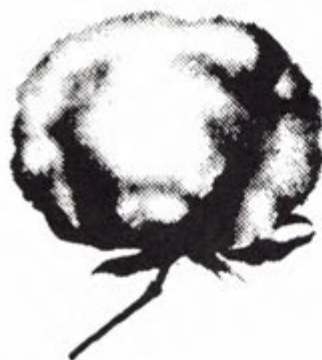


OCT 1 1970

# COTTONSEED QUALITY

## CROP OF 1969



***UNITED STATES DEPARTMENT OF AGRICULTURE***

***Consumer and Marketing Service Cotton Division***

***Memphis, Tennessee***

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Cottonseed Quality - 1969 Crop

The average grade of cottonseed in the 1969-70 season was down slightly from a year earlier and was the lowest since 1965-66. The average oil content of seed from the 1969 crop was the lowest in more than 25 years while the ammonia content was the highest in three years. The average linters content was down slightly from the previous year. Moisture averaged the same as a year ago while free fatty acids and foreign material averaged slightly higher.

Data from grade certificates covering 62,500 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 1969-70 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,  
1950-1969

Year beginning August 1	Cottonseed quantity and quality factors						Quantity	Quality	Average grade	Number of samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter				
	Percent	Percent	Percent	Percent	Percent	Percent				
1950	18.7	3.64	-	12.8	1.9	1.1	101.02	95.0	96.0	87,663
1951	18.5	3.88	-	11.0	1.5	1.0	101.56	96.5	98.0	124,398
1952	18.6	4.04	-	9.5	1.0	0.9	102.95	98.1	101.0	145,146
1953	18.7	4.00	-	9.0	0.7	0.8	103.46	99.0	102.5	166,916
1954	18.2	4.12	11.4	9.2	0.7	1.0	102.07	99.2	101.5	128,983
1955	18.9	3.95	10.4	10.4	0.7	0.9	102.96	98.9	102.0	101,174
1956	18.9	4.12	10.2	9.1	0.5	0.8	103.51	99.5	103.0	79,071
1957	18.8	3.78	10.0	12.5	2.5	1.3	100.81	92.9	93.5	74,016
1958	19.0	3.76	10.4	11.5	1.4	1.0	102.09	97.0	99.0	72,076
1959	18.8	3.89	10.2	11.4	1.3	0.9	102.10	97.1	100.0	87,772
1960	18.6	3.98	9.7	11.7	1.6	1.1	100.70	95.7	96.0	83,410
1961	18.8	3.83	10.1	10.9	0.9	1.2	101.16	98.0	99.5	92,251
1962	18.2	3.96	10.1	11.1	1.4	1.1	98.54	97.6	96.5	98,390
1963	18.7	4.05	10.3	9.3	0.7	1.1	103.55	99.2	103.0	86,035
1964	18.4	3.98	10.4	10.6	0.9	1.1	102.07	98.5	100.5	91,881
1965	18.0	4.00	10.3	11.1	1.2	1.2	100.49	97.9	98.5	108,828
1966	18.2	3.97	10.8	10.7	0.9	1.3	101.84	98.8	101.0	71,072
1967	18.4	3.89	10.7	10.1	0.9	1.3	101.97	98.5	100.5	45,838
1968	18.0	3.91	11.2	10.6	0.7	1.2	100.91	98.9	100.0	67,254
1969	17.9	3.97	11.1	10.6	0.9	1.3	101.03	98.3	99.5	62,522



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

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

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

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

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

Percent Linters on Cottonseed	Premium or Discount Factor (Effective July 1, 1968)
10.6 and over	Premium = (percent linters minus 10.5) x 1.0
10.5	None
10.4-9.0	Discount = (10.5 minus percent linters) x 1.0
8.9-4.0	Discount = (9.0 minus percent linters) x 2.0 + 1.50
3.9-0	Discount = (4.0 minus percent linters) x 2.5 + 11.50

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

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

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

Ex-ample 2/	Quality Factors										Quantity Factors					Grade				
	FFA 3/		FM 4/		H <sub>2</sub> O 5/		Total reduc-tions 6/		Qual-ity Index		Oil		NH <sub>3</sub> 8/		Linters		Sum of pro-ducts	Adjust-ment fac-tors	Quan-tity index	
	Total	Re-duction	Total	Re-duction	Total	Re-duction	Total	Re-duction	Total	Pro-duct 7/	Total	Pro-duct 7/	Total	Pro-duct 7/	Total					Pro-duct 7/
Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	
PRIME QUALITY SEED																				
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	12.0	+1.50	99.10	+5	104.10	104.0	
2	1.8	0.0	1.0	0.0	12.0	0.0	0.0	0.0	100.0	17.8	71.2	4.10	24.60	10.0	-0.50	95.30	+5	100.30	100.5	
3	1.2	0.0	0.8	0.0	9.6	0.0	0.0	0.0	100.0	16.2	64.8	3.97	23.82	9.5	-1.00	87.62	+5	92.62	92.5	
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	+1.50	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	+0.50	101.80	+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	-2.10	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	+3.50	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		
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	+1.00	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	-1.70	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	+2.70	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	+1.60	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	+0.10	91.62	+5	96.62	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	+1.00	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	+3.40	105.04	+5	110.04	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. For linters, the "products" are positive or negative depending on relationship of linters content to the 10.5 percent base.

8/ Ammonia in the seed.

\* Below grade 40. No numerical grade is indicated.





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

Table 3. Cottonseed: Quality factors, indexes and grades, by states and United States, 1968 and 1969 1/

State	Cottonseed analysis												Average index				Average grade	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968	1969
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969		
Va.	18.7	19.7	3.99	3.60	-	-	11.3	10.9	0.7	1.5	0.8	1.3	103.92	105.54	99.4	99.1	103.5	105.0
N.C.	18.5	19.3	4.12	3.73	-	-	10.5	11.2	0.8	1.7	0.9	1.4	103.82	104.80	99.2	98.0	103.5	103.0
S.C.	18.6	19.5	4.24	4.04	-	-	10.4	10.9	1.1	2.6	0.7	1.1	105.04	107.38	98.4	95.3	103.5	102.5
Ga.	18.5	19.3	4.19	4.03	-	-	10.7	11.4	1.0	4.4	0.7	1.1	104.22	106.63	99.3	88.2	103.5	94.0
Fla.	19.0	19.3	4.15	3.85	-	-	10.8	11.6	1.1	3.1	0.6	0.7	105.85	105.45	99.6	92.0	105.5	97.5
Ala.	18.7	18.5	3.99	3.94	11.2	11.1	11.3	11.9	0.8	1.3	1.1	1.2	104.33	103.19	99.1	97.9	103.5	101.0
Miss.	17.5	17.6	3.84	4.01	11.0	10.9	12.0	11.6	0.8	0.7	1.0	1.1	98.26	99.61	98.9	99.2	97.5	99.0
Tenn.	18.0	17.8	3.81	3.90	10.7	10.9	12.5	12.3	0.6	0.5	1.1	1.3	99.79	99.66	98.5	98.7	98.5	98.5
Mo.	17.7	17.5	3.73	3.86	11.2	11.0	12.8	12.6	0.6	0.5	0.9	1.1	98.50	98.59	98.5	98.6	97.0	97.5
Ark.	17.5	17.7	3.78	3.92	11.1	11.1	12.3	11.3	0.6	0.5	0.9	1.0	98.15	99.54	98.9	99.4	97.5	99.0
Ia.	18.0	17.3	3.79	3.92	10.9	11.5	11.6	10.6	1.1	0.6	0.6	0.6	99.87	98.64	99.0	99.7	99.0	98.5
Okla.	18.0	17.5	4.01	4.13	10.8	11.3	9.9	9.0	0.5	0.6	1.7	1.7	101.40	100.50	99.1	99.2	101.0	100.0
Tex.	18.2	17.8	3.95	4.01	11.4	11.1	8.6	8.8	0.5	0.8	1.9	2.1	102.22	100.86	98.8	98.6	101.5	99.5
N. Mex.	19.2	20.0	3.89	3.84	11.0	10.7	8.0	8.6	0.5	0.6	1.5	1.4	105.72	108.87	99.2	99.2	105.0	108.0
Ariz.	18.6	18.4	4.06	4.03	11.9	11.2	7.4	7.9	0.3	0.9	1.3	1.6	105.36	103.54	99.3	98.9	105.0	102.5
Nev.	18.2	17.4	3.71	3.67	12.8	15.5	8.6	6.8	0.4	0.6	1.2	1.1	102.37	101.85	97.5	99.6	102.0	102.0
Calif.	17.9	17.9	4.08	4.14	11.4	10.5	9.3	8.3	0.3	0.9	1.0	1.1	101.21	101.18	99.3	99.2	101.0	100.5
All other	18.2	18.0	3.53	3.79	10.9	10.8	12.7	12.0	0.9	0.5	1.0	0.9	99.08	99.82	97.6	99.3	96.5	99.5
U. S.	18.0	17.9	3.91	3.97	11.2	11.1	10.6	10.6	0.7	0.9	1.2	1.3	100.91	101.03	98.9	98.3	100.0	99.5

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

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1968 and 1969

VIRGINIA 1

Month	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968		1969	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1968	1969	1968	1969	No.	No.	
Oct.	18.5	19.6	3.99	3.56	-	-	11.7	11.6	0.5	1.3	0.6	0.5	102.81	104.40	99.4	99.6	102.5	104.0	18	10
Nov.	19.0	19.7	3.96	3.60	-	-	11.9	10.7	0.6	1.3	0.8	1.1	104.72	105.96	99.5	99.6	104.5	106.0	16	14
Dec.	18.8	19.8	4.04	3.70	-	-	10.3	10.7	0.6	1.6	1.0	2.1	104.92	106.38	99.8	98.6	104.5	105.0	18	12
Jan.	18.5	19.7	3.85	3.47	-	-	11.6	10.9	1.1	2.2	0.5	1.6	101.13	104.75	100.0	98.1	102.0	103.0	4	6
Feb.	18.7	-	4.07	-	-	-	11.6	-	2.7	-	0.7	-	103.50	-	95.5	-	100.5	-	2	-
Mar.-July	18.7	-	3.92	-	-	-	10.6	-	0.8	-	1.3	-	104.50	-	99.5	-	103.5	-	2	-
Season	18.7	19.7	3.99	3.60	-	-	11.3	10.9	0.7	1.5	0.8	1.3	103.92	105.54	99.4	99.1	103.5	105.0	60	42

NORTH CAROLINA 1

Sept.	18.0	19.2	4.26	3.88	-	-	9.7	11.4	0.5	1.2	0.6	0.8	102.54	105.60	99.9	98.2	102.5	104.0	182	30
Oct.	18.6	19.2	4.14	3.69	-	-	10.3	12.2	0.5	1.5	0.7	0.9	104.29	103.92	99.6	98.6	104.0	102.5	698	462
Nov.	18.6	19.4	4.04	3.71	-	-	11.5	10.9	0.7	1.6	1.0	1.5	103.52	104.82	99.4	98.7	103.0	104.0	382	496
Dec.	18.6	19.4	4.09	3.74	-	-	10.4	10.5	1.2	2.1	1.4	1.8	103.99	105.20	98.6	97.3	103.0	102.5	200	248
Jan.	18.7	19.6	4.11	3.82	-	-	10.5	10.1	1.5	2.2	1.5	1.5	104.36	106.81	97.9	96.3	102.5	103.0	80	70
Feb.	18.4	19.5	4.03	3.85	-	-	10.6	9.8	1.8	2.9	1.6	1.7	102.65	106.72	97.4	94.5	100.0	100.5	42	52
Mar.-July	18.6	19.4	4.02	3.81	-	-	10.6	10.2	2.6	2.8	1.8	1.7	103.63	105.30	94.9	94.3	98.5	99.5	28	60
Season	18.5	19.3	4.12	3.73	-	-	10.5	11.2	0.8	1.7	0.9	1.4	103.82	104.80	99.2	98.0	103.5	103.0	1,612	1,418

SOUTH CAROLINA 1

Sept.	18.2	19.3	4.20	3.96	-	-	10.2	12.6	0.4	1.7	0.5	0.6	102.98	106.10	99.9	97.3	103.0	103.5	352	84
Oct.	18.6	19.4	4.23	3.98	-	-	10.3	12.2	0.5	2.5	0.5	0.7	105.06	106.67	99.8	96.0	105.0	102.5	722	512
Nov.	18.7	19.6	4.25	4.02	-	-	11.1	10.8	1.6	2.3	0.9	1.2	105.27	107.61	98.1	96.4	103.5	104.0	314	376
Dec.	19.0	19.5	4.26	4.06	-	-	10.5	10.1	2.6	2.6	1.1	1.6	106.99	107.75	94.8	95.1	101.0	102.5	162	300
Jan.	18.9	19.4	4.27	4.07	-	-	9.9	10.0	2.6	2.7	1.4	1.3	106.37	107.26	94.9	95.5	101.0	102.5	146	184
Feb.	18.8	19.6	4.25	4.14	-	-	10.2	9.9	1.9	4.0	0.9	1.4	105.85	106.38	95.6	90.4	102.0	98.0	110	120
Mar.-July	18.7	19.6	4.33	4.15	-	-	9.9	9.5	2.9	3.5	1.6	1.3	106.02	106.63	93.5	93.0	100.0	100.5	30	136
Season	18.6	19.5	4.24	4.04	-	-	10.4	10.9	1.1	2.6	0.7	1.1	105.04	107.38	98.4	95.3	103.5	102.5	1,836	1,712



Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1968 and 1969 (Continued)

GEORGIA 1/

Month	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968		1969		No.	
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	No.	No.
Aug.	18.7	18.7	4.19	4.07	-	-	11.3	10.6	1.2	3.5	0.5	1.0	105.10	104.50	98.6	91.2	103.5	96.0	54	2		
Sept.	18.4	19.0	4.19	4.02	-	-	10.6	12.6	0.7	2.1	0.6	0.7	103.81	104.95	99.8	96.6	104.0	101.5	894	364		
Oct.	18.5	19.3	4.19	4.01	-	-	10.7	12.2	0.8	4.9	0.6	0.8	104.23	106.15	99.7	86.7	104.0	92.0	802	1,200		
Nov.	18.7	19.5	4.19	4.04	-	-	11.0	10.8	1.3	4.7	0.9	1.3	104.75	107.31	99.0	86.8	104.0	93.5	274	760		
Dec.	18.8	19.5	4.14	4.05	-	-	11.0	10.0	1.8	4.3	0.9	1.6	104.93	107.49	97.8	88.7	103.0	95.5	108	400		
Jan.	18.7	19.4	4.21	4.06	-	-	10.6	10.4	2.0	5.0	0.9	1.3	104.94	106.94	97.3	86.6	102.5	92.5	116	180		
Feb.	18.4	19.5	4.19	4.07	-	-	10.5	10.3	1.9	4.5	1.0	1.5	103.72	107.52	97.9	87.4	102.0	95.0	98	134		
Mar.-July	18.5	19.6	4.23	4.12	-	-	10.4	10.0	2.1	4.8	1.0	1.2	104.74	108.13	97.4	87.4	102.5	93.5	108	94		
Season	18.5	19.3	4.19	4.03	-	-	10.7	11.4	1.0	4.4	0.7	1.1	104.22	106.63	99.3	88.2	103.5	94.0	2,454	3,134		

FLORIDA 1/

Aug.	18.6	17.7	3.88	3.77	-	-	13.1	17.1	1.1	2.2	0.5	0.1	102.94	98.75	99.0	93.7	101.5	91.0	8	2		
Sept.	19.0	19.0	4.19	3.97	-	-	10.6	12.4	1.0	2.3	0.5	0.3	105.93	105.17	99.9	96.6	106.0	101.0	28	12		
Oct.	19.1	19.2	4.18	3.81	-	-	10.7	12.5	0.9	3.1	0.6	0.6	106.66	104.33	99.8	92.0	106.5	97.0	34	24		
Nov.	19.1	19.5	4.22	3.86	-	-	9.6	11.3	1.6	3.1	0.7	0.7	106.70	106.23	98.4	91.8	105.5	97.0	10	28		
Dec.	18.7	19.5	4.07	3.80	-	-	11.1	10.2	1.0	2.8	1.0	0.8	104.38	106.29	99.7	91.9	104.5	98.5	4	12		
Jan.	-	20.0	-	3.87	-	-	-	10.6	-	2.4	-	0.9	-	107.92	-	93.8	-	102.0	-	6		
Feb.	17.7	19.5	4.22	3.92	-	-	11.6	9.6	1.1	7.4	0.9	2.6	101.50	106.13	100.0	71.7	101.5	81.0	2	4		
Mar.-July	-	18.7	-	3.77	-	-	-	10.6	-	1.1	-	0.7	-	102.50	-	100.0	-	102.5	-	2		
Season	19.0	19.3	4.15	3.85	-	-	10.8	11.6	1.1	3.1	0.6	0.7	105.85	105.45	99.6	92.0	105.5	97.5	86	90		

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1968 and 1969 (Continued)

ALABAMA 1/

Month	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968	1969	1968	1969	No.	No.
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969
Aug.	19.9	-	3.62	-	10.8	-	10.2	-	2.1	-	2.0	-	106.96	-	96.4	-	102.5	-	12	-	-	-
Sept.	17.9	18.2	4.05	4.00	11.0	11.5	11.8	12.1	1.2	0.6	0.8	0.8	101.32	102.29	97.0	99.1	99.5	102.0	134	230	134	230
Oct.	18.5	18.4	4.01	3.91	11.3	11.0	11.8	12.9	0.7	1.1	0.8	0.9	103.67	102.40	99.2	98.0	103.0	100.5	1,468	1,536	1,468	1,536
Nov.	18.9	18.7	3.96	3.94	11.2	11.0	10.9	11.4	0.6	1.3	1.3	1.3	105.12	103.86	99.3	98.1	104.5	102.0	894	1,060	894	1,060
Dec.	19.0	18.7	3.94	3.96	11.0	11.1	11.0	10.8	0.8	1.6	1.5	1.5	105.12	103.95	99.2	97.6	104.5	101.5	446	508	446	508
Jan.	18.8	18.6	3.98	3.97	11.4	11.0	10.9	11.3	1.1	2.2	1.3	1.8	104.95	103.75	99.1	96.0	104.5	99.5	244	224	244	224
Feb.	18.7	18.5	4.01	3.96	11.3	11.3	11.0	11.3	1.2	1.7	1.4	1.3	104.72	103.61	99.0	97.8	103.5	101.0	120	112	120	112
Mar.-July	18.8	18.6	4.03	3.99	11.5	11.6	10.3	10.7	1.2	2.0	1.5	1.3	105.47	104.35	98.6	97.2	104.0	101.5	76	118	76	118
Season	18.7	18.5	3.99	3.94	11.2	11.1	11.3	11.9	0.8	1.3	1.1	1.2	104.33	103.19	99.1	97.9	103.5	101.0	3,394	3,788	3,394	3,788

MISSISSIPPI

Aug.	17.6	17.2	3.89	3.92	11.3	11.8	11.6	10.0	4.7	2.7	1.8	0.9	98.83	98.98	81.0	94.3	87.5	93.0	18	22	18	22
Sept.	17.4	17.0	3.94	3.99	10.9	11.4	12.6	12.3	1.3	0.8	0.7	0.7	98.44	97.94	97.1	98.6	96.0	97.0	632	1,136	632	1,136
Oct.	17.8	17.9	3.88	4.01	10.9	10.8	12.4	11.6	0.7	0.5	0.7	0.8	99.90	100.78	99.0	99.4	99.0	100.5	5,476	6,000	5,476	6,000
Nov.	17.4	17.4	3.83	4.00	11.1	10.9	11.7	11.3	0.6	0.7	1.0	1.3	98.09	98.88	99.1	99.3	97.5	98.5	4,360	2,660	4,360	2,660
Dec.	16.8	16.9	3.77	4.00	11.1	11.1	11.5	11.1	0.7	0.9	1.3	1.8	95.14	96.76	99.2	98.8	94.5	96.0	1,720	936	1,720	936
Jan.	16.6	17.4	3.75	3.96	11.5	10.7	11.2	11.3	1.1	1.2	1.5	2.3	94.75	98.42	98.4	98.2	93.5	97.0	580	184	580	184
Feb.	16.9	17.2	3.79	3.96	11.3	11.1	11.4	11.3	1.3	1.8	1.4	2.0	95.55	97.59	98.6	97.5	94.5	95.5	190	58	190	58
Mar.-July	17.2	17.5	3.81	4.03	11.3	10.7	11.0	10.8	2.0	1.5	1.7	1.2	96.64	97.75	96.9	97.9	94.0	96.5	284	116	284	116
Season	17.5	17.6	3.84	4.01	11.0	10.9	12.0	11.6	0.8	0.7	1.0	1.1	98.26	99.61	98.9	99.2	97.5	99.0	13,260	11,112	13,260	11,112



Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1968 and 1969 (Continued)

TENNESSEE

Month	Cottonseed analysis												Average Index		Average grade		Samples							
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968	1969	1968	1969	No.	No.		
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969		
Aug.	17.1	17.1	3.98	3.98	11.9	11.9	10.6	10.6	0.4	0.4	0.8	0.8	99.15	99.15	100.0	100.0	-	-	100.0	-	-	10	10	
Sept.	17.7	17.5	3.90	3.75	10.8	11.2	12.3	14.5	1.2	0.6	0.8	0.7	99.32	98.09	97.5	97.2	97.0	95.5	97.0	95.5	318	354	354	354
Oct.	17.8	17.8	3.79	3.88	10.8	10.8	13.3	12.7	0.6	0.4	0.7	1.0	99.15	99.62	98.4	98.9	98.0	99.0	98.0	99.0	1,594	2,030	2,030	2,030
Nov.	18.2	17.8	3.80	3.96	10.6	10.8	11.8	11.2	0.4	0.4	1.4	1.8	100.82	100.45	99.2	99.0	100.5	99.5	100.5	99.5	922	888	888	888
Dec.	18.2	17.6	3.80	3.93	10.3	10.9	11.7	11.4	0.6	0.6	1.8	2.1	100.30	99.29	98.9	98.7	99.5	98.5	99.5	98.5	326	394	394	394
Jan.	17.9	17.6	3.86	3.93	10.5	11.0	11.9	11.7	1.3	1.0	2.1	2.3	99.60	99.43	97.8	97.4	97.5	97.0	97.5	97.0	100	108	108	108
Feb.	18.0	18.0	3.92	3.92	10.5	11.1	11.6	11.4	2.0	0.9	2.2	1.8	100.14	100.31	96.0	96.8	96.5	99.5	96.5	99.5	36	26	26	26
Mar.-July	18.2	18.3	3.84	3.99	10.7	10.9	10.8	10.6	2.4	1.3	1.9	1.8	101.25	102.82	95.3	97.8	96.5	101.0	96.5	101.0	34	30	30	30
Season	18.0	17.8	3.81	3.90	10.7	10.9	12.5	12.3	0.6	0.5	1.1	1.3	99.79	99.66	98.5	98.7	96.5	98.5	98.5	98.5	3,330	3,840	3,840	3,840

MISSOURI

Aug.	17.2	16.9	3.70	3.97	11.0	11.5	12.1	10.9	2.7	0.4	0.7	0.7	96.25	97.08	96.5	99.8	92.5	98.5	92.5	98.5	4	6	6	6
Sept.	16.9	16.9	3.86	3.79	10.9	11.3	13.8	14.1	1.0	0.5	0.5	0.8	95.73	95.84	97.4	97.6	93.5	93.5	93.5	93.5	126	370	370	370
Oct.	17.7	17.6	3.76	3.86	11.1	10.9	13.5	13.0	0.5	0.4	0.6	0.9	98.88	98.96	98.3	98.6	97.5	98.0	97.5	98.0	862	1,340	1,340	1,340
Nov.	17.8	17.7	3.70	3.92	11.4	10.9	12.0	11.4	0.4	0.4	1.1	1.5	98.85	99.76	99.2	99.2	98.5	99.5	98.5	99.5	586	558	558	558
Dec.	17.6	17.3	3.62	3.89	11.1	11.3	12.6	11.4	0.6	0.5	1.3	1.8	97.52	98.19	98.8	99.0	96.5	97.5	96.5	97.5	170	208	208	208
Jan.	17.5	17.2	3.63	3.86	11.0	11.4	12.4	11.6	0.8	1.2	1.6	2.1	97.36	97.40	98.6	96.4	96.0	94.0	96.0	94.0	56	54	54	54
Feb.	18.0	17.2	3.73	3.77	11.3	11.8	12.1	12.8	1.1	2.2	1.8	2.6	99.52	97.56	98.5	92.2	98.5	90.5	98.5	90.5	24	16	16	16
Mar.-July	17.6	18.0	3.71	3.89	11.5	11.0	11.5	12.0	2.8	1.4	2.4	1.2	99.38	100.65	93.2	98.2	93.0	99.0	93.0	99.0	30	20	20	20
Season	17.7	17.5	3.73	3.86	11.2	11.0	12.8	12.6	0.6	0.5	0.9	1.1	98.50	98.59	98.5	98.6	97.0	97.5	97.0	97.5	1,858	2,572	2,572	2,572

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1968 and 1969 (Continued)

ARKANSAS

Month	Cottonseed analysis												Average index				Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968	1969	1968	1969	No.	No.
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969
Aug.	16.7	17.3	3.62	3.86	11.5	12.0	11.6	9.8	1.7	0.6	0.4	0.8	92.50	98.59	100.0	99.8	93.5	98.0	2	16		
Sept.	17.1	17.0	3.90	3.85	10.9	11.5	13.1	13.3	0.8	0.5	0.7	0.8	97.06	96.87	98.4	98.3	96.0	95.5	344	874		
Oct.	17.7	17.9	3.83	3.94	11.1	11.0	12.7	11.2	0.5	0.4	0.7	0.8	99.04	100.61	98.8	99.6	98.0	100.5	4,460	5,534		
Nov.	17.6	17.6	3.76	3.93	11.2	11.1	12.0	11.1	0.5	0.4	1.0	1.1	98.39	99.56	99.1	99.6	98.0	99.5	3,474	2,508		
Dec.	16.9	17.0	3.70	3.87	10.9	11.4	11.7	10.9	0.6	0.6	1.4	1.5	95.09	97.02	99.2	99.3	94.5	96.5	986	1,052		
Jan.	17.2	16.9	3.70	3.88	11.0	11.3	11.7	11.4	0.8	0.7	1.7	2.2	96.38	96.15	98.9	98.5	95.5	95.0	438	184		
Feb.	17.0	17.5	3.70	3.89	11.1	10.9	11.9	11.5	1.3	0.8	1.9	2.3	95.66	98.20	96.9	97.7	93.5	96.5	234	130		
Mar.-July	17.6	17.4	3.76	3.92	11.0	10.7	11.4	11.5	1.6	1.2	2.1	1.7	98.19	97.08	97.4	97.9	96.0	95.0	146	92		
Season	17.5	17.7	3.78	3.92	11.1	11.1	12.3	11.3	0.6	0.5	0.9	1.0	98.15	99.54	98.9	99.4	97.5	99.0	10,084	10,390		

LOUISIANA

Aug.	16.6	17.2	3.43	3.77	10.5	12.5	17.8	15.6	5.4	2.2	0.6	0.9	92.50	98.75	80.3	93.7	69.5	93.5	14	2
Sept.	18.0	17.1	3.77	3.99	10.4	11.8	12.7	11.1	1.9	0.6	0.5	0.4	99.16	98.38	97.5	99.3	97.0	98.0	372	632
Oct.	18.4	17.7	3.85	3.95	10.6	11.5	11.8	10.2	1.1	0.5	0.4	0.6	101.80	100.69	99.2	99.8	101.0	101.0	1,806	2,032
Nov.	17.9	16.8	3.79	3.83	10.9	11.5	11.4	11.2	0.8	0.6	0.5	0.8	99.55	95.89	99.5	99.7	99.5	96.0	1,580	958
Dec.	17.3	16.4	3.73	3.77	11.3	11.6	11.1	10.9	0.8	0.8	0.9	1.0	97.47	94.12	99.5	99.7	97.5	94.0	658	262
Jan.	17.1	16.6	3.69	3.82	11.7	11.6	11.4	11.4	1.5	1.5	1.4	1.1	96.59	96.01	97.4	97.7	94.5	94.0	214	48
Feb.	17.4	17.1	3.70	3.85	12.0	11.6	11.5	10.8	1.9	1.7	1.1	1.2	98.06	98.08	97.2	97.9	95.5	95.5	80	18
Mar.-July	17.3	16.7	3.66	3.93	12.0	12.0	11.2	10.1	2.4	0.8	1.5	1.2	97.24	97.06	95.5	99.6	93.5	97.0	72	26
Season	18.0	17.3	3.79	3.92	10.9	11.5	11.6	10.6	1.1	0.6	0.6	0.6	99.67	98.64	99.0	99.7	99.0	98.5	4,796	3,978



Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1968 and 1969 (Continued)

OKLAHOMA

Month	Cottonseed analysis														Average index				Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968		1969		1968		1969	
	Fct.	Pct.	Fct.	Pct.	Fct.	Pct.	Fct.	Pct.	Fct.	Pct.	Fct.	Pct.	Fct.	Pct.	Fct.	Pct.	1968	1969	1968	1969	No.	No.		
Sept.	-	19.7	-	4.22	-	6.6	-	8.6	-	1.1	-	1.8	-	103.50	-	99.5	-	102.5	-	-	-	2	2	
Oct.	18.7	17.7	4.02	4.06	10.3	11.0	10.2	10.1	0.4	0.6	0.8	0.8	103.83	101.08	99.7	99.8	104.0	101.0	78	78	42	42		
Nov.	18.0	17.4	4.08	4.12	10.7	11.3	9.6	9.3	0.4	0.5	1.2	1.5	101.37	99.90	99.6	99.3	101.5	99.5	478	478	506	506		
Dec.	18.1	17.6	3.99	4.14	10.9	11.2	9.6	8.6	0.4	0.6	1.6	1.6	101.64	100.87	99.3	99.3	101.0	100.5	812	812	924	924		
Jan.	18.0	17.4	3.95	4.11	10.7	11.5	10.5	9.5	0.5	0.7	2.2	2.1	100.81	100.14	98.7	98.9	100.0	99.0	348	348	208	208		
Feb.	17.9	17.6	3.96	4.14	11.0	11.3	10.4	9.3	0.8	0.9	2.3	2.3	100.79	100.67	97.9	98.4	99.5	99.5	140	140	150	150		
Mar.-July	18.0	17.4	3.95	4.11	9.8	11.2	11.8	9.5	1.1	1.1	2.3	1.9	99.83	99.93	95.5	98.3	95.5	98.5	48	48	44	44		
Season	18.0	17.5	4.01	4.13	10.8	11.3	9.9	9.0	0.5	0.6	1.7	1.7	101.40	100.50	99.1	99.2	101.0	100.0	1,904	1,904	1,876	1,876		

TEXAS

Aug.	18.0	16.7	3.79	4.00	12.7	12.2	10.6	9.2	0.5	0.4	1.0	1.0	101.71	97.29	99.5	99.7	101.5	97.5	844	844	1,502	1,502
Sept.	16.8	16.1	3.78	3.95	12.9	12.0	10.9	9.9	0.7	0.7	1.3	1.1	96.95	93.82	99.1	99.3	96.5	93.5	908	908	632	632
Oct.	18.4	17.4	3.97	3.97	11.5	11.8	8.9	9.4	0.6	0.6	1.4	1.5	103.31	99.73	99.2	99.0	103.0	99.0	2,682	2,682	966	966
Nov.	18.5	18.5	4.00	4.02	11.3	10.7	7.9	8.5	0.5	0.7	1.6	2.0	104.02	103.47	99.2	98.9	103.5	102.5	5,506	5,506	4,408	4,408
Dec.	18.1	17.9	3.95	4.02	11.1	10.9	8.3	8.5	0.5	0.8	2.2	2.4	101.58	101.13	98.7	98.6	100.5	100.0	5,080	5,080	4,426	4,426
Jan.	17.9	17.7	3.90	4.00	11.1	11.0	8.4	9.3	0.6	1.0	3.1	3.3	100.47	99.82	97.6	97.5	98.0	97.5	1,770	1,770	1,380	1,380
Feb.	17.7	17.6	3.90	4.03	11.2	11.3	8.6	8.5	1.0	1.1	3.9	3.5	99.70	100.33	96.4	96.9	96.5	97.5	344	344	572	572
Mar.-July	17.9	17.9	3.91	3.99	11.1	10.9	9.7	8.8	1.4	1.7	3.2	3.1	100.42	100.71	95.9	95.2	96.5	97.0	176	176	232	232
Season	18.2	17.8	3.95	4.01	11.4	11.1	8.6	8.8	0.5	0.8	1.9	2.1	102.22	100.86	98.8	98.6	101.5	99.5	17,310	17,310	14,118	14,118

Table 4. Cottonseed: Quality factors, Indexes and Grades, by specified periods and states, 1968 and 1969 (Continued)

NEW MEXICO

Month	Cottonseed analysis										Average index			Average grade		Samples				
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969		
	Pct. Pct.	Pct. Pct.	Pct. Pct.	Pct. Pct.	Pct. Pct.	Pct. Pct.	Pct. Pct.	Pct. Pct.	Pct. Pct.	Pct. Pct.	Pct. Pct.									
Oct.	20.5	20.4	3.89	3.80	10.7	10.9	8.6	9.1	0.4	0.5	0.8	0.6	111.09	110.54	99.9	99.8	111.0	110.5	202	194
Nov.	19.6	20.3	3.92	3.88	11.0	10.6	7.6	8.6	0.4	0.6	0.9	1.1	107.60	110.37	99.8	99.5	107.5	110.0	380	336
Dec.	18.1	19.6	3.86	3.81	11.3	10.7	8.0	8.3	0.4	0.6	1.9	2.0	101.44	106.57	99.0	98.9	100.5	105.5	244	228
Jan.	17.7	19.3	3.81	3.89	11.2	10.9	8.0	8.4	0.5	0.9	3.3	3.3	99.30	106.23	97.8	97.5	97.5	104.0	84	46
Feb.	17.7	18.6	3.82	3.83	11.0	10.9	8.5	8.3	1.1	1.1	4.6	4.0	98.87	101.98	92.4	96.8	92.5	98.0	34	20
Mar.-July	19.2	19.0	3.97	4.00	12.0	10.2	6.9	9.6	0.4	1.7	0.8	4.7	107.33	103.38	99.9	94.5	107.5	98.0	12	8
Season	19.2	20.0	3.89	3.84	11.0	10.7	8.0	8.6	0.5	0.6	1.5	1.4	105.72	108.87	99.2	99.2	105.0	108.0	956	832

ARIZONA

Sept.	19.4	18.3	4.09	4.06	11.3	11.2	7.1	8.2	0.3	0.6	1.0	0.9	107.75	103.07	99.7	99.3	107.5	102.5	72	42
Oct.	19.3	19.1	4.08	4.09	12.1	11.6	7.0	7.0	0.2	0.6	0.7	0.8	108.53	106.94	99.9	99.8	108.5	107.0	1,026	616
Nov.	19.1	18.9	4.08	4.06	12.1	11.4	6.8	7.8	0.2	0.7	0.8	0.9	107.61	105.97	99.8	99.7	107.5	106.0	1,000	836
Dec.	18.0	18.1	4.04	3.99	11.8	11.0	7.5	8.4	0.3	0.9	1.7	1.6	102.38	101.75	99.2	99.1	102.0	101.0	764	818
Jan.	17.0	17.1	3.97	3.96	11.6	11.0	8.7	8.5	0.5	1.5	3.1	3.6	97.88	97.42	97.7	96.1	96.0	94.0	330	360
Feb.	16.8	17.1	3.94	4.02	11.5	11.1	10.4	7.5	1.6	2.1	5.6	4.6	96.27	98.61	93.9	93.7	90.5	92.0	90	88
Mar.-July	17.0	-	3.67	-	11.5	-	12.0	-	2.7	-	6.7	-	94.46	-	85.8	-	83.5	-	12	-
Season	18.6	18.4	4.06	4.03	11.9	11.2	7.4	7.9	0.3	0.9	1.3	1.6	105.36	103.54	99.3	98.9	105.0	102.5	3,294	2,760



Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1968 and 1969 (Continued)

NEVADA

Month	Cottonseed analysis												Average index				Average grade		Samples							
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968		1969		No.		No.			
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969		
Nov.	19.4	18.2	3.77	3.70	13.9	14.6	7.0	6.3	0.2	0.4	0.4	0.6	108.50	104.38	100.0	100.0	108.5	104.5	10	8						
Dec.	18.4	16.8	3.77	3.67	12.7	16.3	6.6	7.2	0.2	0.8	1.0	1.1	104.06	99.17	99.7	99.6	103.5	99.5	8	6						
Jan.	17.4	16.7	3.77	3.62	11.7	15.6	8.3	7.2	0.4	0.5	2.3	1.2	98.38	99.17	89.6	99.6	97.0	99.0	8	6						
Feb.	18.0	18.0	3.72	3.70	12.8	16.0	11.6	6.6	0.6	0.7	1.5	1.9	99.67	104.88	99.5	99.0	101.0	104.5	6	4						
Mar.-July	17.4	-	3.42	-	12.8	-	11.6	-	0.9	-	1.3	-	97.92	-	99.0	-	96.0	-	6	6						
Season	18.2	17.4	3.71	3.67	12.8	15.5	8.6	6.8	0.4	0.6	1.2	1.1	102.37	101.85	97.5	99.6	102.0	102.0	38	24						

CALIFORNIA 1/

Sept.	18.8	18.7	4.07	4.15	10.5	10.5	9.1	8.1	0.5	0.5	0.6	0.4	105.00	104.81	99.9	100.0	104.5	105.0	8	8						
Oct.	18.7	18.3	4.15	4.22	12.0	11.0	7.9	7.4	0.2	0.6	0.5	0.6	105.47	103.70	99.9	99.8	105.5	103.5	216	250						
Nov.	18.3	17.9	4.10	4.14	11.4	10.7	8.8	8.6	0.2	0.9	0.7	0.9	103.39	101.55	99.7	99.5	103.5	101.5	382	288						
Dec.	17.0	17.4	4.02	4.05	11.2	10.0	10.5	9.1	0.3	1.2	1.2	1.4	96.96	98.31	98.9	98.6	96.5	97.5	252	186						
Jan.	16.5	17.3	3.97	4.04	11.0	10.0	10.7	8.9	0.6	1.4	2.3	2.1	94.49	97.88	97.8	97.7	92.5	95.5	90	68						
Feb.	16.1	17.4	3.86	4.12	11.5	11.0	14.6	8.6	2.3	1.4	1.9	2.1	92.07	99.17	92.6	99.1	83.0	99.0	14	6						
Mar.-July	19.2	-	4.37	-	11.5	-	7.6	-	0.8	-	1.8	-	108.75	-	99.5	-	108.5	-	2	2						
Season	17.9	17.9	4.08	4.14	11.4	10.5	9.3	8.3	0.3	0.9	1.0	1.1	101.21	101.18	99.3	99.2	101.0	100.5	964	806						

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, 1968 and 1969

NORTH CAROLINA 1/

Dist. No.	Oil		Amornia		Linters		Moisture		Free fatty acids		Foreign matter		Average index				Average grade		Samples	
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969
2	18.6	19.3	4.04	3.75	-	-	11.0	11.2	1.0	2.0	0.9	1.5	103.74	104.98	99.2	97.8	103.0	102.5	68	64
3	18.8	19.6	3.95	3.55	-	-	11.3	11.0	0.7	1.7	1.0	1.6	103.98	104.88	99.3	97.9	103.5	103.0	630	564
4	-	20.5	-	3.70	-	-	-	9.2	-	0.8	-	0.5	-	110.00	-	99.9	-	109.5	-	12
5	19.3	19.4	4.24	4.04	-	-	10.1	10.0	0.5	1.1	1.0	0.4	107.86	107.08	99.7	99.7	108.0	107.0	14	18
6	18.8	19.7	4.04	3.64	-	-	10.3	11.2	0.6	2.2	0.9	1.3	104.82	105.66	99.8	96.9	105.0	102.5	110	78
8	18.2	19.2	4.41	4.08	-	-	10.3	10.8	0.9	1.4	0.9	1.2	104.62	106.28	99.1	98.9	104.0	105.5	82	168
9	18.2	19.0	4.25	3.81	-	-	9.9	11.5	0.8	1.8	0.9	1.2	103.36	103.87	99.1	97.8	102.5	102.0	708	514
State	18.5	19.3	4.12	3.73	-	-	10.5	11.2	0.8	1.7	0.9	1.4	103.82	104.80	99.2	98.0	103.5	103.0	1,612	1,418

SOUTH CAROLINA 1/

1	19.6	19.7	4.10	4.01	-	-	10.8	10.7	0.8	1.1	0.4	0.5	108.20	107.83	99.4	98.9	108.0	107.0	112	126
2	18.6	19.9	4.37	3.98	-	-	10.2	10.3	0.7	1.3	0.9	0.7	105.85	109.04	99.8	99.7	105.5	109.0	20	34
3	18.7	19.6	4.23	3.97	-	-	10.1	10.9	1.1	2.2	0.7	1.2	105.35	107.30	98.2	96.9	103.5	104.0	644	570
4	18.9	19.3	4.23	4.10	-	-	11.0	11.1	0.7	1.8	0.5	0.6	106.21	107.24	99.6	98.0	106.0	105.5	116	136
5	18.5	19.5	4.25	4.08	-	-	10.4	10.9	1.2	3.0	0.8	1.3	104.52	107.50	98.2	94.5	103.0	101.5	814	718
8	18.0	19.2	4.30	4.09	-	-	10.9	11.7	1.4	5.4	1.0	1.4	102.80	106.30	97.8	85.5	100.5	90.5	130	128
State	18.6	19.5	4.24	4.04	-	-	10.4	10.9	1.1	2.6	0.7	1.1	105.04	107.38	98.4	95.3	103.5	102.5	1,836	1,712

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1968 and 1969 (Continued)

GEORGIA 1/

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968	1969	1968	1969	No.	No.
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969
1	19.2	18.9	4.06	3.89	-	-	11.8	11.5	0.7	0.9	1.1	1.2	106.46	104.06	99.2	99.3	106.0	104.0	144	224		
2	18.3	19.4	4.23	4.17	-	-	10.7	10.8	2.4	3.4	1.1	1.2	103.79	107.69	97.1	93.2	101.0	100.5	56	52		
3	19.1	19.4	4.11	4.06	-	-	11.0	11.3	1.2	1.7	0.8	0.9	106.13	107.31	99.1	97.7	105.5	105.5	56	48		
4	18.6	19.4	4.22	4.04	-	-	10.7	11.0	1.1	2.9	0.8	1.6	104.77	106.84	99.4	94.2	104.5	100.5	216	334		
5	18.3	19.4	4.22	4.03	-	-	10.8	11.3	0.9	4.5	0.6	1.3	103.45	107.01	99.4	88.5	103.0	95.0	438	690		
6	18.2	19.3	4.20	4.02	-	-	10.6	11.4	1.2	4.9	0.7	0.8	103.17	106.35	98.9	87.1	102.5	92.5	316	496		
7	18.6	19.3	4.25	4.12	-	-	10.2	11.3	1.0	4.0	0.7	0.5	105.29	106.88	99.5	90.7	105.0	97.0	398	384		
8	18.4	19.4	4.17	4.04	-	-	10.8	11.6	1.0	5.8	0.6	1.3	103.82	107.01	99.5	82.0	103.5	88.0	722	826		
9	18.8	19.2	4.03	3.84	-	-	10.7	12.2	1.2	7.0	0.7	0.9	104.27	105.16	98.6	78.5	103.0	81.5	108	80		
State	18.5	19.3	4.19	4.03	-	-	10.7	11.4	1.0	4.4	0.7	1.1	104.22	106.63	99.3	88.2	103.5	94.0	2,454	3,134		

ALABAMA 1/

1	18.8	18.2	3.80	3.93	11.3	11.0	11.8	12.3	0.6	0.7	1.6	1.6	103.70	101.89	98.7	98.4	102.5	100.5	398	398
2	18.5	18.4	3.95	3.94	11.1	11.0	11.6	12.2	0.6	0.8	1.2	1.4	103.42	102.66	99.0	98.6	102.5	101.5	1,490	1,512
3	19.0	18.5	3.93	3.84	11.4	11.4	11.6	12.2	0.7	1.0	1.2	1.3	105.64	103.05	99.1	98.4	105.0	101.5	432	496
4	18.9	18.3	3.94	4.03	11.4	11.4	10.9	11.7	0.9	1.1	1.2	1.1	105.50	103.34	98.9	98.6	104.5	102.0	202	208
5	18.9	18.8	4.16	4.05	-	-	10.4	11.4	0.8	1.8	0.8	0.7	105.86	104.77	99.8	98.1	106.0	103.0	390	526
6	18.6	18.9	4.26	3.86	-	-	11.1	11.0	0.8	1.4	0.6	0.9	104.81	103.52	99.5	99.1	104.5	103.0	142	188
7	18.5	19.3	4.01	3.80	-	-	10.6	11.8	1.0	2.6	0.7	0.5	103.85	105.80	100.0	96.7	104.5	101.5	10	10
8	19.0	19.0	4.13	3.92	-	-	10.8	11.5	1.1	2.0	0.8	0.7	105.96	104.54	99.6	97.7	106.0	102.5	200	270
9	18.2	18.7	4.16	3.94	-	-	10.6	12.1	1.5	4.8	0.6	0.7	103.08	103.48	98.9	87.6	102.0	90.5	130	180
State	18.7	18.5	3.99	3.94	11.2	11.1	11.3	11.9	0.8	1.3	1.1	1.2	104.33	103.19	99.1	97.9	103.5	101.0	3,394	3,788



Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1968 and 1969 (Continued)

MISSISSIPPI

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968		1969	
	1968	1969	Pct.	Pct.	1968	1969	Pct.	Pct.	1968	1969	Pct.	Pct.	1968	1969	1968	1969	No.	No.	1968	1969
1	16.9	17.5	3.86	4.03	11.1	10.9	12.2	11.6	0.7	0.6	1.0	1.1	96.03	99.38	98.8	99.2	95.0	99.0	4,044	3,402
2	17.6	17.7	3.82	3.95	10.6	10.7	12.3	11.9	0.6	0.6	1.2	1.5	98.41	99.40	98.6	98.9	97.5	98.5	1,508	1,378
3	18.4	18.1	3.77	3.88	10.5	10.6	12.1	12.4	0.7	0.7	1.5	1.5	101.26	100.59	98.4	98.5	100.0	99.5	880	904
4	17.3	17.3	3.86	4.05	11.3	11.1	11.9	11.3	0.9	0.7	0.8	0.8	98.25	99.00	99.0	99.4	97.5	98.5	4,530	3,328
5	18.0	17.7	3.84	4.03	10.9	10.9	11.7	11.3	0.6	0.7	0.7	0.8	100.39	100.39	99.2	99.5	100.0	100.0	1,132	1,000
6	18.6	18.0	3.71	3.93	10.7	10.6	11.4	11.8	0.6	0.7	1.2	1.2	101.78	100.69	99.1	99.0	101.0	100.0	542	560
7	18.0	17.7	3.88	3.98	10.8	11.3	11.0	11.0	0.8	0.8	0.6	0.7	100.43	100.13	99.3	99.6	100.0	100.0	334	308
8	18.3	17.8	3.91	3.99	10.9	11.9	11.4	10.9	1.2	1.1	0.6	0.9	101.94	101.52	99.0	99.1	101.0	101.0	216	172
9	18.3	18.5	4.04	3.94	11.1	12.5	11.5	11.5	1.2	1.6	0.6	0.8	102.76	104.58	99.0	98.7	102.0	103.5	74	60
State	17.5	17.6	3.84	4.01	11.0	10.9	12.0	11.6	0.8	0.7	1.0	1.1	98.26	99.61	98.9	99.2	97.5	99.0	13,260	11,112

TENNESSEE

1	17.8	17.6	3.76	3.87	10.7	10.9	12.8	12.4	0.6	0.5	1.0	1.2	98.90	98.86	98.4	98.7	97.5	98.0	1,204	1,458
2	18.0	17.8	3.82	3.91	10.7	10.8	12.5	12.3	0.6	0.5	1.1	1.3	100.17	99.97	98.6	98.6	99.0	99.0	1,934	2,162
3	18.1	18.0	3.96	3.96	10.5	11.0	11.4	11.8	1.2	0.6	1.2	1.1	101.15	101.15	97.6	99.1	99.0	100.5	98	114
4	18.2	18.6	4.00	3.95	10.5	10.5	11.6	11.7	0.7	0.7	1.5	1.4	101.92	102.94	98.9	99.0	101.0	102.0	88	94
5	18.2	18.5	3.97	3.92	11.1	10.8	11.2	11.6	1.3	1.0	2.5	2.8	101.83	102.33	98.5	98.3	100.0	101.0	6	12
State	18.0	17.8	3.81	3.90	10.7	10.9	12.5	12.3	0.6	0.5	1.1	1.3	99.79	99.66	98.5	98.7	98.5	98.5	3,330	3,840

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1968 and 1969 (Continued)

ARKANSAS

Dist. No.	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1968	1969	1968	1969	No.	No.
	1968	1969	Pct.	Pct.	1968	1969	Pct.	Pct.	1968	1969	Pct.	Pct.	1968	1969	1968	1969						
2	17.8	18.0	3.75	4.07	10.5	9.5	12.2	9.6	0.5	0.4	1.3	0.9	98.56	100.58	99.0	99.8	98.0	101.0	32	6		
3	17.5	17.5	3.78	3.92	11.2	11.1	12.7	11.8	0.6	0.5	1.0	1.1	98.22	99.01	98.5	99.1	97.0	98.5	3,822	4,370		
4	17.8	17.0	3.82	3.99	11.2	11.7	11.3	9.8	0.6	0.5	0.7	1.0	99.56	97.72	99.9	99.7	99.5	98.0	40	60		
5	17.5	17.6	3.73	3.87	11.5	11.3	11.5	10.7	0.6	0.4	0.9	1.0	97.94	99.23	99.6	99.6	98.0	99.0	140	150		
6	17.5	17.8	3.79	3.96	11.0	11.0	12.2	11.2	0.5	0.4	1.0	1.0	97.93	100.32	99.0	99.4	97.5	100.0	3,760	3,714		
7	17.8	17.7	3.72	3.97	11.0	10.9	11.2	10.3	0.8	0.4	0.8	0.8	99.14	99.80	99.5	99.8	98.5	100.0	182	162		
8	18.5	18.0	3.62	3.89	10.8	11.0	11.7	10.4	0.8	0.5	1.7	1.1	101.21	100.65	98.3	99.7	99.5	100.5	60	34		
9	17.5	17.6	3.79	3.85	11.1	11.3	11.9	10.7	0.7	0.5	0.8	0.7	98.26	99.26	99.3	99.8	98.0	99.5	2,048	1,894		
State	17.5	17.7	3.78	3.92	11.1	11.1	12.3	11.3	0.6	0.5	0.9	1.0	98.15	99.54	98.9	99.4	97.5	99.0	10,084	10,390		

LOUISIANA

1	17.5	17.3	3.89	4.02	10.6	11.1	11.5	10.4	1.0	0.4	0.4	0.5	98.40	98.87	99.5	99.9	98.5	99.0	504	344
2	18.0	16.9	3.77	3.98	10.8	11.2	11.7	10.7	0.8	0.4	0.7	0.6	100.09	97.37	99.0	99.9	99.5	97.5	244	222
3	18.0	17.2	3.79	4.00	11.0	11.5	11.4	10.5	0.7	0.5	0.7	0.7	100.27	98.92	99.5	99.7	100.0	99.0	2,524	1,926
4	17.9	17.4	3.88	4.10	10.5	10.9	11.5	10.1	0.9	0.5	0.4	0.5	99.61	99.25	99.7	99.9	99.5	99.5	158	138
5	18.0	17.4	3.77	3.75	10.6	11.8	11.9	11.0	1.7	0.8	0.5	0.6	99.79	98.28	97.9	99.5	98.0	98.0	1,228	1,244
6	17.7	16.9	3.68	3.75	11.1	12.1	11.9	11.1	1.4	0.6	0.7	0.7	98.15	96.88	98.6	99.7	97.0	96.5	26	12
7	18.3	17.9	3.69	3.62	10.5	11.8	12.7	11.6	2.3	0.9	0.6	0.7	100.28	99.55	96.5	99.4	97.0	99.0	76	56
8	17.3	17.5	3.75	3.60	10.6	12.5	13.5	11.8	2.7	1.0	0.6	0.6	95.51	98.29	93.7	99.5	89.5	98.0	36	36
State	18.0	17.3	3.79	3.92	10.9	11.5	11.6	10.6	1.1	0.6	0.6	0.6	99.87	98.64	99.0	99.7	99.0	98.5	4,796	3,978



Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1968 and 1969 (Continued)

OKLAHOMA

Dist. No.	Cottonseed analysis										Average index				Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.	No.		
3	18.8	18.0	3.94	4.16	9.5	10.6	11.4	9.8	0.5	0.5	1.5	1.0	102.78	101.42	99.1	99.7	102.0	101.5	18	24
4	17.9	17.5	3.98	4.16	11.1	11.4	9.8	8.7	0.5	0.5	2.1	2.1	100.80	100.59	98.7	98.8	100.0	99.5	616	448
5	18.1	17.7	4.04	4.19	10.6	10.8	10.8	9.4	0.5	0.6	1.5	1.3	101.84	101.11	99.3	99.6	101.5	101.0	122	136
6	18.8	17.4	3.88	4.06	10.2	11.1	11.2	10.1	0.5	0.5	1.5	1.0	103.24	99.73	99.3	99.7	103.0	99.5	62	72
7	18.0	17.5	4.05	4.12	10.7	11.4	9.8	8.9	0.5	0.6	1.4	1.6	101.52	100.47	99.2	99.2	101.0	100.0	986	1,078
8	18.6	17.5	3.91	4.12	10.5	11.0	10.1	9.5	0.6	0.6	1.5	1.9	102.48	100.07	99.4	99.0	102.5	99.5	90	110
9	17.7	17.3	3.68	4.03	10.5	10.5	11.2	10.1	0.8	0.6	1.4	1.3	98.25	98.81	99.5	99.6	99.0	98.5	10	8
State	18.0	17.5	4.01	4.13	10.8	11.3	9.9	9.0	0.5	0.6	1.7	1.7	101.40	100.50	99.1	99.2	101.0	100.0	1,904	1,876
TEXAS																				
1	18.3	18.2	3.97	4.00	11.1	10.6	8.0	8.4	0.5	0.8	2.2	2.5	102.48	101.95	98.7	98.3	101.5	100.5	8,766	7,866
2	18.2	17.4	4.04	4.14	11.3	11.5	8.3	9.1	0.5	0.9	1.6	1.8	102.86	100.50	99.2	99.0	102.5	99.5	3,574	2,212
3	17.4	17.2	3.98	4.00	11.5	11.8	9.4	9.9	0.6	0.8	1.6	1.5	99.72	99.14	99.2	99.3	99.0	98.5	114	78
4	17.2	15.8	3.87	4.06	11.8	11.9	9.6	8.8	0.5	0.6	1.9	1.5	98.21	93.92	99.0	99.3	97.5	93.5	1,568	940
5	17.5	16.9	3.81	3.98	11.4	11.3	10.7	10.3	0.8	0.7	1.3	0.9	98.81	96.97	99.1	99.5	98.0	97.0	162	118
6	20.1	19.9	3.83	3.80	11.1	11.4	8.6	9.0	0.5	0.6	2.7	2.9	109.23	108.79	97.7	97.5	107.0	106.5	1,062	924
7	17.9	16.9	4.02	4.06	12.3	12.2	8.3	9.5	0.6	0.8	1.3	1.4	102.71	98.76	99.5	99.5	102.5	98.5	300	146
8	17.3	16.2	3.64	3.95	13.6	12.5	10.5	9.0	0.9	0.6	1.6	1.4	98.77	95.24	98.9	99.4	98.0	95.0	418	390
9	17.7	17.0	3.61	3.84	12.6	11.7	11.6	11.2	1.5	1.1	0.8	0.9	99.39	97.00	97.7	98.7	97.5	96.0	226	322
10	17.4	16.7	3.87	4.02	12.6	12.3	11.0	9.4	0.4	0.4	1.0	0.8	99.66	97.15	99.4	99.8	99.5	97.0	1,120	1,132
State	18.2	17.8	3.95	4.01	11.4	11.1	8.6	8.8	0.5	0.8	1.9	2.1	102.22	100.86	98.8	98.6	101.5	99.5	17,310	14,118



Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1968 and 1969 (Continued)

NEW MEXICO

Dist. No.	Cottonseed analysis												Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.	
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969
3	18.0	18.1	4.00	4.02	10.0	9.1	7.5	8.2	0.5	0.9	2.4	2.8	100.57	99.43	98.6	98.2	99.5	97.0	70	42
7	18.9	20.2	3.85	3.76	11.3	10.9	7.7	8.6	0.4	0.5	1.6	1.3	104.58	109.61	98.8	99.3	103.5	109.0	96	106
9	19.3	20.1	3.88	3.84	11.1	10.7	8.1	8.6	0.5	0.6	1.3	1.4	106.31	109.33	99.3	99.2	106.0	108.5	790	684
State	19.2	20.0	3.89	3.84	11.0	10.7	8.0	8.6	0.5	0.6	1.5	1.4	105.72	108.87	99.2	99.2	105.0	108.0	956	832

ARIZONA

5	18.6	18.2	4.06	4.05	11.9	11.2	7.5	7.9	0.3	0.9	1.3	1.6	105.12	102.87	99.2	98.9	104.5	102.0	2,450	2,072
7	18.8	18.6	4.10	4.10	11.6	11.1	6.8	7.4	0.3	1.2	1.3	1.5	106.08	104.68	99.5	98.6	106.0	103.5	464	330
9	18.8	19.2	3.98	3.89	12.2	11.5	7.4	8.0	0.3	0.5	1.4	1.3	105.99	106.38	99.2	99.3	105.5	106.0	380	358
State	18.6	18.4	4.06	4.03	11.9	11.2	7.4	7.9	0.3	0.9	1.3	1.6	105.36	103.54	99.3	98.9	105.0	102.5	3,294	2,760

CALIFORNIA 1/

5	17.2	17.6	3.97	4.11	-	-	11.7	8.9	0.3	0.5	0.8	0.9	97.19	99.74	99.0	99.8	96.5	100.0	498	456
8	18.6	18.3	4.18	4.17	11.4	10.5	6.8	7.6	0.3	1.5	1.2	1.2	105.49	103.04	99.6	98.5	105.5	102.0	466	350
State	17.9	17.9	4.08	4.14	11.4	10.5	9.3	8.3	0.3	0.9	1.0	1.1	101.21	101.18	99.3	99.2	101.0	100.5	964	806

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, 1968 and 1969

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			
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	-	66.7	38.1	30.0	61.9	100.0	100.0
N.C.	-	-	0.1	-	-	-	-	-	-	0.1	0.1	6.7	3.3	63.3	51.9	29.8	44.7	100.0	100.0	100.0	100.0	100.0
S.C.	-	-	-	-	-	-	-	-	-	0.1	-	3.5	0.7	46.9	16.5	49.5	82.8	100.0	100.0	100.0	100.0	100.0
Ga.	-	-	-	-	-	-	-	-	-	0.1	0.2	7.0	2.0	55.8	25.3	37.1	72.5	100.0	100.0	100.0	100.0	100.0
Fla.	-	-	-	-	-	-	-	-	-	-	-	-	8.9	39.5	33.3	60.5	57.8	100.0	100.0	100.0	100.0	100.0
Ala.	-	-	-	-	-	-	-	-	-	0.7	0.3	10.3	13.0	46.5	61.1	42.5	25.6	100.0	100.0	100.0	100.0	100.0
Miss.	*	*	*	*	0.2	0.1	1.1	0.3	4.9	2.0	14.9	8.2	38.2	36.6	35.5	47.9	5.2	4.9	100.0	100.0	100.0	100.0
Tenn.	-	-	-	-	-	-	-	-	-	0.1	2.6	3.8	49.7	49.5	45.1	44.1	2.6	2.5	100.0	100.0	100.0	100.0
Mo.	-	-	-	-	-	-	-	-	0.1	0.1	1.0	0.5	10.0	9.6	55.7	55.0	31.9	33.2	1.3	1.6	100.0	100.0
Ark.	*	0.1	*	0.1	0.1	0.1	0.3	0.1	2.1	0.3	14.7	7.6	49.8	42.5	29.9	44.6	3.1	4.5	100.0	100.0	100.0	100.0
Ia.	-	-	-	-	-	0.1	0.5	0.4	2.1	3.6	9.5	12.4	34.3	42.7	43.6	36.4	10.0	4.4	100.0	100.0	100.0	100.0
Okla.	-	-	-	-	-	-	0.1	-	0.2	-	0.2	-	24.5	34.3	66.6	59.5	8.0	3.6	100.0	100.0	100.0	100.0
Tex.	*	*	*	*	0.1	0.1	0.3	1.0	1.1	2.6	6.5	9.5	21.7	23.7	40.8	41.3	29.5	21.5	100.0	100.0	100.0	100.0
N. Mex.	-	-	-	-	0.2	-	0.2	-	0.4	-	3.1	0.5	14.7	1.6	23.9	14.8	57.7	82.7	100.0	100.0	100.0	100.0
Ariz.	-	-	-	0.1	-	-	-	-	0.4	0.7	4.1	5.1	12.6	17.0	19.3	34.3	63.5	42.9	100.0	100.0	100.0	100.0
Nev.	-	-	-	-	-	-	-	-	-	-	10.5	8.3	36.7	25.0	10.6	33.3	42.2	33.4	100.0	100.0	100.0	100.0
Calif.	-	-	-	-	0.2	-	0.8	-	2.3	-	16.2	7.4	21.1	26.4	24.5	50.4	34.9	15.8	100.0	100.0	100.0	100.0
All other	-	-	-	-	-	-	-	-	-	-	5.6	6.7	61.0	33.3	27.8	60.0	5.6	-	100.0	100.0	100.0	100.0
U. S.	*	*	*	*	0.1	0.1	0.4	0.3	1.8	1.3	8.4	6.7	30.1	30.2	38.9	42.4	20.3	19.0	100.0	100.0	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, 1968 and 1969

State	Quality Index														Total					
	Below grade		Below prime quality						Prime quality						100					
	1968	1969	40.0-49.9	50.0-69.9	70.0-79.9	80.0-84.9	85.0-89.9	90.0-94.9	95.0-99.9	1968	1969	1968	1969	1968	1969	1968	1969			
Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.			
Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	53.3	66.8	46.7	33.2	100.0	100.0	
N.C.	-	-	-	-	0.1	0.4	0.6	0.4	0.7	2.5	1.5	7.6	40.3	65.4	56.8	23.7	100.0	100.0		
S.C.	0.1	-	-	0.2	0.7	0.4	1.9	1.5	3.0	2.6	8.4	6.0	20.0	24.1	46.7	65.1	19.3	100.0	100.0	
Ga.	-	0.4	-	0.3	0.1	6.1	-	10.0	0.4	11.2	1.0	18.3	2.5	19.4	28.2	27.9	67.8	6.4	100.0	100.0
Fla.	-	-	-	-	4.4	-	6.7	-	2.2	-	4.4	-	2.2	2.3	20.9	26.6	76.8	40.2	100.0	100.0
Ala.	0.1	-	-	0.1	0.4	0.1	1.1	0.1	0.7	0.2	1.1	0.8	4.5	58.4	71.1	40.2	21.1	100.0	100.0	
Miss.	*	-	-	0.1	-	0.1	-	0.1	0.2	0.3	0.2	1.3	0.8	61.4	56.9	36.7	41.9	100.0	100.0	
Tenn.	-	-	0.1	-	0.1	0.3	-	0.1	-	0.1	0.4	1.1	1.0	78.5	84.1	19.6	14.4	100.0	100.0	
Mo.	-	-	-	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.1	0.7	1.2	80.5	80.4	18.0	17.8	100.0	100.0	
Ark.	*	-	*	0.1	*	*	*	0.1	0.1	0.2	0.1	1.2	0.5	63.9	47.3	34.5	52.0	100.0	100.0	
La.	-	-	-	0.1	0.1	0.2	0.1	0.4	0.1	0.8	0.3	2.8	0.4	41.7	20.8	54.0	78.2	100.0	100.0	
Okla.	-	-	-	0.2	-	0.1	-	0.1	0.3	0.4	0.6	0.4	0.6	67.6	69.8	31.2	29.3	100.0	100.0	
Tex.	*	-	*	*	0.1	0.1	0.2	0.1	0.5	0.5	1.8	2.9	70.1	74.6	27.3	21.8	100.0	100.0		
N. Mex.	-	-	0.2	-	-	0.2	-	0.2	-	-	0.7	1.4	2.9	41.6	39.8	56.4	56.6	100.0	100.0	
Ariz.	-	-	0.1	-	0.1	0.3	0.1	0.7	0.7	0.8	1.9	3.5	39.5	45.7	57.6	49.0	100.0	100.0		
Nev.	-	-	-	5.3	-	-	-	-	-	-	-	-	-	52.6	50.0	42.1	50.0	100.0	100.0	
Calif.	-	-	-	-	-	-	-	0.2	0.2	0.7	2.1	3.4	40.5	35.0	57.0	60.7	100.0	100.0		
All other	-	-	-	-	-	-	-	-	5.6	-	11.2	-	49.9	66.7	33.3	33.3	100.0	100.0		
U. S.	*	*	*	0.1	0.4	0.1	0.7	0.2	0.8	0.4	1.5	1.7	3.2	59.5	58.3	38.0	35.1	100.0	100.0	

\* Less than 0.05 percent.



Table 8. Percentage distribution of grades by specified frequencies, by states and United States, 1968 and 1969

State	Grade 1/														Total							
	Below grade		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			
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969		
Va.	-	-	-	-	-	-	-	-	-	-	-	-	3.3	-	73.4	47.6	23.3	52.4	-	-	100.0	100.0
N.C.	-	-	0.1	-	0.1	0.3	0.1	0.4	0.6	1.0	1.3	3.1	10.1	15.4	57.3	47.6	29.4	30.5	1.0	1.7	100.0	100.0
S.C.	0.1	-	0.2	0.7	0.2	0.4	0.7	1.5	1.6	2.7	3.4	6.2	7.7	13.8	42.2	31.9	41.0	37.7	2.9	5.1	100.0	100.0
Ga.	-	0.2	0.1	6.9	-	3.8	0.3	5.7	0.7	9.6	1.2	15.4	9.1	20.0	51.1	23.1	35.8	14.2	1.7	1.1	100.0	100.0
Fla.	-	-	-	11.1	-	-	-	2.2	-	4.4	-	6.6	4.7	4.4	37.3	40.0	55.7	31.3	2.3	-	100.0	100.0
Ala.	-	-	0.1	0.8	-	0.5	0.1	0.5	0.1	1.3	2.3	3.6	15.2	23.2	41.9	50.4	36.0	19.4	4.3	0.3	100.0	100.0
Miss.	*	-	0.3	0.1	0.4	0.2	1.8	0.5	6.5	3.0	18.4	11.8	35.6	35.8	32.0	43.5	4.9	5.1	0.1	*	100.0	100.0
Tenn.	-	-	0.4	0.1	0.1	-	0.1	0.1	0.7	0.9	13.9	11.7	45.4	51.1	37.3	33.7	2.0	2.3	0.1	0.1	100.0	100.0
Mo.	-	-	0.3	0.2	0.4	0.1	0.3	0.7	2.0	2.4	21.4	19.7	50.6	48.6	23.8	27.0	1.1	1.3	0.1	-	100.0	100.0
Ark.	*	-	0.3	0.3	0.2	0.2	0.6	0.2	3.9	1.0	21.5	10.3	43.3	40.7	27.0	42.6	3.1	4.7	0.1	*	100.0	100.0
Ia.	-	-	0.5	0.1	0.1	0.2	0.6	0.6	3.5	4.2	13.6	12.7	32.3	40.1	47.3	37.0	2.1	5.1	-	-	100.0	100.0
Okla.	-	-	0.4	-	-	0.1	-	0.1	0.4	0.5	1.9	3.3	31.4	40.1	57.7	53.2	7.8	2.6	0.4	0.1	100.0	100.0
Tex.	-	*	0.2	0.4	0.3	0.6	0.7	1.6	2.5	3.4	8.8	10.9	23.2	27.5	38.1	39.8	21.8	13.4	4.4	2.4	100.0	100.0
N. Mex.	-	-	0.4	0.2	-	0.2	0.6	-	1.5	0.5	4.6	0.9	14.6	4.8	19.9	14.5	33.7	40.4	24.7	38.5	100.0	100.0
Ariz.	0.1	-	0.1	0.3	0.1	0.4	1.0	0.9	1.0	2.7	5.2	6.8	12.5	16.0	17.2	30.3	49.6	35.6	13.2	7.0	100.0	100.0
Nev.	-	-	-	-	-	-	-	-	5.3	-	10.6	8.3	26.2	25.0	15.9	33.3	36.7	33.4	5.3	-	100.0	100.0
Calif.	-	-	0.6	-	0.4	-	1.0	0.5	4.1	0.7	16.4	9.5	18.5	27.2	24.5	46.2	30.8	15.7	3.7	0.2	100.0	100.0
All other	-	-	-	-	-	-	5.6	-	5.6	-	11.1	6.7	49.9	40.0	27.8	53.3	-	-	-	-	100.0	100.0
U. S.	*	*	0.3	0.6	0.2	0.5	0.8	1.0	3.1	2.7	12.3	10.4	29.1	32.5	35.0	39.3	16.6	11.4	2.6	1.6	100.0	100.0

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

\* Less than 0.05 percent.

Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1968 and 1969

State	Oil												Total											
	Under 15.0 1968	15.0- 15.9 1969	16.0- 16.4 1968	16.5- 16.9 1969	17.0- 17.4 1968	17.5- 17.9 1969	18.0- 18.4 1968	18.5- 18.9 1969	19.0- 19.9 1968	20.0- 20.9 1969	21.0 and over 1968	21.0 and over 1969	Pct.	Pct.										
Va.	-	-	-	-	-	-	26.7	43.3	30.0	71.4	-	-	-	100.0										
N.C.	0.1	-	0.5	1.0	0.1	5.5	0.4	13.4	1.8	24.2	8.0	28.8	16.1	25.0	54.4	1.5	18.9	-	0.3	100.0	100.0			
S.C.	-	-	-	1.2	0.1	2.7	0.1	13.0	0.9	24.0	4.8	27.1	10.4	29.4	61.1	2.6	22.0	-	0.6	100.0	100.0			
Ga.	-	0.1	-	1.2	0.3	4.7	0.3	12.6	1.5	27.8	5.3	29.7	18.6	22.3	57.4	1.7	16.1	-	0.3	100.0	100.0			
Fla.	-	-	-	-	-	-	-	7.0	2.2	18.6	11.1	18.6	15.6	53.5	53.3	2.3	17.8	-	-	100.0	100.0			
Ala.	0.1	0.1	0.4	1.8	1.1	4.7	5.2	12.1	12.9	17.3	25.0	25.3	28.6	31.4	25.2	6.7	1.5	0.2	0.1	100.0	100.0			
Miss.	3.8	2.6	7.8	4.1	7.4	5.0	10.9	9.6	15.6	16.6	17.3	23.9	16.6	22.4	12.3	11.4	7.7	4.2	0.6	0.2	-	100.0	100.0	
Tenn.	-	0.1	0.2	0.3	0.5	2.0	5.1	7.7	15.2	19.9	28.8	32.7	27.6	24.3	16.2	9.6	6.3	3.3	0.1	0.1	-	100.0	100.0	
Mo.	-	0.5	1.9	2.3	4.4	6.1	9.6	14.7	21.6	21.4	27.3	27.4	20.5	18.2	11.4	7.2	2.8	2.1	0.3	0.1	-	100.0	100.0	
Ark.	1.2	0.5	4.1	2.7	6.2	5.0	13.0	10.9	21.1	18.4	23.0	24.3	17.3	21.7	9.4	11.7	4.2	4.7	0.5	0.1	-	100.0	100.0	
Ia.	1.0	2.4	3.5	7.8	3.9	7.5	7.4	15.5	11.8	19.6	17.1	21.5	21.5	15.5	19.2	6.6	13.0	3.5	1.5	0.1	0.1	-	100.0	100.0
Okla.	0.1	-	0.3	1.2	0.1	4.3	2.2	12.3	13.2	26.8	31.7	33.4	31.2	15.7	12.3	4.4	8.1	1.8	0.7	0.1	0.1	-	100.0	100.0
Tex.	1.0	2.9	2.9	7.6	4.0	6.6	6.3	8.5	11.0	10.3	16.6	13.0	17.0	15.4	15.3	14.9	19.6	16.0	4.5	3.5	1.8	1.3	100.0	100.0
N. Mex.	0.4	0.5	1.3	-	1.7	-	4.8	0.5	5.0	0.5	7.5	1.4	9.8	4.3	9.6	5.3	27.5	27.2	20.7	40.6	11.7	19.7	100.0	100.0
Ariz.	0.2	0.1	2.0	1.8	3.5	3.3	4.4	5.7	7.6	8.3	7.9	11.0	8.5	17.5	17.4	20.8	40.0	25.0	8.0	5.6	0.5	0.9	100.0	100.0
Nev.	-	-	10.5	8.3	-	8.3	5.3	16.7	5.3	16.7	15.8	16.7	15.8	6.3	10.5	25.0	31.5	-	5.3	-	-	-	100.0	100.0
Calif.	1.7	-	4.4	1.0	9.3	4.2	12.2	9.9	9.5	11.4	12.2	24.3	11.6	25.5	14.1	18.4	23.3	4.9	1.7	0.2	-	0.2	100.0	100.0
All other	-	-	-	-	-	-	13.3	11.1	6.7	33.3	13.3	22.2	46.7	22.2	20.0	11.2	-	-	-	-	-	-	100.0	100.0
U. S.	1.3	1.4	3.4	3.6	4.2	4.4	7.5	8.3	12.9	13.4	17.8	18.5	18.4	18.1	15.7	13.4	15.4	14.7	2.7	3.6	0.7	0.6	100.0	100.0

\* Less than 0.05 percent.

Table 10. Percentage distribution of ammonia by specified frequencies, by states and United States, 1968 and 1969

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			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
Va.	-	-	-	-	-	-	-	14.3	-	23.8	-	28.6	20.0	28.5	26.7	4.8	43.3	-	10.0	-	100.0	100.0
N.C.	-	-	-	-	0.1	-	6.1	-	0.2	17.5	0.5	27.1	10.0	18.3	22.5	15.2	22.7	11.6	44.1	4.1	100.0	100.0
S.C.	-	-	-	-	-	-	-	-	0.2	0.1	0.2	1.9	0.7	10.3	6.0	22.5	18.7	41.8	74.2	23.4	100.0	100.0
Ga.	-	-	-	-	0.1	-	-	-	-	0.4	0.4	1.9	1.3	9.6	7.7	28.0	27.1	36.1	63.5	23.9	100.0	100.0
Fla.	-	-	-	-	-	-	-	-	-	2.2	-	20.0	4.7	31.2	2.3	24.4	34.9	15.6	58.1	6.6	100.0	100.0
Ala.	-	0.1	-	-	0.1	-	0.4	-	1.6	0.7	4.7	5.9	14.4	21.0	29.9	36.8	28.6	25.7	20.2	9.9	100.0	100.0
Miss.	-	-	-	-	-	-	-	-	2.9	0.4	14.3	2.8	30.0	11.6	34.6	29.7	15.7	37.3	2.0	18.2	100.0	100.0
Tenn.	0.1	-	-	-	0.1	-	0.4	0.1	3.2	1.5	18.1	7.3	39.6	25.3	28.8	39.2	8.5	23.3	1.4	3.1	100.0	100.0
Mo.	-	-	-	-	0.1	-	1.4	0.1	10.9	1.1	28.2	8.9	38.2	32.6	16.3	41.9	4.2	13.8	0.7	1.6	100.0	100.0
Ark.	-	-	-	-	-	-	-	-	5.7	0.3	22.8	5.5	36.9	23.6	25.5	40.0	7.3	24.7	1.3	5.9	100.0	100.0
Ia.	-	-	-	-	0.4	-	1.3	1.1	5.5	4.4	21.3	13.8	32.4	17.7	26.4	21.8	10.6	24.4	2.1	16.8	100.0	100.0
Okla.	-	-	-	-	-	-	-	-	0.6	-	2.8	0.4	13.0	2.8	31.2	12.8	32.7	36.7	19.7	47.3	100.0	100.0
Tex.	-	-	-	-	0.1	-	0.5	0.2	1.9	0.9	6.7	3.6	17.5	11.0	31.3	27.5	28.8	35.5	13.2	21.3	100.0	100.0
N. Mex.	-	-	-	-	-	0.2	1.0	2.9	6.0	11.1	15.6	26.8	25.5	31.2	28.4	20.7	19.7	7.1	3.6	100.0	100.0	
Ariz.	0.1	-	-	-	-	-	-	-	0.3	0.7	1.5	2.3	6.7	9.3	23.9	24.9	37.5	38.7	30.0	24.1	100.0	100.0
Nev.	-	-	-	-	-	-	-	-	5.3	-	10.5	16.7	26.3	41.7	42.1	33.3	10.5	8.3	5.3	-	100.0	100.0
Calif.	-	-	-	-	-	-	-	-	0.8	-	2.7	0.2	9.5	3.2	18.5	15.6	28.8	30.9	39.7	50.1	100.0	100.0
All other	-	-	-	-	5.6	-	-	-	44.4	-	50.0	13.3	-	60.0	-	26.7	-	-	-	-	100.0	100.0
U. S.	-	-	-	-	0.1	-	0.5	0.3	3.0	1.3	11.8	5.4	23.6	15.9	27.7	30.4	19.9	30.6	13.4	16.1	100.0	100.0

\* Less than 0.05 percent.



Table 11. Percentage distribution of linters by specified frequencies, by states and United States, 1968 and 1969

State	Linters																					
	Under 7.0		7.0-8.9		9.0-9.9		10.0-10.9		11.0-11.9		12.0-12.9		13.0-13.9		14.0-15.9		16.0 and over		Total			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fla.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ala.	-	0.4	0.1	4.3	6.6	32.0	37.0	47.0	41.6	14.8	13.3	1.5	1.3	-	0.1	-	-	-	-	100.0	100.0	
Miss.	0.1	0.1	0.6	1.0	9.0	11.4	38.2	42.2	37.1	33.4	13.1	10.2	1.7	1.5	0.2	0.2	•	-	-	100.0	100.0	
Tenn.	-	-	0.4	0.2	14.4	7.4	50.5	50.5	30.7	35.6	3.9	6.1	0.1	0.2	-	-	-	-	-	100.0	100.0	
Mo.	0.1	-	0.3	0.2	1.6	6.5	36.4	45.7	48.5	36.7	12.2	9.9	0.8	0.9	0.1	0.1	-	-	-	100.0	100.0	
Ark.	0.1	0.2	1.0	1.0	8.1	8.6	33.2	35.5	41.8	36.7	14.3	15.8	1.4	2.1	0.1	0.1	-	-	-	100.0	100.0	
La.	0.1	-	2.4	-	15.6	3.0	37.2	25.6	29.7	40.1	11.7	23.4	3.0	6.3	0.3	1.5	-	0.1	0.1	100.0	100.0	
Okla.	0.1	0.2	3.3	2.2	15.1	8.6	37.2	23.1	33.1	40.1	10.6	21.5	0.6	3.9	-	0.4	-	-	-	100.0	100.0	
Tex.	0.3	0.3	3.7	6.7	9.8	12.2	22.7	24.4	28.3	28.8	22.4	19.5	9.8	6.8	3.0	1.3	•	-	-	100.0	100.0	
N. Mex.	-	0.2	3.7	4.6	11.3	15.9	30.6	38.4	32.7	32.5	18.6	7.2	3.1	1.0	-	0.2	-	-	-	100.0	100.0	
Ariz.	-	0.1	0.1	1.3	1.3	10.3	14.1	22.9	35.3	40.3	36.4	22.3	11.8	2.8	1.0	-	-	-	-	100.0	100.0	
Nev.	-	-	-	-	-	5.3	-	10.5	-	42.1	-	31.6	8.3	10.5	58.4	-	-	-	-	33.3	100.0	100.0
Calif.	-	-	0.4	4.0	3.4	25.7	21.0	38.3	50.7	25.1	22.4	6.9	2.1	-	-	-	-	-	-	100.0	100.0	
All other	-	-	-	-	11.1	-	38.9	66.7	44.4	33.3	5.6	-	-	-	-	-	-	-	-	-	100.0	100.0
U. S.	0.1	0.1	1.8	2.4	9.2	9.7	31.5	33.9	35.1	34.6	16.8	15.4	4.5	3.3	1.0	0.6	•	•	•	100.0	100.0	

• Less than 0.05 percent.

Table 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1968

State	Moisture														Total
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0	5.1	7.1	9.1	10.1	11.1	12.1	14.1	16.1	18.1	20.1 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Va.	73.4	26.6	-	-	10.0	13.3	10.0	40.1	26.6	-	-	-	-	-	100.0
N. C.	85.0	15.0	-	0.4	16.4	21.0	26.1	21.1	13.5	1.3	0.2	-	-	-	100.0
S. C.	89.9	10.0	0.1	-	14.8	25.4	30.6	19.1	9.7	0.2	0.1	-	-	0.1	100.0
Ga.	86.9	13.0	0.1	-	7.3	22.0	34.4	23.2	12.3	0.7	-	-	-	0.1	100.0
Fla.	88.3	11.7	-	-	4.7	20.9	34.8	27.9	11.7	-	-	-	-	-	100.0
Ala.	72.9	27.1	-	-	2.5	16.3	27.5	26.6	22.3	4.7	0.1	-	-	-	100.0
Miss.	58.4	41.6	*	-	0.9	7.6	22.5	27.4	30.5	9.8	1.1	0.2	*	-	100.0
Tenn.	44.0	56.0	-	-	0.4	1.7	12.2	29.7	38.4	16.2	1.3	0.1	-	-	100.0
Mo.	30.3	69.7	-	-	0.1	1.4	9.6	19.2	49.9	18.1	1.7	-	-	-	100.0
Ark.	49.5	50.5	-	-	0.2	3.4	18.0	27.9	36.6	12.7	1.1	0.1	-	-	100.0
La.	64.9	34.9	0.2	-	1.8	12.0	24.1	27.0	29.0	5.3	0.6	-	-	0.2	100.0
Okla.	95.7	4.2	0.1	-	0.1	24.1	35.9	26.4	9.2	3.2	0.7	0.1	0.2	0.1	100.0
Tex.	96.7	3.3	*	*	8.7	64.0	12.8	7.0	4.2	2.6	0.6	0.1	*	-	100.0
N. Mex.	99.8	0.2	-	-	14.2	74.1	9.4	1.3	0.8	-	0.2	-	-	-	100.0
Ariz.	96.9	1.0	0.1	0.3	48.3	42.5	5.0	1.9	0.9	0.6	0.4	-	-	0.1	100.0
Nev.	94.7	5.3	-	-	47.3	15.8	5.3	-	26.3	5.3	-	-	-	-	100.0
Calif.	75.0	24.8	0.2	-	33.3	22.4	6.4	7.5	5.4	18.6	4.8	1.0	0.4	0.2	100.0
All other	50.0	50.0	-	-	-	-	16.7	33.3	33.3	11.1	5.6	-	-	-	100.0
U. S.	73.1	26.9	*	*	5.3	22.2	10.6	16.7	18.3	20.1	6.1	0.6	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, 1969

State	Moisture														Total
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0	5.1	7.1	9.1	10.1	11.1	12.1	14.1	16.1	18.1	20.1 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
Va.	90.4	9.6	-	-	-	4.8	19.0	23.8	42.8	9.6	-	-	-	-	100.0
N.C.	77.3	22.7	-	-	-	2.8	16.6	33.9	24.0	19.1	3.3	0.3	-	-	100.0
S.C.	78.2	21.8	-	-	-	9.4	22.7	25.7	20.4	18.5	2.8	0.4	0.1	-	100.0
Ga.	69.1	30.8	0.1	-	-	4.6	15.1	25.8	23.6	25.3	5.0	0.4	0.1	0.1	100.0
Fla.	62.3	37.7	-	-	-	4.4	8.9	29.0	20.0	33.3	2.2	2.2	-	-	100.0
Ala.	56.4	43.6	-	-	-	0.8	7.8	21.9	25.9	34.5	8.8	0.3	-	-	100.0
Miss.	67.8	32.2	*	-	-	1.9	10.7	26.7	28.5	26.7	5.0	0.5	*	*	100.0
Tenn.	47.6	52.3	0.1	-	-	0.1	3.5	18.0	26.0	39.3	11.8	1.1	0.1	0.1	100.0
Mo.	40.1	59.9	-	-	-	0.1	1.3	13.8	24.9	41.5	16.5	1.8	0.1	-	100.0
Ark.	73.9	26.1	-	-	*	2.9	12.8	30.6	27.6	21.8	3.9	0.4	*	-	100.0
La.	84.4	15.5	0.1	-	-	0.1	13.7	21.7	22.3	13.7	1.6	0.2	-	0.1	100.0
Okla.	99.3	0.7	-	-	-	0.4	56.4	30.0	9.1	3.4	0.6	0.1	-	-	100.0
Tex.	97.5	2.5	*	-	-	2.0	66.0	20.1	6.6	2.8	1.9	0.1	*	*	100.0
N. Mex.	97.3	2.7	-	-	-	2.9	69.7	15.1	5.3	4.3	2.2	0.5	-	-	100.0
Ariz.	99.5	0.5	-	0.2	22.8	64.3	8.6	2.5	1.1	0.3	0.1	0.1	-	-	100.0
Nev.	100.0	-	-	-	75.0	25.0	-	-	-	-	-	-	-	-	100.0
Calif.	98.5	1.5	-	-	23.1	47.6	13.9	10.2	3.7	1.5	-	-	-	-	100.0
All other	53.3	46.7	-	-	-	-	-	26.7	26.6	46.7	-	-	-	-	100.0
U. S.	77.2	22.8	*	*	1.9	23.2	14.1	19.5	18.5	18.3	4.1	0.4	*	*	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, 1968

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.	96.7	3.3	-	40.0	40.0	16.7	-	3.3	-	-	-	-	-	-	100.0
N. C.	94.2	5.8	-	38.6	44.5	7.9	3.2	3.0	2.0	0.7	0.1	-	-	-	100.0
S. C.	82.2	17.7	0.1	45.9	23.9	8.8	3.6	7.5	7.2	2.5	0.3	-	0.2	0.1	100.0
Ga.	88.8	11.2	-	12.4	53.6	16.3	6.5	7.1	3.5	0.5	-	-	0.1	-	100.0
Fla.	90.7	9.3	-	2.3	58.1	23.3	7.0	7.0	2.3	-	-	-	-	-	100.0
Ala.	96.0	3.9	0.1	30.5	50.9	10.4	4.2	2.8	0.8	0.2	-	0.1	-	0.1	100.0
Miss.	96.8	3.1	0.1	29.2	52.6	12.9	2.1	1.9	0.8	0.2	0.1	0.1	*	0.1	100.0
Tenn.	97.0	2.9	0.1	52.3	35.1	8.6	1.0	1.5	0.7	0.2	0.2	0.2	0.1	0.1	100.0
Mo.	97.9	2.0	0.1	59.8	33.6	4.0	0.5	1.0	0.5	0.3	0.1	-	0.1	0.1	100.0
Ark.	98.9	1.1	*	47.1	45.3	5.7	0.8	0.5	0.4	0.1	*	0.1	*	*	100.0
Ia.	88.3	11.7	-	11.3	51.3	18.4	7.3	8.7	2.4	0.4	0.2	*	*	-	100.0
Okla.	99.4	0.6	-	58.7	38.9	1.4	0.4	0.3	0.2	-	-	0.1	-	-	100.0
Tex.	99.2	0.8	*	47.0	48.6	3.1	0.5	0.4	0.3	0.1	*	*	*	*	100.0
N. Mex.	99.6	0.4	-	66.1	31.2	2.1	0.2	-	0.4	-	-	-	-	-	100.0
Ariz.	98.8	1.2	-	85.6	10.9	1.7	0.6	0.8	0.3	-	0.1	-	-	-	100.0
Nev.	100.0	-	-	57.9	36.8	-	5.3	-	-	-	-	-	-	-	100.0
Calif.	98.8	1.2	-	87.3	10.1	1.0	0.4	0.8	0.4	-	-	-	-	-	100.0
All other	83.2	16.8	-	55.4	27.8	-	-	5.6	11.2	-	-	-	-	-	100.0
U. S.	96.7	3.3	*	41.4	45.0	8.3	2.0	2.0	1.0	0.2	0.1	*	*	*	100.0

\* Less than 0.05 percent.

Table 15. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1969

State	Free fatty acids													Total	
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0	0.5	1.0	1.5	1.9	3.0	5.0	7.0	9.0	11.0		12.5 and over
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Va.	76.2	23.8	-	23.8	19.1	33.3	23.8	-	-	-	-	-	-	-	100.0
N.C.	66.2	33.8	-	0.6	14.3	32.0	24.5	8.2	0.8	0.3	-	-	-	-	100.0
S.C.	40.4	59.5	0.1	0.8	11.1	14.8	13.7	26.6	24.8	5.7	1.9	-	0.5	0.1	100.0
Ga.	18.1	80.1	1.8	0.3	6.8	5.1	5.9	16.3	31.7	17.5	8.6	4.3	1.7	1.8	100.0
Fla.	62.5	33.1	4.4	-	17.8	24.5	20.2	13.3	6.6	4.4	2.2	4.4	2.2	4.4	100.0
Ala.	83.9	15.9	0.2	13.2	41.7	21.3	7.7	9.0	4.4	1.2	0.9	0.2	0.2	0.2	100.0
Miss.	97.8	2.2	-	36.6	48.8	10.0	2.4	1.4	0.6	0.2	*	-	-	-	100.0
Tenn.	99.1	0.9	-	66.5	29.9	2.3	0.4	0.3	0.5	-	-	-	0.1	-	100.0
Mo.	99.0	0.9	0.1	78.4	18.7	1.6	0.3	0.3	0.2	0.2	0.2	-	-	0.1	100.0
Ark.	99.6	0.4	*	69.2	28.8	1.3	0.3	0.2	0.1	0.1	-	-	-	*	100.0
Ia.	96.3	1.7	-	53.1	35.9	7.2	2.1	1.1	0.1	0.3	0.1	0.1	-	-	100.0
Okla.	98.9	1.1	-	35.0	57.9	4.8	1.2	0.8	0.2	0.1	-	-	-	-	100.0
Tex.	98.0	2.0	*	18.7	60.7	16.1	2.5	1.5	0.4	0.1	*	-	-	*	100.0
N. Mex.	99.1	0.9	-	27.6	62.9	7.9	0.7	0.7	0.2	-	-	-	-	-	100.0
Ariz.	92.1	7.9	-	27.9	45.5	13.3	5.4	5.4	2.0	0.5	-	-	-	-	100.0
Nev.	100.0	-	-	41.7	50.0	8.3	-	-	-	-	-	-	-	-	100.0
Calif.	89.2	10.8	-	29.8	44.5	8.2	6.7	6.4	4.2	0.2	-	-	-	-	100.0
All other	100.0	-	-	66.6	26.7	6.7	-	-	-	-	-	-	-	-	100.0
U. S.	90.8	9.1	0.1	36.8	40.8	10.0	3.2	3.8	3.2	1.2	0.6	0.2	0.1	0.1	100.0

\* Less than 0.05 percent.

Table 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1968

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	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
Va.	76.7	23.3	-	23.3	53.4	23.3	-	-	-	-	-	-	-	100.0
N. C.	68.7	31.3	-	34.1	34.6	24.9	4.6	1.2	0.5	0.1	-	-	-	100.0
S. C.	80.1	19.9	-	46.0	34.1	16.3	2.5	0.9	-	-	0.1	0.1	-	100.0
Ga.	85.7	14.3	-	42.5	43.2	13.1	0.9	0.2	-	0.1	-	-	-	100.0
Fla.	95.3	4.7	-	34.9	60.4	4.7	-	-	-	-	-	-	-	100.0
Ala.	59.4	40.5	0.1	23.2	36.2	30.4	7.7	1.9	0.3	0.2	-	-	0.1	100.0
Miss.	68.7	31.3	*	30.9	37.8	24.9	4.9	1.1	0.3	0.1	*	*	*	100.0
Tenn.	61.2	38.8	-	25.4	35.8	29.0	7.0	2.0	0.7	0.1	-	-	-	100.0
Mo.	71.1	28.9	-	38.1	33.0	23.0	4.4	1.1	0.3	-	-	0.1	-	100.0
Ark.	73.2	26.7	0.1	32.5	40.7	20.4	4.3	1.1	0.5	0.3	0.1	*	0.1	100.0
La.	90.6	9.4	*	57.0	33.6	7.6	1.3	0.3	0.2	-	-	*	*	100.0
Okla.	32.3	67.6	0.1	7.6	24.7	44.2	15.9	4.1	2.5	0.6	0.1	0.2	0.1	100.0
Tex.	29.3	70.0	0.7	7.9	21.4	38.5	18.0	7.2	4.4	1.2	0.5	0.2	0.7	100.0
N. Mex.	56.4	43.0	0.6	20.5	35.9	26.0	7.3	4.8	2.9	0.6	1.0	0.4	0.6	100.0
Ariz.	57.7	41.6	0.7	33.1	24.6	26.9	7.0	3.3	2.1	0.9	0.7	0.7	0.7	100.0
Nev.	42.1	57.9	-	26.3	15.8	52.6	-	-	5.3	-	-	-	-	100.0
Calif.	73.3	26.7	-	38.2	35.1	19.7	4.6	1.0	0.6	0.4	0.2	0.2	-	100.0
All other	77.8	22.2	-	-	77.8	11.1	11.1	-	-	-	-	-	-	100.0
U. S.	59.3	40.5	0.2	26.9	32.4	26.8	8.4	2.9	1.6	0.5	0.2	0.1	0.2	100.0

\* Less than 0.05 percent.



Table 17. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1969

State	Foreign matter														Total	
	Pct.	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0	Pct.	0.6	1.1	2.1	3.1	4.1	5.6	7.1	8.6		10.1 and over
Va.	43.0	57.0	-	-	24.0	19.0	38.0	19.0	-	-	-	-	-	-	-	100.0
N.C.	45.2	54.8	-	-	18.3	26.9	37.1	12.0	3.9	1.8	-	-	-	-	-	100.0
S.C.	56.4	43.6	-	-	25.0	31.4	32.5	9.2	1.4	0.4	0.1	-	-	-	-	100.0
Ga.	60.9	39.1	-	-	26.9	34.0	27.1	6.8	3.8	1.0	0.3	0.1	-	-	-	100.0
Fla.	82.3	17.7	-	-	40.0	42.3	13.3	4.4	-	-	-	-	-	-	-	100.0
Ala.	52.2	47.8	-	-	24.9	27.3	36.0	7.9	2.4	0.9	0.4	0.1	0.1	0.1	-	100.0
Miss.	63.8	36.2	-	-	26.9	36.9	27.4	6.2	1.8	0.6	0.1	0.1	0.1	0.1	-	100.0
Tenn.	49.3	50.7	-	-	19.7	29.6	34.3	12.0	3.3	1.0	-	-	0.1	-	-	100.0
Mo.	61.9	38.1	-	-	25.2	36.7	28.6	7.4	1.4	0.5	-	-	-	0.2	-	100.0
Ark.	71.3	28.7	•	-	29.1	42.2	21.5	4.9	1.3	0.7	0.2	0.2	0.1	0.1	•	100.0
Ia.	93.6	6.4	-	-	47.8	45.8	4.7	1.0	0.4	0.2	-	-	0.1	-	-	100.0
Okla.	29.6	70.2	0.2	-	6.3	23.3	46.3	15.5	5.8	2.1	0.3	0.1	0.1	0.1	0.2	100.0
Tex.	23.4	75.9	0.7	-	6.6	16.8	37.5	20.6	9.3	5.4	2.0	0.8	0.3	0.3	0.7	100.0
N. Mex.	59.5	39.8	0.7	-	29.2	30.3	21.4	9.1	2.9	3.1	2.6	0.5	0.2	0.2	0.7	100.0
Ariz.	50.4	49.5	0.1	-	14.6	35.8	29.5	8.7	4.6	2.8	2.8	0.7	0.4	0.1	0.1	100.0
Nev.	50.1	49.9	-	-	16.7	33.4	41.6	8.3	-	-	-	-	-	-	-	100.0
Calif.	64.7	35.3	-	-	17.1	47.6	29.1	3.7	1.5	0.5	0.5	-	-	-	-	100.0
All other	73.4	26.6	-	-	20.0	53.4	26.6	-	-	-	-	-	-	-	-	100.0
U. S.	53.7	46.1	0.2	-	21.9	31.8	29.2	10.1	3.8	1.9	0.7	0.3	0.1	0.2	0.2	100.0

• Less than 0.05 percent.

Table 18. Number of cottonseed samples by specified groups, by qualities, and number reduced in grade for specified causes, by states and United States, 1968 and 1969

State	Prime		Quality				Total samples graded		Reduced due to excess					
	Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acids		Foreign matter			
	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969	1968	1969		
Va.	28	14	32	28	-	-	60	42	16	4	2	10	14	24
N.C.	912	336	700	1,082	-	-	1,612	1,418	242	320	94	480	506	776
S.C.	1,194	330	640	1,382	2	-	1,836	1,712	186	374	328	1,022	366	748
Ga.	1,666	202	788	2,918	-	14	2,454	3,134	320	968	274	2,566	350	1,224
Fla.	66	36	20	54	-	-	86	90	10	34	8	34	4	16
Ala.	1,366	798	2,026	2,990	2	-	3,394	3,788	918	1,656	130	604	1,376	1,814
Miss.	4,838	4,650	8,416	6,462	6	-	13,260	11,112	5,522	3,592	408	248	4,162	4,026
Tenn.	652	552	2,678	3,288	-	-	3,330	3,840	1,866	2,010	94	32	1,296	1,946
Mo.	334	458	1,524	2,114	-	-	1,858	2,572	1,296	1,540	42	22	538	982
Ark.	3,488	5,394	6,594	4,996	2	-	10,084	10,390	5,096	2,716	106	42	2,700	2,970
Ia.	2,592	3,122	2,204	856	-	-	4,796	3,978	1,686	616	562	58	452	248
Okla.	594	550	1,310	1,326	-	-	1,904	1,876	82	14	12	22	1,290	1,320
Tex.	4,720	3,080	12,590	11,036	-	2	17,310	14,118	562	368	160	292	12,252	10,830
N. Mex.	538	472	418	360	-	-	956	832	2	22	4	8	418	338
Ariz.	1,898	1,350	1,396	1,410	-	-	3,294	2,760	38	14	38	218	1,392	1,368
Nev.	16	12	22	12	-	-	38	24	2	-	-	-	22	12
Calif.	550	488	414	318	-	-	964	806	242	12	12	88	258	284
All other	6	10	12	20	-	-	18	30	9	14	3	-	4	8
U. S.	25,458	21,854	41,784	40,652	12	16	67,254	62,522	18,095	14,274	2,277	5,746	27,400	28,934

