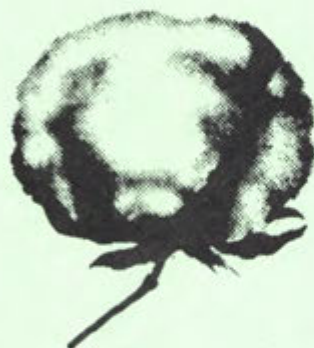


COTTONSEED QUALITY

CROP OF 1967



UNITED STATES DEPARTMENT OF AGRICULTURE

Consumer and Marketing Service Cotton Division

Memphis, Tennessee

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Cottonseed Quality - 1967 Crop

The average grade of cottonseed in the 1967-68 season was down slightly from a year earlier but higher than the five-year 1962-66 average. The oil content of seed from the 1967 crop averaged higher than that of a year earlier. The ammonia content was down from a year ago. Linters content of seed averaged slightly lower than in the preceding season. The proportion of moisture was somewhat lower than the 1966 average while the percentages of free fatty acids and foreign matter content were unchanged.

Data from grade certificates covering 45,800 samples of cottonseed were used to compile the information included in this report. Averages of cottonseed quality factors and grades are shown by states, districts, months and by specified frequencies. Average quality factors of cottonseed are shown by 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.

The summary of national averages appearing in Table 1 below and presented in other tables of this report are based on state quality factors and grades weighted by the number of samples of cottonseed. The 1967-68 figures are based in part on data compiled from certificates that contained no linters factor. The linters factor was not used for determining grade in Virginia, North Carolina, South Carolina, Georgia, Florida, Districts 5 through 9 in Alabama and District 5 in California. Grades were determined in other districts and states on Official United States Standards.

Table 1. Cottonseed quality factors, indexes, and grades,
1950-1967

Year beginning August 1	Cottonseed quantity and quality factors						Quantity Index	Quality Index	Average grade	Number of samples Number
	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
1965	18.0	4.00	10.3	11.1	1.2	1.2	100.49	97.9	98.5	108,828
1966	18.2	3.97	10.8	10.7	0.9	1.3	101.84	98.8	101.0	71,072
1967	18.4	3.89	10.7	10.1	0.9	1.3	101.97	98.5	100.5	45,838

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 (Effective July 1, 1968)
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 + 1.50
3.9-0	Discount = (4.0 minus percent linters) x 2.5 + 11.50

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 8/		Linters		Sum of pro- ducts		Adjust- ment fac- tors	Quan- tity index
	Total reduc- tion	Pct.	Total reduc- tion	Pct.	Total reduc- tion	Pct.		Re- duc- tion	Units	Total	Pct.	Total	Pct.	Total	Pct.				
	Pct.	Units	Pct.	Units	Pct.	Units	Units	Total	Pct.	Total	Pct.	Total	Pct.	Total	Pct.	Total	Pct.		
								PRIME QUALITY SEED											
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	12.0	+2.25	99.85	+5	104.85	105.0
2	1.8	0.0	1.0	0.0	12.0	0.0	0.0	0.0	100.0	17.8	71.2	4.10	24.60	10.0	-0.75	95.05	+5	100.05	100.0
3	1.2	0.0	0.8	0.0	9.6	0.0	0.0	0.0	100.0	16.2	64.8	3.97	23.82	9.5	-1.50	87.12	+5	92.12	92.0
									BELOW PRIME QUALITY SEED										
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	+2.25	97.25	+5	102.25	102.0	
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	+0.75	102.05	+5	107.05	107.0	
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	-3.00	91.58	+5	96.58	96.5	
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	+5.25	86.33	+5	91.33	91.0	
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	-21.65	102.05	+5	107.05	101.5	
									OFF QUALITY SEED										
									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	+1.50	103.92	+5	108.92	62.5	
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	-2.50	89.88	+5	94.88	86.0	
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	+4.05	102.05	+5	107.05	98.5	
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	+2.40	104.08	+5	109.08	93.0	
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	+0.15	91.67	+5	96.67	75.5	
									BELOW GRADE SEED										
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	+1.50	89.96	+5	94.96	BG*	
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	+5.10	106.74	+5	111.74	BG*	

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

2/ Example "8", 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.

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

9/ 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, 1966 and 1967 1/

State	Cottonseed analysis														Average index				Average grade	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966	1967		
	Pct.	Pct.	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967						
N. C.	19.0	19.4	3.96	3.72	-	-	11.2	10.5	0.7	1.0	0.7	1.2	104.77	104.87	99.5	98.8	104.5	104.0		
S. C.	18.9	19.5	4.08	3.91	-	-	11.1	10.5	1.1	0.7	0.7	1.0	105.11	106.73	99.1	99.3	104.5	106.0		
Ga.	18.9	19.4	4.03	4.00	-	-	11.6	10.4	1.3	1.3	0.6	0.7	104.81	106.81	98.7	98.8	103.5	106.0		
Fla.	18.6	19.2	4.09	3.93	-	-	12.2	10.8	2.4	2.4	0.5	0.9	103.82	105.67	95.2	95.8	98.5	101.5		
Ala.	18.6	19.3	4.00	3.76	11.0	11.0	11.9	11.5	1.2	2.4	1.0	1.2	103.76	105.23	98.3	94.9	102.5	100.0		
Miss.	17.9	18.1	4.03	3.89	10.6	11.1	11.7	11.0	0.8	0.8	0.9	1.0	100.68	101.67	99.1	98.8	100.0	101.0		
Tenn.	18.4	18.5	3.81	3.63	11.0	10.8	12.3	12.2	0.7	1.0	1.1	1.4	102.01	100.99	98.9	97.6	101.0	99.0		
Mo.	18.0	17.6	3.77	3.64	11.3	11.1	12.4	12.5	0.7	0.9	0.9	1.0	100.51	97.66	98.8	98.1	99.5	96.0		
Ark.	18.3	18.1	3.87	3.77	11.0	11.0	11.8	11.4	0.7	0.7	1.0	1.0	102.21	100.69	99.2	99.0	101.5	100.0		
La.	17.7	18.2	3.94	3.87	10.6	10.7	12.3	10.5	1.3	1.2	0.5	0.5	99.38	101.16	98.3	98.7	98.0	100.0		
Okla.	17.9	18.2	4.02	4.09	11.7	10.6	8.3	8.6	0.6	0.5	1.6	1.3	102.41	102.44	99.2	99.5	102.0	102.0		
Tex.	18.0	18.2	3.99	3.97	10.8	10.2	7.6	8.3	0.6	0.6	2.4	2.2	100.97	100.96	98.4	98.5	99.5	99.5		
N. Mex.	19.6	19.4	3.82	3.93	11.0	10.4	7.6	7.7	0.5	0.5	2.0	2.1	106.87	106.54	98.7	98.7	106.0	105.0		
Ariz.	18.6	18.7	4.22	4.06	10.7	11.2	7.5	7.8	1.4	0.8	1.7	1.3	104.99	105.41	98.0	99.1	103.5	104.5		
Nev.	20.1	19.6	3.98	3.74	13.2	11.7	5.4	7.2	0.7	0.7	1.1	1.6	113.28	107.63	99.7	99.6	113.0	107.5		
Calif.	18.3	17.5	4.21	4.16	10.4	11.1	8.9	9.2	2.0	1.6	1.4	1.3	103.21	100.74	96.0	97.6	99.5	98.5		
All other	18.5	19.1	3.82	3.56	11.3	11.5	11.7	10.9	0.7	1.4	1.1	1.4	102.30	103.09	99.2	98.2	101.5	101.0		
U. S.	18.2	18.4	3.97	3.89	10.6	10.7	10.7	10.1	0.9	0.9	1.3	1.3	101.84	101.97	98.8	98.5	101.0	100.5		

1/ Linters factor not used in determining the grade of cottonseed in Virginia, North Carolina, South Carolina, Georgia, Florida, Districts 5 through 9 in Alabama and District 5 in California. See Table 5.

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1966 and 1967

NORTH CAROLINA 1/

Month	Cottonseed analysis												Average index		Average grade		Samples				
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966		1967		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1966	1967	1966	1967	No.	No.	1966	1967	
Sept.	18.7	-	4.07	-	-	10.8	-	3.1	-	0.9	-	104.63	-	92.8	-	97.0	-	-	-	8	-
Oct.	19.0	18.6	3.97	3.87	-	12.0	11.9	0.7	0.8	0.5	0.6	104.86	102.39	99.2	98.7	104.5	101.5	328	62	730	200
Nov.	19.1	19.5	3.94	3.77	-	11.2	10.3	0.6	0.5	0.6	1.0	104.99	105.59	99.7	99.5	105.0	105.5	402	170	124	74
Dec.	19.0	19.4	3.96	3.65	-	10.5	10.4	0.7	0.6	0.9	1.2	104.76	104.78	99.5	99.4	104.5	104.5	62	44	70	88
Jan.	18.7	19.1	3.96	3.60	-	11.4	11.5	1.0	1.2	1.0	1.3	103.77	102.80	99.5	96.1	103.5	101.0	62	44	70	88
Feb.	18.7	19.4	4.00	3.76	-	11.1	10.4	1.3	1.6	1.1	1.2	103.76	105.01	99.1	96.2	103.0	103.5	62	44	70	88
Mar.-July	18.8	19.8	4.04	3.74	-	10.4	9.5	1.4	2.1	1.3	1.6	104.78	106.80	99.2	96.9	104.0	103.0	62	44	70	88
Season	19.0	19.4	3.96	3.72	-	11.2	10.5	0.7	1.0	0.7	1.2	104.77	104.87	99.5	98.8	104.5	104.0	1,724	638	1,724	638

SOUTH CAROLINA 1/

Aug.	18.2	17.2	3.92	3.62	-	14.6	15.6	0.8	2.2	1.8	2.6	100.50	92.50	97.5	91.2	98.5	87.5	2	2	320	62
Sept.	18.9	19.1	3.96	3.86	-	12.0	11.8	0.7	1.3	0.4	0.6	104.38	104.43	99.2	98.0	104.0	102.5	808	302	566	314
Oct.	18.9	19.4	4.10	3.90	-	11.3	11.5	1.0	0.6	0.4	0.6	105.35	106.13	99.5	99.5	105.0	106.0	334	178	206	92
Nov.	18.9	19.7	4.08	3.96	-	11.2	9.6	1.1	0.4	0.7	1.1	105.27	108.03	99.3	99.7	104.5	108.0	128	52	80	40
Dec.	18.9	19.6	4.08	3.89	-	10.2	10.0	1.3	0.6	0.9	1.2	105.09	106.86	98.8	99.6	104.0	106.5	206	92	128	52
Jan.	18.7	19.4	4.12	3.85	-	10.8	10.9	1.6	0.9	0.8	1.2	104.56	105.86	98.6	99.0	103.5	105.5	80	40	80	40
Feb.	18.8	19.4	4.14	3.90	-	10.3	9.8	1.7	1.4	1.0	1.5	104.98	106.17	98.2	97.6	103.0	104.0	80	40	80	40
Mar.-July	19.0	19.7	4.17	3.91	-	9.7	9.6	2.1	1.1	1.2	1.6	106.27	107.38	97.1	98.6	103.5	106.0	80	40	80	40
Season	18.9	19.5	4.08	3.91	-	11.1	10.5	1.1	0.7	0.7	1.0	105.11	106.73	99.1	99.3	104.5	106.0	2,444	1,042	2,444	1,042

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1966 and 1967 (Continued)

GEORGIA 1/

Month	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966		1967		No.	
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	No.	No.
Aug.	18.7	19.1	4.01	3.57	-	-	13.2	13.5	2.4	2.6	0.4	0.3	104.14	102.90	94.8	93.7	99.0	97.0	36	24		
Sept.	19.2	19.0	3.95	3.95	-	-	11.5	11.2	0.8	1.5	0.6	0.5	105.52	104.73	99.4	98.4	105.0	103.0	1,046	578		
Oct.	18.8	19.7	4.07	4.06	-	-	11.8	9.8	1.0	1.1	0.6	0.7	104.77	108.52	99.4	99.5	104.5	108.5	1,098	662		
Nov.	18.6	19.6	4.05	4.08	-	-	12.2	9.8	1.6	0.8	0.6	0.7	103.71	108.03	98.3	99.6	102.0	108.0	554	374		
Dec.	18.9	19.0	4.11	3.97	-	-	10.7	10.4	1.9	1.0	0.8	0.9	105.26	104.90	98.2	98.9	103.5	104.0	280	146		
Jan.	18.6	19.0	4.08	3.87	-	-	11.4	11.6	2.4	1.2	0.8	1.0	104.30	104.49	96.1	99.0	100.0	103.5	150	70		
Feb.	18.6	19.5	4.08	3.87	-	-	11.1	10.5	3.0	1.6	0.9	1.2	103.94	107.28	94.5	98.7	98.5	106.0	78	58		
Mar.-July	18.6	19.9	4.12	3.95	-	-	10.4	9.9	2.8	2.2	1.0	1.4	103.96	107.73	95.4	96.1	99.0	103.5	70	132		
Season	18.9	19.4	4.03	4.00	-	-	11.6	10.4	1.3	1.3	0.6	0.7	104.81	106.81	98.7	98.8	103.5	106.0	3,312	2,044		

FLORIDA 1/

Aug.	18.6	18.5	3.95	3.62	-	-	14.5	14.1	1.7	2.0	0.2	0.1	102.95	101.25	96.2	95.4	99.5	97.0	10	6		
Sept.	18.6	19.0	4.06	3.96	-	-	12.1	11.8	0.9	3.8	0.4	0.7	103.76	104.58	99.5	91.7	103.5	96.0	44	24		
Oct.	18.6	19.7	4.11	3.99	-	-	12.4	9.7	1.7	1.8	0.4	1.0	103.93	108.08	98.2	98.3	102.0	106.5	30	32		
Nov.	18.6	19.0	4.15	3.94	-	-	11.8	10.1	4.4	1.9	0.8	1.0	104.22	105.43	90.5	96.6	93.5	102.0	16	14		
Dec.	18.3	18.7	4.11	3.92	-	-	11.6	11.6	8.4	4.5	0.9	0.9	103.94	103.50	74.3	91.2	77.0	93.5	8	2		
Jan.	18.5	18.2	4.07	3.77	-	-	12.1	11.6	2.6	0.8	0.9	0.9	103.50	101.50	95.6	100.0	100.0	101.5	4	2		
Feb.	18.7	18.7	4.22	3.92	-	-	10.6	9.6	8.0	0.8	2.6	1.3	104.50	103.50	72.5	99.5	60.0	103.5	2	2		
Mar.-July	-	19.2	-	3.77	-	-	-	9.6	-	0.8	-	1.3	-	103.50	-	99.5	-	103.5	-	-	2	2
Season	18.6	19.2	4.09	3.93	-	-	12.2	10.8	2.4	2.4	0.5	0.9	103.82	105.67	95.2	95.8	98.5	101.5	114	84		

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1966 and 1967 (Continued)

ALABAMA 1/

Month	Cottonseed analysis														Average Index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966	1967	1966	1967	No.	No.
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967						
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.						
Aug.	18.4	18.0	4.02	3.67	10.5	11.5	13.4	13.8	2.3	2.5	0.6	0.5	102.66	99.17	95.0	94.0	97.5	93.0	82	38		
Sept.	18.4	18.3	4.06	3.79	10.4	12.7	11.9	13.3	0.9	4.5	0.6	0.6	103.06	101.11	99.2	87.7	102.5	88.5	888	278		
Oct.	18.5	19.4	4.00	3.86	10.8	11.3	12.4	11.1	0.9	2.1	0.8	0.8	103.18	106.24	99.1	96.7	102.5	103.0	1,732	606		
Nov.	18.6	19.5	3.97	3.77	11.1	11.2	11.7	10.7	1.3	1.2	1.1	1.1	104.02	106.31	98.4	98.7	102.5	105.0	1,234	562		
Dec.	18.9	19.2	3.98	3.65	11.0	10.9	11.1	12.1	1.9	1.2	1.3	1.5	104.91	104.42	96.6	97.6	101.5	102.0	600	354		
Jan.	18.8	19.1	3.96	3.63	11.0	10.9	11.7	12.6	2.0	1.9	1.5	1.6	104.49	103.59	96.3	96.7	101.0	100.5	302	168		
Feb.	18.8	19.8	4.00	3.71	11.3	10.6	11.2	11.5	1.3	3.8	1.5	2.1	105.36	106.61	98.3	89.9	104.0	96.0	220	166		
Mar.-July	18.8	20.0	4.06	3.68	10.9	10.9	11.0	10.5	2.0	4.6	1.8	2.5	105.39	107.78	96.5	86.5	102.0	92.5	84	194		
Season	18.6	19.3	4.00	3.76	11.0	11.0	11.9	11.5	1.2	2.4	1.0	1.2	103.76	105.23	98.3	94.9	102.5	100.0	5,142	2,366		
Aug.	17.4	17.5	4.00	4.11	10.5	11.3	11.5	11.3	3.7	1.9	1.1	1.2	98.78	100.38	90.0	96.6	90.0	96.5	50	24		
Sept.	17.5	17.8	3.99	3.90	10.1	10.9	13.5	13.5	0.8	1.7	0.6	0.6	98.49	100.04	98.0	96.3	97.0	97.0	1,538	450		
Oct.	18.0	18.8	4.06	3.98	10.5	11.0	12.1	10.2	0.7	0.6	0.7	0.7	101.14	104.61	99.3	99.8	100.5	104.5	6,462	3,190		
Nov.	17.9	18.0	4.02	3.89	10.8	11.3	10.8	10.5	0.8	0.4	1.0	0.9	100.96	101.51	99.6	99.7	101.0	101.5	5,402	4,324		
Dec.	17.7	17.3	3.94	3.73	10.9	11.3	11.2	12.5	1.0	0.6	1.5	1.3	100.12	97.30	98.8	98.5	99.0	96.0	1,396	1,404		
Jan.	18.0	17.4	3.88	3.70	10.7	11.1	12.1	13.2	1.5	1.4	1.7	1.4	100.12	97.12	97.5	96.9	98.0	94.0	240	288		
Feb.	17.5	17.9	3.91	3.78	10.9	10.9	12.2	12.1	2.1	2.5	2.5	2.0	99.43	99.73	94.4	94.8	94.0	94.5	62	306		
Mar.-July	18.0	18.2	4.01	3.86	10.6	11.0	11.2	10.9	2.4	3.5	1.6	2.0	100.95	101.76	94.4	91.4	94.5	93.0	82	476		
Season	17.9	18.1	4.03	3.89	10.6	11.1	11.7	11.0	0.8	0.8	0.9	1.0	100.68	101.67	99.1	98.8	100.0	101.0	15,232	10,462		

MISSISSIPPI

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1966 and 1967 (Continued)

TENNESSEE

Month	Cottonseed analysis														Average Index		Average Grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966	1967	1966	1967	No.	No.
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967
Aug.	17.2	19.7	3.92	3.77	9.5	11.5	10.6	9.6	2.2	3.5	1.8	0.4	96.25	106.25	98.5	87.5	96.0	96.0	2	2		
Sept.	18.1	-	3.74	-	10.4	-	15.1	-	1.2	-	0.7	-	99.75	-	95.9	-	96.0	-	108	-		
Oct.	18.5	19.1	3.84	3.57	10.7	11.1	12.9	12.4	0.6	0.6	0.7	0.9	102.22	103.94	98.8	98.9	101.5	103.0	1,900	264		
Nov.	18.4	18.6	3.84	3.68	11.2	10.8	11.7	11.7	0.6	0.4	1.1	1.0	102.34	101.50	99.5	99.3	102.0	101.0	1,734	922		
Dec.	18.2	18.0	3.75	3.60	11.5	10.7	11.6	13.0	0.7	0.7	1.6	1.5	101.76	98.80	98.9	98.1	101.0	97.0	670	518		
Jan.	18.0	18.0	3.69	3.58	11.4	10.7	12.8	13.6	1.0	1.3	2.2	1.6	100.36	98.56	97.6	97.2	98.5	96.0	270	88		
Feb.	18.1	18.4	3.73	3.58	11.0	10.6	12.3	12.9	1.3	2.5	2.2	2.2	100.49	100.10	97.6	93.2	98.5	94.0	54	62		
Mar.-July	18.4	18.7	3.70	3.64	11.2	10.6	11.7	11.5	1.8	4.5	2.3	3.0	101.46	101.84	96.8	86.9	98.5	88.0	56	182		
Season	18.4	18.5	3.81	3.63	11.0	10.8	12.3	12.2	0.7	1.0	1.1	1.4	102.01	100.99	98.9	97.6	101.0	99.0	4,794	2,038		

MISSOURI

Aug.	18.5	18.7	4.15	3.92	9.5	13.5	10.6	10.6	2.4	1.4	0.5	0.9	102.50	106.25	97.7	100.0	101.0	106.0	4	2		
Sept.	17.3	18.7	3.68	4.07	10.4	9.0	15.7	10.1	1.4	2.9	0.8	3.1	96.14	98.88	95.0	90.5	91.0	92.0	38	4		
Oct.	18.1	17.6	3.83	3.58	11.1	11.8	12.7	13.1	0.7	1.0	0.7	0.8	100.65	98.96	98.5	97.4	99.5	96.5	866	54		
Nov.	18.0	17.5	3.78	3.63	11.4	11.1	12.1	12.6	0.6	0.5	0.8	0.8	100.91	97.27	99.4	98.8	100.5	96.5	894	400		
Dec.	17.9	17.4	3.65	3.63	11.7	11.0	12.2	12.8	0.7	0.6	1.1	1.1	100.05	97.00	99.2	98.7	99.5	96.0	272	190		
Jan.	17.6	16.9	3.60	3.71	12.0	10.8	12.9	13.2	1.1	0.9	1.7	1.4	98.84	94.69	97.3	98.2	96.5	93.5	88	16		
Feb.	17.6	18.1	3.56	3.66	11.6	10.6	12.9	12.6	0.9	2.9	1.9	1.1	98.37	99.07	97.9	94.5	96.5	94.0	26	22		
Mar.-July	18.2	18.1	3.62	3.69	11.2	10.8	12.5	11.4	1.3	2.6	2.1	1.6	100.52	99.95	97.9	95.3	99.0	95.5	60	92		
Season	18.0	17.6	3.77	3.64	11.3	11.1	12.4	12.5	0.7	0.9	0.9	1.0	100.51	97.66	98.8	98.1	99.5	96.0	2,248	780		

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1966 and 1967 (Continued)

ARKANSAS

Month	Cottonseed analysis												Average Index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966		1967	
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	No.	No.		
Aug.	18.0	19.7	4.15	4.30	10.1	8.5	10.7	11.1	3.7	1.4	0.7	0.7	100.70	102.50	93.5	100.0	95.0	103.5	22	4
Sept.	17.6	17.9	3.87	3.94	10.2	10.3	14.7	12.9	1.3	2.3	0.8	0.9	98.18	99.82	95.9	93.3	94.5	93.5	184	38
Oct.	18.3	18.7	3.93	3.85	10.7	11.0	12.5	10.8	0.6	0.5	0.7	0.6	101.74	103.71	99.1	99.7	101.0	103.5	2,830	1,048
Nov.	18.4	18.1	3.89	3.79	11.1	11.0	11.3	11.0	0.6	0.4	0.9	0.8	103.00	100.78	99.7	99.7	103.0	100.5	4,718	3,040
Dec.	18.2	17.7	3.79	3.69	11.4	11.0	11.5	12.2	0.7	0.5	1.5	1.2	102.02	96.70	99.1	98.9	101.5	98.0	1,558	1,224
Jan.	18.0	17.6	3.71	3.66	11.5	10.9	12.6	13.4	1.0	1.0	2.0	1.5	100.41	97.69	98.0	97.5	98.5	95.5	568	244
Feb.	18.1	18.3	3.71	3.70	11.4	10.6	12.5	12.5	1.3	1.6	2.0	2.0	101.29	100.16	97.5	96.7	99.0	97.0	208	352
Mar.-July	18.5	18.2	3.76	3.72	10.9	10.9	11.7	11.3	1.7	2.3	2.2	2.1	101.52	100.48	96.8	95.5	98.0	96.0	148	386
Season	18.3	18.1	3.87	3.77	11.0	11.0	11.8	11.4	0.7	0.7	1.0	1.0	102.21	100.69	99.2	99.0	101.5	100.0	10,236	6,336

LOUISIANA

Aug.	16.6	17.3	3.67	3.52	10.4	10.3	16.9	16.4	4.1	2.9	0.9	0.7	92.77	94.81	82.3	91.2	77.5	87.5	48	40
Sept.	17.5	17.7	3.86	3.76	10.3	10.4	13.8	13.5	1.5	3.1	0.6	0.5	97.77	98.24	96.8	92.6	95.0	91.0	714	420
Oct.	17.8	18.8	3.96	3.93	10.6	10.3	12.6	9.9	1.1	1.1	0.5	0.4	99.91	103.66	98.7	99.3	99.0	103.0	2,060	1,796
Nov.	17.8	17.8	3.96	3.86	10.7	11.1	11.5	10.1	1.2	0.6	0.5	0.5	99.85	100.35	99.3	99.8	99.5	100.5	1,920	1,528
Dec.	17.3	16.9	3.92	3.76	11.0	11.5	11.7	11.3	1.8	0.8	0.7	0.9	98.27	96.49	97.7	99.2	96.0	96.0	378	284
Jan.	17.0	16.8	3.92	3.75	11.0	11.1	12.6	12.4	2.8	1.4	1.1	0.9	97.40	95.22	93.9	97.8	91.0	93.5	66	50
Feb.	17.6	17.6	4.01	3.76	10.8	10.6	11.8	11.3	2.4	2.1	1.0	1.0	99.84	98.11	95.7	97.0	95.0	95.0	38	38
Mar.-July	17.1	17.7	4.07	3.86	11.1	11.2	11.2	10.8	3.8	2.4	1.4	1.3	99.38	99.99	91.7	96.2	89.5	96.5	16	38
Season	17.7	18.2	3.94	3.87	10.6	10.7	12.3	10.5	1.3	1.2	0.5	0.5	99.38	101.16	98.3	98.7	96.0	100.0	5,240	4,194

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1966 and 1967 (Continued)

OKLAHOMA

Month	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966	1967	1966	1967	No.	No.
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967				
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.								
Sept.	17.2	-	4.22	-	8.5	-	12.6	-	0.8	-	0.4	-	98.75	-	99.5	-	96.0	-		2		
Oct.	18.7	17.9	4.02	4.16	11.7	10.7	9.1	8.3	0.4	0.6	0.8	1.0	105.18	102.11	99.7	99.7	105.0	102.0	108	172		
Nov.	18.3	18.3	4.09	4.11	11.5	10.7	7.9	8.3	0.5	0.4	1.3	1.2	104.35	103.21	99.5	99.6	104.0	103.0	822	498		
Dec.	17.4	18.4	3.93	4.04	11.9	10.4	8.4	8.6	0.7	0.4	2.1	1.6	100.10	102.53	98.8	99.3	99.5	102.0	436	224		
Jan.	17.1	17.9	3.92	4.07	11.5	10.3	8.7	9.9	1.0	0.6	2.6	1.9	97.74	100.62	98.3	98.9	95.5	99.5	140	90		
Feb.	17.0	17.7	3.98	4.07	11.9	10.1	8.4	9.8	1.0	0.9	2.3	1.3	96.69	99.85	98.5	99.3	97.5	99.5	42	36		
Mar.-July	17.0	18.1	3.86	4.04	11.7	10.2	8.4	9.9	1.2	1.1	2.2	1.6	97.32	100.46	98.7	99.1	96.0	100.0	14	46		
Season	17.9	18.2	4.02	4.09	11.7	10.6	8.3	8.6	0.6	0.5	1.6	1.3	102.41	102.44	99.2	99.5	102.0	102.0	1,564	1,066		

TEXAS

Aug.	16.9	17.1	3.91	3.94	12.9	12.5	10.3	9.5	0.5	0.4	0.8	1.0	97.98	99.49	99.7	99.6	98.0	99.5	750	672
Sept.	17.0	16.9	3.82	3.95	12.3	11.7	11.0	10.8	1.0	1.4	1.1	1.1	97.27	97.33	98.7	97.4	96.5	95.0	524	198
Oct.	18.2	19.0	4.05	3.96	11.1	10.9	9.2	8.8	1.0	0.7	1.4	1.3	102.65	105.39	99.0	99.2	102.0	105.0	1,128	1,052
Nov.	18.2	18.8	4.01	4.03	10.6	10.2	7.2	7.5	0.6	0.5	2.1	1.8	102.01	103.85	98.8	99.1	101.0	103.0	8,466	4,440
Dec.	17.8	18.2	3.99	3.98	10.5	9.7	7.4	7.8	0.7	0.5	3.1	2.4	99.76	99.84	97.8	98.6	98.0	98.5	4,072	3,576
Jan.	17.7	17.4	3.96	3.89	10.7	9.5	7.2	9.4	0.9	0.7	4.1	3.3	99.40	95.66	96.6	97.6	96.0	93.5	814	1,376
Feb.	17.6	17.3	3.94	3.86	10.7	9.8	7.3	10.2	1.1	1.1	4.0	3.8	98.90	95.32	96.4	96.2	95.5	91.5	146	610
Mar.-July	17.6	17.3	4.04	3.91	10.9	10.2	7.7	10.3	1.6	1.9	3.4	3.6	99.73	96.61	96.7	94.5	97.0	91.0	86	250
Season	18.0	18.2	3.99	3.97	10.8	10.2	7.6	8.3	0.6	0.6	2.4	2.2	100.97	100.96	98.4	98.5	99.5	99.5	15,966	12,174

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1966 and 1967 (Continued)

NEW MEXICO

Month	Cottonseed analysis														Average index		Average grade		Samples					
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966		1967		No.		No.	
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967		
Oct.	20.5	20.4	3.78	3.86	11.7	10.7	8.7	8.4	0.4	0.5	0.6	1.1	111.79	111.32	99.9	99.5	111.5	111.0	164	64				
Nov.	19.4	19.9	3.87	3.99	10.4	10.4	6.7	7.0	0.4	0.4	2.0	1.6	105.47	109.19	98.9	99.3	104.5	108.5	176	178				
Dec.	18.3	18.5	3.79	3.89	11.0	9.9	7.0	7.6	0.7	0.6	4.3	3.1	100.71	101.14	96.3	97.6	97.5	99.0	78	68				
Jan.	18.8	17.6	3.85	3.88	11.5	10.1	7.2	9.1	0.6	0.6	3.6	4.2	104.22	97.00	97.1	96.9	102.0	93.0	16	28				
Feb.	20.2	17.0	3.62	3.85	12.5	11.0	10.6	10.2	0.6	0.9	0.7	4.4	108.75	97.08	100.0	96.8	108.5	93.5	2	12				
Mar.-July	17.1	16.2	3.92	3.92	9.5	9.5	7.1	8.6	1.2	1.1	1.8	2.6	96.88	92.50	98.0	98.5	94.5	91.0	4	2				
Season	19.6	19.4	3.82	3.93	11.0	10.4	7.6	7.7	0.5	0.5	2.0	2.1	106.87	106.54	98.7	98.7	106.0	105.0	440	352				

ARIZONA

Aug.	16.7	-	3.77	-	11.5	-	14.6	-	1.7	-	0.1	-	96.25	-	97.5	-	93.5	-	2	-		
Sept.	18.2	18.8	4.09	4.06	10.6	10.9	10.9	8.2	1.2	0.9	0.5	0.7	102.57	104.45	98.9	99.6	101.5	104.0	42	20		
Oct.	19.0	19.3	4.15	4.04	10.9	11.0	8.5	7.1	0.9	0.4	0.6	0.7	106.64	107.51	99.7	99.8	106.5	107.5	334	512		
Nov.	19.1	19.1	4.26	4.11	10.9	11.4	7.0	6.7	1.1	0.7	1.0	0.9	107.64	107.72	99.4	99.6	107.5	107.5	696	700		
Dec.	18.0	17.8	4.23	4.04	10.6	11.1	7.3	9.7	1.8	1.0	2.3	1.9	102.62	101.49	97.3	98.4	100.0	100.0	480	276		
Jan.	17.5	17.2	4.21	4.00	10.3	11.1	7.2	10.0	2.5	1.4	4.7	3.0	99.82	98.55	92.4	96.8	93.0	96.0	212	220		
Feb.	17.2	17.7	3.97	4.00	11.1	10.8	8.2	8.7	2.8	1.9	7.3	3.9	98.67	100.88	86.2	95.6	86.5	96.0	6	16		
Season	18.6	18.7	4.22	4.06	10.7	11.2	7.5	7.8	1.4	0.8	1.7	1.3	104.99	105.41	98.0	99.1	103.5	104.5	1,772	1,744		

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1966 and 1967 (Continued)

CALIFORNIA 1/

Month	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966	1967	1966	1967	No.	No.
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967
Sept.	19.0	-	4.02	-	10.5	-	8.2	-	0.5	-	1.4	-	105.67	-	99.3	-	105.0	-	6	-	-	-
Oct.	18.8	18.9	4.41	4.21	10.7	10.5	8.6	7.3	0.4	0.8	0.6	0.7	106.82	105.93	99.9	99.6	107.0	106.5	100	48	-	-
Nov.	19.0	18.3	4.24	4.22	10.4	11.1	8.0	8.0	1.2	1.4	0.9	0.7	106.51	104.31	98.6	98.8	105.5	103.5	232	192	-	-
Dec.	18.0	16.9	4.16	4.11	10.5	11.2	9.2	11.1	2.5	1.5	1.2	1.3	102.00	97.90	95.3	98.0	97.5	96.5	242	118	-	-
Jan.	16.9	16.2	4.12	4.09	10.3	11.4	9.5	10.2	3.6	2.6	3.1	2.5	96.87	95.37	89.2	94.2	86.5	90.0	106	112	-	-
Feb.	17.3	17.7	4.10	4.15	11.1	11.0	11.4	7.1	2.8	2.6	2.9	3.7	98.15	101.50	92.8	97.5	92.0	98.5	24	4	-	-
Mar.-July	17.6	-	4.13	-	11.5	-	11.3	-	3.3	-	2.6	-	99.84	-	90.7	-	89.5	-	16	-	-	-
Season	18.3	17.5	4.21	4.16	10.4	11.1	8.9	9.2	2.0	1.6	1.4	1.3	103.21	100.74	96.0	97.6	99.5	98.5	726	474	-	-

NEVADA

Oct.	20.7	-	3.92	-	12.5	-	5.6	-	0.6	-	0.4	-	112.50	-	100.0	-	112.5	-	2	-	-	-
Nov.	20.2	20.5	4.07	3.67	13.1	12.1	5.9	4.9	0.6	0.4	0.7	0.5	114.17	112.92	100.0	100.0	114.0	113.0	6	6	-	-
Dec.	19.9	19.4	3.97	3.87	13.5	11.5	4.9	7.9	0.9	0.9	1.6	1.0	112.92	107.75	99.3	99.8	112.0	107.5	6	6	-	-
Jan.	20.2	19.5	3.77	3.77	13.5	11.1	5.6	7.9	0.6	0.7	1.3	1.0	112.50	106.67	99.5	99.6	112.5	108.0	2	6	-	-
Feb.	-	19.4	-	3.72	-	12.1	-	7.2	-	0.8	-	3.9	-	106.25	-	99.1	-	103.5	-	6	-	-
Mar.-July	-	19.2	-	3.62	-	11.5	-	8.6	-	1.1	-	1.6	-	103.00	-	99.5	-	103.0	-	4	-	-
Season	20.1	19.6	3.98	3.74	13.2	11.7	5.4	7.2	0.7	0.7	1.1	1.6	113.28	107.63	99.7	99.6	113.0	107.5	16	28	-	-

1/ Linters factor not used in determining the grade of cottonseed in Virginia, North Carolina, South Carolina, Georgia, Florida, Districts 5 through 9 in Alabama and District 5 in California. See Table 5.

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1966 and 1967

NORTH CAROLINA 1/

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1966	1967	Pct.	Pct.	1966	1967	Pct.	Pct.	1966	1967	Pct.	Pct.	1966	1967	1966	1967	1966	1967		
2	18.4	19.3	4.06	3.85	-	-	11.4	10.3	1.0	1.8	1.0	1.1	102.98	105.38	99.0	98.2	102.5	103.5	82	28
3	19.1	19.9	3.85	3.53	-	-	11.5	10.8	0.7	1.3	0.8	1.4	104.42	105.87	99.4	98.0	104.0	104.0	640	184
4	19.0	19.7	4.11	3.92	-	-	11.1	9.6	0.7	0.4	0.2	0.9	105.93	108.75	100.0	100.0	106.0	108.5	22	2
5	19.0	20.0	4.00	3.92	-	-	11.4	10.1	0.8	0.6	0.4	0.5	105.13	108.75	99.6	100.0	104.5	108.5	64	4
6	19.5	20.4	3.83	3.57	-	-	11.0	10.4	0.7	1.1	0.9	1.3	106.15	108.34	99.7	98.7	106.0	107.5	152	50
8	18.4	19.2	4.24	3.97	-	-	11.3	10.8	0.7	0.6	0.5	0.8	104.03	105.15	99.6	99.2	103.5	104.5	216	68
9	19.1	18.9	4.00	3.80	-	-	10.8	10.4	0.7	0.7	0.8	1.1	105.27	103.49	99.5	99.2	105.0	103.0	548	302
State	19.0	19.4	3.96	3.72	-	-	11.2	10.5	0.7	1.0	0.7	1.2	104.77	104.87	99.5	98.8	104.5	104.0	1,724	638

SOUTH CAROLINA 1/

1	18.9	19.9	4.10	3.80	-	-	11.5	11.5	0.8	1.1	0.6	0.6	105.39	107.22	99.5	98.4	105.0	106.0	206	52
2	18.7	19.9	4.22	3.85	-	-	10.8	11.1	0.8	0.9	0.4	0.7	105.28	107.83	99.8	99.1	105.5	107.0	102	12
3	19.1	19.6	4.07	3.87	-	-	10.9	10.5	1.1	0.6	0.6	1.0	105.74	106.96	99.1	99.6	105.0	106.5	720	326
4	18.7	19.4	4.15	3.87	-	-	11.1	11.4	0.7	0.6	0.8	0.8	104.99	106.14	99.7	99.4	105.0	105.5	164	58
5	18.9	19.6	4.07	3.94	-	-	11.0	10.1	1.2	0.6	0.7	1.0	105.08	107.28	99.3	99.4	104.5	107.0	1,024	456
8	18.5	18.9	4.01	3.94	-	-	11.5	10.9	1.9	0.9	0.9	1.1	103.01	104.31	97.3	98.6	100.5	103.0	228	138
State	18.9	19.5	4.08	3.91	-	-	11.1	10.5	1.1	0.7	0.7	1.0	105.11	106.73	99.1	99.3	104.5	106.0	2,444	1,042

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1966 and 1967 (Continued)

GEORGIA 1/

Dist. No.	Cottonseed analysis														Average index				Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966	1967	No.	No.
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967				
1	18.8	19.6	4.04	3.60	-	-	11.8	11.3	1.0	2.3	1.0	1.6	104.38	105.43	99.3	95.0	104.0	100.0	250	58
2	18.5	19.7	4.12	3.89	-	-	12.0	10.4	1.4	1.4	0.6	1.3	103.76	107.47	98.5	98.6	102.5	106.0	84	54
3	18.4	19.2	4.12	3.91	-	-	11.6	11.6	1.0	1.6	0.5	1.3	103.38	103.58	99.4	96.8	103.0	100.0	82	42
4	18.9	19.9	4.11	4.05	-	-	11.6	10.2	1.7	1.2	0.7	0.8	105.48	108.94	97.9	98.8	103.5	108.0	294	166
5	19.0	19.3	4.03	4.11	-	-	11.9	10.3	1.3	1.0	0.5	0.6	105.16	106.94	98.5	99.4	104.0	106.5	636	394
6	18.8	19.4	4.00	4.03	-	-	11.4	10.1	1.3	0.8	0.5	0.7	104.40	106.80	98.8	99.6	103.5	106.5	588	282
7	18.8	19.5	4.15	3.95	-	-	11.4	10.5	1.3	2.0	0.8	0.8	105.39	106.94	98.7	97.2	104.0	104.0	476	336
8	19.0	19.3	3.99	4.01	-	-	11.5	10.3	1.1	1.1	0.6	0.6	104.94	106.58	99.0	99.5	104.0	106.0	740	646
9	18.9	19.2	3.75	3.84	-	-	11.5	10.9	1.2	1.5	0.6	0.6	103.23	105.14	98.7	98.7	102.0	104.0	162	66
State	18.9	19.4	4.03	4.00	-	-	11.6	10.4	1.3	1.3	0.6	0.7	104.81	106.81	98.7	98.8	103.5	106.0	3,312	2,044

ALABAMA 1/																				
Dist. No.	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966	1967	No.	No.
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967				
1	18.9	19.6	3.93	3.60	11.1	11.0	11.7	11.3	0.9	1.9	1.3	2.0	104.82	106.00	99.1	95.0	104.0	101.0	460	220
2	18.9	19.6	3.95	3.53	10.8	10.8	11.9	12.1	0.9	2.1	1.2	1.9	105.12	105.43	99.0	94.4	104.5	99.5	1,990	400
3	18.4	19.7	3.96	3.58	11.3	11.1	12.1	11.9	1.0	3.3	1.1	1.5	103.50	106.15	98.7	90.5	102.5	96.0	528	158
4	18.3	19.5	3.95	3.71	11.1	11.4	12.0	11.1	1.4	1.4	0.7	1.3	102.87	106.85	98.6	97.5	102.0	104.5	244	210
5	18.0	19.4	4.10	3.82	-	-	11.8	11.3	2.0	1.8	0.8	1.1	101.55	105.64	96.7	97.5	98.5	103.0	674	516
6	18.4	19.2	4.08	3.97	-	-	11.9	11.0	2.2	1.3	0.7	0.9	102.99	105.96	95.9	98.7	98.5	104.5	282	214
7	17.7	18.5	3.96	3.65	-	-	13.1	12.7	3.1	3.7	0.7	0.7	99.27	100.79	93.0	91.0	92.5	93.0	24	12
8	18.1	18.9	4.15	3.92	-	-	11.8	11.6	1.3	3.3	0.6	0.9	102.29	104.27	98.7	93.1	101.0	97.0	408	328
9	18.5	18.7	4.02	3.85	-	-	11.8	11.6	1.5	3.7	0.5	0.6	102.99	102.88	98.1	90.9	101.0	93.5	532	308
State	18.6	19.3	4.00	3.76	11.0	11.0	11.9	11.5	1.2	2.4	1.0	1.2	103.76	105.23	98.3	94.9	102.5	100.0	5,142	2,366

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1966 and 1967 (Continued)

MISSISSIPPI

Dist. No.	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966		1967		No.	
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	No.	No.
1	17.5	17.7	4.07	3.96	10.8	11.3	11.7	10.9	0.6	0.6	1.1	1.1	99.94	100.38	99.2	99.1	99.5	100.0	4,180	3,080		
2	18.2	18.5	4.00	3.66	10.4	11.1	11.8	11.6	0.7	0.9	1.0	1.3	101.68	101.62	99.1	98.0	101.0	100.0	1,708	1,074		
3	18.8	19.2	3.90	3.55	10.6	11.2	12.0	11.4	0.7	1.1	1.3	1.6	103.74	104.15	98.9	97.1	103.0	101.5	1,044	560		
4	17.7	17.8	4.10	4.00	10.6	11.2	11.4	10.7	0.7	0.6	0.8	0.7	100.43	101.31	99.4	99.2	100.0	101.0	4,812	3,428		
5	18.0	18.8	3.94	3.84	10.4	10.6	11.7	11.0	1.0	0.7	0.7	0.7	100.63	103.31	99.2	99.2	100.0	102.5	1,590	1,070		
6	18.1	19.0	3.96	3.68	10.1	10.8	12.0	11.2	1.1	1.1	0.9	1.3	100.64	103.67	98.8	98.1	99.5	102.0	858	560		
7	17.6	18.4	3.93	3.84	10.5	10.6	12.0	11.1	1.4	1.3	0.6	0.6	98.97	101.72	98.1	98.8	97.0	101.0	474	328		
8	18.1	18.5	3.82	3.86	11.0	11.2	12.1	11.3	1.5	1.6	0.8	0.6	100.88	103.73	98.2	97.9	99.5	101.5	400	254		
9	18.3	19.0	3.89	3.80	11.3	11.5	12.1	10.9	1.6	1.8	0.5	0.7	102.48	105.49	98.3	97.4	101.0	102.5	166	108		
State	17.9	18.1	4.03	3.89	10.6	11.1	11.7	11.0	0.8	0.8	0.9	1.0	100.68	101.67	99.1	98.8	100.0	101.0	15,232	10,462		
TENNESSEE																						
1	18.1	18.4	3.77	3.64	11.1	10.8	12.5	12.3	0.7	0.9	1.0	1.3	100.72	100.63	98.8	97.9	100.0	98.5	1,666	748		
2	18.5	18.5	3.83	3.64	11.0	10.8	12.3	12.1	0.6	0.9	1.1	1.4	102.66	101.15	99.0	97.8	102.0	99.0	2,756	1,204		
3	18.5	18.8	3.85	3.49	10.9	10.8	12.0	12.2	0.7	2.5	1.1	2.0	102.75	101.30	99.1	92.4	102.0	93.5	214	48		
4	18.5	19.0	3.89	3.54	11.0	10.7	12.1	12.2	0.7	3.1	1.3	2.8	103.23	103.01	99.0	91.4	102.5	93.5	140	34		
5	18.8	18.5	3.64	3.32	12.2	11.5	11.7	12.1	0.9	1.5	2.0	2.2	104.17	102.00	99.0	98.0	103.0	99.5	18	4		
State	18.4	18.5	3.81	3.63	11.0	10.8	12.3	12.2	0.7	1.0	1.1	1.4	102.01	100.99	98.9	97.6	101.0	99.0	4,794	2,038		

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1966 and 1967 (Continued)

ARKANSAS

Dist. No.	Cottonseed analysis														Average index		Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.	
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967
2	19.6	19.5	3.77	3.55	10.0	10.0	11.3	11.1	0.5	0.5	0.8	0.7	105.25	104.00	100.0	100.0	105.0	104.0	8	4
3	18.2	18.0	3.79	3.66	11.3	11.2	12.1	12.1	0.7	0.8	1.1	1.2	101.64	99.83	99.0	98.5	101.0	98.5	3,652	1,762
4	18.2	18.5	3.96	3.75	11.1	10.6	10.5	11.3	0.5	0.6	1.0	1.0	102.20	101.44	99.8	99.6	102.5	101.0	76	36
5	19.1	18.7	3.82	3.64	11.0	10.7	11.0	11.4	0.6	0.6	1.3	1.0	105.24	101.78	99.2	99.4	104.5	101.5	178	100
6	18.3	18.4	3.91	3.77	10.9	11.0	11.9	11.4	0.7	0.7	1.0	1.1	102.42	101.72	99.1	98.9	101.5	101.0	4,048	2,620
7	18.3	17.7	3.94	3.92	10.5	10.3	11.1	10.7	0.8	0.6	1.2	0.7	101.88	98.95	99.4	98.8	101.5	99.0	236	164
8	18.9	18.9	3.84	3.89	10.5	10.1	11.6	10.6	0.6	0.7	1.1	0.9	103.91	103.71	99.2	98.4	103.0	103.5	116	106
9	18.3	17.8	3.93	3.88	10.8	10.9	11.3	10.8	0.6	0.6	0.9	0.7	102.50	99.81	99.5	98.6	102.5	100.0	1,922	1,544
State	18.3	18.1	3.87	3.77	11.0	11.0	11.8	11.4	0.7	0.7	1.0	1.0	102.21	100.69	99.2	99.0	101.5	100.0	10,236	6,336

LOUISIANA

1	18.0	18.0	4.08	4.04	10.2	10.1	11.6	10.0	1.2	0.8	0.3	0.3	100.95	100.71	99.4	99.9	100.5	101.0	564	550
2	17.6	18.1	4.08	3.97	10.1	10.4	12.1	10.1	0.9	0.6	0.5	0.4	99.37	101.00	99.3	99.8	99.0	101.0	252	208
3	17.5	18.3	4.00	3.89	10.6	10.9	12.0	10.1	0.9	0.8	0.5	0.5	99.14	102.02	99.2	99.6	98.5	102.0	2,534	2,118
4	17.7	17.8	4.09	4.03	10.2	10.1	12.0	10.4	1.1	1.0	0.3	0.5	100.15	99.60	99.5	99.8	100.0	99.5	196	162
5	17.9	18.2	3.78	3.70	10.9	10.9	12.9	11.3	2.1	2.0	0.7	0.5	99.59	100.46	96.7	96.8	96.5	97.5	1,452	1,004
6	16.7	17.5	3.68	3.59	11.5	11.1	14.2	12.8	1.7	2.5	0.5	0.7	93.01	97.43	96.2	95.1	88.5	92.5	68	42
7	17.6	18.0	3.61	3.64	11.1	9.9	14.7	14.3	2.6	3.8	0.7	0.6	97.65	97.62	93.7	89.5	92.0	88.0	116	78
8	17.5	17.7	3.69	3.64	11.0	9.8	14.1	14.4	2.3	3.7	0.7	0.6	97.53	96.39	95.0	88.2	92.5	84.0	58	32
State	17.7	18.2	3.94	3.87	10.6	10.7	12.3	10.5	1.3	1.2	0.5	0.5	99.38	101.16	98.3	98.7	98.0	100.0	5,240	4,194

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1966 and 1967 (Continued)

OKLAHOMA

Dist. No.	Cottonseed analysis										Average index				Samples					
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967		
3	17.7	-	4.22	-	10.5	-	9.6	-	0.8	-	1.3	-	101.50	-	99.5	-	101.5	-	2	-
4	17.3	18.3	3.91	4.09	12.1	10.7	8.3	8.4	0.6	0.5	2.3	1.3	99.56	103.26	98.6	99.5	98.5	103.0	354	278
5	17.9	18.6	4.09	4.16	11.1	9.9	8.6	9.3	0.6	0.5	1.6	1.3	102.04	103.61	99.2	99.6	101.5	103.0	98	56
6	18.3	18.3	3.98	4.07	10.9	9.1	9.3	9.6	0.7	1.2	1.7	2.3	102.63	100.00	99.1	98.8	102.0	99.0	20	10
7	18.0	18.1	4.05	4.09	11.7	10.7	8.2	8.5	0.6	0.5	1.4	1.2	103.18	102.17	99.4	99.5	103.0	102.0	1,016	666
8	19.3	18.5	4.16	4.11	10.0	9.0	8.4	9.2	1.0	0.7	1.9	1.7	106.26	100.93	99.0	99.1	105.5	100.5	64	50
9	18.8	18.4	3.89	3.92	10.3	9.8	10.0	10.9	0.6	0.3	1.1	1.0	103.45	100.33	99.8	99.8	103.5	100.5	10	6
State	17.9	18.2	4.02	4.09	11.7	10.6	8.3	8.6	0.6	0.5	1.6	1.3	102.41	102.44	99.2	99.5	102.0	102.0	1,564	1,066

TEXAS

1	18.0	18.2	3.96	3.96	10.4	9.7	7.2	7.9	0.6	0.6	2.6	2.4	100.27	100.02	98.3	98.5	99.0	99.0	9,300	7,350
2	18.1	18.4	4.11	4.05	10.8	10.2	7.5	8.5	0.7	0.6	2.3	2.0	102.26	102.14	98.5	98.7	101.0	101.0	3,552	2,640
3	17.7	17.6	4.03	4.03	11.7	10.5	8.1	9.4	0.9	1.0	1.8	1.7	101.56	99.81	99.2	98.5	101.0	98.5	84	78
4	17.5	16.6	4.18	4.13	11.1	10.7	8.8	9.4	1.2	1.1	1.5	1.7	100.48	96.26	99.1	98.6	100.0	95.0	600	348
5	18.5	17.6	3.93	3.98	10.2	10.0	11.5	11.3	1.3	0.8	1.0	1.0	101.83	98.10	98.1	99.0	100.5	97.5	110	94
6	19.8	20.2	3.92	3.80	11.5	11.6	7.2	8.5	0.5	0.5	2.8	2.9	109.48	110.77	98.0	97.4	107.5	108.5	780	730
7	17.3	17.4	4.29	4.11	11.3	11.5	7.3	8.9	0.7	0.8	1.6	1.7	100.83	100.76	99.3	99.2	100.5	100.0	142	108
8	16.7	15.9	3.81	3.99	13.2	12.6	10.4	9.4	0.6	0.5	1.4	2.2	97.03	95.59	99.4	98.8	97.0	95.0	576	156
9	17.8	16.9	3.65	3.99	11.3	10.8	12.6	12.2	2.3	2.2	1.0	1.4	98.65	96.52	95.4	95.1	94.5	92.0	198	100
10	17.0	17.4	3.95	3.87	12.4	12.7	10.2	9.8	0.5	0.6	0.6	0.6	98.12	100.78	99.7	99.2	98.0	100.0	644	570
State	18.0	18.2	3.99	3.97	10.8	10.2	7.6	8.3	0.6	0.6	2.4	2.2	100.97	100.96	98.4	98.5	99.5	99.5	15,986	12,174

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1966 and 1967 (Continued)

NEW MEXICO

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1966	1967	1966	1967	No.	No.
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967
3	17.8	17.1	3.99	4.02	8.0	7.8	6.9	7.8	0.4	0.5	2.9	2.7	94.98	91.66	98.0	98.0	93.5	89.5	58	44		
7	20.1	20.1	3.77	3.88	10.5	10.3	6.9	6.9	0.5	0.5	2.7	2.8	108.32	108.34	97.5	97.4	106.0	106.0	36	32		
9	19.8	19.7	3.80	3.92	11.6	10.8	7.7	7.7	0.5	0.5	1.7	1.9	108.72	108.71	99.0	99.0	108.0	107.5	346	276		
State	19.6	19.4	3.82	3.93	11.0	10.4	7.6	7.7	0.5	0.5	2.0	2.1	106.87	106.54	98.7	98.7	106.0	105.0	440	352		
ARIZONA																						
5	18.5	18.6	4.26	4.08	10.5	11.2	7.5	7.8	1.6	0.7	1.8	1.2	104.45	105.07	97.8	99.3	102.5	104.5	1,346	1,286		
7	18.7	18.6	4.17	4.03	10.8	10.8	7.8	7.9	1.0	1.8	1.5	1.3	105.51	104.17	98.9	97.6	105.0	102.5	176	188		
9	19.1	19.2	4.04	4.00	11.7	11.5	7.1	7.5	0.8	0.5	1.8	1.5	107.55	107.90	98.6	99.2	106.5	107.0	250	270		
State	18.6	18.7	4.22	4.06	10.7	11.2	7.5	7.8	1.4	0.8	1.7	1.3	104.99	105.41	98.0	99.1	103.5	104.5	1,772	1,744		
CALIFORNIA 1/																						
5	18.1	17.1	4.28	4.11	-	-	10.2	10.7	0.9	0.6	1.1	0.9	103.21	97.47	98.2	99.2	101.5	97.5	246	134		
8	18.3	17.7	4.17	4.18	10.4	11.1	8.2	8.6	2.5	2.0	1.6	1.5	103.21	102.03	94.8	96.9	98.0	99.0	480	340		
State	18.3	17.5	4.21	4.16	10.4	11.1	8.9	9.2	2.0	1.6	1.4	1.3	103.21	100.74	96.0	97.6	99.5	98.5	726	474		

1/ Linters factor not used in determining the grade of cottonseed in North Carolina, South Carolina, Georgia, Districts 5 through 9 in Alabama and District 5 in California.

Table 6. Percentage distribution of quantity index by specified frequencies, by states and United States, 1966 and 1967

State	Quantity Index $\sqrt{}$														Total			
	Under 65	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100-104	105 and over	1966		1967					
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.				
N. C.	-	-	-	-	0.3	0.6	0.1	1.9	2.5	8.4	52.5	34.1	44.9	54.7	100.0	100.0		
S. C.	-	-	-	-	-	-	-	0.4	2.5	1.8	45.0	22.3	52.5	75.5	100.0	100.0		
Ga.	-	0.1	-	-	-	0.2	-	0.2	3.9	2.8	48.7	23.5	47.4	73.2	100.0	100.0		
Fla.	-	-	-	-	-	-	-	-	8.8	4.8	59.7	40.5	31.5	54.7	100.0	100.0		
Ala.	-	-	-	-	-	0.1	0.2	0.8	10.2	8.4	55.0	35.3	34.6	55.4	100.0	100.0		
Miss.	-	-	-	-	0.3	0.2	1.0	4.5	6.7	32.6	21.9	54.8	46.6	7.9	23.5	100.0		
Tenn.	-	-	-	-	0.1	-	0.3	1.6	5.0	19.7	31.1	65.1	51.2	13.6	12.3	100.0		
Mo.	-	-	-	-	0.3	-	0.8	3.3	15.4	36.3	54.5	55.4	23.6	4.7	3.6	100.0		
Ark.	0.1	0.1	0.1	0.1	0.2	0.2	0.9	2.1	7.4	20.9	31.4	57.1	44.4	19.4	15.4	100.0		
La.	-	-	0.1	0.1	0.1	0.7	1.2	8.5	7.2	44.5	28.0	41.7	45.7	4.3	17.9	100.0		
Okla.	-	-	-	0.4	0.9	-	1.5	-	4.3	1.1	12.8	18.5	51.5	62.6	28.6	17.8	100.0	
Tex.	-	-	0.1	0.2	0.6	2.2	2.1	4.3	8.5	9.5	26.1	20.4	42.7	35.5	19.7	27.3	100.0	
N. Mex.	-	-	-	1.1	-	0.9	0.6	1.8	2.8	4.1	3.4	9.1	7.4	19.5	13.7	64.6	71.0	100.0
Ariz.	-	-	-	-	0.1	-	0.1	0.1	1.0	2.3	12.2	11.2	34.1	25.6	52.6	60.7	100.0	
Nev.	-	-	-	-	-	-	-	-	-	-	-	-	-	28.5	100.0	71.5	100.0	
Calif.	-	-	-	-	0.3	0.4	0.8	5.9	6.6	8.0	19.8	25.4	28.2	37.1	44.3	23.2	100.0	
All other	-	-	-	-	-	-	-	4.9	-	14.6	25.0	63.4	37.5	17.1	37.5	100.0	100.0	
U. S.	-	-	-	0.1	0.2	0.7	1.8	4.2	6.5	23.6	21.5	50.5	40.1	20.7	29.1	100.0	100.0	

1/ Linters factor not used in determining the grade of cottonseed in Virginia, North Carolina, South Carolina, Georgia, Florida, Districts 5 through 9 in Alabama and District 5 in California.
 * Less than 0.05 percent.

Table 7. Percentage distribution of quality index by specified frequencies, by states and United States, 1966 and 1967

State	Quality Index														Total				
	Below grade		Below prime quality						Prime quality 100						1966	1967			
	1966	1967	40.0-49.9	50.0-69.9	70.0-79.9	80.0-84.9	85.0-89.9	90.0-94.9	95.0-99.9	1966	1967	1966	1967						
Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.						
N. C.	-	-	-	0.1	-	0.6	0.1	0.3	-	0.9	0.7	3.4	36.0	51.1	63.1	43.7	100.0	100.0	
S. C.	-	-	-	-	0.4	0.3	-	-	1.0	0.2	3.4	1.2	34.4	47.5	60.7	50.7	100.0	100.0	
Ga.	-	-	-	0.1	0.2	0.4	0.2	0.8	1.3	1.7	3.5	4.5	48.9	26.9	45.1	65.7	100.0	100.0	
Fla.	-	-	-	1.8	-	5.3	-	3.5	4.8	5.3	9.5	10.5	16.7	42.1	47.6	31.5	21.4	100.0	100.0
Ala.	-	-	-	0.2	2.0	0.6	3.3	1.0	5.9	1.8	7.2	4.0	11.0	60.0	48.5	32.4	22.1	100.0	100.0
Miss.	-	*	*	*	0.2	0.1	0.5	0.2	0.5	0.2	1.2	1.2	3.6	55.1	37.5	43.2	56.5	100.0	100.0
Tenn.	-	-	-	-	0.6	-	1.5	0.1	1.4	0.2	2.6	1.3	5.3	72.6	63.0	25.8	25.6	100.0	100.0
Mo.	-	-	0.1	-	0.3	0.5	0.1	-	0.5	0.4	1.0	1.6	5.4	66.3	76.4	31.2	16.2	100.0	100.0
Ark.	-	-	-	*	*	*	0.1	0.1	0.4	0.4	0.8	1.7	3.2	52.0	42.5	45.8	53.0	100.0	100.0
La.	0.1	-	*	0.1	0.1	0.6	0.7	0.3	1.7	1.3	2.1	4.9	3.4	50.7	18.3	42.0	73.7	100.0	100.0
Okla.	-	-	-	-	-	-	-	-	0.3	0.2	1.6	0.6	56.4	48.5	39.7	50.7	100.0	100.0	
Tex.	-	-	-	*	0.1	0.2	0.1	0.2	0.5	0.6	3.3	3.3	80.6	74.0	15.4	21.7	100.0	100.0	
N. Mex.	-	-	-	-	-	0.5	-	-	0.6	0.5	1.1	3.7	2.2	51.0	58.5	44.3	37.6	100.0	100.0
Ariz.	-	-	-	-	0.1	0.6	0.1	0.9	0.2	4.1	0.9	8.1	3.9	39.0	29.4	47.3	65.4	100.0	100.0
Nev.	-	-	-	-	-	-	-	-	-	-	-	-	-	37.5	57.1	62.5	42.9	100.0	100.0
Calif.	-	-	-	1.4	0.4	3.0	1.7	2.5	1.7	6.1	3.4	11.8	6.3	35.5	43.5	39.7	43.0	100.0	100.0
All other	-	-	-	-	-	-	-	-	-	-	-	2.4	12.5	61.0	50.0	36.6	37.5	100.0	100.0
U. S.	*	*	*	0.1	0.2	0.2	0.6	0.3	0.8	0.7	1.4	2.7	4.0	60.0	48.6	36.0	44.4	100.0	100.0

* Less than 0.05 percent.

Table 8. Percentage distribution of grades by specified frequencies, by states and United States, 1966 and 1967

State	Grade ^{1/}														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			
	1966	Pct.	1966	Pct.	1966	Pct.	1966	Pct.	1966	Pct.	1966	Pct.	1966	Pct.	1966	Pct.	1966	Pct.	1966	Pct.	1966	Pct.
N. C.	-	-	0.1	0.6	-	0.3	-	-	0.1	1.9	0.4	1.8	5.6	12.2	47.6	33.5	45.5	43.7	0.7	6.0	100.0	100.0
S. C.	-	-	0.1	0.4	-	-	0.4	-	0.4	0.2	1.6	0.8	5.8	3.6	41.3	23.3	49.4	64.0	1.0	7.7	100.0	100.0
Ja.	-	-	0.2	0.5	0.3	-	0.4	0.2	0.9	0.6	1.6	2.9	9.0	6.9	44.8	21.6	41.4	53.0	1.4	14.3	100.0	100.0
Fla.	-	-	3.5	-	3.5	-	1.8	2.4	7.0	4.8	5.3	16.7	15.7	9.5	40.4	30.9	21.0	26.2	1.8	9.5	100.0	100.0
Ala.	-	-	0.4	2.5	0.4	2.0	0.8	3.4	1.2	5.0	4.8	9.0	14.3	14.6	46.9	26.3	30.4	32.6	0.8	4.6	100.0	100.0
Miss.	-	*	0.2	0.4	0.1	0.5	0.2	1.0	1.3	3.2	7.6	8.6	32.4	19.8	50.6	43.9	7.5	21.8	0.1	0.8	100.0	100.0
Tenn.	-	-	1.1	0.1	0.9	0.1	1.6	0.6	4.0	5.3	9.8	25.1	32.3	55.9	40.0	12.8	10.1	0.1	0.2	100.0	100.0	
Mo.	-	-	0.4	0.5	-	0.5	0.3	1.8	1.6	5.4	7.6	23.4	36.5	48.9	48.6	17.4	5.0	2.1	-	-	100.0	100.0
Ark.	-	-	0.2	0.3	0.1	0.3	0.2	0.7	1.2	2.4	4.3	10.2	23.3	30.4	51.7	40.9	17.2	14.2	1.8	0.6	100.0	100.0
La.	0.1	-	0.7	0.5	0.5	1.0	1.1	2.0	3.6	3.2	13.2	8.8	41.1	23.9	35.5	41.5	4.0	17.8	0.2	1.3	100.0	100.0
Okla.	-	-	0.4	-	0.8	-	0.9	-	2.0	0.2	5.2	2.1	15.2	20.7	49.0	60.1	25.9	16.7	0.6	0.2	100.0	100.0
Tex.	-	-	0.3	0.8	0.4	1.3	1.3	2.8	3.5	5.7	11.9	11.3	30.5	21.1	37.0	33.2	12.1	18.3	3.0	5.5	100.0	100.0
N. Mex.	-	-	1.1	0.9	-	1.8	2.3	0.5	2.3	8.2	7.3	12.7	7.4	14.6	13.6	21.4	33.5	39.9	32.5	100.0	100.0	100.0
Ariz.	-	-	0.2	0.7	0.1	1.6	0.5	3.4	1.6	6.1	4.0	14.8	11.8	22.4	23.2	41.1	45.8	9.9	12.8	100.0	100.0	100.0
Nev.	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1	-	28.5	12.5	35.8	87.5	28.6	100.0	100.0
Calif.	-	-	2.8	1.3	2.8	1.3	3.3	3.8	4.7	8.4	12.4	11.0	15.9	19.0	21.7	33.4	31.4	19.3	5.0	2.5	100.0	100.0
All other	-	-	-	-	-	-	2.4	-	-	4.9	12.5	14.6	12.5	61.0	50.0	17.1	25.0	-	-	100.0	100.0	100.0
U. S.	*	*	0.3	0.6	0.3	0.8	0.7	1.6	1.9	3.6	7.5	9.1	25.6	21.3	44.7	36.5	17.2	22.7	1.8	3.8	100.0	100.0

^{1/} Linters factor not used in determining the grade of cottonseed in Virginia, North Carolina, South Carolina, Georgia, Florida, Districts 5 through 9 in Alabama and District 5 in California.
 * Less than 0.05 percent.

Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1966 and 1967

State	Oil																				Total			
	Under 15.0	15.0	16.0-	16.5-	17.0-	17.5-	18.0-	18.5-	19.0-	20.0-	21.0	20.0- and over		Total										
	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.								
N. C.	0.3	-	0.9	-	0.6	0.2	0.6	0.7	2.5	4.1	4.4	15.5	6.8	25.4	12.2	48.2	39.9	5.9	23.8	-	6.0	100.0	100.0	
S. C.	-	-	-	-	0.2	-	0.2	0.7	1.2	4.3	1.0	15.5	3.5	32.7	11.5	44.0	55.2	2.6	27.2	-	0.4	100.0	100.0	
Ga.	0.2	-	0.1	-	-	0.2	0.3	1.0	0.3	5.2	2.9	16.2	5.9	30.6	13.5	43.8	54.5	2.9	21.1	0.1	1.2	100.0	100.0	
Fla.	-	-	-	-	-	-	3.5	-	3.5	12.3	-	21.1	14.3	42.0	23.8	21.1	52.4	-	9.5	-	-	100.0	100.0	
Ala.	-	-	0.1	0.2	0.1	0.6	0.6	4.5	1.4	13.1	4.4	23.6	9.3	28.3	14.5	27.8	47.7	1.9	19.2	-	2.7	100.0	100.0	
Miss.	0.2	0.9	1.5	3.2	3.0	4.3	7.7	6.8	16.0	10.0	25.5	15.2	23.7	17.5	14.5	17.4	7.7	20.8	0.2	3.7	*	0.2	100.0	100.0
Tenn.	-	-	0.2	0.4	0.8	0.8	2.1	2.2	6.8	6.3	15.6	13.5	27.9	25.2	27.6	24.6	18.2	23.7	0.8	3.3	-	-	100.0	100.0
Mo.	-	1.5	0.5	4.1	1.9	4.9	6.0	12.3	15.6	18.5	24.6	26.0	24.2	18.2	18.2	7.7	8.2	5.2	0.5	1.3	0.3	0.3	100.0	100.0
Ark.	0.4	0.6	1.0	2.3	1.3	3.0	3.4	6.5	8.8	11.8	17.7	16.8	23.9	19.7	21.8	17.9	17.6	17.6	3.6	3.6	0.5	0.2	100.0	100.0
La.	0.6	0.7	1.8	2.4	5.0	3.5	10.3	6.9	19.4	10.7	25.5	14.0	20.1	19.0	12.2	18.8	4.7	20.8	0.3	2.9	0.1	0.3	100.0	100.0
Okla.	2.8	-	3.7	0.4	2.6	1.1	5.1	5.8	11.9	9.2	20.8	18.4	21.5	28.5	16.8	22.1	12.9	12.0	1.9	2.3	-	0.2	100.0	100.0
Tex.	1.0	2.1	3.3	4.5	4.0	3.9	7.2	5.3	12.3	8.4	18.9	12.3	21.1	16.7	15.8	16.9	12.6	21.6	2.5	5.7	1.3	2.6	100.0	100.0
N. Mex.	0.9	1.7	0.9	2.3	-	0.6	0.9	2.3	4.1	2.8	8.6	6.8	8.6	4.0	7.7	8.0	18.2	28.9	31.8	30.7	18.3	11.9	100.0	100.0
Ariz.	0.1	0.2	0.6	0.7	1.2	2.2	3.2	3.9	7.9	7.0	14.0	8.8	17.0	12.6	18.3	17.0	30.0	38.4	6.5	7.4	1.2	1.8	100.0	100.0
Nev.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5	21.4	12.5	50.0	75.0	14.3	-	14.3	100.0	100.0
Calif.	0.3	1.7	2.5	9.7	3.3	8.9	8.5	11.4	12.1	15.2	6.6	13.1	13.8	17.6	20.9	9.3	30.6	12.7	1.4	-	-	0.4	100.0	100.0
All other	-	-	-	-	2.4	-	-	-	4.9	-	12.2	25.0	17.1	-	39.0	-	24.4	62.5	-	12.5	-	-	100.0	100.0
U. S.	0.4	1.0	1.5	2.7	2.3	3.1	5.2	5.2	10.9	8.5	18.4	12.8	22.0	16.7	19.5	17.0	17.1	24.9	2.2	6.8	0.5	1.3	100.0	100.0

* Less than 0.05 percent.

Table 10. Percentage distribution of ammonia by specified frequencies, by states and United States, 1966 and 1967

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		4.15 and over				
	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.	1966 Pct.	1967 Pct.			
N. C.	-	0.3	0.1	0.6	-	0.6	-	5.6	1.3	16.9	5.5	19.1	21.9	25.4	30.0	21.6	23.7	5.6	17.5	4.3	100.0	100.0	
S. C.	-	-	-	-	-	-	-	0.2	0.6	0.2	1.9	6.7	7.1	24.4	18.7	40.5	32.9	24.4	38.8	3.6	100.0	100.0	
Ga.	-	-	-	0.1	-	0.8	0.1	0.8	1.0	1.2	4.5	4.9	10.4	10.5	22.2	24.2	33.5	37.1	28.3	21.2	100.0	100.0	
Fla.	-	-	-	-	-	-	-	-	-	2.4	-	4.8	7.0	14.3	17.5	42.8	36.9	33.3	38.6	2.4	100.0	100.0	
Ala.	-	0.1	-	0.1	-	0.6	0.2	5.3	0.3	14.6	3.0	19.7	12.9	21.5	32.5	22.9	33.7	10.8	17.4	4.4	100.0	100.0	
Miss.	-	-	-	0.1	-	0.2	*	1.7	0.3	5.7	2.3	12.3	10.5	18.3	26.4	28.0	37.5	23.6	23.0	10.1	100.0	100.0	
Tenn.	-	-	*	0.4	-	0.2	0.2	3.5	3.3	20.7	17.5	44.7	36.3	24.8	32.3	4.9	9.6	0.5	0.8	0.3	100.0	100.0	
Mo.	-	-	-	0.3	-	-	-	0.5	3.6	6.4	19.0	28.2	47.3	33.2	22.6	23.8	5.4	6.6	1.0	1.3	0.8	100.0	100.0
Ark.	-	-	-	0.1	-	0.2	0.1	1.3	3.4	9.0	13.5	25.5	25.3	30.2	33.0	22.9	18.5	8.8	6.1	2.0	100.0	100.0	
Ia.	-	*	*	-	0.2	0.1	0.8	2.1	3.6	5.4	9.7	15.2	16.9	20.9	22.8	25.5	29.3	22.1	16.7	8.7	100.0	100.0	
Okla.	-	-	-	-	0.3	-	0.6	0.2	1.5	-	5.0	1.1	10.5	4.9	25.4	18.6	27.9	36.8	28.8	38.4	100.0	100.0	
Tex.	*	*	*	*	0.1	0.2	0.2	0.2	1.0	1.3	4.7	4.9	16.0	15.7	29.0	30.2	27.8	30.9	21.3	16.7	100.0	100.0	
N. Mex.	-	-	-	-	0.6	0.5	-	2.7	0.6	18.6	6.8	36.0	16.5	30.0	37.4	8.6	33.5	3.6	4.6	100.0	100.0	100.0	
Ariz.	-	-	-	-	-	-	-	0.5	0.1	0.2	1.9	2.6	4.5	7.8	5.4	19.5	15.0	37.0	73.1	32.4	100.0	100.0	
Nev.	-	-	-	-	-	-	-	-	-	7.1	-	35.7	12.5	35.8	37.5	14.3	50.0	7.1	-	-	100.0	100.0	
Calif.	-	-	-	-	-	-	-	1.3	-	0.8	0.3	0.8	1.7	4.6	8.0	10.1	27.3	21.5	62.7	60.9	100.0	100.0	
All other	-	-	-	12.5	-	-	2.4	-	9.8	37.5	9.8	12.5	29.3	25.0	31.6	12.5	12.2	-	4.9	-	100.0	100.0	
U. S.	*	*	*	0.1	*	0.1	0.2	1.4	1.7	5.7	7.2	13.7	17.0	19.1	27.4	25.5	27.1	22.5	19.4	11.9	100.0	100.0	

* Less than 0.05 percent.

Table 11. Percentage distribution of linters by specified frequencies, by states and United States, 1966 and 1967

State	Linters																					
	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		Total			
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967		
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fla.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ala.	-	-	1.1	0.4	10.6	6.7	37.9	42.1	38.8	38.9	10.9	11.3	0.6	0.6	0.1	-	-	-	-	-	100.0	100.0
Miss.	0.1	*	3.3	1.4	20.0	8.4	40.9	32.6	28.3	39.2	6.6	16.1	0.7	2.2	0.1	0.1	-	-	*	100.0	100.0	
Tenn.	-	-	0.7	0.4	9.1	10.1	36.9	52.3	38.8	32.4	13.3	4.6	1.2	0.2	*	-	-	-	-	-	100.0	100.0
Mo.	0.4	0.5	0.6	0.8	6.0	4.9	25.5	39.5	43.4	40.2	19.8	11.3	4.2	2.8	0.1	-	-	-	-	-	100.0	100.0
Ark.	0.1	0.2	1.9	1.5	10.8	11.6	34.3	36.3	34.9	36.0	14.9	12.5	2.8	1.9	0.3	*	-	-	-	-	100.0	100.0
La.	*	-	3.9	4.0	21.3	21.2	35.8	35.2	30.1	25.6	8.4	11.0	0.5	2.9	-	0.1	-	-	*	100.0	100.0	
Okla.	0.3	0.9	2.8	6.2	5.0	15.9	14.8	41.1	36.0	28.9	30.4	6.6	8.3	0.4	2.4	-	-	-	-	-	100.0	100.0
Tex.	1.7	5.1	13.3	20.3	15.0	17.7	20.2	22.4	23.2	17.6	18.0	11.7	7.3	4.6	1.3	0.6	-	-	-	-	100.0	100.0
N. Mex.	4.5	4.5	9.5	8.5	7.3	20.5	15.0	30.1	30.1	25.0	24.1	9.1	9.5	2.3	-	-	-	-	-	-	100.0	100.0
Ariz.	-	-	1.8	0.6	19.2	9.2	41.4	33.9	28.1	36.8	7.6	13.0	1.8	5.8	0.1	0.7	-	-	-	-	100.0	100.0
Nev.	-	-	-	-	-	-	-	21.4	-	42.9	25.0	28.6	75.0	7.1	-	-	-	-	-	-	100.0	100.0
Calif.	-	-	5.0	1.2	22.5	7.6	45.5	33.5	23.7	40.6	2.9	15.3	-	1.2	0.4	0.6	-	-	-	-	100.0	100.0
All other	-	-	-	-	-	-	30.8	50.0	53.8	-	15.4	50.0	-	-	-	-	-	-	-	-	100.0	100.0
U. S.	0.5	1.6	5.3	7.5	14.9	13.3	32.1	32.0	30.4	30.0	13.1	12.4	3.2	2.9	0.5	0.3	-	-	*	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, 1966

State	Moisture														Total
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0	5.1	7.1	9.1	10.1	11.1	12.1	14.1	16.1	18.1	20.1 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
N. C.	80.7	19.3	-	-	-	1.6	14.7	35.9	28.5	15.4	3.4	0.5	-	-	100.0
S. C.	80.0	20.0	-	-	3.5	15.6	33.3	27.6	18.2	1.7	0.1	-	-	-	100.0
Ga.	65.0	35.0	-	-	1.1	9.3	25.2	29.4	31.2	3.4	0.3	0.1	-	-	100.0
Fla.	47.4	52.6	-	-	-	1.8	15.8	29.8	45.5	5.3	-	1.8	-	-	100.0
Ala.	59.2	40.8	-	-	0.7	5.0	21.1	32.4	35.0	5.1	0.5	0.2	-	-	100.0
Miss.	67.1	32.9	*	*	0.5	8.7	28.3	29.6	25.5	6.3	1.1	*	*	*	100.0
Tenn.	47.7	52.3	-	-	-	1.3	15.2	31.2	41.4	9.2	1.7	-	-	-	100.0
Mo.	40.9	59.0	0.1	-	0.2	1.2	10.1	29.4	50.4	6.9	1.4	0.3	0.1	0.1	100.0
Ark.	64.9	35.1	*	*	0.3	4.7	25.3	34.6	28.6	5.3	0.9	0.3	*	*	100.0
La.	50.0	49.9	0.1	-	0.2	3.6	17.4	28.8	38.1	8.4	2.7	0.7	0.1	0.1	100.0
Okla.	99.7	0.3	-	-	0.3	88.7	8.4	1.9	0.4	0.3	-	-	-	-	100.0
Tex.	98.5	1.5	-	*	34.3	54.1	4.9	3.5	1.7	1.0	0.4	0.1	-	-	100.0
N. Mex.	100.0	-	-	-	46.8	37.2	10.0	5.5	0.5	-	-	-	-	-	100.0
Ariz.	96.2	1.8	-	0.9	41.8	47.1	4.0	3.0	1.4	0.9	0.8	0.1	-	-	100.0
Nev.	100.0	-	-	12.5	87.5	-	-	-	-	-	-	-	-	-	100.0
Calif.	89.2	10.8	-	0.3	5.6	69.0	8.8	2.5	3.0	7.5	2.5	0.8	-	-	100.0
All other	68.3	31.7	-	-	2.4	17.1	9.8	39.0	26.9	-	2.4	2.4	-	-	100.0
U. S.	72.5	27.5	*	*	9.1	16.7	6.2	18.1	22.4	22.2	4.4	0.8	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, 1967

State	Moisture											Total			
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	Pct.	5.1	7.1	9.1	10.1	11.1	12.1	14.1		16.1	18.1	20.1 and over
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
N. C.	85.0	15.0	-	0.0	5.1	7.1	9.1	10.1	11.1	12.1	14.1	16.1	18.1	20.1	100.0
S. C.	86.0	14.0	-	-	-	16.4	23.2	28.5	17.9	11.9	1.5	0.6	-	-	100.0
Ga.	85.8	14.0	0.2	-	-	16.7	34.9	22.8	11.4	11.4	2.4	0.2	-	0.2	100.0
Fla.	85.7	14.3	-	2.4	-	-	31.0	33.3	19.0	9.5	-	4.8	-	-	100.0
Ala.	70.2	29.8	-	-	-	3.6	15.2	29.4	22.0	20.4	6.1	2.8	0.5	-	100.0
Miss.	81.4	18.5	0.1	*	-	5.1	26.6	32.0	17.7	12.6	4.1	1.4	0.4	0.1	100.0
Tenn.	52.1	47.9	-	-	-	0.3	3.7	20.2	27.9	35.8	9.7	2.1	0.3	-	100.0
Mo.	34.4	65.6	-	-	-	0.5	2.1	10.3	21.5	55.3	9.0	1.3	-	-	100.0
Ark.	70.7	29.2	0.1	-	-	2.7	16.9	25.5	25.6	23.5	5.1	0.5	0.1	0.1	100.0
La.	84.6	15.3	0.1	0.1	-	13.7	35.9	23.9	11.0	10.0	3.8	1.0	0.5	0.1	100.0
Okla.	99.0	1.0	-	-	0.9	73.9	17.4	4.5	2.3	1.0	-	-	-	-	100.0
Tex.	97.1	2.8	0.1	*	15.5	61.9	13.0	4.7	2.0	2.0	0.6	0.1	0.1	0.1	100.0
N. Mex.	99.4	0.6	-	-	31.8	56.8	7.4	1.7	1.7	0.6	-	-	-	-	100.0
Ariz.	97.5	2.5	-	0.5	45.9	32.7	10.2	5.0	3.2	1.9	0.4	0.2	-	-	100.0
Nev.	100.0	-	-	7.1	28.5	64.4	-	-	-	-	-	-	-	-	100.0
Calif.	86.4	13.6	-	-	14.8	44.6	14.3	9.3	3.4	6.8	5.5	1.3	-	-	100.0
All other	87.5	12.5	-	-	-	-	25.0	37.5	25.0	12.5	-	-	-	-	100.0
U. S.	83.3	16.6	0.1	0.1	6.4	24.5	19.7	19.3	13.3	12.3	3.3	0.8	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, 1966

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.		Pct.	
N. C.	97.3	2.6	0.1	13.5	72.0	9.4	2.4	2.0	0.5	0.1	-	-	-	0.1	100.0		
S. C.	87.8	12.2	-	9.9	47.3	22.1	8.5	7.4	4.2	0.4	0.2	-	-	-	100.0		
Ga.	83.3	16.6	0.1	3.2	52.0	20.2	7.9	10.9	3.9	1.4	0.2	0.2	-	0.1	100.0		
Fla.	66.5	33.5	-	-	31.5	24.5	10.5	10.6	10.5	5.3	3.5	1.8	1.8	-	100.0		
Ala.	87.2	12.8	-	4.6	51.7	25.1	5.8	5.8	4.7	1.7	0.3	0.2	0.1	-	100.0		
Miss.	96.8	3.2	*	20.2	58.4	15.0	3.2	2.0	0.9	0.2	0.1	*	-	*	100.0		
Tenn.	99.0	1.0	-	22.0	67.4	8.4	1.2	0.5	0.4	0.1	-	-	*	-	100.0		
Mo.	97.6	2.3	0.1	22.5	66.1	7.5	1.5	1.1	0.7	0.1	0.2	0.2	-	0.1	100.0		
Ark.	98.5	1.5	-	22.3	65.6	8.8	1.8	0.7	0.6	0.2	-	-	*	-	100.0		
La.	81.2	18.7	0.1	5.0	41.2	23.7	11.3	14.1	3.6	0.4	0.5	0.1	-	0.1	100.0		
Okla.	98.9	1.1	-	47.6	38.8	9.9	2.6	1.1	-	-	-	-	-	-	100.0		
Tex.	98.0	2.0	*	37.5	50.2	8.6	1.7	1.3	0.6	0.1	*	-	-	*	100.0		
N. Mex.	99.5	0.5	-	60.9	35.9	1.8	0.9	0.5	-	-	-	-	-	-	100.0		
Ariz.	75.4	24.6	-	8.7	32.1	22.4	12.2	16.9	6.5	1.0	0.2	-	-	-	100.0		
Nev.	100.0	-	-	12.5	75.0	-	12.5	-	-	-	-	-	-	-	100.0		
Calif.	62.7	37.3	-	22.8	22.6	10.4	6.9	14.4	13.5	5.8	3.0	0.3	0.3	-	100.0		
All other	100.0	-	-	14.6	63.5	19.5	2.4	-	-	-	-	-	-	-	100.0		
U. S.	93.9	6.1	*	21.6	54.8	13.6	3.9	3.7	1.7	0.4	0.2	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, 1967

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		Total
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		Percent
N. C.	88.4	11.6	-	33.0	40.7	8.7	6.0	6.3	4.4	0.6	-	0.3	-	-	100.0	
S. C.	96.8	3.2	-	46.3	40.3	7.9	2.3	2.0	0.6	0.2	-	0.2	0.2	-	100.0	
Ga.	84.5	15.5	-	8.1	45.5	21.4	9.5	8.6	5.6	0.9	0.2	0.2	-	-	100.0	
Fla.	50.1	49.9	-	2.4	31.1	9.5	7.1	19.0	19.0	11.9	-	-	-	-	100.0	
Ala.	58.4	41.5	0.1	6.3	25.8	16.4	9.9	14.5	14.6	8.2	2.0	1.8	0.4	0.1	100.0	
Miss.	91.9	8.0	0.1	56.1	26.8	6.2	2.8	3.8	3.0	0.8	0.3	0.1	*	0.1	100.0	
Tenn.	88.0	12.0	-	50.7	28.9	5.8	2.6	3.9	4.5	2.2	0.8	0.5	0.1	-	100.0	
Mo.	87.3	12.4	0.3	42.9	34.9	6.9	2.6	6.2	5.6	0.3	-	0.3	-	0.3	100.0	
Ark.	94.8	5.2	-	47.2	40.5	4.5	2.6	2.8	1.9	0.4	0.1	*	-	-	100.0	
Ia.	85.0	14.9	0.1	20.5	43.5	14.6	6.4	8.0	4.5	1.9	0.5	*	-	0.1	100.0	
Okla.	98.8	1.2	-	59.3	34.5	3.5	1.5	1.0	0.2	-	-	-	-	-	100.0	
Tex.	98.2	1.8	-	40.4	52.0	4.5	1.3	1.1	0.4	0.1	0.2	*	-	-	100.0	
N. Mex.	100.0	-	-	54.5	41.5	4.0	-	-	-	-	-	-	-	-	100.0	
Ariz.	93.0	7.0	-	40.3	38.6	10.5	3.6	4.7	2.1	0.2	-	-	-	-	100.0	
Nev.	100.0	-	-	35.8	35.7	21.4	7.1	-	-	-	-	-	-	-	100.0	
Calif.	68.5	31.5	-	13.9	27.6	17.7	9.3	19.4	8.4	2.5	0.8	0.4	-	-	100.0	
All other	75.0	25.0	-	-	37.5	25.0	12.5	12.5	12.5	-	-	-	-	-	100.0	
U. S.	91.2	8.6	*	40.8	39.2	7.8	3.4	4.2	3.0	1.1	0.3	0.2	*	*	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, 1966

State	Foreign matter														Total
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0	0.6	1.1	2.1	3.1	4.1	5.6	7.1	8.6	10.1 and over	Total	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
N. C.	80.4	19.6	-	45.9	34.5	16.2	2.9	0.2	0.2	0.1	-	-	-	100.0	
S. C.	85.3	14.7	-	47.9	37.4	12.8	1.2	0.3	0.1	0.2	0.1	-	-	100.0	
Ga.	87.0	13.0	-	55.0	32.0	10.3	1.8	0.7	0.1	-	0.1	-	-	100.0	
Fla.	91.1	8.9	-	59.6	31.5	7.1	1.8	-	-	-	-	-	-	100.0	
Ala.	66.5	33.5	*	33.1	33.4	26.0	5.7	1.1	0.6	0.1	*	-	*	100.0	
Miss.	70.6	29.3	0.1	34.6	36.0	24.5	3.5	0.8	0.3	0.1	0.1	*	0.1	100.0	
Tenn.	60.7	39.3	-	21.8	38.9	30.5	6.2	1.9	0.5	0.1	*	0.1	-	100.0	
Mo.	77.1	22.8	0.1	31.3	45.8	18.0	3.4	1.0	0.3	0.1	-	-	0.1	100.0	
Ark.	71.4	28.4	0.2	24.9	46.5	21.1	4.9	1.2	0.7	0.3	0.2	*	0.2	100.0	
La.	91.9	8.1	-	62.7	29.2	6.5	1.1	0.4	0.1	-	-	-	-	100.0	
Okla.	39.8	59.9	0.3	14.1	25.7	37.2	13.2	4.6	2.9	1.5	0.5	-	0.3	100.0	
Tex.	16.9	82.6	0.5	5.1	11.8	35.5	23.8	12.5	7.4	2.0	0.9	0.5	0.5	100.0	
N. Mex.	44.6	54.5	0.9	26.9	17.7	19.5	16.4	7.3	5.9	3.6	1.8	-	0.9	100.0	
Ariz.	51.7	47.8	0.5	17.3	34.4	21.8	10.7	5.9	5.0	3.0	1.2	0.2	0.5	100.0	
Nev.	62.5	37.5	-	12.5	50.0	25.0	12.5	-	-	-	-	-	-	100.0	
Calif.	55.2	44.5	0.3	16.0	39.2	27.2	10.2	2.8	1.7	1.7	0.6	0.3	0.3	100.0	
All other	56.2	43.8	-	12.2	44.0	34.1	7.3	2.4	-	-	-	-	-	100.0	
U. S.	59.5	40.3	0.2	28.1	31.4	24.4	8.8	3.8	2.2	0.7	0.3	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, 1967

State	Foreign matter													
	Prime quality 0-1.0 Pct.	Below prime quality 1.1-10.0 Pct.	Off quality 10.1 and over Pct.	0 Pct.	0.6 Pct.	1.1 Pct.	2.1 Pct.	3.1 Pct.	4.1 Pct.	5.6 Pct.	7.1 Pct.	8.6 Pct.	10.1 and over Pct.	Total Pct.
N. C.	57.6	42.4	-	23.8	33.8	30.2	9.1	1.9	0.6	0.6	-	-	-	100.0
S. C.	64.2	35.8	-	31.0	33.2	29.8	4.4	0.8	0.4	0.2	0.2	-	-	100.0
Ga.	84.1	15.9	-	45.3	38.8	13.2	2.1	0.3	0.1	0.1	-	0.1	-	100.0
Fla.	64.4	35.6	-	21.5	42.9	35.6	-	-	-	-	-	-	-	100.0
Ala.	51.2	48.5	0.3	26.4	24.8	35.7	8.4	2.4	1.4	0.4	0.2	-	0.3	100.0
Miss.	68.3	31.7	-	33.0	35.3	24.8	5.0	1.3	0.5	0.1	*	-	-	100.0
Tenn.	49.0	50.9	0.1	13.6	35.4	35.6	10.0	2.6	1.8	0.5	0.3	0.1	0.1	100.0
Mo.	66.3	33.7	-	25.0	41.3	26.4	4.9	1.8	0.3	0.3	-	-	-	100.0
Ark.	70.0	30.0	*	27.8	42.2	21.4	5.4	1.9	0.8	0.3	0.1	0.1	*	100.0
La.	93.5	6.5	-	65.6	27.9	5.8	0.6	0.1	-	-	-	-	-	100.0
Okla.	51.3	48.3	0.4	16.0	35.3	34.6	10.5	1.7	1.3	0.2	-	-	0.4	100.0
Tex.	22.5	77.0	0.5	6.7	15.8	36.3	21.8	9.4	6.0	2.0	0.9	0.6	0.5	100.0
N. Mex.	35.7	61.5	2.8	13.6	22.1	29.1	14.2	10.2	5.7	1.7	0.6	-	2.8	100.0
Ariz.	67.7	32.0	0.3	36.1	31.6	16.9	6.4	4.0	2.2	1.9	0.3	0.3	0.3	100.0
Nev.	42.8	57.2	-	21.4	21.4	43.0	7.1	-	-	-	7.1	-	-	100.0
Calif.	58.6	41.4	-	17.8	40.8	28.3	6.3	3.0	0.4	3.0	-	0.4	-	100.0
All other	62.5	37.5	-	12.5	50.0	12.5	12.5	12.5	-	-	-	-	-	100.0
U. S.	56.5	43.3	0.2	26.6	29.9	26.4	9.7	3.7	2.2	0.8	0.3	0.2	0.2	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, 1966 and 1967

State	Quality				Total samples graded				Reduced due to excess					
	Prime		Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acids		Foreign matter	
	1966 Number	1967 Number	1966 Number	1967 Number	1966 Number	1967 Number	1966 Number	1967 Number	1966 Number	1967 Number	1966 Number	1967 Number	1966 Number	1967 Number
N. C.	1,088	278	636	360	-	-	1,724	638	332	96	46	74	340	270
S. C.	1,480	530	964	512	-	-	2,444	1,042	488	146	302	32	358	372
Ga.	1,496	1,346	1,816	698	-	-	3,312	2,044	1,160	290	554	314	430	324
Fla.	36	18	78	66	-	-	114	84	60	12	38	42	10	30
Ala.	1,668	522	3,474	1,844	-	-	5,142	2,366	2,096	706	656	986	1,726	1,156
Miss.	6,572	5,906	8,660	4,554	-	2	15,232	10,462	5,010	1,944	478	842	4,486	3,322
Tenn.	1,238	522	3,556	1,516	-	-	4,794	2,038	2,502	974	48	242	1,882	1,038
Mo.	702	126	1,546	654	-	-	2,248	780	1,330	512	54	98	514	262
Ark.	4,686	3,364	5,550	2,972	-	-	10,236	6,336	3,584	1,858	144	334	2,928	1,902
Ia.	2,196	3,090	3,040	1,104	4	-	5,240	4,194	2,628	652	982	628	426	272
Okla.	620	542	944	524	-	-	1,564	1,066	4	10	18	12	940	520
Tex.	2,462	2,642	13,524	9,532	-	-	15,986	12,174	236	366	328	234	13,274	9,428
N. Mex.	196	132	244	220	-	-	440	352	-	2	2	-	244	226
Ariz.	838	1,140	934	604	-	-	1,772	1,744	32	44	438	122	856	568
Nev.	10	12	6	16	-	-	16	28	-	-	-	-	6	16
Calif.	288	204	438	270	-	-	726	474	78	64	270	150	324	196
All other	30	6	52	10	-	-	82	16	26	2	-	4	36	6
U. S.	25,606	20,380	45,462	25,456	4	2	71,072	45,838	19,566	7,678	4,358	4,114	26,780	19,908

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