

# COTTONSEED QUALITY

CROP OF 1965



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Cottonseed Quality - 1965 Crop

The average grade of cottonseed in the 1965-66 season was down from the levels of the two preceding seasons. The oil content of seed from the 1965 crop averaged the lowest on record. Ammonia content was up somewhat from a year earlier, and the percentage of linters was down slightly. Moisture, foreign matter and free fatty acids averaged higher than in the previous season.

Data from grade certificates covering 108,800 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 1965-66 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 Florida, Georgia, North Carolina, South Carolina, Virginia, District 5 of California and Districts 5 through 9 of Alabama. Grades were determined in other districts and states on Official United States Standards.

Table 1. Cottonseed quality factors, indexes, and grades,  
1950-1965

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

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

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

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

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

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

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

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

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



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

Ex-ample 2/	Quality Factors										Quantity Factors							Grade
	FFA 3/		FM 4/		H <sub>2</sub> O 5/		Total Reduc- tions 6/	Qual- ity Index	Oil		NH <sub>3</sub> 8/		Linters		Sum of Pro- ducts	Adjus- 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.			
<b>PRIME QUALITY SEED</b>																		
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	12.0	+1.5	99.10	+5	104.10	104.0
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	-0.5	95.30	+5	100.30	100.5
3	1.2	0.0	0.8	0.0	9.6	0.0	0.0	100.0	16.2	64.8	3.97	23.82	9.5	-1.0	87.62	+5	92.62	92.5
<b>BELOW PRIME QUALITY SEED</b>																		
4	1.9	0.4	1.0	0.0	12.0	0.0	0.4	99.6	18.5	74.0	3.50	21.00	12.0	+1.5	96.50	+5	101.50	101.0
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	+0.5	101.60	+5	106.80	106.5
6	1.8	0.0	1.0	0.0	12.1	0.1	0.1	99.9	17.3	69.2	4.23	25.38	8.7	-2.1	92.48	+5	97.48	97.5
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	+3.5	84.58	+5	89.58	89.0
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	-17.25	106.45	+5	111.45	106.0
<b>OFF QUALITY SEED</b>																		
Treated (other than usual), Fermented, Hot																		
9	12.5	42.8	0.7	0.0	12.0	0.0	42.8	57.2	20.1	80.4	3.67	22.02	11.5	+1.0	103.42	+5	108.42	62.0
10	1.8	0.0	10.1	9.1	12.0	0.0	9.1	90.9	16.9	67.6	4.13	24.78	8.9	-1.7	90.68	+5	95.68	87.0
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	+2.7	100.70	+5	105.70	97.0
12	1.8	0.0	15.8	14.8	11.1	0.0	14.8	85.2	19.3	77.2	4.08	24.48	12.1	+1.6	103.28	+5	108.28	92.5
13	4.6	11.2	11.5	10.5	9.2	0.0	21.7	78.3	16.4	65.6	4.32	25.92	10.6	+0.1	91.62	+5	96.62	75.5
<b>BELOW GRADE SEED</b>																		
14	10.5	34.8	20.8	19.8	15.6	3.6	58.2	41.8	17.0	68.0	3.41	20.46	11.5	+1.0	89.46	+5	94.46	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	+3.4	105.04	+5	110.04	BG*

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

<sup>2/</sup> Example "8", demonstration of application of grading system on American-Egyptian seed; all others relate primarily to upland cottonseed.

<sup>3/</sup> Free fatty acids in the oil in the seed.

<sup>4/</sup> Foreign matter in the seed.

<sup>5/</sup> Moisture in the seed.

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

<sup>7/</sup> "Products" are percentages of oil, ammonia and linters in the seed multiplied by the factor used in computing the quantity index. For linters, the "products" are positive or negative depending on relationship of linters content to the 10.5 percent base.

<sup>8/</sup> 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 <sup>1/</sup>

State	Cottonseed analysis										Average index		Average grade
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Average index		Quantity	Quality			
							Percent	Percent					
Ala.	18.9	3.88	10.9	11.8	1.6	0.9	104.11	96.9	101.0				
Ariz.	19.1	4.08	10.7	8.1	0.7	1.5	106.25	98.5	105.0				
Ark.	17.7	4.02	10.3	12.3	1.2	1.0	99.52	98.2	98.0				
Calif.	18.5	4.09	10.3	9.7	0.6	1.1	103.53	99.2	103.0				
Fla.	18.8	3.74	-	12.7	4.2	0.5	102.56	88.6	91.0				
Ga.	18.9	3.91	-	11.5	2.3	0.7	103.97	95.6	99.5				
Ky.	18.2	3.77	10.0	12.6	1.2	1.1	99.82	98.4	98.5				
La.	17.2	4.01	10.1	12.6	2.4	0.6	97.07	94.7	92.0				
Miss.	17.5	4.02	10.5	12.2	1.4	0.9	99.09	97.8	97.0				
Mo.	17.3	3.96	9.9	13.7	1.4	0.9	97.02	97.2	94.5				
N. Mex.	18.8	3.85	10.6	7.9	0.5	1.9	103.18	98.9	102.5				
N. Car.	19.2	3.80	-	10.8	0.9	0.9	104.74	99.2	104.0				
Okla.	17.3	4.10	10.5	9.9	0.6	1.4	98.48	99.3	98.0				
S. Car.	19.0	3.84	-	11.2	1.2	0.8	104.14	98.9	103.0				
Tenn.	18.3	3.87	10.2	12.4	1.2	1.1	100.99	98.3	99.5				
Tex.	17.8	4.11	9.9	8.4	0.5	1.8	99.78	99.0	99.0				
Va.	19.6	3.87	-	10.7	1.0	0.8	106.75	98.8	106.0				
All other	19.1	3.66	10.0	11.4	0.8	1.2	102.50	98.8	101.5				
U. S.	18.0	4.00	10.3	11.1	1.2	1.2	100.49	97.9	98.5				

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



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

Month	Cottonseed analysis										Average index		Samples Number
	Oil Percent	Ammonia Percent	Linters Percent	Moisture Percent	Free fatty acids Percent	Foreign matter Percent	Average index		Average Grade	Number			
							Quantity	Quality					
<u>ALABAMA 1/</u>													
Aug.	18.3	3.67	11.5	15.5	2.4	0.5	100.33	92.6	93.0	162			
Sept.	18.7	3.77	10.8	13.1	1.3	0.6	102.62	97.9	101.0	1,944			
Oct.	18.9	3.88	10.8	12.1	1.4	0.8	104.07	97.3	101.5	3,118			
Nov.	19.2	4.00	11.0	9.8	1.9	1.2	106.11	95.8	102.0	1,474			
Dec.	18.9	3.94	10.8	10.9	2.1	1.4	104.57	95.5	100.0	572			
Jan.	19.0	3.93	10.8	11.1	2.0	1.2	104.78	96.1	100.5	250			
Feb.	18.9	3.98	10.9	10.8	1.8	1.0	104.92	97.4	102.5	124			
Mar.-July	18.8	4.03	11.1	10.7	2.1	1.4	104.94	96.8	101.5	150			
Season	18.9	3.88	10.9	11.8	1.6	0.9	104.11	96.9	101.0	7,794			
<u>ARIZONA</u>													
Oct.	19.8	4.02	11.1	7.7	0.3	0.6	109.22	99.9	109.5	618			
Nov.	19.7	4.10	10.8	7.1	0.3	0.6	108.86	99.9	109.0	1,066			
Dec.	19.0	4.06	10.6	9.1	0.3	1.0	105.42	99.5	105.0	502			
Jan.	18.3	4.10	10.4	9.5	0.8	2.0	102.48	98.7	101.5	392			
Feb.	17.6	4.07	10.4	9.8	1.5	3.8	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	1.5	106.25	98.5	105.0	3,080			



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

Month	Cottonseed analysis										Average index		Average grade	Samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Average index		Quantity	Quality				
							Percent	Percent						
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Quantity	Quality		Number		
<u>ARKANSAS</u>														
Aug.	18.1	4.01	10.2	10.9	1.5	1.0	101.67	98.6			100.0	26		
Sept.	17.5	3.95	10.1	14.0	0.7	0.6	98.01	97.8			96.0	2,482		
Oct.	17.8	4.00	10.3	12.7	1.1	0.8	99.69	98.8			99.0	8,546		
Nov.	17.8	4.11	10.5	10.4	1.4	1.3	100.62	99.0			100.0	3,188		
Dec.	17.5	4.05	10.5	11.2	2.3	2.2	98.89	96.1			95.0	998		
Jan.	17.4	4.04	10.4	11.9	3.5	3.1	98.36	90.1			88.5	240		
Feb.	17.2	3.99	10.2	12.6	3.6	2.3	97.05	90.7			88.0	182		
Mar.-July	17.9	4.12	9.4	11.0	2.6	1.6	99.72	95.5			94.5	176		
Season	17.7	4.02	10.3	12.3	1.2	1.0	99.52	98.2			98.0	15,838		
<u>CALIFORNIA 1/</u>														
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	9.8	8.5	0.3	0.8	107.03	99.9			107.0	510		
Dec.	18.2	3.98	10.3	11.7	0.5	0.9	101.57	98.7			100.5	232		
Jan.	17.7	4.02	10.5	10.9	0.7	1.1	99.69	99.2			99.5	318		
Feb.	17.2	4.05	10.4	9.8	1.2	2.5	98.03	97.9			96.0	130		
Mar.-July	17.7	4.06	10.7	9.2	1.8	2.8	100.32	96.4			97.0	62		
Season	18.5	4.09	10.3	9.7	0.6	1.1	103.53	99.2			103.0	1,440		

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

Month	Cottonseed analysis										Average index		Average grade	Samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Quantity		Quality					
	Percent	Percent	Percent	Percent	Percent	Percent	Quantity	Quality	Quantity	Quality				
<u>FLORIDA 1/</u>														
Aug.	18.2	3.52	-	16.1	2.9	0.1	99.08	91.2	88.5	20				
Sept.	19.0	3.67	-	12.4	1.9	0.3	103.06	98.6	102.0	62				
Oct.	18.8	3.82	-	12.6	6.0	0.7	102.94	83.2	84.5	48				
Nov.	18.6	3.92	-	11.0	8.6	1.2	103.00	64.6	76.5	14				
Dec.	18.7	3.92	-	11.6	7.6	0.3	103.38	76.8	77.0	4				
Jan.	19.0	3.87	-	10.9	5.9	0.7	104.42	82.5	84.5	6				
Feb.	18.7	3.77	-	11.6	3.5	0.7	102.50	91.2	93.5	2				
Mar.-July	-	-	-	-	-	-	-	-	-	-				
Season	18.8	3.74	-	12.7	4.2	0.5	102.56	88.6	91.0	156				
<u>GEORGIA 1/</u>														
Aug.	19.1	3.78	-	12.4	1.6	0.4	104.12	97.2	101.5	224				
Sept.	18.9	3.80	-	11.8	0.9	0.6	103.29	99.4	103.0	1,890				
Oct.	18.7	3.93	-	12.2	2.9	0.6	103.21	93.9	97.0	1,688				
Nov.	19.1	4.06	-	10.0	3.4	0.9	106.10	92.1	98.0	780				
Dec.	18.9	4.02	-	10.5	3.6	1.0	105.06	91.8	96.5	318				
Jan.	19.1	4.00	-	10.4	3.1	1.1	105.51	93.9	99.5	140				
Feb.	18.9	4.01	-	10.6	3.4	1.2	104.47	91.0	96.5	130				
Mar.-July	19.1	4.01	-	10.3	2.5	1.1	105.70	95.3	101.0	154				
Season	18.9	3.91	-	11.5	2.3	0.7	103.97	95.6	99.5	5,324				

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

Month	Cottonseed analysis										Average index		Average grade	Samples Number
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Average index		Quantity	Quality				
							Percent	Percent						
Sept.	18.0	3.68	9.5	14.2	1.0	0.7	98.60	97.7	96.0	10				
Oct.	18.6	3.73	9.7	12.9	1.1	0.7	101.25	98.8	100.5	34				
Nov.	17.9	3.86	10.6	11.1	1.1	1.4	99.29	98.5	98.5	14				
Dec.	16.7	3.85	11.0	12.1	1.8	1.9	96.25	98.5	93.5	4				
Jan.	16.2	4.07	9.5	12.6	2.2	3.6	92.50	96.5	91.0	2				
Feb.	-	-	-	-	-	-	-	-	-	-				
Mar.-July	-	-	-	-	-	-	-	-	-	-				
<u>KENTUCKY</u>														
Season	18.2	3.77	10.0	12.6	1.2	1.1	99.82	98.4	98.5	64				
<u>LOUISIANA</u>														
Aug.	16.8	3.66	9.9	16.7	1.9	0.7	93.20	93.4	87.0	276				
Sept.	17.4	3.99	9.9	12.6	1.5	0.5	97.71	97.5	95.5	1,764				
Oct.	17.1	3.99	10.1	13.1	2.5	0.6	96.60	94.6	91.5	2,910				
Nov.	17.1	4.12	10.5	10.5	3.0	0.8	98.09	93.7	92.0	1,100				
Dec.	17.2	4.07	10.4	11.3	4.8	1.0	97.91	84.8	85.5	262				
Jan.	16.9	4.08	10.4	11.4	4.8	1.2	97.16	86.3	83.5	64				
Feb.	16.7	4.03	11.2	11.4	3.6	1.1	95.18	92.8	91.0	14				
Mar.-July	16.6	4.14	10.1	11.3	4.2	1.0	95.13	89.5	86.0	36				
Season	17.2	4.01	10.1	12.6	2.4	0.6	97.07	94.7	92.0	6,426				



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

Month	Cottonseed analysis										Average index	Average grade	Samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Average index		Quantity	Quality			
							Percent	Percent					
	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>			<u>Number</u>
Aug.	17.1	3.96	10.1	14.1	1.9	0.8	96.55	94.0	91.5	214			
Sept.	17.5	4.00	10.3	13.1	0.8	0.7	98.43	98.5	97.5	5,654			
Oct.	17.5	4.00	10.5	12.7	1.3	0.8	98.71	98.3	97.5	9,798			
Nov.	17.7	4.12	10.8	10.1	1.8	1.3	100.85	97.5	98.5	3,768			
Dec.	17.7	4.03	10.8	11.2	3.2	1.6	100.04	93.1	93.0	966			
Jan.	17.6	4.02	10.5	11.6	3.8	2.0	99.56	90.4	90.5	214			
Feb.	17.6	4.08	10.4	11.4	3.1	1.3	99.48	92.1	92.5	96			
Mar.-July	17.5	4.19	10.7	10.8	3.5	1.4	99.91	91.9	92.5	226			
Season	17.5	4.02	10.5	12.2	1.4	0.9	99.09	97.8	97.0	20,936			
<u>MISSISSIPPI</u>													
Aug.	17.8	3.86	10.7	11.3	7.0	2.6	99.21	74.6	72.0	14			
Sept.	16.8	3.92	10.1	15.2	1.1	0.5	95.11	96.3	92.0	856			
Oct.	17.4	3.94	9.7	14.0	1.2	0.6	97.19	97.8	95.5	2,320			
Nov.	17.6	4.05	10.1	11.3	1.3	1.5	99.00	98.7	98.0	686			
Dec.	17.1	4.00	10.4	12.3	2.2	2.5	96.73	95.7	92.5	146			
Jan.	17.2	3.91	10.1	13.3	3.1	2.6	96.73	91.7	88.5	32			
Feb.	16.6	3.87	9.9	14.9	5.2	3.5	93.67	81.2	75.0	30			
Mar.-July	17.3	4.13	10.2	11.7	4.4	2.1	97.76	85.1	85.5	44			
Season	17.3	3.96	9.9	13.7	1.4	0.9	97.02	97.2	94.5	4,128			
<u>MISSOURI</u>													

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

Month	Cottonseed analysis								Average index		Average grade	Samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Average index					
							Percent	Percent	Quantity	Quality		
	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>				<u>Number</u>	
<u>NEW MEXICO</u>												
Oct.	19.9	3.84	11.7	8.1	0.5	0.7	109.06	99.9	109.0	194		
Nov.	19.4	3.85	10.6	7.8	0.5	1.3	105.55	99.5	105.5	320		
Dec.	18.2	3.87	10.0	7.7	0.5	2.4	99.78	98.5	98.5	260		
Jan.	17.8	3.88	9.9	8.1	0.7	3.0	98.37	98.0	96.5	150		
Feb.	17.3	3.75	10.5	8.4	0.7	4.6	96.65	96.3	94.0	40		
Mar.-July	17.9	3.71	11.9	7.6	1.1	4.7	99.70	96.0	95.5	10		
Season	18.8	3.85	10.6	7.9	0.5	1.9	103.18	98.9	102.5	974		
<u>NORTH CAROLINA 1/</u>												
Sept.	18.8	3.68	-	12.5	1.4	0.7	102.17	97.6	100.0	280		
Oct.	19.1	3.73	-	11.8	0.7	0.7	103.95	99.4	103.5	1,424		
Nov.	19.4	3.89	-	9.5	0.7	1.1	106.00	99.5	105.5	970		
Dec.	19.5	3.87	-	9.6	1.1	1.3	106.18	99.1	105.5	382		
Jan.	19.3	3.88	-	10.1	1.2	1.1	105.44	99.2	104.5	90		
Feb.	19.5	3.97	-	8.9	1.2	1.0	107.30	98.6	106.0	44		
Mar.-July	18.5	3.89	-	10.3	2.2	1.2	102.41	96.2	98.5	48		
Season	19.2	3.80	-	10.8	0.9	0.9	104.74	99.2	104.0	3,238		

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

Month	Cottonseed analysis							Average index		Average grade	Samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Average index				
							Percent	Percent	Quantity		
Percent	Percent	Percent	Percent	Percent	Percent	Percent	Quantity	Quality	Number		
<u>OKLAHOMA</u>											
Sept.	17.0	4.14	10.5	10.6	0.9	1.3	97.70	99.0	97.0	42	
Oct.	17.0	4.20	10.6	10.0	0.6	1.1	98.11	99.5	98.0	464	
Nov.	17.1	4.18	10.7	10.0	0.5	1.1	98.28	99.7	98.5	920	
Dec.	17.5	4.08	10.5	9.6	0.6	1.5	99.25	99.4	99.0	1,252	
Jan.	17.4	3.96	10.3	10.1	0.8	1.9	97.87	98.9	97.0	558	
Feb.	17.3	3.97	10.6	10.5	1.0	2.1	97.74	98.6	96.5	132	
Mar.-July	17.0	3.96	10.9	10.1	1.5	2.2	96.90	97.7	95.0	88	
Season	17.3	4.10	10.5	9.9	0.6	1.4	98.48	99.3	98.0	3,456	
<u>SOUTH CAROLINA 1/</u>											
Aug.	18.7	3.69	-	13.9	1.7	0.6	102.55	96.1	99.0	38	
Sept.	19.0	3.75	-	12.3	0.9	0.5	103.67	99.2	103.0	1,160	
Oct.	18.9	3.81	-	11.6	0.9	0.6	103.60	99.5	103.5	1,608	
Nov.	19.1	3.95	-	9.7	1.3	1.3	105.02	99.0	104.0	734	
Dec.	19.1	3.94	-	9.8	1.6	1.5	105.08	97.6	103.0	280	
Jan.	19.2	3.90	-	9.9	2.3	1.4	105.40	96.4	102.0	178	
Feb.	19.2	3.96	-	9.6	2.0	1.2	105.56	96.9	103.0	184	
Mar.-July	19.1	3.96	-	9.6	2.3	1.2	105.00	96.4	101.0	80	
Season	19.0	3.84	-	11.2	1.2	0.8	104.14	98.9	103.0	4,262	



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

Month	Cottonseed analysis										Average index		Average grade	Samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Quantity		Quality					
							Percent	Percent						
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Number				
<u>TENNESSEE</u>														
Aug.	17.2	3.62	11.5	10.6	8.0	3.6	96.25	72.5	60.0	2				
Sept.	18.0	3.72	10.1	14.9	1.2	0.6	98.90	96.5	95.5	994				
Oct.	18.3	3.84	10.1	12.8	1.1	0.8	100.84	98.7	100.0	3,768				
Nov.	18.5	3.99	10.3	10.1	1.2	1.6	102.80	99.0	102.0	1,482				
Dec.	18.0	3.95	10.5	11.1	1.7	2.4	100.68	97.5	98.5	428				
Jan.	18.3	3.90	10.2	11.7	1.9	2.3	101.39	95.6	97.5	94				
Feb.	18.4	4.01	10.3	11.6	2.0	1.8	102.65	95.2	98.0	48				
Mar.-July	18.2	3.98	10.2	11.0	1.9	1.8	101.33	96.3	98.5	56				
Season	18.3	3.87	10.2	12.4	1.2	1.1	100.99	98.3	99.5	6,872				
<u>TEXAS</u>														
Aug.	16.9	3.95	11.7	11.0	0.5	0.7	97.18	99.7	97.0	1,346				
Sept.	16.7	4.14	11.4	8.9	0.6	1.1	97.56	99.5	97.5	1,142				
Oct.	17.5	4.13	11.1	9.1	0.6	1.2	100.34	99.3	100.0	2,566				
Nov.	17.9	4.16	10.2	8.2	0.5	1.4	100.74	99.4	100.5	5,000				
Dec.	18.1	4.13	9.4	7.9	0.5	1.9	100.25	99.0	99.5	8,368				
Jan.	18.0	4.07	9.1	8.3	0.5	2.4	99.44	98.5	98.0	4,914				
Feb.	17.8	3.97	9.1	8.7	0.7	3.3	97.96	97.5	95.5	1,018				
Mar.-July	17.7	4.02	9.5	8.6	1.0	3.7	98.23	96.9	95.5	350				
Season	17.8	4.11	9.9	8.4	0.5	1.8	99.78	99.0	99.0	24,704				
<u>VIRGINIA 1/</u>														
Sept.	17.5	3.62	-	16.8	1.9	0.9	94.00	94.8	93.0	4				
Oct.	19.4	3.80	-	12.0	1.1	0.7	105.33	97.6	103.0	36				
Nov.	19.9	3.91	-	9.8	0.8	0.9	108.47	99.5	108.0	50				
Dec.	19.6	3.92	-	9.8	1.0	1.1	106.97	99.5	107.0	16				
Jan.	20.0	3.97	-	9.6	1.0	0.4	108.75	100.0	108.5	6				
Feb.	-	-	-	-	-	-	-	-	-	-				
Mar.-July	-	-	-	-	-	-	-	-	-	-				
Season	19.6	3.87	-	10.7	1.0	0.8	106.75	98.8	106.0	112				

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

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

District number	Cottonseed analysis							Average index		Samples Number
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Average index			
							Quantity	Quality		
Percent	Percent	Percent	Percent	Percent	Percent	Percent	Quantity	Quality	Number	
<u>ALABAMA</u> 1/										
1	18.6	3.88	11.1	12.1	0.9	1.1	103.28	98.7	102.0	652
2	19.1	3.88	10.8	11.6	0.7	0.9	104.88	99.0	104.0	3,352
3	18.8	3.96	10.9	11.4	0.7	0.9	104.19	99.4	103.5	900
4	18.8	3.79	11.2	11.6	1.6	0.6	103.76	97.8	101.5	284
5	18.6	3.97	-	11.9	2.9	1.0	103.36	94.3	97.5	880
6	18.8	3.94	-	11.7	1.7	0.7	103.80	98.1	102.0	358
7	18.5	3.74	-	13.7	4.8	0.7	101.54	85.1	86.0	26
8	18.9	3.80	-	13.0	4.5	0.9	103.22	87.6	90.5	550
9	18.9	3.78	-	12.4	3.1	0.5	103.19	92.6	95.5	792
State	18.9	3.88	10.9	11.8	1.6	0.9	104.11	96.9	101.0	7,794
<u>ARIZONA</u>										
5	19.1	4.10	10.6	8.2	0.7	1.5	106.01	98.4	104.5	2,398
7	19.0	4.06	10.3	8.7	1.0	1.8	105.39	98.2	103.5	332
9	19.5	4.00	12.1	7.1	0.5	1.3	108.71	99.3	108.0	350
State	19.1	4.08	10.7	8.1	0.7	1.5	106.25	98.5	105.0	3,080
<u>ARKANSAS</u>										
2	18.7	4.01	9.2	12.1	0.8	0.9	102.08	99.5	102.5	20
3	17.7	3.95	10.1	12.7	1.2	1.0	98.90	96.3	97.5	6,196
4	17.8	4.09	10.5	11.2	0.9	1.0	100.67	99.4	100.5	130
5	18.0	4.05	10.3	11.2	1.0	1.2	101.11	98.9	100.5	270
6	17.7	4.05	10.4	12.3	1.3	1.0	99.75	98.0	98.0	5,904
7	17.9	4.10	10.0	11.1	0.9	0.9	100.37	99.3	100.0	378
8	18.3	4.03	9.9	11.6	2.1	2.1	101.55	95.6	97.0	172
9	17.6	4.09	10.5	11.8	1.3	1.0	99.94	98.7	99.0	2,768
State	17.7	4.02	10.3	12.3	1.2	1.0	99.52	96.2	98.0	15,838

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

District number	Cottonseed analysis							Average index		Average grade	Samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Average index				
							Quantity	Quality			
Percent	Percent	Percent	Percent	Percent	Percent	Percent	Quantity	Quality	Number		
<u>CALIFORNIA 1/</u>											
5	18.5	4.09	-	10.1	0.6	0.9	103.52	99.2	103.0	920	
8	18.5	4.08	10.3	9.0	0.6	1.4	103.54	99.3	103.0	520	
State	18.5	4.09	10.3	9.7	0.6	1.1	103.53	99.2	103.0	1,440	
<u>GEORGIA 1/</u>											
1	19.6	3.94	-	10.6	0.8	1.0	107.52	99.6	107.0	338	
2	18.8	4.07	-	10.8	1.8	0.8	104.59	97.0	102.0	142	
3	18.7	4.00	-	11.5	1.1	0.7	103.87	99.1	103.0	136	
4	19.3	3.91	-	11.2	2.4	0.8	105.78	95.9	102.0	550	
5	18.6	4.01	-	11.8	2.4	0.6	103.67	95.0	98.5	1,004	
6	18.6	3.92	-	11.4	1.8	0.7	102.79	96.8	100.0	962	
7	18.7	3.92	-	11.5	2.4	0.6	103.49	95.7	99.0	724	
8	19.0	3.81	-	11.8	2.9	0.6	103.81	93.4	97.0	1,206	
9	18.7	3.79	-	12.0	2.4	0.7	102.85	94.3	97.5	262	
State	18.9	3.91	-	11.5	2.3	0.7	103.97	95.6	99.5	5,324	
<u>LOUISIANA</u>											
1	17.3	4.21	9.5	11.5	2.0	0.4	98.39	96.7	95.5	728	
2	16.9	4.17	9.9	12.3	2.0	0.7	96.82	97.0	94.5	262	
3	17.1	4.05	10.3	12.1	1.5	0.7	97.03	97.8	95.5	3,304	
4	17.2	4.19	9.5	12.0	3.5	0.5	97.59	91.7	89.0	212	
5	17.4	3.84	10.3	13.5	3.8	0.7	96.94	89.2	86.5	1,618	
6	16.8	3.65	10.6	14.5	3.9	0.7	94.22	89.4	84.0	98	
7	17.1	3.67	9.8	16.1	5.2	0.6	94.64	79.4	77.0	118	
8	17.2	3.70	10.4	15.3	4.3	0.8	95.76	85.4	82.0	86	
State	17.2	4.01	10.1	12.6	2.4	0.6	97.07	94.7	92.0	6,426	



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

District number	Cottonseed analysis							Average Index		Average grade	Samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Average Index				
							Quantity	Quality			
Percent	Percent	Percent	Percent	Percent	Percent	Percent	Quantity	Quality	Number		
<u>MISSISSIPPI</u>											
1	17.2	4.08	10.8	12.3	1.1	1.0	98.37	98.4	97.0	5,474	
2	17.7	4.01	10.4	12.1	1.2	1.1	99.61	98.5	98.5	2,688	
3	18.4	3.92	10.4	12.2	0.9	1.1	101.95	98.7	101.0	1,422	
4	17.2	4.09	10.5	12.2	1.2	0.8	98.25	98.5	97.0	6,712	
5	17.9	3.95	10.2	12.2	2.0	0.8	99.75	96.5	96.5	2,020	
6	18.1	3.90	10.3	12.3	1.6	0.9	100.58	97.6	98.5	1,108	
7	17.5	3.93	10.4	12.3	3.2	0.8	98.31	92.3	90.5	672	
8	18.2	3.82	10.5	12.5	3.3	0.9	100.53	91.6	92.0	632	
9	18.4	3.83	10.9	12.5	3.4	0.6	102.14	91.5	93.5	208	
State	17.5	4.02	10.5	12.2	1.4	0.9	99.09	97.8	97.0	20,936	
<u>NEW MEXICO</u>											
3	17.7	4.06	7.5	7.5	0.6	2.8	95.60	98.2	94.0	158	
7	19.4	3.75	11.6	7.4	0.7	1.3	106.06	99.1	105.5	32	
9	19.0	3.81	11.1	8.0	0.5	1.7	104.59	99.0	104.0	784	
State	18.8	3.85	10.6	7.9	0.5	1.9	103.18	98.9	102.5	974	
<u>NORTH CAROLINA 1/</u>											
1	19.2	3.92	-	12.6	0.6	0.4	106.25	99.5	106.0	2	
2	19.1	3.92	-	10.2	0.8	0.7	105.11	99.5	104.5	188	
3	19.6	3.79	-	10.6	0.8	0.7	106.06	99.4	105.5	1,052	
4	19.4	3.84	-	10.5	1.2	0.4	105.28	97.1	103.0	36	
5	19.4	3.91	-	10.4	0.7	0.4	106.10	99.3	105.5	114	
6	19.4	3.75	-	10.5	0.9	0.8	105.14	99.4	104.5	296	
8	19.2	3.93	-	10.9	0.7	0.6	105.32	99.3	105.0	414	
9	18.9	3.75	-	11.2	1.0	1.3	102.99	98.8	102.0	1,136	
State	19.2	3.80	-	10.8	0.9	0.9	104.74	99.2	104.0	3,238	

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

District number	Cottonseed analysis							Average index		Average grade	Samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Average index				
							Percent	Percent	Quantity		
	Percent	Percent	Percent	Percent	Percent	Percent	Percent				Number
3	18.3	4.27	8.5	9.9	0.4	1.3	101.41	99.6	101.0	22	
4	17.2	4.01	10.7	9.9	0.6	1.8	97.87	99.0	97.0	944	
5	17.4	4.20	10.1	10.0	0.6	1.1	99.37	99.6	99.0	312	
6	17.6	4.17	9.4	10.2	0.5	1.4	99.03	99.4	99.0	132	
7	17.1	4.11	10.8	9.8	0.6	1.3	98.31	99.4	98.0	1,838	
8	18.1	4.16	9.5	9.9	0.7	1.3	100.96	99.5	100.5	182	
9	17.8	4.09	9.2	10.9	0.8	1.6	99.29	99.2	99.0	26	
State	17.3	4.10	10.5	9.9	0.6	1.4	98.48	99.3	98.0	3,456	
<u>OKLAHOMA</u>											
1	19.2	3.95	-	11.0	0.7	0.6	105.47	99.5	105.0	328	
2	19.4	3.83	-	10.9	1.1	0.5	105.39	98.6	104.0	114	
3	19.2	3.77	-	11.0	1.2	0.9	104.35	98.9	103.5	1,406	
4	18.9	3.88	-	11.2	1.0	1.0	103.88	99.2	103.0	278	
5	19.0	3.86	-	11.1	1.2	0.8	104.15	98.9	103.0	1,706	
8	18.5	3.88	-	11.8	1.4	0.7	102.20	98.2	100.5	428	
State	19.0	3.84	-	11.2	1.2	0.8	104.14	98.9	103.0	4,262	
<u>SOUTH CAROLINA 1/</u>											

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

District number	Cottonseed analysis						Average index		Average grade	Samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter	Quantity	Quality		
	Percent	Percent	Percent	Percent	Percent	Percent			Number	
<u>TENNESSEE</u>										
1	17.8	3.87	10.2	12.9	1.4	1.1	99.04	97.8	97.0	2,466
2	18.5	3.86	10.2	12.3	1.1	1.1	101.80	98.5	100.5	3,854
3	18.8	3.94	10.5	11.2	0.8	0.9	103.60	99.0	103.0	292
4	19.1	3.95	10.3	11.2	0.7	0.9	104.76	99.5	104.5	200
5	19.0	3.86	10.9	11.4	0.8	1.3	104.33	99.2	104.0	58
6	19.2	3.77	10.5	11.6	0.8	0.9	104.50	100.0	106.0	2
State	18.3	3.87	10.2	12.4	1.2	1.1	100.99	98.3	99.5	6,872
<u>TEXAS</u>										
1	18.1	4.11	9.2	7.8	0.5	2.0	100.16	98.9	99.5	14,534
2	17.5	4.19	10.0	9.0	0.5	1.7	99.29	99.2	99.0	4,604
3	17.0	4.22	10.6	9.6	0.6	1.0	98.13	99.8	98.0	108
4	16.2	4.17	11.5	8.9	0.6	1.6	95.73	99.1	95.5	1,794
5	17.5	4.07	10.4	10.8	0.9	1.2	98.94	98.9	98.0	336
6	19.5	3.90	11.4	8.1	0.5	2.2	107.46	98.5	106.0	1,212
7	17.0	4.30	11.6	8.1	0.6	1.0	99.55	99.7	99.5	276
8	16.1	4.06	11.6	10.4	0.6	1.1	94.87	99.6	95.0	558
9	17.2	4.00	10.5	11.8	0.9	0.7	97.87	98.6	97.0	454
10	17.2	3.87	12.4	10.7	0.6	0.6	98.44	99.8	98.5	828
State	17.8	4.11	9.9	8.4	0.5	1.8	99.78	99.0	99.0	24,704

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



Table 6. Percentage distribution of quantity index by specified frequencies, by states and United States, 1965

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	
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Ala.	-	-	-	-	*	0.4	8.0	53.9	37.7	100.0	
Ariz.	-	-	-	-	-	0.1	9.3	23.5	66.3	100.0	
Ark.	*	*	*	*	0.1	0.3	47.5	39.1	5.7	100.0	
Calif.	-	-	-	-	-	0.4	18.9	26.6	47.4	100.0	
Fla.	-	-	-	-	-	3.8	15.4	55.1	25.7	100.0	
Ga.	-	-	-	-	-	0.3	7.6	57.5	34.6	100.0	
Ky.	-	-	-	-	-	6.3	43.6	47.0	3.1	100.0	
Ia.	-	*	-	-	0.2	1.5	58.4	18.6	0.8	100.0	
Miss.	*	*	*	*	*	0.4	53.2	34.9	3.8	100.0	
Mo.	-	-	-	-	0.1	1.6	52.8	18.6	2.1	100.0	
N. Mex.	-	-	0.2	-	-	1.0	22.6	23.7	43.9	100.0	
N. Car.	-	-	-	-	0.1	0.1	5.1	47.1	47.0	100.0	
Okla.	-	-	-	0.1	-	0.2	57.6	30.8	0.9	100.0	
S. Car.	-	-	-	-	-	0.1	4.8	57.2	37.8	100.0	
Tenn.	-	-	-	-	0.1	0.1	33.7	52.7	10.8	100.0	
Tex.	*	-	*	0.1	0.3	1.4	34.3	41.1	10.6	100.0	
Va.	-	-	-	-	-	1.8	1.8	23.2	73.2	100.0	
All other	-	-	-	-	-	-	25.0	49.9	25.1	100.0	
U. S.	*	*	*	*	0.1	0.6	36.4	39.5	15.2	100.0	

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

Table 7. Percentage distribution of quality index by specified frequencies, by states and United States, 1965

State	Quality Index										Total
	Below grade	40.0-49.9	50.0-59.9	70.0-79.9	80.0-84.9	85.0-89.9	90.0-94.9	95.0-99.9	Prime quality 100		
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Ala.	0.1	0.1	1.1	2.6	1.8	2.8	5.8	54.5	31.2	100.0	
Ariz.	-	-	0.1	1.0	1.3	2.7	4.5	23.1	67.3	100.0	
Ark.	-	-	0.1	0.3	0.5	1.0	4.1	66.6	27.4	100.0	
Calif.	-	-	0.1	-	-	0.4	2.6	36.5	60.4	100.0	
Fla.	1.3	1.3	3.8	16.7	9.0	7.7	8.9	39.8	11.5	100.0	
Ga.	0.1	0.3	1.6	2.8	2.2	8.0	12.3	38.3	34.4	100.0	
Ky.	-	-	-	-	-	-	-	84.4	15.6	100.0	
La.	0.2	0.3	2.1	2.8	3.6	6.5	14.2	45.0	25.3	100.0	
Miss.	*	*	0.4	0.8	0.8	1.3	5.7	68.7	22.3	100.0	
Mo.	*	*	0.4	0.3	0.5	0.9	7.9	80.2	9.8	100.0	
N. Mex.	-	-	-	-	-	0.2	3.9	56.8	39.1	100.0	
N. Car.	-	-	0.1	0.1	0.2	1.1	1.2	44.8	52.5	100.0	
Okla.	-	-	-	0.2	-	0.2	0.7	57.7	41.2	100.0	
S. Car.	*	-	*	0.1	0.3	1.0	3.5	46.5	48.6	100.0	
Tenn.	-	-	0.2	0.3	*	0.5	2.8	75.5	20.7	100.0	
Tex.	-	*	*	*	0.1	0.2	1.4	69.9	28.4	100.0	
Va.	-	-	-	1.8	-	-	5.4	35.8	57.0	100.0	
All other	-	-	-	-	-	-	-	91.7	8.3	100.0	
U. S.	*	0.1	0.4	0.8	0.8	1.7	4.8	61.7	29.7	100.0	

\* Less than 0.05 percent.

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

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 - 104.9	105.0 - 109.9	110.0 and over	Total	
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Ala.	0.1	1.6	1.3	2.1	2.2	5.1	15.8	40.9	29.5	1.4	100.0	
Ariz.	-	0.3	0.6	1.1	2.6	5.4	8.9	15.8	46.5	18.8	100.0	
Ark.	-	0.5	0.4	0.8	3.2	17.2	40.6	31.7	5.2	0.4	100.0	
Calif.	-	0.1	-	0.3	2.4	10.4	15.0	23.4	41.5	6.9	100.0	
Fla.	-	11.5	5.1	9.0	11.5	11.5	16.7	25.7	9.0	-	100.0	
Ga.	0.1	2.4	1.3	1.7	3.5	9.5	17.1	42.2	21.0	1.2	100.0	
Ky.	-	-	-	-	-	21.9	37.4	37.6	3.1	-	100.0	
La.	0.3	4.5	3.4	5.7	11.9	25.7	35.1	12.7	0.7	-	100.0	
Miss.	*	0.9	0.5	1.0	3.8	17.8	46.8	26.5	2.7	*	100.0	
Mo.	*	0.9	0.5	1.9	11.6	33.5	36.7	13.1	1.8	*	100.0	
N. Mex.	-	0.2	-	0.4	3.5	12.5	21.4	19.9	27.9	14.2	100.0	
N. Car.	-	0.1	-	0.3	0.9	2.0	8.5	42.9	42.2	3.1	100.0	
Okla.	-	0.1	0.2	0.1	1.0	13.5	54.8	29.4	0.8	0.1	100.0	
S. Car.	*	*	0.1	0.2	0.8	1.8	11.2	52.5	33.1	0.3	100.0	
Tenn.	-	0.4	0.1	0.3	1.4	10.1	37.7	39.7	10.2	0.1	100.0	
Tex.	-	0.2	0.2	0.6	2.8	14.9	34.9	36.6	8.3	1.5	100.0	
Va.	-	-	1.8	-	1.8	1.8	1.8	23.3	57.0	12.5	100.0	
All other	-	-	-	-	-	8.3	16.7	58.4	16.6	-	100.0	
U. S.	*	0.9	0.6	1.2	3.6	14.5	33.8	32.0	11.9	1.5	100.0	

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

\* Less than 0.05 percent.



Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1965

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	
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Ala.	-	0.1	0.1	0.3	1.2	6.7	16.7	27.4	43.0	4.5	-	100.0
Ariz.	-	0.1	0.6	2.0	5.1	8.0	9.0	10.6	45.3	17.8	1.5	100.0
Ark.	0.3	1.7	4.2	11.6	21.7	23.7	18.9	10.3	6.5	1.0	0.1	100.0
Calif.	-	1.7	2.8	7.6	8.3	9.6	11.1	15.8	36.1	7.0	-	100.0
Fla.	-	-	-	2.6	2.6	5.1	20.5	25.6	41.0	2.6	-	100.0
Ga.	0.1	-	0.1	0.7	1.8	6.5	17.6	27.6	39.3	6.1	0.2	100.0
Ky.	-	-	6.3	6.3	9.4	15.6	15.6	24.9	21.9	-	-	100.0
La.	0.5	4.4	11.4	21.5	28.6	19.7	9.4	3.2	1.2	0.1	-	100.0
Miss.	0.4	2.1	6.4	15.8	23.3	22.6	15.8	8.7	4.8	0.1	-	100.0
Mo.	0.3	5.9	11.4	19.3	21.5	18.7	11.6	6.8	3.9	0.4	0.2	100.0
N. Mex.	0.4	0.4	1.2	4.3	7.8	13.8	12.7	11.7	27.0	18.0	2.7	100.0
N. Car.	0.1	0.2	0.4	0.7	1.1	2.2	7.5	19.2	54.8	13.1	0.7	100.0
Okla.	0.2	6.3	10.2	16.5	25.0	22.2	11.9	5.5	2.0	0.2	-	100.0
S. Car.	0.1	-	*	0.3	1.0	3.4	13.3	26.2	50.2	5.5	*	100.0
Tenn.	0.1	0.2	0.9	2.8	8.5	18.0	26.0	24.7	18.2	0.6	-	100.0
Tex.	0.9	5.8	6.5	7.4	10.7	17.3	22.7	15.8	10.8	1.6	0.5	100.0
Va.	-	-	-	-	1.8	1.8	3.6	8.9	49.9	32.2	1.8	100.0
All other	-	-	-	-	-	8.3	-	25.0	58.4	8.3	-	100.0
U. S.	0.4	2.7	4.9	9.4	14.5	16.9	17.4	14.5	16.5	2.6	0.2	100.0

\* Less than 0.05 percent.

Table 10. Percentage distribution of ammonia by specified frequencies, by states and United States, 1965

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	
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Ala.	-	*	0.1	0.5	2.8	10.4	26.0	34.5	19.8	5.9	100.0
Ariz.	-	-	-	-	0.1	1.2	5.6	18.1	39.8	35.2	100.0
Ark.	*	*	-	*	0.4	2.5	11.9	28.0	34.1	23.1	100.0
Calif.	-	-	-	-	0.1	1.2	7.5	17.9	36.4	36.9	100.0
Fla.	-	-	1.3	1.3	7.7	26.9	37.1	23.1	2.6	-	100.0
Ga.	-	-	0.1	0.9	3.1	10.4	22.4	28.0	22.5	12.6	100.0
Ky.	-	-	-	-	6.3	37.5	28.1	9.4	15.6	3.1	100.0
La.	-	-	-	0.7	2.6	7.0	13.8	20.2	25.7	30.0	100.0
Miss.	*	*	*	*	0.5	2.8	10.1	27.3	36.6	22.7	100.0
Mo.	-	-	-	0.1	1.2	4.7	15.9	35.5	31.4	11.2	100.0
N. Mex.	-	-	-	0.6	6.6	19.9	21.8	25.1	16.0	10.0	100.0
N. Car.	-	-	-	0.6	6.2	20.7	32.7	26.9	10.1	2.8	100.0
Okla.	-	-	-	0.1	0.2	1.8	7.3	18.6	27.9	44.1	100.0
S. Car.	-	-	-	0.7	4.8	15.9	29.3	29.9	15.6	3.8	100.0
Tenn.	-	-	-	0.6	2.9	12.4	28.1	32.7	18.0	5.3	100.0
Tex.	*	-	-	*	0.3	1.5	6.0	16.8	32.4	43.0	100.0
Va.	-	-	1.8	1.8	5.4	8.9	23.2	26.8	25.0	7.1	100.0
All other	-	-	-	8.3	25.0	16.7	33.3	16.7	-	-	100.0
U. S.	*	*	*	0.2	1.4	5.5	14.1	25.2	29.3	24.3	100.0

\* Less than 0.05 percent.

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

State	Lintners											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	Percent	Percent	
Ala.	-	0.9	13.1	42.2	33.7	8.4	1.5	0.2	-	100.0		
Ariz.	0.1	3.8	20.1	39.9	22.5	10.1	2.9	0.6	-	100.0		
Ark.	0.1	6.1	26.2	40.3	18.2	4.6	0.5	*	-	100.0		
Calif.	-	5.8	22.3	53.8	17.3	0.8	-	-	-	100.0		
Fia.	-	-	-	-	-	-	-	-	-	-	-	
Ga.	-	-	-	-	-	-	-	-	-	-	-	
Ky.	-	15.6	31.3	40.6	12.5	-	-	-	-	100.0		
Ia.	*	11.2	31.9	37.2	16.4	3.1	0.2	-	*	100.0		
Miss.	*	4.1	22.0	44.0	24.6	4.9	0.4	-	-	100.0		
Mo.	0.3	13.8	38.6	36.7	8.8	1.8	-	-	-	100.0		
N. Mex.	7.4	12.1	10.7	13.3	31.7	23.6	1.2	-	-	100.0		
N. Car.	-	-	-	-	-	-	-	-	-	-	-	
Okla.	0.7	9.4	19.0	31.5	29.0	9.3	1.1	-	-	100.0		
S. Car.	-	-	-	-	-	-	-	-	-	-	-	
Tenn.	-	4.6	32.7	47.9	13.5	1.2	0.1	-	-	100.0		
Tex.	7.8	25.7	16.0	18.1	18.6	10.5	3.0	0.3	-	100.0		
Va.	-	-	-	-	-	-	-	-	-	-	-	
All other	-	8.3	41.7	41.7	8.3	-	-	-	-	100.0		
U. S.	2.2	11.6	22.9	35.1	20.4	6.5	1.2	0.1	*	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	Percent	Percent
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
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
Ark.	46.0	54.0	*	*	*	5.8	6.9	12.1	21.2	35.7	15.5	2.5	0.3	*	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
Fla.	34.6	64.1	1.3	-	1.3	3.8	9.0	20.5	53.8	5.2	1.3	3.8	3.8	1.3	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
Ky.	28.2	71.8	-	-	-	6.3	9.4	-	12.5	46.8	25.0	-	-	-	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
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
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
N. Mex.	100.0	-	-	-	12.9	78.1	7.8	1.2	-	-	-	-	-	-	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
Okla.	96.4	3.6	-	-	0.1	21.0	39.1	27.6	8.6	3.2	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
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
Tex.	97.7	2.3	-	*	10.3	64.7	13.4	6.5	2.8	1.8	0.4	0.1	*	-	100.0
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
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 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	
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
Ariz.	90.3	9.7	-	66.2	15.7	5.7	2.7	4.9	3.8	0.9	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
Calif.	97.7	2.3	-	56.6	30.2	8.5	2.4	1.7	0.4	0.1	0.1	-	-	-	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
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
Ky.	93.7	6.3	-	-	25.0	65.6	3.1	6.3	-	-	-	-	-	-	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
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
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
N. Mex.	96.8	1.2	-	56.7	39.5	1.4	1.2	0.4	0.4	-	0.4	-	-	-	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
Okla.	96.3	1.7	-	39.2	50.6	6.9	1.6	0.9	0.5	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
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
Tex.	99.4	0.6	*	55.7	40.3	2.9	0.5	0.4	0.1	0.1	*	*	*	*	100.0
Va.	92.8	7.2	-	10.7	67.7	9.0	5.4	3.6	1.8	-	1.8	-	-	-	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 14. 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	10.1 and over	Percent
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
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
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	1.1	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	0.1	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	-	0.1	100.0
Fla.	92.3	7.7	-	60.3	32.0	6.4	1.3	-	-	-	-	-	-	100.0
Ga.	86.2	13.8	-	43.0	43.2	12.2	1.2	0.3	0.1	-	*	-	-	100.0
Ky.	68.8	31.2	-	21.9	46.9	18.7	9.4	3.1	-	-	-	-	-	100.0
La.	89.3	10.7	-	52.3	37.0	8.7	1.2	0.6	0.2	-	*	-	-	100.0
Miss.	75.5	24.5	*	30.4	45.1	19.5	3.7	0.9	0.3	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	*	0.1	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	0.2	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	-	0.1	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
S. Car.	77.3	22.7	-	41.4	35.9	17.4	3.5	1.4	0.4	*	*	-	-	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	-	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	0.3	100.0
Va.	75.0	25.0	-	35.7	39.3	21.4	3.6	-	-	-	-	-	-	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	0.1	100.0

\* Less than 0.05 percent.



Table 15. Number of cottonseed samples by specified groups, by qualities, and number reduced in grade for specified causes, by states and United States, 1965

State	Quality		Total samples graded	Reduced due to excess					
	Prime	Below prime and off quality		Moisture	Free fatty acids	Foreign matter			
							Number	Number	Number
Ala.	2,428	5,362	7,794	3,344	1,650	2,080			
Ariz.	2,080	1,000	3,080	64	298	968			
Ark.	4,350	11,488	15,838	8,548	1,620	4,312			
Calif.	868	572	1,440	222	34	394			
Fla.	18	136	156	102	112	12			
Ga.	1,840	3,480	5,324	1,800	2,070	732			
Ky.	10	54	64	46	4	20			
La.	1,622	4,788	6,426	3,682	2,722	690			
Miss.	4,646	16,284	20,936	11,770	3,518	5,138			
Mo.	406	3,720	4,128	3,282	432	902			
N. Mex.	382	592	974	-	12	594			
N. Car.	1,698	1,540	3,238	740	150	832			
Okla.	1,424	2,032	3,456	122	54	1,976			
S. Car.	2,064	2,196	4,262	1,122	496	966			
Tenn.	1,422	5,450	6,872	3,850	456	2,348			
Tex.	7,022	17,682	24,704	542	166	17,272			
Va.	64	48	112	16	8	28			
All other	2	22	24	10	-	14			
Total	32,346	76,446	108,828	39,262	13,802	39,298			