

COTTONSEED QUALITY

CROP OF 1966



UNITED STATES DEPARTMENT OF AGRICULTURE
Consumer and Marketing Service Cotton Division
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Cottonseed Quality - 1966 Crop

The average grade of cottonseed in the 1966-67 season was up moderately from the preceding year and the five-year 1961-65 average. The average oil content of seed from the 1966 crop was slightly higher than a year earlier while the average ammonia content was somewhat lower. The average linters content was up slightly from the previous year. Moisture and free fatty acids averaged lower than in the preceding season while foreign matter averaged a little higher.

Data from grade certificates covering 71,100 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 1966-67 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,
1950-1966

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	Index	Index		Number
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

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 November 1, 1966)
10.6 and over	Premium = (percent linters minus 10.5) x 1.5
10.5	None
10.4-9.0	Discount = (10.5 minus percent linters) x 1.5
8.9-4.0	Discount = (9.0 minus percent linters) x 2.5 + 2.25
3.9-0	Discount = (4.0 minus percent linters) x 3.0 + 14.75

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	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.	Units	Units	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.					
PRIME QUALITY SEED																					
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	+2.25	99.85	+5	104.85	105.0			
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	-0.75	95.05	+5	100.05	100.0			
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	-1.50	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, 1965 and 1966 1/

State	Oil		Cottonseed analysis										Average index				Average grade	
			Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1965	1966
	Pct.	Pct.	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966
Va.	19.6	18.8	3.87	3.87	-	-	10.7	11.6	1.0	0.8	0.8	1.2	106.75	103.59	98.8	99.0	106.0	103.0
N. Car.	19.2	19.0	3.80	3.96	-	-	10.8	11.2	0.9	0.7	0.9	0.7	104.74	104.77	99.2	99.5	104.0	104.5
S. Car.	19.0	18.9	3.84	4.08	-	-	11.2	11.1	1.2	1.1	0.8	0.7	104.14	105.11	98.9	99.1	103.0	104.5
Ga.	18.9	18.9	3.91	4.03	-	-	11.5	11.6	2.3	1.3	0.7	0.6	103.97	104.81	95.6	98.7	99.5	103.5
Fla.	18.8	18.6	3.74	4.09	-	-	12.7	12.2	4.2	2.4	0.5	0.5	102.56	103.82	88.6	95.2	91.0	96.5
Ala.	18.9	18.6	3.88	4.00	10.9	11.0	11.8	11.9	1.6	1.2	0.9	1.0	104.11	103.76	96.9	98.3	101.0	102.5
Miss.	17.5	17.9	4.02	4.03	10.5	10.6	12.2	11.7	1.4	0.8	0.9	0.9	99.09	100.68	97.8	99.1	97.0	100.0
Ky.	18.2	17.6	3.77	3.79	10.0	11.3	12.6	12.0	1.2	0.5	1.1	1.0	99.82	99.06	98.4	99.5	98.5	99.0
Tenn.	18.3	18.4	3.87	3.81	10.2	11.0	12.4	12.3	1.2	0.7	1.1	1.1	100.99	102.01	98.3	98.9	99.5	101.0
Mo.	17.3	18.0	3.96	3.77	9.9	11.3	13.7	12.4	1.4	0.7	0.9	0.9	97.02	100.51	97.2	98.8	94.5	99.5
Ark.	17.7	18.3	4.02	3.87	10.3	11.0	12.3	11.8	1.2	0.7	1.0	1.0	99.52	102.21	98.2	99.2	98.0	101.5
La.	17.2	17.7	4.01	3.94	10.1	10.6	12.6	12.3	2.4	1.3	0.6	0.5	97.07	99.38	94.7	96.3	92.0	98.0
Okla.	17.3	17.9	4.10	4.02	10.5	11.7	9.9	8.3	0.6	0.6	1.4	1.6	98.48	102.41	99.3	99.2	98.0	102.0
Tex.	17.8	18.0	4.11	3.99	9.9	10.8	8.4	7.6	0.5	0.6	1.8	2.4	99.78	100.97	99.0	98.4	99.0	99.5
N. Mex.	18.8	19.6	3.85	3.82	10.6	11.0	7.9	7.6	0.5	0.5	1.9	2.0	103.18	106.87	98.9	98.7	102.5	106.0
Ariz.	19.1	18.6	4.08	4.22	10.7	10.7	8.1	7.5	0.7	1.4	1.5	1.7	106.25	104.99	98.5	98.0	105.0	103.5
Calif.	18.5	18.3	4.09	4.21	10.3	10.4	9.7	8.9	0.6	2.0	1.1	1.4	103.53	103.21	99.2	96.0	103.0	99.5
All Other	19.1	19.5	3.66	3.83	10.0	12.5	11.4	7.6	0.8	0.7	1.2	1.1	102.50	109.04	98.8	99.6	101.5	108.5
U. S.	18.0	18.2	4.00	3.97	10.3	10.8	11.1	10.7	1.2	0.9	1.2	1.3	100.49	101.84	97.9	98.8	98.5	101.0

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. See Table 5.

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1965 and 1966

VIRGINIA 1/

Month	Cottonseed analysis														Average index		Average grade		Samples		
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.		
	1965	1966	Pct.	Pct.	1965	1966	Pct.	Pct.	1965	1966	Pct.	Pct.	1965	1966	1965	1966	1965	1966	1965	1966	
Sept.	17.5	-	3.62	-	-	16.8	-	1.9	-	0.9	-	94.00	-	94.8	-	93.0	-	4	-	-	-
Oct.	19.4	18.2	3.80	3.67	-	12.0	14.1	1.1	0.8	0.7	2.5	105.33	99.50	97.6	96.0	103.0	95.5	36	6	6	6
Nov.	19.9	18.7	3.91	3.82	-	9.8	12.4	0.8	0.7	0.9	0.7	108.47	102.83	99.5	99.2	108.0	102.0	50	20	50	20
Dec.	19.6	19.1	3.92	3.97	-	9.8	10.2	1.0	0.8	1.1	1.2	106.97	105.06	99.5	99.6	107.0	105.0	16	18	16	18
Jan.	20.0	18.9	3.97	3.92	-	9.6	10.9	1.0	0.8	0.4	1.3	108.75	105.00	100.0	99.6	108.5	105.0	6	6	6	6
Feb.	-	18.7	-	4.07	-	-	11.6	-	1.1	-	1.3	-	104.50	-	99.5	-	104.5	-	-	2	2
Mar.-July	-	19.0	-	3.85	-	-	11.1	-	1.0	-	2.2	-	104.38	-	99.0	-	103.5	-	-	4	4
Season	19.6	18.8	3.87	3.87	-	10.7	11.6	1.0	0.8	0.8	1.2	106.75	103.59	98.8	99.0	106.0	103.0	112	56	112	56

NORTH CAROLINA 1/

Sept.	18.8	18.7	3.68	4.07	-	12.5	10.8	1.4	3.1	0.7	0.9	102.17	104.63	97.6	92.8	100.0	97.0	280	8	280	8
Oct.	19.1	19.0	3.73	3.97	-	11.8	12.0	0.7	0.7	0.7	0.5	103.95	104.86	99.4	99.2	103.5	104.5	1,424	328	1,424	328
Nov.	19.4	19.1	3.89	3.94	-	9.5	11.2	0.7	0.6	1.1	0.6	106.00	104.99	99.5	99.7	105.5	105.0	970	730	970	730
Dec.	19.5	19.0	3.87	3.96	-	9.6	10.5	1.1	0.7	1.3	0.9	106.18	104.76	99.1	99.5	105.5	104.5	382	402	382	402
Jan.	19.3	18.7	3.88	3.96	-	10.1	11.4	1.2	1.0	1.1	1.0	105.44	103.77	99.2	99.5	104.5	103.5	90	124	90	124
Feb.	19.5	18.7	3.97	4.00	-	8.9	11.1	1.2	1.3	1.0	1.1	107.30	103.76	98.6	99.1	106.0	103.0	44	62	44	62
Mar.-July	18.5	18.8	3.89	4.04	-	10.3	10.4	2.2	1.4	1.2	1.3	102.41	104.78	96.2	99.2	98.5	104.0	48	70	48	70
Season	19.2	19.0	3.80	3.96	-	10.8	11.2	0.9	0.7	0.9	0.7	104.74	104.77	99.2	99.5	104.0	104.5	3,238	1,724	3,238	1,724

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1965 and 1966 (Continued)

SOUTH CAROLINA 1/

Month	Cottonseed analysis														Average index		Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.	
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966
Aug.	18.7	18.2	3.69	3.92	-	-	13.9	14.6	1.7	0.8	0.6	1.8	102.55	100.50	96.1	97.5	99.0	98.5	38	2
Sept.	19.0	18.9	3.75	3.96	-	-	12.3	12.0	0.9	0.7	0.5	0.4	103.67	104.38	99.2	99.2	103.0	104.0	1,160	320
Oct.	18.9	18.9	3.81	4.10	-	-	11.6	11.3	0.9	1.0	0.6	0.4	103.60	105.35	99.5	99.5	103.5	105.0	1,608	808
Nov.	19.1	18.9	3.95	4.08	-	-	9.7	11.2	1.3	1.1	1.3	0.7	105.02	105.27	99.0	99.3	104.0	104.5	734	566
Dec.	19.1	18.9	3.94	4.08	-	-	9.8	10.2	1.8	1.3	1.5	0.9	105.08	105.09	97.6	98.8	103.0	104.0	280	334
Jan.	19.2	18.7	3.90	4.12	-	-	9.9	10.8	2.3	1.6	1.4	0.8	105.40	104.56	96.4	98.6	102.0	103.5	178	206
Feb.	19.2	18.8	3.96	4.14	-	-	9.6	10.3	2.0	1.7	1.2	1.0	105.56	104.98	96.9	98.2	103.0	103.0	184	128
Mar.-July	19.1	19.0	3.96	4.17	-	-	9.6	9.7	2.3	2.1	1.2	1.2	105.00	106.27	96.4	97.1	101.0	103.5	80	80
Season	19.0	18.9	3.84	4.08	-	-	11.2	11.1	1.2	1.1	0.8	0.7	104.14	105.11	96.9	99.1	103.0	104.5	4,262	2,444

GEORGIA 1/

Aug.	19.1	18.7	3.78	4.01	-	-	12.4	13.2	1.6	2.4	0.4	0.4	104.12	104.14	97.2	94.8	101.5	99.0	224	36
Sept.	18.9	19.2	3.80	3.95	-	-	11.8	11.5	0.9	0.8	0.6	0.6	103.29	105.52	99.4	99.4	103.0	105.0	1,890	1,046
Oct.	18.7	18.8	3.93	4.07	-	-	12.2	11.8	2.9	1.0	0.6	0.6	103.21	104.77	93.9	99.4	97.0	104.5	1,688	1,098
Nov.	19.1	18.6	4.08	4.05	-	-	10.0	12.2	3.4	1.6	0.9	0.6	106.10	103.71	92.1	98.3	98.0	102.0	780	554
Dec.	18.9	18.9	4.02	4.11	-	-	10.5	10.7	3.6	1.9	1.0	0.8	105.06	105.26	91.8	98.2	96.5	103.5	318	280
Jan.	19.1	18.6	4.00	4.08	-	-	10.4	11.4	3.1	2.4	1.1	0.8	105.51	104.30	93.9	96.1	99.5	100.0	140	150
Feb.	18.9	18.6	4.01	4.08	-	-	10.6	11.1	3.4	3.0	1.2	0.9	104.47	103.94	91.0	94.5	96.5	98.5	130	78
Mar.-July	19.1	18.6	4.01	4.12	-	-	10.3	10.4	2.5	2.8	1.1	1.0	105.70	103.96	95.3	95.4	101.0	99.0	154	70
Season	18.9	18.9	3.91	4.03	-	-	11.5	11.6	2.3	1.3	0.7	0.6	103.97	104.81	95.6	98.7	99.5	103.5	5,324	3,312

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1965 and 1966 (Continued)

FLORIDA 1/

Month	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1965	1966	1965	1966	No.	No.
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966
Aug.	18.2	18.6	3.52	3.95	-	-	16.1	14.5	2.9	1.7	0.1	0.2	99.08	102.95	91.2	96.2	88.5	99.5	20	10		
Sept.	19.0	18.6	3.67	4.08	-	-	12.4	12.1	1.9	0.9	0.3	0.4	103.06	103.76	98.6	99.5	102.0	103.5	62	44		
Oct.	18.8	18.6	3.82	4.11	-	-	12.6	12.4	6.0	1.7	0.7	0.4	102.94	103.93	83.2	98.2	84.5	102.0	48	30		
Nov.	18.6	18.6	3.92	4.15	-	-	11.0	11.8	8.6	4.4	1.2	0.8	103.00	104.22	64.6	90.5	76.5	93.5	14	16		
Dec.	18.7	18.3	3.92	4.11	-	-	11.6	11.6	7.6	8.4	0.3	0.9	103.38	103.94	76.8	74.3	77.0	77.0	4	8		
Jan.	19.0	18.5	3.87	4.07	-	-	10.9	12.1	5.9	2.6	0.7	0.9	104.42	103.50	82.5	95.6	84.5	100.0	6	4		
Feb.	18.7	18.7	3.77	4.22	-	-	11.6	10.6	3.5	8.0	0.7	2.6	102.50	104.50	91.2	72.5	93.5	60.0	2	2		
Season	18.8	18.6	3.74	4.09	-	-	12.7	12.2	4.2	2.4	0.5	0.5	102.56	103.82	88.6	95.2	91.0	98.5	156	114		

ALABAMA 1/

Aug.	18.3	18.4	3.67	4.02	11.5	10.5	15.5	13.4	2.4	2.3	0.5	0.6	100.33	102.66	92.6	95.0	93.0	97.5	162	82		
Sept.	18.7	18.4	3.77	4.06	10.8	10.4	13.1	11.9	1.3	0.9	0.6	0.6	102.62	103.06	97.9	99.2	101.0	102.5	1,944	888		
Oct.	18.9	18.5	3.88	4.00	10.8	10.8	12.1	12.4	1.4	0.9	0.8	0.8	104.07	103.18	97.3	99.1	101.5	102.5	3,118	1,732		
Nov.	19.2	18.6	4.00	3.97	11.0	11.1	9.8	11.7	1.9	1.3	1.2	1.1	106.11	104.02	95.8	98.4	102.0	102.5	1,474	1,234		
Dec.	18.9	18.9	3.94	3.98	10.8	11.0	10.9	11.1	2.1	1.9	1.4	1.3	104.57	104.91	95.5	96.6	100.0	101.5	572	600		
Jan.	19.0	18.8	3.93	3.96	10.8	11.0	11.1	11.7	2.0	2.0	1.2	1.5	104.78	104.49	96.1	96.3	100.5	101.0	250	302		
Feb.	18.9	18.8	3.98	4.00	10.9	11.3	10.8	11.2	1.8	1.3	1.0	1.5	104.92	105.36	97.4	98.3	102.5	104.0	124	220		
Mar.-July	18.8	18.8	4.03	4.06	11.1	10.9	10.7	11.0	2.1	2.0	1.4	1.8	104.94	105.39	96.8	96.5	101.5	102.0	150	84		
Season	18.9	18.6	3.88	4.00	10.9	11.0	11.8	11.9	1.6	1.2	0.9	1.0	104.11	103.76	96.9	98.3	101.0	102.5	7,794	5,142		

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1965 and 1966 (Continued)

MISSISSIPPI

Month	Oil		Cottonseed analysis										Average index				Samples			
			Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Average grade		No.	
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966
Aug.	17.1	17.4	3.96	4.00	10.1	10.5	14.1	11.5	1.9	3.7	0.8	1.1	96.55	98.78	94.0	90.0	91.5	90.0	214	50
Sept.	17.5	17.5	4.00	3.99	10.3	10.1	13.1	13.5	0.8	0.8	0.7	0.6	98.43	98.49	98.5	98.0	97.5	97.0	5,654	1,538
Oct.	17.5	18.0	4.00	4.06	10.5	10.5	12.7	12.1	1.3	0.7	0.8	0.7	98.71	101.14	98.3	99.3	97.5	100.5	9,798	6,462
Nov.	17.7	17.9	4.12	4.02	10.8	10.8	10.1	10.8	1.8	0.8	1.3	1.0	100.85	100.96	97.5	99.6	98.5	101.0	3,768	5,402
Dec.	17.7	17.7	4.03	3.94	10.8	10.9	11.2	11.2	3.2	1.0	1.6	1.5	100.04	100.12	93.1	98.8	93.0	99.0	966	1,396
Jan.	17.6	18.0	4.02	3.88	10.5	10.7	11.6	12.1	3.8	1.5	2.0	1.7	99.56	100.12	90.4	97.5	90.5	98.0	214	240
Feb.	17.6	17.5	4.08	3.91	10.4	10.9	11.4	12.2	3.1	2.1	1.3	2.5	99.48	99.43	92.1	94.4	92.5	94.0	96	62
Mar.-July	17.5	18.0	4.19	4.01	10.7	10.6	10.8	11.2	3.5	2.4	1.4	1.6	99.91	100.95	91.9	94.4	92.5	94.5	226	82
Season	17.5	17.9	4.02	4.03	10.5	10.6	12.2	11.7	1.4	0.8	0.9	0.9	99.09	100.68	97.8	99.1	97.0	100.0	20,936	15,232

KENTUCKY

Sept.	18.0	-	3.68	-	9.5	-	14.2	-	1.0	-	0.7	-	98.60	-	97.7	-	96.0	-	10	-
Oct.	18.6	17.8	3.73	3.81	9.7	11.2	12.9	12.6	1.1	0.5	0.7	0.7	101.25	99.88	98.8	99.3	100.5	100.0	34	8
Nov.	17.9	17.7	3.86	3.82	10.6	11.1	11.1	11.6	1.1	0.5	1.4	1.2	99.29	99.33	98.5	99.6	98.5	99.5	14	6
Dec.	16.7	17.2	3.85	3.70	11.0	12.0	12.1	11.6	1.8	0.7	1.9	1.2	96.25	97.00	98.5	99.7	93.5	97.5	4	4
Jan.	16.2	-	4.07	-	9.5	-	12.6	-	2.2	-	3.6	-	92.50	-	96.5	-	91.0	-	2	-
Season	18.2	17.6	3.77	3.79	10.0	11.3	12.6	12.0	1.2	0.5	1.1	1.0	99.82	99.06	98.4	99.5	98.5	99.0	64	18

TENNESSEE

Aug.	17.2	17.2	3.62	3.92	11.5	9.5	10.6	10.6	8.0	2.2	3.6	1.8	96.25	96.25	72.5	98.5	60.0	96.0	2	2
Sept.	18.0	18.1	3.72	3.74	10.1	10.4	14.9	15.1	1.2	1.2	0.6	0.7	98.90	99.75	96.5	95.9	95.5	96.0	994	108
Oct.	18.3	18.5	3.84	3.84	10.1	10.7	12.8	12.9	1.1	0.6	0.8	0.7	100.84	102.22	98.7	98.8	100.0	101.5	3,768	1,900
Nov.	18.5	18.4	3.99	3.84	10.3	11.2	10.1	11.7	1.2	0.6	1.6	1.1	102.80	102.34	99.0	99.5	102.0	102.0	1,482	1,734
Dec.	18.0	18.2	3.95	3.75	10.5	11.5	11.1	11.6	1.7	0.7	2.4	1.6	100.68	101.76	97.5	98.9	98.5	101.0	428	670
Jan.	18.3	18.0	3.90	3.69	10.2	11.4	11.7	12.8	1.9	1.0	2.3	2.2	101.39	100.36	95.6	97.6	97.5	98.5	94	270
Feb.	18.4	18.1	4.01	3.73	10.3	11.0	11.6	12.3	2.0	1.3	1.8	2.2	102.65	100.49	95.2	97.6	98.0	98.5	48	54
Mar.-July	18.2	18.4	3.98	3.70	10.2	11.2	11.0	11.7	1.9	1.8	1.8	2.3	101.33	101.46	96.3	96.8	98.5	98.5	56	56
Season	18.3	18.4	3.87	3.81	10.2	11.0	12.4	12.3	1.2	0.7	1.1	1.1	100.99	102.01	98.3	98.9	99.5	101.0	6,872	4,794

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1965 and 1966 (Continued)

MISSOURI

Month	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Average index				Samples			
	Cottonseed analysis												Quantity		Quality		No.			
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966		
Aug.	17.8	18.5	3.86	4.15	10.7	9.5	11.3	10.6	7.0	2.4	2.6	0.5	99.21	102.50	74.6	97.7	72.0	101.0	14	4
Sept.	16.8	17.3	3.92	3.68	10.1	10.4	15.2	15.7	1.1	1.4	0.5	0.8	95.11	96.14	96.3	95.0	92.0	91.0	856	38
Oct.	17.4	18.1	3.94	3.83	9.7	11.1	14.0	12.7	1.2	0.7	0.6	0.7	97.19	100.65	97.8	98.5	95.5	99.5	2,320	866
Nov.	17.6	18.0	4.05	3.78	10.1	11.4	11.3	12.1	1.3	0.6	1.5	0.8	99.00	100.91	98.7	99.4	98.0	100.5	686	894
Dec.	17.1	17.9	4.00	3.65	10.4	11.7	12.3	12.2	2.2	0.7	2.5	1.1	96.73	100.05	95.7	99.2	92.5	99.5	146	272
Jan.	17.2	17.6	3.91	3.60	10.1	12.0	13.3	12.9	3.1	1.1	2.6	1.7	96.73	98.84	91.7	97.3	88.5	96.5	32	88
Feb.	16.6	17.6	3.87	3.56	9.9	11.6	14.9	12.9	5.2	0.9	3.5	1.9	93.67	98.37	81.2	97.9	75.0	96.5	30	26
Mar.-July	17.3	18.2	4.13	3.62	10.2	11.2	11.7	12.5	4.4	1.3	2.1	2.1	97.76	100.52	85.1	97.9	85.5	99.0	44	60
Season	17.3	18.0	3.96	3.77	9.9	11.3	13.7	12.4	1.4	0.7	0.9	0.9	97.02	100.51	97.2	98.8	94.5	99.5	4,128	2,248

ARKANSAS

Aug.	18.1	18.0	4.01	4.15	10.2	10.1	10.9	10.7	1.5	3.7	1.0	0.7	101.67	100.70	98.6	93.5	100.0	95.0	26	22
Sept.	17.5	17.6	3.95	3.87	10.1	10.2	14.0	14.7	0.7	1.3	0.6	0.8	98.01	98.18	97.8	95.9	96.0	94.5	2,482	184
Oct.	17.8	18.3	4.00	3.93	10.3	10.7	12.7	12.5	1.1	0.6	0.8	0.7	99.69	101.74	98.8	99.1	99.0	101.0	8,546	2,830
Nov.	17.8	18.4	4.11	3.89	10.5	11.1	10.4	11.3	1.4	0.6	1.3	0.9	100.62	103.00	99.0	99.7	100.0	103.0	3,188	4,718
Dec.	17.5	18.2	4.05	3.79	10.5	11.4	11.2	11.5	2.3	0.7	2.2	1.5	98.89	102.02	96.1	99.1	95.0	101.5	998	1,558
Jan.	17.4	18.0	4.04	3.71	10.4	11.5	11.9	12.6	3.5	1.0	3.1	2.0	98.36	100.41	90.1	98.0	88.5	98.5	240	568
Feb.	17.2	18.1	3.99	3.71	10.2	11.4	12.6	12.5	3.6	1.3	2.3	2.0	97.05	101.29	90.7	97.5	88.0	99.0	182	208
Mar.-July	17.9	18.5	4.12	3.76	9.4	10.9	11.0	11.7	2.6	1.7	1.6	2.2	99.72	101.52	95.5	96.8	94.5	98.0	176	148
Season	17.7	18.3	4.02	3.87	10.3	11.0	12.3	11.8	1.2	0.7	1.0	1.0	99.52	102.21	98.2	99.2	98.0	101.5	15,838	10,236

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1965 and 1966 (Continued)

LOUISIANA

Month	Cottonseed analysis												Average Index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1965		1966	
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	No.	No.	1965	1966
Aug.	16.8	16.6	3.66	3.67	9.9	10.4	16.7	16.9	1.9	4.1	0.7	0.9	93.20	92.77	93.4	82.3	87.0	77.5	276	48
Sept.	17.4	17.5	3.99	3.86	9.9	10.3	12.6	13.8	1.5	1.5	0.5	0.6	97.71	97.77	97.5	96.8	95.5	95.0	1,764	714
Oct.	17.1	17.8	3.99	3.96	10.1	10.6	13.1	12.6	2.5	1.1	0.6	0.5	96.60	99.91	94.6	98.7	91.5	99.0	2,910	2,060
Nov.	17.1	17.8	4.12	3.96	10.5	10.7	10.5	11.5	3.0	1.2	0.8	0.5	98.09	99.85	93.7	99.3	92.0	99.5	1,100	1,920
Dec.	17.2	17.3	4.07	3.92	10.4	11.0	11.3	11.7	4.8	1.8	1.0	0.7	97.91	98.27	84.8	97.7	85.5	96.0	262	378
Jan.	16.9	17.0	4.08	3.92	10.4	11.0	11.4	12.6	4.8	2.8	1.2	1.1	97.16	97.40	86.3	93.9	83.5	91.0	64	66
Feb.	16.7	17.6	4.03	4.01	11.2	10.8	11.4	11.8	3.6	2.4	1.1	1.0	95.18	99.84	92.8	95.7	91.0	95.0	14	38
Mar.-July	16.6	17.1	4.14	4.07	10.1	11.1	11.3	11.2	4.2	3.8	1.0	1.4	95.13	99.38	89.5	91.7	86.0	89.5	36	16
Season	17.2	17.7	4.01	3.94	10.1	10.6	12.6	12.3	2.4	1.3	0.6	0.5	97.07	99.38	94.7	96.3	92.0	98.0	6,426	5,240

OKLAHOMA

Sept.	17.0	17.2	4.14	4.22	10.5	8.5	10.6	12.6	0.9	0.8	1.3	0.4	97.70	98.75	99.0	99.5	97.0	96.0	42	2
Oct.	17.0	18.7	4.20	4.02	10.6	11.7	10.0	9.1	0.6	0.4	1.1	0.8	98.11	105.18	99.5	99.7	98.0	105.0	464	108
Nov.	17.1	18.3	4.18	4.09	10.7	11.5	10.0	7.9	0.5	0.5	1.1	1.3	98.28	104.35	99.7	99.5	98.5	104.0	920	822
Dec.	17.5	17.4	4.08	3.93	10.5	11.9	9.6	8.4	0.6	0.7	1.5	2.1	99.25	100.10	99.4	98.8	99.0	99.5	1,252	436
Jan.	17.4	17.1	3.96	3.92	10.3	11.5	10.1	8.7	0.8	1.0	1.9	2.6	97.87	97.74	96.9	98.3	97.0	95.5	558	140
Feb.	17.3	17.0	3.97	3.98	10.6	11.9	10.5	8.4	1.0	1.0	2.1	2.3	97.74	98.69	96.6	98.5	96.5	97.5	132	42
Mar.-July	17.0	17.0	3.96	3.86	10.9	11.7	10.1	8.4	1.5	1.2	2.2	2.2	96.90	97.32	97.7	98.7	95.0	96.0	88	14
Season	17.3	17.9	4.10	4.02	10.5	11.7	9.9	8.3	0.6	0.6	1.4	1.6	98.48	102.41	99.3	99.2	98.0	102.0	3,456	1,564

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1965 and 1966 (Continued)

TEXAS

Month	Cottonseed analysis														Average index		Average grade		Samples	
	Oil		Ammonia		Ianters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.	
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966
Aug.	16.9	16.9	3.95	3.91	11.7	12.9	11.0	10.3	0.5	0.5	0.7	0.8	97.18	97.98	99.7	99.7	97.0	98.0	1,346	750
Sept.	16.7	17.0	4.14	3.82	11.4	12.3	8.9	11.0	0.6	1.0	1.1	1.1	97.56	97.27	99.5	98.7	97.5	96.5	1,142	524
Oct.	17.5	18.2	4.13	4.05	11.1	11.1	9.1	9.2	0.6	1.0	1.2	1.4	100.34	102.65	99.3	99.0	100.0	102.0	2,566	1,128
Nov.	17.9	18.2	4.16	4.01	10.2	10.6	8.2	7.2	0.5	0.6	1.4	2.1	100.74	102.01	99.4	98.8	100.5	101.0	5,000	8,466
Dec.	18.1	17.8	4.13	3.99	9.4	10.5	7.9	7.4	0.5	0.7	1.9	3.1	100.25	99.76	99.0	97.8	99.5	98.0	8,368	4,072
Jan.	18.0	17.7	4.07	3.96	9.1	10.7	8.3	7.2	0.5	0.9	2.4	4.1	99.44	99.40	98.5	96.6	98.0	96.0	4,914	814
Feb.	17.8	17.6	3.97	3.94	9.1	10.7	8.7	7.3	0.7	1.1	3.3	4.0	97.96	98.90	97.5	96.4	95.5	95.5	1,018	146
Mar.-July	17.7	17.6	4.02	4.04	9.5	10.9	8.6	7.7	1.0	1.6	3.7	3.4	98.23	99.73	96.9	96.7	95.5	97.0	350	86
Season	17.8	18.0	4.11	3.99	9.9	10.8	8.4	7.6	0.5	0.6	1.8	2.4	99.78	100.97	99.0	98.4	99.0	99.5	24,704	15,986

NEW MEXICO

Oct.	19.9	20.5	3.84	3.78	11.7	11.7	8.1	8.7	0.5	0.4	0.7	0.6	109.06	111.79	99.9	99.9	109.0	111.5	194	164
Nov.	19.4	19.4	3.85	3.87	10.6	10.4	7.8	6.7	0.5	0.4	1.3	2.0	105.55	105.47	99.5	98.9	105.5	104.5	320	176
Dec.	18.2	18.3	3.87	3.79	10.0	11.0	7.7	7.0	0.5	0.7	2.4	4.3	99.78	100.71	98.5	96.3	98.5	97.5	260	78
Jan.	17.8	18.8	3.88	3.85	9.9	11.5	8.1	7.2	0.7	0.6	3.0	3.6	98.37	104.22	98.0	97.1	96.5	102.0	150	16
Feb.	17.3	20.2	3.75	3.62	10.5	12.5	8.4	10.6	0.7	0.6	4.6	0.7	96.65	108.75	96.3	100.0	94.0	108.5	40	2
Mar.-July	17.9	17.1	3.71	3.92	11.9	9.5	7.6	7.1	1.1	1.2	4.7	1.8	99.70	96.88	96.0	98.0	95.5	94.5	10	4
Season	18.8	19.6	3.85	3.82	10.6	11.0	7.9	7.6	0.5	0.5	1.9	2.0	103.18	106.87	98.9	98.7	102.5	106.0	974	440

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and states, 1965 and 1966 (Continued)

ARIZONA

Month	Cottonseed analysis														Average index				Samples		
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Average grade		No.		
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	
Aug.	16.7	3.77	11.5	14.6	1.7	0.1	96.25	97.5	93.5	2											
Sept.	18.2	4.09	10.6	10.9	1.2	0.5	102.57	98.9	101.5	42											
Oct.	19.8	4.02	11.1	7.7	0.3	0.6	109.22	99.9	106.5	618											
Nov.	19.7	4.10	10.8	7.1	0.3	1.1	108.86	99.9	107.5	1,066											
Dec.	19.0	4.06	10.6	9.1	0.3	1.8	105.42	99.5	105.0	480											
Jan.	18.3	4.10	10.4	9.5	0.8	2.5	102.48	98.7	101.5	212											
Feb.	17.6	4.07	10.4	9.8	1.5	2.8	99.90	96.3	96.5	278											
Mar.-July	17.9	4.23	10.6	7.8	3.4	6.3	102.01	88.1	90.0	224											
Season	19.1	4.08	10.7	8.1	0.7	1.4	106.25	98.5	105.0	3,080											

CALIFORNIA 1/

Sept.	19.0	4.02	10.5	8.2	0.5	1.4	105.67	99.3	105.0	6											
Oct.	19.4	4.19	10.4	8.8	0.3	0.6	107.78	100.0	108.0	188											
Nov.	19.3	4.16	10.4	8.5	0.3	1.2	107.03	99.9	107.0	510											
Dec.	18.2	3.98	10.3	11.7	0.5	2.5	101.57	98.7	100.5	232											
Jan.	17.7	4.02	10.5	10.9	0.7	3.6	99.69	99.2	99.5	318											
Feb.	17.2	4.05	10.4	9.8	1.2	2.8	98.03	97.9	96.0	24											
Mar.-July	17.7	4.06	10.7	9.2	1.8	3.3	100.32	96.4	97.0	62											
Season	18.5	4.09	10.3	9.7	0.6	2.0	103.53	99.2	103.0	1,440											

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, 1965 and 1966

NORTH CAROLINA 1/

Dist. No.	Cottonseed analysis										Average index			Average grade		Samples				
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1965	1966	Pct.	Pct.	1965	1966	Pct.	Pct.	1965	1966	Pct.	Pct.	1965	1966	1965	1966	1965	1966		
1	19.2	-	3.92	-	-	-	12.6	-	0.6	-	0.4	-	106.25	-	99.5	-	106.0	-	2	
2	19.1	18.4	3.92	4.06	-	-	10.2	11.4	0.8	1.0	0.7	1.0	105.11	102.98	99.5	99.0	104.5	102.5	188	82
3	19.6	19.1	3.79	3.85	-	-	10.6	11.5	0.8	0.7	0.7	0.8	106.06	104.42	99.4	99.4	105.5	104.0	1,052	640
4	19.4	19.0	3.84	4.11	-	-	10.5	11.1	1.2	0.7	0.4	0.2	105.28	105.93	97.1	100.0	103.0	106.0	36	22
5	19.4	19.0	3.91	4.00	-	-	10.4	11.4	0.7	0.8	0.4	0.4	106.10	105.13	99.3	99.6	105.5	104.5	114	64
6	19.4	19.5	3.75	3.83	-	-	10.5	11.0	0.9	0.7	0.8	0.9	105.14	106.15	99.4	99.7	104.5	106.0	296	152
8	19.2	18.4	3.93	4.24	-	-	10.9	11.3	0.7	0.7	0.6	0.5	105.32	104.03	99.3	99.6	105.0	103.5	414	216
9	18.9	19.1	3.75	4.00	-	-	11.2	10.8	1.0	0.7	1.3	0.8	102.99	105.27	98.8	99.5	102.0	105.0	1,136	548
State	19.2	19.0	3.80	3.96	-	-	10.8	11.2	0.9	0.7	0.9	0.7	104.74	104.77	99.2	99.5	104.0	104.5	3,238	1,724

SOUTH CAROLINA 1/

1	19.2	18.9	3.95	4.10	-	-	11.0	11.5	0.7	0.8	0.6	0.6	105.47	105.39	99.5	99.5	105.0	105.0	328	206
2	19.4	18.7	3.83	4.22	-	-	10.9	10.8	1.1	0.8	0.5	0.4	105.39	105.28	98.6	99.8	104.0	105.5	114	102
3	19.2	19.1	3.77	4.07	-	-	11.0	10.9	1.2	1.1	0.9	0.6	104.35	105.74	98.9	99.1	103.5	105.0	1,408	720
4	18.9	18.7	3.88	4.15	-	-	11.2	11.1	1.0	0.7	1.0	0.8	103.88	104.99	99.2	99.7	103.0	105.0	278	164
5	19.0	18.9	3.86	4.07	-	-	11.1	11.0	1.2	1.2	0.8	0.7	104.15	105.08	98.9	99.3	103.0	104.5	1,706	1,024
8	18.5	18.5	3.88	4.01	-	-	11.8	11.5	1.4	1.9	0.7	0.9	102.20	103.01	98.2	97.3	100.5	100.5	428	228
State	19.0	18.9	3.84	4.06	-	-	11.2	11.1	1.2	1.1	0.8	0.7	104.14	105.11	98.9	99.1	103.0	104.5	4,262	2,444

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and States, 1965 and 1966 (Continued)

GEORGIA 1/

Dist. No.	Cottonseed analysis												Average index				Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Average grade			
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	No.	No.
1	19.6	18.8	3.94	4.04	-	-	10.6	11.8	0.8	1.0	1.0	1.0	107.52	104.38	99.6	99.3	107.0	104.0	338	250
2	18.8	18.5	4.07	4.12	-	-	10.8	12.0	1.8	1.4	0.8	0.6	104.59	103.76	97.0	98.5	102.0	102.5	142	84
3	18.7	18.4	4.00	4.12	-	-	11.5	11.6	1.1	1.0	0.7	0.5	103.87	103.38	99.1	99.4	103.0	103.0	136	82
4	19.3	18.9	3.91	4.11	-	-	11.2	11.6	2.4	1.7	0.8	0.7	105.78	105.48	95.9	97.9	102.0	103.5	550	294
5	18.6	19.0	4.01	4.03	-	-	11.8	11.9	2.4	1.3	0.6	0.5	103.67	105.16	95.0	98.5	98.5	104.0	1,004	636
6	18.6	18.8	3.92	4.00	-	-	11.4	11.4	1.8	1.3	0.7	0.5	102.79	104.40	96.8	98.8	100.0	103.5	962	588
7	18.7	18.8	3.92	4.15	-	-	11.5	11.4	2.4	1.3	0.6	0.8	103.49	105.39	95.7	98.7	99.0	104.0	724	476
8	19.0	19.0	3.81	3.99	-	-	11.8	11.5	2.9	1.1	0.6	0.6	103.81	104.94	93.4	99.0	97.0	104.0	1,206	740
9	18.7	18.9	3.79	3.75	-	-	12.0	11.5	2.4	1.2	0.7	0.6	102.85	103.23	94.3	98.7	97.5	102.0	262	162
State	18.9	18.9	3.91	4.03	-	-	11.5	11.6	2.3	1.3	0.7	0.6	103.97	104.61	95.6	98.7	99.5	103.5	5,324	3,312

ALABAMA 1/																				
1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	No.	No.	
1	18.6	18.9	3.88	3.93	11.1	11.1	12.1	11.7	0.9	0.9	1.1	1.3	103.28	104.82	98.7	99.1	102.0	104.0	652	460
2	19.1	18.9	3.88	3.95	10.8	10.8	11.6	11.9	0.7	0.9	0.9	1.2	104.88	105.12	99.0	99.0	104.0	104.5	3,352	1,990
3	18.8	18.4	3.96	3.96	10.9	11.3	11.4	12.1	0.7	1.0	0.9	1.1	104.19	103.50	99.4	98.7	103.5	102.5	900	528
4	18.8	18.3	3.79	3.95	11.2	11.1	11.6	12.0	1.6	1.4	0.6	0.7	103.76	102.87	97.8	98.6	101.5	102.0	284	244
5	18.6	18.0	3.97	4.10	-	-	11.9	11.8	2.9	2.0	1.0	0.8	103.36	101.55	94.3	96.7	97.5	98.5	880	674
6	18.8	18.4	3.94	4.08	-	-	11.7	11.9	1.7	2.2	0.7	0.7	103.80	102.99	98.1	95.9	102.0	98.5	358	282
7	18.5	17.7	3.74	3.96	-	-	13.7	13.1	4.8	3.1	0.7	0.7	101.54	99.27	85.1	93.0	86.0	92.5	26	24
8	18.9	18.1	3.80	4.15	-	-	13.0	11.8	4.5	1.3	0.9	0.6	103.22	102.29	87.6	98.7	90.5	101.0	550	408
9	18.9	18.5	3.78	4.02	-	-	12.4	11.8	3.1	1.5	0.5	0.5	103.19	102.99	92.6	98.1	95.5	101.0	792	532
State	18.9	18.6	3.88	4.00	10.9	11.0	11.8	11.9	1.6	1.2	0.9	1.0	104.11	103.76	96.9	98.3	101.0	102.5	7,794	5,142

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and States, 1965 and 1966 (Continued)

MISSISSIPPI

Dist. No.	Cottonseed analysis												Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1965	1966	Pct.	Pct.	1965	1966	Pct.	Pct.	1965	1966	Pct.	Pct.	1965	1966	1965	1966	1965	1966		
1	17.2	17.5	4.08	4.07	10.8	10.8	12.3	11.7	1.1	0.6	1.0	1.1	98.37	99.94	98.4	99.2	97.0	99.5	5,474	4,180
2	17.7	18.2	4.01	4.00	10.4	10.4	12.1	11.8	1.2	0.7	1.1	1.0	99.61	101.68	98.5	99.1	98.5	101.0	2,688	1,708
3	18.4	18.8	3.92	3.90	10.4	10.6	12.2	12.0	0.9	0.7	1.1	1.3	101.95	103.74	98.7	98.9	101.0	103.0	1,422	1,044
4	17.2	17.7	4.09	4.10	10.5	10.6	12.2	11.4	1.2	0.7	0.8	0.8	98.25	100.43	98.5	99.4	97.0	100.0	6,712	4,812
5	17.9	18.0	3.95	3.94	10.2	10.4	12.2	11.7	2.0	1.0	0.8	0.7	99.75	100.63	96.5	99.2	96.5	100.0	2,020	1,590
6	18.1	18.1	3.90	3.96	10.3	10.1	12.3	12.0	1.6	1.1	0.9	0.9	100.58	100.64	97.6	98.8	98.5	99.5	1,108	858
7	17.5	17.6	3.93	3.93	10.4	10.5	12.3	12.0	3.2	1.4	0.8	0.6	98.31	98.97	92.3	98.1	90.5	97.0	672	474
8	18.2	18.1	3.82	3.82	10.5	11.0	12.5	12.1	3.3	1.5	0.9	0.8	100.53	100.88	91.6	98.2	92.0	99.5	632	400
9	18.4	18.3	3.83	3.89	10.9	11.3	12.5	12.1	3.4	1.6	0.6	0.5	102.14	102.48	91.5	98.3	93.5	101.0	208	166
State	17.5	17.9	4.02	4.03	10.5	10.6	12.2	11.7	1.4	0.8	0.9	0.9	99.09	100.68	97.8	99.1	97.0	100.0	20,936	15,232

TENNESSEE

1	17.8	18.1	3.87	3.77	10.2	11.1	12.9	12.5	1.4	0.7	1.1	1.0	99.04	100.72	97.8	98.8	97.0	100.0	2,466	1,666
2	18.5	18.5	3.86	3.83	10.2	11.0	12.3	12.3	1.1	0.6	1.1	1.1	101.80	102.66	98.5	99.0	100.5	102.0	3,854	2,756
3	18.8	18.5	3.94	3.85	10.5	10.9	11.2	12.0	0.8	0.7	0.9	1.1	103.60	102.75	99.0	99.1	103.0	102.0	292	214
4	19.1	18.5	3.95	3.89	10.3	11.0	11.2	12.1	0.7	0.7	0.9	1.3	104.76	103.23	99.5	99.0	104.5	102.5	200	140
5	19.0	18.8	3.86	3.64	10.9	12.2	11.4	11.7	0.8	0.9	1.3	2.0	104.33	104.17	99.2	99.0	104.0	103.0	58	18
6	19.2	-	3.77	-	10.5	-	11.6	-	0.8	-	0.9	-	104.50	-	100.0	-	106.0	-	2	-
State	18.3	18.4	3.87	3.81	10.2	11.0	12.4	12.3	1.2	0.7	1.1	1.1	100.99	102.01	98.3	98.9	99.5	101.0	6,872	4,794

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and States, 1965 and 1966 (Continued)

ARKANSAS

Dist. No.	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1965	1966	1965	1966	1965	1966
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.	No.				
2	18.7	19.6	4.01	3.77	9.2	10.0	12.1	11.3	0.8	0.5	0.9	0.8	102.08	105.25	99.5	100.0	102.5	105.0	20	8		
3	17.7	18.2	3.95	3.79	10.1	11.3	12.7	12.1	1.2	0.7	1.0	1.1	98.90	101.64	98.3	99.0	97.5	101.0	6,196	3,652		
4	17.8	18.2	4.09	3.96	10.5	11.1	11.2	10.5	0.9	0.5	1.0	1.0	100.67	102.20	99.4	99.8	100.5	102.5	130	76		
5	18.0	19.1	4.05	3.82	10.3	11.0	11.2	11.0	1.0	0.6	1.2	1.3	101.11	105.24	98.9	99.2	100.5	104.5	270	178		
6	17.7	18.3	4.05	3.91	10.4	10.9	12.3	11.9	1.3	0.7	1.0	1.0	99.75	102.42	98.0	99.1	98.0	101.5	5,904	4,048		
7	17.9	18.3	4.10	3.94	10.0	10.5	11.1	11.1	0.9	0.8	0.9	1.2	100.37	101.88	99.3	99.4	100.0	101.5	378	236		
8	18.3	18.9	4.03	3.84	9.9	10.5	11.6	11.6	2.1	0.6	2.1	1.1	101.55	103.91	95.6	99.2	97.0	103.0	172	116		
9	17.6	18.3	4.09	3.93	10.5	10.8	11.8	11.3	1.3	0.6	1.0	0.9	99.94	102.50	98.7	99.5	99.0	102.5	2,768	1,922		
State	17.7	18.3	4.02	3.87	10.3	11.0	12.3	11.8	1.2	0.7	1.0	1.0	99.52	102.21	98.2	99.2	98.0	101.5	15,838	10,236		
LOUISIANA																						
1	17.3	18.0	4.21	4.08	9.5	10.2	11.5	11.6	2.0	1.2	0.4	0.3	98.39	100.95	96.7	99.4	95.5	100.5	728	564		
2	16.9	17.6	4.17	4.08	9.9	10.1	12.3	12.1	2.0	0.9	0.7	0.5	96.82	99.37	97.0	99.3	94.5	99.0	262	252		
3	17.1	17.5	4.05	4.00	10.3	10.6	12.1	12.0	1.5	0.9	0.7	0.5	97.03	99.14	97.8	99.2	95.5	98.5	3,304	2,534		
4	17.2	17.7	4.19	4.09	9.5	10.2	12.0	12.0	3.5	1.1	0.5	0.3	97.58	100.15	91.7	99.5	89.0	100.0	212	196		
5	17.4	17.9	3.84	3.78	10.3	10.9	13.5	12.9	3.8	2.1	0.7	0.7	96.94	99.59	89.2	96.7	86.5	96.5	1,618	1,452		
6	16.8	16.7	3.65	3.68	10.6	11.5	14.5	14.2	3.9	1.7	0.7	0.5	94.22	93.01	89.4	96.2	84.0	88.5	98	68		
7	17.1	17.6	3.67	3.61	9.8	11.1	16.1	14.7	5.2	2.6	0.6	0.7	94.64	97.65	79.4	93.7	77.0	92.0	118	116		
8	17.2	17.5	3.70	3.69	10.4	11.0	15.3	14.1	4.3	2.3	0.8	0.7	95.76	97.53	85.4	95.0	82.0	92.5	86	58		
State	17.2	17.7	4.01	3.94	10.1	10.6	12.6	12.3	2.4	1.3	0.6	0.5	97.07	99.38	94.7	98.3	92.0	98.0	6,426	5,240		

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and States, 1965 and 1966 (Continued)

OKLAHOMA

Dist. No.	Cottonseed analysis										Average index				Samples					
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Average grade			
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	No.	No.
3	18.3	17.7	4.27	4.22	8.5	10.5	9.9	9.6	0.4	0.8	1.3	1.3	101.41	101.50	99.6	99.5	101.0	101.5	22	2
4	17.2	17.3	4.01	3.91	10.7	12.1	9.9	8.3	0.6	0.6	1.8	2.3	97.87	99.56	99.0	98.6	97.0	98.5	944	354
5	17.4	17.9	4.20	4.09	10.1	11.1	10.0	8.6	0.6	0.6	1.1	1.6	99.37	102.04	99.6	99.2	99.0	101.5	312	98
6	17.6	18.3	4.17	3.98	9.4	10.9	10.2	9.3	0.5	0.7	1.4	1.7	99.03	102.63	99.4	99.1	99.0	102.0	132	20
7	17.1	18.0	4.11	4.05	10.8	11.7	9.8	8.2	0.6	0.6	1.3	1.4	98.31	103.18	99.4	99.4	98.0	103.0	1,838	1,016
8	18.1	19.3	4.16	4.16	9.5	10.0	9.9	8.4	0.7	1.0	1.3	1.9	100.96	106.26	99.5	99.0	100.5	105.5	182	64
9	17.8	18.8	4.09	3.89	9.2	10.3	10.9	10.0	0.8	0.6	1.6	1.1	99.29	103.45	99.2	99.8	99.0	103.5	26	10
State	17.3	17.9	4.10	4.02	10.5	11.7	9.9	8.3	0.6	0.6	1.4	1.6	98.48	102.41	99.3	99.2	98.0	102.0	3,456	1,564

TEXAS

1	18.1	18.0	4.11	3.96	9.2	10.4	7.8	7.2	0.5	0.6	2.0	2.6	100.16	100.27	98.9	98.3	99.5	99.0	14,534	9,300
2	17.5	18.1	4.19	4.11	10.0	10.8	9.0	7.5	0.5	0.7	1.7	2.3	99.29	102.26	99.2	98.5	99.0	101.0	4,604	3,552
3	17.0	17.7	4.22	4.03	10.6	11.7	9.6	8.1	0.6	0.9	1.0	1.8	98.13	101.56	99.8	99.2	98.0	101.0	108	84
4	16.2	17.5	4.17	4.18	11.5	11.1	8.9	8.8	0.6	1.2	1.6	1.5	95.73	100.48	99.1	99.1	95.5	100.0	1,794	600
5	17.5	18.5	4.07	3.93	10.4	10.2	10.8	11.5	0.9	1.3	1.2	1.0	98.94	101.83	98.9	98.1	98.0	100.5	336	110
6	19.5	19.8	3.90	3.92	11.4	11.5	8.1	7.2	0.5	0.5	2.2	2.8	107.46	109.48	98.5	98.0	106.0	107.5	1,212	780
7	17.0	17.3	4.30	4.29	11.6	11.3	8.1	7.3	0.6	0.7	1.0	1.6	99.55	100.83	99.7	99.3	99.5	100.5	276	142
8	16.1	16.7	4.06	3.81	11.6	13.2	10.4	10.4	0.6	0.6	1.1	1.4	94.87	97.03	99.6	99.4	95.0	97.0	558	576
9	17.2	17.8	4.00	3.65	10.5	11.3	11.8	12.6	0.9	2.3	0.7	1.0	97.87	98.65	98.6	95.4	97.0	94.5	454	198
10	17.2	17.0	3.87	3.95	12.4	12.4	10.7	10.2	0.6	0.5	0.6	0.6	98.44	98.12	99.8	99.7	98.5	98.0	828	644
State	17.8	18.0	4.11	3.99	9.9	10.8	8.4	7.6	0.5	0.6	1.8	2.4	99.78	100.97	99.0	98.4	99.0	99.5	24,704	15,986

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1965 and 1966 (Continued)

NEW MEXICO

Dist. No.	Cottonseed analysis												Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1965		1966	
	1965	1966	Pct.	Pct.	1965	1966	Pct.	Pct.	1965	1966	Pct.	Pct.	1965	1966	1965	1966	No.	No.	1965	1966
3	17.7	17.8	4.06	3.99	7.5	8.0	7.5	6.9	0.6	0.4	2.8	2.9	95.60	94.98	98.2	98.0	94.0	93.5	158	58
7	19.4	20.1	3.75	3.77	11.6	10.5	7.4	6.9	0.7	0.5	1.3	2.7	106.06	108.32	99.1	97.5	105.5	106.0	32	36
9	19.0	19.8	3.81	3.80	11.1	11.6	8.0	7.7	0.5	0.5	1.7	1.7	104.59	108.72	99.0	99.0	104.0	108.0	784	346
State	18.8	19.6	3.85	3.82	10.6	11.0	7.9	7.6	0.5	0.5	1.9	2.0	103.18	106.87	98.9	98.7	102.5	106.0	974	440
ARIZONA																				
5	19.1	18.5	4.10	4.26	10.6	10.5	8.2	7.5	0.7	1.6	1.5	1.8	106.01	104.45	98.4	97.8	104.5	102.5	2,398	1,346
7	19.0	18.7	4.06	4.17	10.3	10.8	8.7	7.8	1.0	1.0	1.8	1.5	105.39	105.51	98.2	98.9	103.5	105.0	332	176
9	19.5	19.1	4.00	4.04	12.1	11.7	7.1	7.1	0.5	0.8	1.3	1.8	108.71	107.55	99.3	98.6	108.0	106.5	350	250
State	19.1	18.6	4.08	4.22	10.7	10.7	8.1	7.5	0.7	1.4	1.5	1.7	106.25	104.99	98.5	98.0	105.0	103.5	3,080	1,772
CALIFORNIA 1/																				
5	18.5	18.1	4.09	4.28	-	-	10.1	10.2	0.6	0.9	0.9	1.1	103.52	103.21	99.2	98.2	103.0	101.5	920	246
8	18.5	18.3	4.08	4.17	10.3	10.4	9.0	8.2	0.6	2.5	1.4	1.6	103.54	103.21	99.3	94.8	103.0	98.0	520	480
State	18.5	18.3	4.09	4.21	10.3	10.4	9.7	8.9	0.6	2.0	1.1	1.4	103.53	103.21	99.2	96.0	103.0	99.5	1,440	726

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, 1965 and 1966

State	Quantity Index 1/														Total							
	Under 65		65-69		70-74		75-79		80-84		85-89		90-94		95-99		100-104		105 and over			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
Va.	-	-	-	-	-	-	-	-	-	1.8	-	-	3.6	1.8	3.6	23.2	67.8	73.2	25.0	100.0	100.0	
N. Car.	-	-	-	-	0.1	-	-	0.1	-	0.1	-	0.6	0.1	5.1	2.5	47.1	52.5	47.0	44.9	100.0	100.0	
S. Car.	-	-	-	-	-	-	-	0.1	-	0.1	-	0.1	-	4.8	2.5	57.2	45.0	37.8	52.5	100.0	100.0	
Ga.	-	-	-	-	-	-	-	-	-	-	-	0.3	-	7.6	3.9	57.5	48.7	34.6	47.4	100.0	100.0	
Fla.	-	-	-	-	-	-	-	-	-	-	-	3.8	-	15.4	8.8	55.1	59.7	25.7	31.5	100.0	100.0	
Ala.	-	-	-	-	-	-	-	*	-	*	-	0.4	0.2	8.0	10.2	53.9	55.0	37.7	34.6	100.0	100.0	
Miss.	*	*	*	*	*	*	*	*	*	0.4	0.2	7.7	4.5	53.2	32.6	34.9	54.8	3.8	7.9	100.0	100.0	
Ky.	-	-	-	-	-	-	-	-	-	-	-	6.3	11.1	43.6	44.5	47.0	44.4	3.1	-	100.0	100.0	
Tenn.	-	-	-	-	-	-	-	0.1	-	0.1	*	2.6	1.6	33.7	19.7	52.7	65.1	10.8	13.6	100.0	100.0	
Mo.	-	-	-	-	-	-	-	0.1	-	1.6	0.3	24.8	3.3	52.8	36.3	18.6	55.4	2.1	4.7	100.0	100.0	
Ark.	*	0.1	*	*	0.1	*	0.1	0.1	*	0.3	0.2	7.3	2.1	47.5	20.9	39.1	57.1	5.7	19.4	100.0	100.0	
Ia.	-	-	-	-	0.1	-	0.1	-	0.2	0.1	1.5	0.7	20.5	8.5	58.4	44.5	18.6	41.7	0.8	4.3	100.0	100.0
Okla.	-	-	-	-	-	-	0.1	0.4	-	0.9	0.2	1.5	10.4	4.3	57.6	12.8	30.8	51.5	0.9	28.6	100.0	100.0
Tex.	*	*	*	*	0.1	0.1	0.1	0.2	0.3	0.6	1.4	2.1	12.2	8.5	34.3	26.1	41.1	42.7	10.6	19.7	100.0	100.0
N. Mex.	-	-	-	-	-	0.2	-	-	-	0.9	1.0	1.8	8.6	4.1	22.6	9.1	23.7	19.5	43.9	64.6	100.0	100.0
Ariz.	-	-	-	-	-	-	-	-	-	0.1	0.1	0.8	1.0	9.3	12.2	23.5	34.1	66.3	52.6	100.0	100.0	
Calif.	-	-	-	-	-	-	-	-	0.3	0.4	0.8	6.7	6.6	18.9	19.8	26.6	28.2	47.4	44.3	100.0	100.0	
All other	-	-	-	-	-	-	-	-	-	-	-	-	-	25.0	8.3	49.9	25.0	25.1	66.7	100.0	100.0	
U. S.	*	*	*	*	*	*	*	0.1	0.1	0.2	0.6	0.7	8.2	4.2	36.4	23.6	39.5	50.5	15.2	20.7	100.0	100.0

1/ Inters 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, 1965 and 1966

State	Quality Index														Total			
	Below grade		Below prime quality												Prime quality			
	1965 Pct.	1966 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	1965 Pct.	1966 Pct.	1965 Pct.	1966 Pct.			
Va.	-	-	-	-	-	1.8	-	-	-	-	5.4	3.6	35.8	60.7	57.0	35.7	100.0	100.0
N. Car.	-	-	-	0.1	0.1	0.1	0.2	0.1	1.1	-	1.2	0.7	44.8	36.0	52.5	63.1	100.0	100.0
S. Car.	*	-	-	*	-	0.1	0.3	0.2	1.0	1.0	3.5	3.4	46.5	34.4	48.6	60.7	100.0	100.0
Ga.	0.1	-	0.3	-	1.6	0.1	2.8	0.4	2.2	0.7	8.0	1.3	12.3	48.9	34.4	45.1	100.0	100.0
Fla.	1.3	-	1.3	-	3.8	1.8	16.7	5.3	9.0	3.5	7.7	5.3	39.8	42.1	11.5	31.5	100.0	100.0
Ala.	0.1	-	0.1	-	1.1	0.2	2.6	0.6	1.8	1.0	2.8	1.8	5.8	4.0	54.5	60.0	32.4	100.0
Miss.	*	-	*	*	0.4	*	0.8	0.1	0.8	0.2	1.3	0.2	5.7	1.2	68.7	55.1	22.3	43.2
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84.4	66.7	15.6	33.3
Tenn.	-	-	-	-	0.2	*	0.3	-	*	0.1	0.5	0.2	2.8	1.3	75.5	72.6	20.7	25.8
Mo.	*	-	*	0.1	0.4	0.3	0.3	0.1	0.5	-	0.9	0.4	7.9	1.6	80.2	66.3	9.8	31.2
Ark.	-	-	-	-	0.1	*	0.3	*	0.5	0.1	1.0	0.4	4.1	1.7	66.6	52.0	27.4	45.8
La.	0.2	0.1	0.3	*	2.1	0.1	2.8	0.6	3.6	0.3	6.5	1.3	14.2	4.9	45.0	50.7	25.3	42.0
Okla.	-	-	-	-	-	0.2	-	-	-	-	0.2	0.3	0.7	1.6	57.7	58.4	41.2	39.7
Tex.	-	-	*	-	*	*	0.1	0.1	0.1	0.2	0.5	1.4	3.3	69.9	80.6	28.4	15.4	100.0
N. Mex.	-	-	-	-	-	-	0.5	-	-	0.2	0.5	3.9	3.7	56.8	51.0	39.1	44.3	100.0
Ariz.	-	-	-	0.1	-	1.0	0.6	1.3	0.9	2.7	4.1	4.5	8.1	23.1	39.0	67.3	47.3	100.0
Calif.	-	-	-	0.1	1.4	-	3.0	-	2.5	0.4	6.1	2.6	11.8	36.5	35.5	60.4	39.7	100.0
All other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91.7	41.7	8.3	58.3
U. S.	*	*	0.1	*	0.4	0.1	0.8	0.2	0.8	0.3	1.7	0.7	4.8	2.7	61.7	60.0	29.7	36.0

* Less than 0.05 percent.

Table 8. Percentage distribution of grades by specified frequencies, by states and United States, 1965 and 1966

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			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
Va.	-	-	1.8	-	3.6	1.8	-	1.8	3.6	1.8	-	23.3	67.8	57.0	25.0	12.5	-	100.0	100.0			
N. Car.	-	0.1	0.1	-	0.3	-	0.3	-	0.9	0.1	2.0	0.4	8.5	5.6	42.9	47.6	42.2	45.5	3.1	0.7	100.0	100.0
S. Car.	*	0.1	0.1	-	0.2	0.4	0.8	0.4	1.8	1.6	1.8	1.6	11.2	5.8	52.5	41.3	33.1	49.4	0.3	1.0	100.0	100.0
Ga.	0.1	-	2.4	0.2	1.3	0.3	1.7	0.4	3.5	0.9	9.5	1.6	17.1	9.0	42.2	44.8	21.0	41.4	1.2	1.4	100.0	100.0
Fla.	-	11.5	3.5	5.1	3.5	9.0	1.8	11.5	7.0	11.5	5.3	16.7	15.7	25.7	40.4	9.0	21.0	-	1.8	100.0	100.0	
Ala.	0.1	-	1.6	0.4	1.3	0.4	2.1	0.8	2.2	1.2	5.1	4.8	15.8	14.3	40.9	46.9	29.5	30.4	1.4	0.8	100.0	100.0
Miss.	*	-	0.9	0.2	0.5	0.1	1.0	0.2	3.8	1.3	17.8	7.6	46.8	32.4	26.5	50.6	2.7	7.5	*	0.1	100.0	100.0
Ky.	-	-	-	-	-	-	-	-	-	-	21.9	11.1	37.4	44.5	37.6	44.4	3.1	-	-	-	100.0	100.0
Tenn.	-	0.4	*	0.1	0.1	0.3	0.1	0.3	1.4	0.6	10.1	5.3	37.7	25.1	39.7	55.9	10.2	12.8	0.1	0.1	100.0	100.0
Mo.	*	-	0.9	0.4	0.5	-	1.9	0.3	11.6	1.6	33.5	7.6	36.7	36.5	13.1	48.6	1.8	5.0	*	-	100.0	100.0
Ark.	-	0.5	0.2	0.4	0.1	0.8	0.2	3.2	1.2	17.2	4.3	40.6	23.3	31.7	51.7	5.2	17.2	0.4	1.8	100.0	100.0	
Ia.	0.3	0.1	4.5	0.7	3.4	0.5	5.7	1.1	11.9	3.6	25.7	13.2	35.1	41.1	12.7	35.5	0.7	4.0	-	0.2	100.0	100.0
Okla.	-	0.1	0.4	0.2	0.8	0.1	0.9	1.0	2.0	13.5	5.2	54.8	15.2	29.4	49.0	0.8	25.9	0.1	0.6	100.0	100.0	
Tex.	-	0.2	0.3	0.2	0.4	0.6	1.3	2.8	3.5	14.9	11.9	34.9	30.5	36.6	37.0	8.3	12.1	1.5	3.0	100.0	100.0	
N. Mex.	-	0.2	-	0.9	0.4	1.8	0.4	1.8	3.5	0.5	12.5	8.2	21.4	12.7	19.9	14.6	27.9	21.4	14.2	39.9	100.0	100.0
Ariz.	-	0.3	-	0.6	0.7	1.1	1.6	2.6	3.4	5.4	6.1	8.9	14.8	15.8	22.4	46.5	41.1	18.8	9.9	100.0	100.0	
Calif.	-	0.1	2.8	-	2.8	0.3	3.3	2.4	4.7	10.4	12.4	15.0	15.9	23.4	21.7	41.5	31.4	6.9	5.0	100.0	100.0	
All other	-	-	-	-	-	-	-	-	-	-	8.3	-	16.7	16.7	58.4	16.7	16.6	8.3	-	58.3	100.0	100.0
U. S.	*	0.9	0.3	0.6	0.3	1.2	0.7	3.6	1.9	14.5	7.5	33.8	25.6	32.0	44.7	11.9	17.2	1.5	1.8	100.0	100.0	

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, 1965 and 1966

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	Total												
	1965 Pct.	1965 Pct.	1965 Pct.	1965 Pct.	1965 Pct.	1965 Pct.	1965 Pct.	1965 Pct.	1965 Pct.	1965 Pct.	1965 Pct.	1965 Pct.	1966 Pct.											
Va.	-	-	-	-	1.8	3.6	1.8	-	3.6	10.7	8.9	50.0	49.9	35.7	32.2	-	1.8	-	100.0	100.0				
N. Car.	0.1	0.2	0.4	0.7	0.2	1.1	0.7	2.2	4.1	7.5	15.5	19.2	25.4	54.8	48.2	13.1	5.9	0.7	-	100.0	100.0			
S. Car.	0.1	-	*	0.3	0.2	1.0	0.7	3.4	4.3	13.3	15.5	26.2	32.7	50.2	44.0	5.5	2.6	*	-	100.0	100.0			
Ga.	0.1	-	0.1	0.7	0.2	1.8	1.0	6.5	5.2	17.6	16.2	27.6	30.6	39.3	43.8	6.1	2.9	0.2	0.1	100.0	100.0			
Fla.	-	-	-	2.6	3.5	5.1	12.3	20.5	21.1	25.6	42.0	41.0	21.1	2.6	-	-	-	-	-	100.0	100.0			
Ala.	-	0.1	0.1	0.2	0.3	0.6	1.2	4.5	6.7	13.1	16.7	23.6	27.4	28.3	43.0	27.8	4.5	1.9	-	-	100.0	100.0		
Miss.	0.4	0.2	2.1	1.5	6.4	3.0	15.8	7.7	23.3	16.0	22.6	25.5	15.8	23.7	6.7	14.5	4.8	7.7	0.1	0.2	-	100.0	100.0	
Ky.	-	-	-	6.3	11.1	6.3	-	9.4	11.1	15.6	44.5	15.6	33.3	24.9	-	21.9	-	-	-	-	-	100.0	100.0	
Tenn.	0.1	0.2	0.2	0.9	0.8	2.8	2.1	8.5	6.8	18.0	15.6	26.0	27.9	24.7	27.6	18.2	18.2	0.6	0.8	-	-	100.0	100.0	
Mo.	0.3	5.9	0.5	11.4	1.9	19.3	6.0	21.5	15.6	18.7	24.6	11.6	24.2	6.8	18.2	3.9	8.2	0.4	0.5	0.2	0.3	100.0	100.0	
Ark.	0.3	0.4	1.7	1.0	4.2	1.3	11.6	3.4	21.7	8.8	23.7	17.7	18.9	23.9	10.3	21.8	6.5	17.6	1.0	3.6	0.1	0.5	100.0	100.0
La.	0.5	0.6	4.4	1.8	11.4	5.0	21.5	10.3	28.6	19.4	19.7	25.5	9.4	20.1	3.2	12.2	1.2	4.7	0.1	0.3	-	0.1	100.0	100.0
Okla.	0.2	2.8	6.3	3.7	10.2	2.6	16.5	5.1	25.0	11.9	22.2	20.8	11.9	21.5	5.5	16.8	2.0	12.9	0.2	1.9	-	-	100.0	100.0
Tex.	0.9	1.0	5.8	3.3	6.5	4.0	7.4	7.2	10.7	12.3	17.3	18.9	22.7	21.1	15.8	15.8	10.8	12.6	1.6	2.5	0.5	1.3	100.0	100.0
N. Mex.	0.4	0.9	0.4	0.9	1.2	-	4.3	0.9	7.8	4.1	13.8	8.6	12.7	8.6	11.7	7.7	27.0	18.2	18.0	31.8	2.7	18.3	100.0	100.0
Ariz.	-	0.1	0.1	0.6	0.6	1.2	2.0	3.2	5.1	7.9	8.0	14.0	9.0	17.0	10.6	18.3	45.3	30.0	17.8	6.5	1.5	1.2	100.0	100.0
Calif.	-	0.3	1.7	2.5	2.8	3.3	7.6	8.5	8.3	12.1	9.6	6.6	11.1	13.8	15.8	20.9	36.1	30.6	7.0	1.4	-	-	100.0	100.0
All other	-	-	-	-	-	-	-	-	-	8.3	8.3	-	8.3	25.0	25.0	58.4	8.3	8.3	50.1	-	-	-	100.0	100.0
U.S.	0.4	0.4	2.7	1.5	4.9	2.3	9.4	5.2	14.5	10.9	16.9	18.4	17.4	22.0	14.5	19.5	16.5	17.1	2.6	2.2	0.2	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, 1965 and 1966

State	Ammonia																					
	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		Total	
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966
Va.	-	-	-	-	1.8	-	1.8	3.6	5.4	3.6	8.9	10.7	23.2	17.9	26.8	39.2	25.0	17.9	7.1	7.1	100.0	100.0
N. Car.	-	-	-	0.1	-	-	0.6	-	6.2	1.3	20.7	5.5	32.7	21.9	26.9	30.0	10.1	23.7	2.8	17.5	100.0	100.0
S. Car.	-	-	-	-	-	-	0.7	-	4.8	0.6	15.9	1.9	29.3	7.1	29.9	18.7	15.6	32.9	3.8	38.8	100.0	100.0
Ga.	-	-	-	-	0.1	-	0.9	0.1	3.1	1.0	10.4	4.5	22.4	10.4	28.0	22.2	22.5	33.5	12.6	28.3	100.0	100.0
Fla.	-	-	-	-	1.3	-	1.3	-	7.7	-	26.9	-	37.1	7.0	23.1	17.5	2.6	36.9	-	38.6	100.0	100.0
Ala.	-	-	-	-	0.1	-	0.5	0.2	2.8	0.3	10.4	3.0	26.0	12.9	34.5	32.5	19.8	33.7	5.9	17.4	100.0	100.0
Miss.	-	-	-	-	-	-	-	-	0.5	0.3	2.8	2.3	10.1	10.5	27.3	26.4	36.6	37.5	22.7	23.0	100.0	100.0
Ky.	-	-	-	-	-	-	-	-	6.3	-	37.5	11.1	28.1	66.7	9.4	22.2	15.6	-	3.1	-	100.0	100.0
Tenn.	-	-	-	-	-	-	0.6	0.2	2.9	3.3	12.4	17.5	28.1	36.3	32.7	32.3	18.0	9.6	5.3	0.8	100.0	100.0
Mo.	-	-	-	-	-	-	0.1	0.5	1.2	6.4	4.7	28.2	15.9	33.2	35.5	23.8	31.4	6.6	11.2	1.3	100.0	100.0
Ark.	-	-	-	-	-	0.1	-	0.1	0.4	3.4	2.5	13.5	11.9	25.3	28.0	33.0	34.1	18.5	23.1	6.1	100.0	100.0
La.	-	-	-	-	-	0.2	0.7	0.8	2.6	3.6	7.0	9.7	13.8	16.9	20.2	22.8	25.7	29.3	30.0	16.7	100.0	100.0
Okla.	-	-	-	-	-	0.3	0.1	0.6	0.2	1.5	1.8	5.0	7.3	10.5	18.6	25.4	27.9	27.9	44.1	28.8	100.0	100.0
Tex.	-	-	-	-	-	-	0.2	-	0.3	1.0	1.5	4.7	6.0	16.0	16.8	29.0	32.4	27.8	43.0	21.3	100.0	100.0
N. Mex.	-	-	-	-	-	-	0.6	0.5	6.6	2.7	19.9	18.6	21.8	36.0	25.1	30.0	16.0	8.6	10.0	3.6	100.0	100.0
Ariz.	-	-	-	-	-	-	-	-	0.1	0.1	1.2	1.9	5.6	4.5	18.1	5.4	39.8	15.0	35.2	73.1	100.0	100.0
Calif.	-	-	-	-	-	-	-	-	0.1	-	1.2	0.3	7.5	1.7	17.9	8.0	36.4	27.3	36.9	62.7	100.0	100.0
All other	-	-	-	-	-	-	8.3	-	25.0	25.0	16.7	-	33.3	16.7	16.7	25.0	-	33.3	-	-	100.0	100.0
U. S.	-	-	-	-	-	-	0.2	0.2	1.4	1.7	5.5	7.2	14.1	17.0	25.2	27.4	29.3	27.1	24.3	19.4	100.0	100.0

* Less than 0.05 percent.

Table 11. Percentage distribution of linters by specified frequencies, by states and United States, 1965 and 1966

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	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N. Car.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S. Car.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ala.	-	0.9	1.1	13.1	10.6	42.2	37.9	38.8	8.4	10.9	1.5	0.6	0.2	0.1	-	-	100.0	100.0
Miss.	* 0.1	4.1	3.3	22.0	20.0	44.0	40.9	28.3	4.9	6.6	0.4	0.7	*	0.1	-	-	100.0	100.0
Ky.	-	-	15.6	-	31.3	-	40.6	33.3	12.5	44.5	-	22.2	-	-	-	-	100.0	100.0
Tenn.	-	-	4.6	0.7	32.7	9.1	47.9	36.9	13.5	36.8	1.2	13.3	0.1	1.2	-	*	100.0	100.0
Mo.	0.3	0.4	13.8	0.6	38.6	6.0	36.7	25.5	8.8	43.4	1.8	19.8	-	4.2	-	0.1	-	100.0
Ark.	0.1	0.1	8.1	1.9	28.2	10.8	40.3	34.3	18.2	34.9	4.6	14.9	0.5	2.8	*	0.3	-	100.0
La.	*	11.2	3.9	31.9	21.3	37.2	35.8	16.4	30.1	3.1	8.4	0.2	0.5	-	-	*	-	100.0
Okla.	0.7	0.3	9.4	2.8	19.0	5.0	31.5	14.8	29.0	36.0	9.3	30.4	1.1	8.3	-	2.4	-	100.0
Tex.	7.8	1.7	25.7	13.3	16.0	15.0	20.2	18.6	23.2	10.5	18.0	3.0	7.3	0.3	1.3	-	-	100.0
N. Mex.	7.4	4.5	12.1	9.5	10.7	7.3	13.3	15.0	31.7	30.1	23.6	24.1	1.2	9.5	-	-	-	100.0
Ariz.	0.1	-	3.8	1.8	20.1	19.2	39.9	41.4	22.5	28.1	10.1	7.6	2.9	1.8	0.6	0.1	-	100.0
Calif.	-	-	5.8	5.0	22.3	22.5	53.8	45.5	17.3	23.7	0.8	2.9	-	-	-	0.4	-	100.0
All other	-	-	8.3	-	41.7	-	41.7	8.3	25.0	-	16.7	-	50.0	-	-	-	-	100.0
U. S.	2.2	0.5	11.6	5.3	22.9	14.9	35.1	32.1	20.4	30.4	6.5	13.1	1.2	3.2	0.1	0.5	*	100.0

* Less than 0.05 percent.

Table 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1965

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	
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Va.	85.7	12.5	1.8	-	-	14.2	28.7	21.4	21.4	7.1	3.6	1.8	-	1.8	100.0
N. Car.	77.1	22.9	-	-	0.1	16.0	21.0	19.6	20.4	19.6	2.9	0.3	0.1	-	100.0
S. Car.	73.8	26.2	*	-	*	8.1	18.4	22.2	25.1	22.1	3.6	0.4	0.1	*	100.0
Ga.	66.1	33.9	-	-	-	5.5	13.3	22.3	25.0	27.6	5.1	0.9	0.3	-	100.0
Fla.	34.6	64.1	1.3	-	-	1.3	3.8	9.0	20.5	53.8	5.2	1.3	3.8	1.3	100.0
Ala.	57.0	42.9	0.1	-	0.1	7.0	8.4	18.9	22.6	31.5	9.2	1.7	0.5	0.1	100.0
Miss.	43.8	56.2	*	-	0.1	7.4	5.0	10.0	21.3	40.9	13.4	1.7	0.2	*	100.0
Ky.	28.2	71.8	-	-	-	6.3	9.4	-	12.5	46.8	25.0	-	-	-	100.0
Tenn.	43.9	55.9	0.2	-	-	7.2	7.0	12.2	17.5	33.9	18.8	2.8	0.4	0.2	100.0
Mo.	20.5	79.4	0.1	-	-	1.0	4.7	5.1	9.7	35.9	32.1	9.6	1.8	0.1	100.0
Ark.	46.0	54.0	*	-	*	5.8	6.9	12.1	21.2	35.7	15.5	2.5	0.3	*	100.0
Ia.	42.6	56.8	0.6	-	-	5.7	7.0	11.4	18.5	35.4	16.0	4.1	1.3	0.6	100.0
Okla.	96.4	3.6	-	-	0.1	21.0	39.1	27.6	8.6	3.2	0.3	0.1	-	-	100.0
Tex.	97.7	2.3	-	-	*	10.3	64.7	13.4	6.5	2.8	1.8	0.4	0.1	*	100.0
N. Mex.	100.0	-	-	-	-	12.9	78.1	7.8	1.2	-	-	-	-	-	100.0
Ariz.	97.8	2.1	0.1	0.2	27.4	47.1	13.2	7.8	2.1	1.3	0.7	-	0.1	0.1	100.0
Calif.	84.5	15.5	-	-	2.5	50.8	16.2	8.6	6.4	9.1	4.3	1.7	0.4	-	100.0
All other	58.4	41.6	-	-	8.3	-	33.5	8.3	8.3	25.0	16.6	-	-	-	100.0
U. S.	63.9	36.0	0.1	*	3.3	22.7	10.6	12.0	15.3	24.5	9.5	1.7	0.3	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, 1966

State	Moisture										Off quality 20.1 and over	Total			
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	Pct.	0.0	5.1	7.1	9.1	10.1	11.1			12.1	14.1	16.1
Va.	75.0	25.0	-	-	3.6	25.0	7.1	39.3	17.8	-	3.6	3.6	-	100.0	
N. Car.	80.7	19.3	-	-	1.6	14.7	35.9	28.5	15.4	3.4	0.5	-	100.0		
S. Car.	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		
Ky.	55.6	44.4	-	-	-	-	11.1	44.5	44.4	-	-	-	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	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		
Ia.	50.0	49.9	0.1	-	0.2	3.6	17.4	28.8	38.1	8.4	2.7	0.7	100.0		
Okla.	99.7	0.3	-	-	0.3	86.7	8.4	1.9	0.4	0.3	-	-	100.0		
Tex.	96.5	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.	98.2	1.8	-	-	0.9	41.8	47.1	4.0	3.0	1.4	0.9	0.1	100.0		
Calif.	89.2	10.8	-	-	0.3	5.6	69.0	8.8	2.5	3.0	7.5	2.5	100.0		
All other	83.4	16.6	-	-	8.3	58.5	-	8.3	8.3	16.6	-	-	100.0		
U. S.	72.5	27.5	*	-	9.1	16.7	6.2	18.1	22.4	22.2	4.4	0.6	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, 1965

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	
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Va.	92.8	7.2	-	10.7	67.7	9.0	5.4	3.6	1.8	-	1.8	-	-	-	100.0
N. Car.	95.4	4.5	0.1	12.6	66.9	13.6	2.3	2.4	1.3	0.6	0.1	0.1	-	0.1	100.0
S. Car.	88.4	11.6	*	5.4	50.1	24.6	8.3	6.9	4.0	0.6	0.1	*	*	*	100.0
Ga.	61.1	38.3	0.6	2.0	36.1	16.2	6.8	12.2	17.4	4.6	2.5	1.1	0.5	0.6	100.0
Fla.	28.1	69.3	2.6	-	-	7.6	20.5	25.8	10.2	15.4	12.8	3.8	1.3	2.6	100.0
Ala.	78.8	20.8	0.4	9.6	46.6	15.0	7.6	8.6	6.0	3.0	2.1	0.9	0.2	0.4	100.0
Miss.	83.2	16.6	0.2	5.7	40.5	26.0	11.0	9.2	5.2	1.2	0.6	0.3	0.1	0.2	100.0
Ky.	93.7	6.3	-	-	25.0	65.6	3.1	6.3	-	-	-	-	-	-	100.0
Tenn.	93.4	6.6	-	1.9	37.9	41.6	12.0	5.2	0.9	0.1	0.2	0.1	0.1	-	100.0
Mo.	89.6	10.3	0.1	0.5	27.8	44.5	16.8	7.2	1.9	0.6	0.3	0.2	0.1	0.1	100.0
Ark.	89.8	10.2	*	5.5	33.9	37.8	12.6	6.5	2.7	0.7	0.2	0.1	*	*	100.0
Ia.	57.7	41.2	1.1	2.4	22.3	20.9	12.1	18.0	14.1	5.4	2.1	1.3	0.3	1.1	100.0
Okla.	98.3	1.7	-	39.2	50.6	6.9	1.6	0.9	0.5	0.1	0.1	0.1	-	-	100.0
Tex.	99.4	0.6	*	55.7	40.3	2.9	0.5	0.4	0.1	0.1	*	*	*	*	100.0
N. Mex.	98.8	1.2	-	56.7	39.5	1.4	1.2	0.4	0.4	-	0.4	-	-	-	100.0
Ariz.	90.3	9.7	-	66.2	15.7	5.7	2.7	4.9	3.8	0.9	0.1	-	-	-	100.0
Calif.	97.7	2.3	-	56.6	30.2	8.5	2.4	1.7	0.4	0.1	0.1	-	-	-	100.0
All other	100.0	-	-	8.3	83.4	8.3	-	-	-	-	-	-	-	-	100.0
U. S.	87.4	12.4	0.2	20.6	38.7	20.5	7.6	6.2	4.0	1.2	0.6	0.3	0.1	0.2	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, 1966

State	Free fatty acids														
	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
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Va.	100.0	-	-	7.1	60.8	28.5	3.6	-	-	-	-	-	-	-	100.0
N. Car.	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. Car.	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
Ky.	100.0	-	-	33.3	66.7	-	-	-	-	-	-	-	-	-	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
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	-	-	16.7	75.0	-	8.3	-	-	-	-	-	-	-	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 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1965

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
Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Va.	75.0	25.0	-	35.7	39.3	21.4	3.6	-	-	-	-	-	100.0
N. Car.	74.3	25.6	0.1	40.4	33.9	19.0	4.1	1.3	1.0	0.1	0.1	-	100.0
S. Car.	77.3	22.7	-	41.4	35.9	17.4	3.5	1.4	0.4	*	*	-	100.0
Ga.	86.2	13.8	-	43.0	43.2	12.2	1.2	0.3	0.1	-	*	-	100.0
Fla.	92.3	7.7	-	60.3	32.0	6.4	1.3	-	-	-	-	-	100.0
Ala.	73.1	26.9	-	36.3	36.8	21.3	4.0	0.8	0.5	0.1	0.1	0.1	100.0
Miss.	75.5	24.5	*	30.4	45.1	19.5	3.7	0.9	0.3	0.1	*	*	100.0
Ky.	68.8	31.2	-	21.9	46.9	18.7	9.4	3.1	-	-	-	-	100.0
Tenn.	65.8	34.1	0.1	27.5	38.3	23.5	7.2	2.3	0.8	0.2	0.1	-	100.0
Mo.	78.3	21.6	0.1	46.3	32.0	14.7	3.9	1.6	1.0	0.3	0.1	*	100.0
Ark.	72.8	27.1	0.1	27.2	45.6	19.3	4.6	1.7	0.9	0.3	0.2	0.1	100.0
La.	89.3	10.7	-	52.3	37.0	8.7	1.2	0.6	0.2	-	*	-	100.0
Okla.	42.9	57.1	-	5.3	37.6	39.4	13.0	3.2	1.2	0.2	0.1	-	100.0
Tex.	30.0	69.7	0.3	7.6	22.4	41.1	16.5	6.8	3.6	1.1	0.4	0.2	100.0
N. Mex.	39.0	60.8	0.2	16.0	23.0	29.5	14.6	6.0	6.0	3.3	0.8	0.6	100.0
Ariz.	67.9	31.0	1.1	43.3	24.6	13.7	3.9	3.6	3.6	2.9	1.9	1.4	100.0
Calif.	72.7	27.2	0.1	22.2	50.5	19.0	4.0	1.8	1.4	0.6	0.4	-	100.0
All other	41.7	58.3	-	-	41.7	50.0	8.3	-	-	-	-	-	100.0
U. S.	64.0	35.9	0.1	27.8	36.2	23.9	7.1	2.7	1.4	0.5	0.2	0.1	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, 1966

State	Foreign matter														Total
	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.	
Va.	53.6	46.4	-	17.9	35.7	32.1	10.7	3.6	-	-	-	-	-	100.0	
N. Car.	80.4	19.6	-	45.9	34.5	16.2	2.9	0.2	0.2	0.1	-	-	-	100.0	
S. Car.	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	
Ky.	66.7	33.3	-	-	66.7	33.3	-	-	-	-	-	-	-	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	
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	58.3	41.7	-	8.3	50.0	33.4	8.3	-	-	-	-	-	-	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 18. Number of cottonseed samples by specified groups, by qualities, and number reduced in grade for specified causes, by states and United States, 1965 and 1966

State	Prime		Quality				Total samples graded				Reduced due to excess					
	1966		Below prime and off quality		Below grade		1965		1966		Moisture		Free fatty acids		Foreign matter	
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
Va.	64	20	48	36	-	-	112	56	14	8	-	28	26			
N. Car.	1,698	1,088	1,540	636	-	-	3,238	1,724	740	332	150	46	832	340		
S. Car.	2,064	1,480	2,196	964	2	-	4,262	2,444	1,122	488	302	966	358			
Ga.	1,840	1,496	3,480	1,816	4	-	5,324	3,312	1,600	1,160	2,070	554	732	430		
Fla.	18	36	136	78	2	-	156	114	102	60	112	38	12	10		
Ala.	2,428	1,668	5,362	3,474	4	-	7,794	5,142	3,344	2,096	1,650	656	2,080	1,726		
Miss.	4,646	6,572	16,284	8,660	6	-	20,936	15,232	11,770	5,010	3,518	478	5,138	4,486		
Ky.	10	6	54	12	-	-	64	18	46	8	4	-	20	6		
Tenn.	1,422	1,238	5,450	3,556	-	-	6,872	4,794	3,850	2,502	456	48	2,348	1,882		
Mo.	406	702	3,720	1,546	2	-	4,128	2,248	3,262	1,330	432	54	902	514		
Ark.	4,350	4,686	11,488	5,550	-	-	15,838	10,236	8,548	3,584	1,620	144	4,312	2,928		
La.	1,622	2,196	4,788	3,040	16	4	6,426	5,240	3,682	2,628	2,722	982	690	426		
Okla.	1,424	620	2,032	944	-	-	3,456	1,564	122	4	54	18	1,976	940		
Tex.	7,022	2,462	17,682	13,524	-	-	24,704	15,986	542	236	166	328	17,272	13,274		
N. Mex.	382	196	592	244	-	-	974	440	-	-	12	2	594	244		
Ariz.	2,080	838	1,000	934	-	-	3,080	1,772	64	32	298	438	988	856		
Calif.	868	288	572	438	-	-	1,440	726	222	78	34	270	394	324		
All other	2	14	22	10	-	-	24	24	10	4	-	-	14	10		
Total	32,346	25,606	76,446	45,462	36	4	108,828	71,072	39,262	19,566	13,802	4,358	39,296	28,760		

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