4	3.3	6.2	0.6	0.6	100.0	100.0		
Ark.	0.3	0.4	0.3	1.7	0.5	2.9	1.6	5.4	4.3	8.6	8.1	13.8	12.2	17.6	17.2	19.5	39.0	23.7	13.5	5.5	3.0	0.9	100.0		
Calif.	-	-	0.4	-	1.1	-	4.6	0.4	8.6	5.1	10.2	11.6	7.9	10.8	13.9	12.2	51.5	52.2	1.8	7.7	-	-	100.0	100.0	
Ky.	-	-	1.3	1.5	-	5.9	1.3	7.4	1.3	7.4	5.1	8.8	7.7	16.2	12.8	14.7	32.1	38.1	33.3	-	5.1	-	100.0	100.0	
La.	* 1.2	0.6	3.1	1.2	4.1	3.7	6.7	7.6	11.7	14.2	17.3	24.6	21.3	25.4	17.8	20.7	15.3	1.9	1.4	0.1	0.1	100.0	100.0		
Miss.	* 0.5	0.2	2.4	0.5	2.9	1.7	4.5	5.6	7.8	12.2	13.2	20.7	18.5	23.4	20.4	28.0	25.0	7.3	4.6	0.4	0.2	100.0	100.0		
Mo.	* 0.4	0.6	1.5	1.5	1.8	2.8	5.0	5.8	10.3	8.8	16.7	12.9	21.0	16.9	18.0	33.3	20.5	14.9	4.4	2.5	0.4	100.0	100.0		
N. Mex.	-	0.2	0.6	0.7	0.6	1.2	3.1	0.2	5.4	1.2	11.0	3.0	14.9	8.8	14.5	13.8	22.1	23.0	19.3	33.8	8.5	14.1	100.0	100.0	
Okla.	0.5	0.2	4.4	1.8	7.3	4.5	13.1	10.6	16.5	17.2	16.8	22.3	14.6	21.7	11.2	13.0	13.0	8.0	2.3	0.6	0.3	0.1	100.0	100.0	
Tenn.	-	0.1	0.1	0.7	0.4	1.5	0.8	3.8	3.0	6.3	5.6	10.1	8.3	13.8	11.9	19.0	40.5	36.2	27.0	8.2	2.4	0.3	100.0	100.0	
Tex.	0.3	1.0	2.0	6.4	2.9	4.8	4.0	5.4	6.2	6.3	13.8	8.3	24.8	14.6	24.3	22.7	18.6	27.2	2.5	2.8	0.6	0.5	100.0	100.0	
All other	-	-	-	-	-	-	1.6	-	1.6	-	1.6	8.5	3.2	21.3	4.8	12.8	17.7	34.0	51.7	14.9	17.8	8.5	1.6	100.0	100.0
Total	0.2	0.5	0.8	2.8	1.3	3.0	2.6	4.9	5.5	7.8	10.7	12.2	17.6	17.2	20.4	20.0	30.1	26.2	9.5	4.9	1.3	0.5	100.0	100.0	

* Less than 0.05 percent.

Table 10. Percentage distribution of ammonia by specified frequencies, by States and United States, 1963 and 1964

State	Ammonia																Total				
	Under 2.95		2.95-3.09		3.10-3.24		3.25-3.39		3.40-3.54		3.55-3.69		3.70-3.84		3.85-3.99			4.00-4.14 and over			
	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.		1963 Pct.	1964 Pct.		
Ala.	*	0.1	-	0.7	0.1	1.8	0.5	4.5	2.6	9.7	11.7	17.9	29.5	27.5	35.6	25.5	15.6	12.3	4.4	100.0	100.0
Ariz.	-	-	-	-	*	-	0.1	-	*	0.5	1.2	3.8	6.4	10.7	19.0	29.7	36.2	55.3	35.1	100.0	100.0
Ark.	-	*	*	*	*	0.1	0.3	1.3	1.3	1.3	5.2	5.7	13.2	18.9	24.0	34.4	31.5	39.4	24.7	100.0	100.0
Calif.	-	-	-	-	-	-	-	-	-	0.2	0.4	0.4	1.4	3.9	6.7	24.3	32.3	71.2	59.2	100.0	100.0
Ky.	-	-	-	-	-	-	-	5.1	-	10.3	-	39.7	14.7	35.9	33.8	7.7	38.3	1.3	13.2	100.0	100.0
La.	-	*	*	0.2	0.2	0.6	1.1	2.2	4.3	5.2	10.1	8.7	14.5	19.1	17.9	26.7	50.8	37.3	1.1	100.0	100.0
Miss.	-	0.1	*	0.4	0.1	1.2	0.6	2.4	3.2	5.9	11.9	11.4	18.4	18.9	20.8	29.7	25.7	30.0	19.3	100.0	100.0
Mo.	-	-	-	0.1	*	0.1	0.3	0.9	1.9	4.7	4.8	16.7	10.6	24.2	24.8	29.6	32.7	23.7	24.9	100.0	100.0
N. Mex.	-	-	-	-	-	0.2	1.2	1.2	1.2	12.4	8.5	24.2	30.7	13.5	31.9	26.7	21.0	22.0	6.5	100.0	100.0
Okla.	-	-	-	-	-	-	*	0.1	0.1	0.8	1.1	2.9	4.1	12.4	14.0	27.0	35.3	56.8	45.4	100.0	100.0
Tenn.	-	*	*	0.1	0.1	1.5	1.3	9.1	5.8	21.1	16.3	29.7	29.2	25.6	31.6	10.7	15.7	2.2	100.0	100.0	100.0
Tex.	-	*	*	*	*	*	*	0.2	0.2	1.1	1.0	5.0	5.4	15.3	21.1	34.7	37.7	43.7	34.6	100.0	100.0
All other	-	-	-	-	2.1	-	-	36.2	1.6	21.3	6.5	25.5	30.6	8.5	51.6	4.3	9.7	2.1	-	100.0	100.0
Total	*	*	*	0.2	0.1	0.5	0.4	1.3	2.4	3.7	7.8	9.3	14.7	19.2	22.5	31.2	28.3	34.6	23.8	100.0	100.0

* Less than 0.05 percent.

Table 11. Percentage distribution of linters by specified frequencies, by States and United States, 1963 and 1964

State	Linters																Total			
	Under 7.0		7.0-8.9		9.0-9.9		10.0-10.9		11.0-11.9		12.0-12.9		13.0-13.9		14.0-15.9			16.0 and over		
	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.	1963 Pct.	1964 Pct.		1963 Pct.	1964 Pct.	
Ala.	-	-	0.9	0.6	11.8	10.4	38.3	43.0	31.9	35.4	13.5	9.4	3.5	1.2	0.1	*	-	-	100.0	100.0
Ariz.	0.1	*	4.3	0.9	30.0	20.4	44.5	53.3	12.6	18.7	6.1	5.2	2.3	1.2	0.1	0.3	-	-	100.0	100.0
Ark.	0.1	0.1	0.9	13.3	50.2	27.6	36.3	31.2	10.4	19.1	1.9	6.6	0.2	1.9	*	0.2	-	-	100.0	100.0
Calif.	-	-	9.4	3.4	54.1	48.4	28.7	44.2	7.1	3.6	0.7	0.4	-	-	-	-	-	-	100.0	100.0
Ky.	-	-	-	1.5	26.9	27.9	52.6	45.7	17.9	17.6	2.6	4.4	-	2.9	-	-	-	-	100.0	100.0
La.	*	*	6.3	15.6	37.3	33.3	39.3	31.2	15.2	15.6	1.8	3.7	0.1	0.5	*	0.1	-	*	100.0	100.0
Miss.	*	-	1.1	2.3	13.5	22.5	47.2	44.0	30.5	24.9	6.8	5.5	0.8	0.7	0.1	0.1	-	-	100.0	100.0
Mo.	0.2	*	10.4	13.4	32.8	29.3	34.1	29.3	16.5	19.0	4.9	7.8	1.1	1.1	-	0.1	-	-	100.0	100.0
N. Mex.	12.2	4.4	20.7	17.2	14.5	12.0	11.2	20.8	22.2	24.8	15.1	16.4	3.7	4.2	0.4	0.2	-	-	100.0	100.0
Okla.	-	0.4	4.1	8.8	12.0	17.8	26.8	30.6	31.5	27.9	19.7	13.2	5.3	1.2	0.6	0.1	-	-	100.0	100.0
Tenn.	-	-	2.8	3.0	29.7	21.0	49.4	38.9	16.9	30.7	1.2	6.2	*	0.2	-	-	-	-	100.0	100.0
Tex.	7.5	5.0	25.9	24.9	17.8	15.3	18.3	19.5	15.3	21.7	10.9	10.6	3.6	2.7	0.7	0.3	*	-	100.0	100.0
All other	-	-	-	9.7	10.6	16.1	17.0	8.1	19.1	12.9	14.9	22.6	27.8	25.8	10.6	4.8	-	-	100.0	100.0
Total	1.7	1.2	9.9	11.2	24.7	22.1	36.2	33.7	19.4	23.0	6.4	7.3	1.5	1.4	0.2	0.1	*	*	100.0	100.0

* Less than 0.05 percent.

Table 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by States and United States, 1963

State	Moisture														Total
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0 - 5.0	5.1 - 7.0	7.1 - 9.0	9.1 - 10.0	10.1 - 11.0	11.1 - 12.0	12.1 - 14.0	14.1 - 16.0	16.1 - 18.0	18.1 - 20.0	20.1 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	90.2	9.8	*	-	2.5	45.4	21.0	13.3	8.0	7.4	1.9	0.4	0.1	*	100.0
Ariz.	98.6	1.4	-	0.1	23.1	51.0	15.4	6.9	2.1	1.3	0.1	-	*	-	100.0
Ark.	84.1	15.9	*	-	1.5	49.0	16.5	9.4	7.7	10.6	4.4	0.8	0.1	*	100.0
Calif.	99.1	0.9	-	0.7	17.1	70.4	6.3	3.0	1.6	0.4	0.5	-	-	-	100.0
Ky.	89.7	10.3	-	-	-	42.3	23.1	17.9	6.4	5.1	2.6	2.6	-	-	100.0
La.	82.2	17.4	0.4	-	0.8	33.2	21.9	15.2	11.1	11.2	3.8	1.4	1.0	0.4	100.0
Miss.	85.8	14.2	*	-	1.7	47.0	17.7	11.8	7.6	9.9	3.6	0.6	0.1	*	100.0
Mo.	79.5	20.3	0.2	-	0.2	31.1	22.2	16.0	10.0	9.9	5.4	3.7	1.3	0.2	100.0
N. Mex.	99.8	0.2	-	-	26.5	61.8	8.1	1.9	1.5	0.2	-	-	-	-	100.0
Okla.	99.1	0.9	-	-	13.0	61.6	17.4	5.3	1.8	0.7	*	0.2	-	-	100.0
Tenn.	83.4	16.6	*	-	2.1	43.1	18.2	12.1	7.9	9.3	5.7	1.4	0.2	*	100.0
Tex.	99.4	0.6	-	*	22.5	66.5	7.1	2.4	0.9	0.6	*	*	*	-	100.0
All other	91.5	8.5	-	-	29.7	23.4	12.8	19.2	6.4	6.4	2.1	-	-	-	100.0
Total	88.5	11.4	0.1	*	7.2	49.6	15.9	9.5	6.3	7.4	3.0	0.8	0.2	0.1	100.0

* Less than 0.05 percent.

Table 13. Percentage distribution of moisture in cottonseed samples by specified frequencies, by States and United States, 1964

State	Moisture														Total
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0 - 5.0	5.1 - 7.0	7.1 - 9.0	9.1 - 10.0	10.1 - 11.0	11.1 - 12.0	12.1 - 14.0	14.1 - 16.0	16.1 - 18.0	18.1 - 20.0	20.1 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	83.6	16.4	*	*	0.1	11.4	18.4	30.3	23.4	13.5	2.3	0.5	0.1	*	100.0
Ariz.	95.7	4.3	*	-	6.0	63.7	13.6	8.7	3.7	3.3	0.8	0.2	-	*	100.0
Ark.	65.3	34.6	0.1	-	-	2.4	14.8	25.8	22.3	23.2	9.6	1.6	0.2	0.1	100.0
Calif.	99.0	1.0	-	-	3.0	88.3	5.7	0.8	1.2	1.0	-	-	-	-	100.0
Ky.	79.3	20.7	-	-	-	8.8	23.5	26.4	20.6	17.7	3.0	-	-	-	100.0
La.	65.5	33.4	1.1	-	-	6.1	14.7	22.3	22.4	23.6	6.5	2.0	1.3	1.1	100.0
Miss.	77.0	22.9	0.1	-	*	8.7	20.8	28.1	19.4	16.3	5.0	1.3	0.3	0.1	100.0
Mo.	61.1	38.8	0.1	-	-	3.1	14.4	21.4	22.2	25.5	10.3	2.4	0.6	0.1	100.0
N. Mex.	99.8	0.2	-	-	18.6	72.5	6.5	1.8	0.4	0.2	-	-	-	-	100.0
Okla.	94.1	5.9	-	-	*	11.1	34.6	35.5	12.9	5.1	0.8	*	-	-	100.0
Tenn.	65.2	34.8	*	-	-	2.0	16.0	27.8	19.4	21.5	11.7	1.4	0.2	*	100.0
Tex.	96.6	3.4	*	*	11.0	64.0	12.0	5.9	3.7	2.8	0.5	0.1	*	*	100.0
All other	93.5	6.5	-	-	-	14.5	40.3	25.8	12.9	6.5	-	-	-	-	100.0
Total	78.1	21.8	0.1	*	2.8	21.5	16.3	21.3	16.2	15.0	5.5	1.1	0.2	0.1	100.0

* Less than 0.05 percent.

Table 14. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by States and United States, 1963

State	Free fatty acids														Total
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0	0.5	1.0	1.5	1.9	3.0	5.0	7.0	9.0	11.0	12.5 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	99.2	0.8	*	54.3	38.4	5.2	1.3	0.5	0.3	*	*	*	-	*	100.0
Ariz.	77.0	23.0	-	23.0	35.2	11.8	7.0	11.8	8.4	2.1	0.5	0.2	-	-	100.0
Ark.	98.5	1.4	0.1	35.2	56.6	5.8	0.9	0.6	0.5	0.2	0.1	*	*	0.1	100.0
Calif.	32.6	67.0	0.4	0.9	12.7	8.8	10.2	23.5	24.3	12.2	4.9	1.6	0.5	0.4	100.0
Ky.	97.4	2.6	-	71.8	23.0	2.6	-	1.3	1.3	-	-	-	-	-	100.0
La.	83.4	16.6	*	5.9	39.3	27.0	11.2	10.8	4.5	1.0	0.2	0.1	-	*	100.0
Miss.	98.7	1.2	0.1	33.9	55.5	8.0	1.3	0.7	0.3	0.1	0.1	*	*	0.1	100.0
Mo.	97.4	2.6	*	48.2	41.9	5.9	1.4	1.2	0.9	0.3	0.1	0.1	*	*	100.0
N. Mex.	100.0	-	-	56.3	41.4	2.1	0.2	-	-	-	-	-	-	-	100.0
Okla.	99.4	0.6	-	34.9	58.1	5.6	0.8	0.3	0.3	-	*	*	-	-	100.0
Tenn.	99.1	0.9	*	47.1	47.3	3.9	0.8	0.5	0.2	0.1	*	0.1	*	*	100.0
Tex.	99.3	0.7	*	40.8	54.4	3.4	0.7	0.5	0.1	0.1	*	*	-	*	100.0
All other	93.7	6.3	-	42.6	31.9	12.8	6.4	2.1	2.1	-	2.1	-	-	-	100.0
Total	96.6	3.4	*	36.0	50.9	7.6	2.1	1.9	1.0	0.3	0.1	0.1	*	*	100.0

* Less than 0.05 percent.

Table 15. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by States and United States, 1964

State	Free fatty acids														Total
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0	0.5	1.0	1.5	1.9	3.0	5.0	7.0	9.0	11.0	12.5 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	94.3	5.6	0.1	19.7	54.9	16.0	3.7	2.9	1.6	0.6	0.3	0.2	-	0.1	100.0
Ariz.	82.4	17.5	0.1	31.5	34.9	11.1	4.9	8.0	6.3	2.0	1.0	0.2	*	0.1	100.0
Ark.	94.2	5.8	*	31.7	52.3	7.7	2.5	2.9	2.1	0.5	0.2	0.1	*	*	100.0
Calif.	67.0	33.0	-	14.4	25.6	15.2	11.8	16.0	13.8	3.0	0.2	-	-	-	100.0
Ky.	95.5	4.5	-	33.8	58.7	3.0	-	3.0	-	1.5	-	-	-	-	100.0
La.	56.6	42.9	0.5	4.7	22.5	17.6	11.8	20.5	12.4	5.9	2.8	1.1	0.2	0.5	100.0
Miss.	91.0	8.8	0.2	34.0	42.1	11.1	3.8	3.9	2.7	1.2	0.6	0.3	0.1	0.2	100.0
Mo.	94.5	5.4	0.1	38.6	48.5	5.8	1.6	1.8	1.9	1.0	0.5	0.2	*	0.1	100.0
N. Mex.	100.0	-	-	-	62.8	37.0	0.2	-	-	-	-	-	-	-	100.0
Okla.	96.4	3.6	-	2.6	34.1	54.4	5.3	2.8	0.7	-	-	0.1	-	-	100.0
Tenn.	94.9	5.1	*	35.7	49.6	6.6	3.0	3.0	1.6	0.4	0.1	*	*	*	100.0
Tex.	97.5	2.5	*	43.9	45.2	6.6	1.8	1.5	0.6	0.2	0.1	0.1	*	*	100.0
All other	59.6	40.4	-	8.1	27.3	11.3	12.9	17.8	11.3	9.7	1.6	-	-	-	100.0
Total	91.0	8.9	0.1	32.4	44.6	10.4	3.6	4.3	2.7	1.1	0.5	0.2	0.1	0.1	100.0

* Less than 0.05 percent.

Table 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by States and United States, 1963

State	Foreign matter													Total
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0 - 0.5	0.6 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.5	5.6 - 7.0	7.1 - 8.5	8.6 - 10.0	10.1 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	85.8	14.2	*	59.0	26.8	11.1	2.2	0.7	0.2	*	*	*	*	100.0
Ariz.	57.7	41.7	0.6	35.9	21.8	15.8	10.1	6.0	5.3	3.4	0.7	0.4	0.6	100.0
Ark.	77.7	22.1	0.2	42.6	35.1	16.2	3.6	1.2	0.7	0.2	0.1	0.1	0.2	100.0
Calif.	58.2	40.6	1.2	22.9	35.3	22.2	8.1	5.1	3.0	1.1	0.9	0.2	1.2	100.0
Ky.	74.3	25.7	-	23.1	51.2	18.0	3.8	2.6	1.3	-	-	-	-	100.0
La.	87.8	12.2	*	53.5	34.3	10.0	1.4	0.4	0.2	0.1	0.1	*	*	100.0
Miss.	81.5	18.5	-	40.4	41.1	14.8	2.6	0.8	0.2	0.1	*	*	-	100.0
Mo.	74.1	25.7	0.2	46.4	27.7	16.1	4.4	2.3	1.7	0.7	0.3	0.2	0.2	100.0
N. Mex.	33.0	66.6	0.4	15.6	17.4	33.1	16.8	9.3	4.3	2.1	0.6	0.4	0.4	100.0
Okla.	51.7	48.0	0.3	18.9	32.8	33.4	8.5	2.6	1.8	0.8	0.7	0.2	0.3	100.0
Tenn.	72.5	27.3	0.2	35.6	36.9	18.3	5.0	2.0	1.1	0.5	0.3	0.1	0.2	100.0
Tex.	37.8	61.8	0.4	12.2	25.6	37.0	15.5	5.3	2.6	0.8	0.4	0.2	0.4	100.0
All other	40.4	59.6	-	14.9	25.5	29.8	12.8	12.8	2.1	2.1	-	-	-	100.0
Total	69.1	30.7	0.2	35.9	33.2	20.2	6.2	2.3	1.2	0.5	0.2	0.1	0.2	100.0

* Less than 0.05 percent.

Table 17. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by States and United States, 1964

State	Foreign matter													Total
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0 - 0.5	0.6 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.5	5.6 - 7.0	7.1 - 8.5	8.6 - 10.0	10.1 - over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	75.6	24.4	*	45.0	30.6	18.5	4.1	1.1	0.5	0.1	0.1	*	*	100.0
Ariz.	59.1	37.4	3.5	34.9	24.2	14.0	6.3	4.1	4.6	3.6	2.8	2.0	3.5	100.0
Ark.	78.1	21.8	0.1	33.1	45.0	14.5	4.2	1.7	0.9	0.3	0.1	0.1	0.1	100.0
Calif.	47.7	52.1	0.2	12.6	35.1	27.8	12.4	7.5	2.8	0.6	1.0	-	0.2	100.0
Ky.	60.2	39.8	-	17.6	42.6	28.0	4.4	1.5	5.9	-	-	-	-	100.0
La.	86.8	13.2	*	52.8	34.0	10.3	2.2	0.5	0.2	*	*	-	*	100.0
Miss.	77.9	22.1	*	36.6	41.3	16.4	3.8	1.1	0.5	0.2	0.1	*	*	100.0
Mo.	77.2	22.6	0.2	39.7	37.5	15.0	3.9	1.8	1.1	0.5	0.2	0.1	0.2	100.0
N. Mex.	51.3	48.3	0.4	29.2	22.1	27.2	11.5	4.6	2.3	0.9	0.7	1.1	0.4	100.0
Okla.	45.5	54.5	-	13.7	31.8	36.8	11.4	3.8	1.8	0.5	0.2	-	-	100.0
Tenn.	64.9	34.9	0.2	28.4	36.5	21.9	6.7	3.2	2.1	0.7	0.2	0.1	0.2	100.0
Tex.	43.2	56.4	0.4	14.5	28.7	38.2	11.8	3.6	1.7	0.6	0.3	0.2	0.4	100.0
All other	82.3	17.7	-	17.7	64.6	14.5	3.2	-	-	-	-	-	-	100.0
Total	67.6	32.1	0.3	31.1	36.5	21.6	6.2	2.2	1.2	0.5	0.2	0.2	0.3	100.0

* Less than 0.05 percent.

Table 18. Number of cottonseed samples by specified groups, by qualities, and number reduced in grade for specified causes, by States and United States, 1963 and 1964

State	Quality				Below grade		Total samples graded		Reduced due to excess					
	Prime		Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acids		Foreign matter	
	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964	1963	1964
	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>
Ala.	3,387	3,275	1,063	1,814	-	-	4,450	5,089	442	836	40	279	634	1,240
Ariz.	1,457	1,622	1,216	1,259	-	-	2,673	2,881	39	126	614	507	1,131	1,180
Ark.	11,344	9,897	6,573	8,138	2	3	17,919	18,038	2,850	6,249	252	1,032	3,983	3,933
Calif.	146	215	421	292	-	-	567	507	5	5	382	167	237	265
Ky.	50	35	28	33	-	-	78	68	8	14	2	3	20	27
La.	4,175	2,634	2,635	3,814	1	2	6,811	6,450	1,218	2,217	1,133	2,808	829	859
Miss.	14,323	13,760	6,793	9,239	7	15	21,123	23,014	2,994	5,281	256	2,083	3,913	5,131
Mo.	2,961	2,092	2,124	2,404	-	-	5,085	4,496	1,041	1,748	130	249	1,312	1,027
N. Mex.	173	288	344	278	-	-	517	566	1	1	-	-	346	275
Okla.	1,158	879	1,101	1,250	-	-	2,259	2,129	22	127	16	74	1,091	1,159
Tenn.	3,903	3,770	2,760	4,287	-	-	6,663	8,057	1,101	2,798	62	419	1,834	2,822
Tex.	6,626	8,177	11,215	12,347	2	-	17,843	20,524	119	702	140	530	11,098	11,653
All other	17	30	30	32	-	-	47	62	4	4	3	25	28	11
Total	49,720	46,674	36,303	45,187	12	20	86,035	91,881	9,644	20,108	3,030	8,176	26,456	29,582

