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# COTTONSEED QUALITY

## CROP OF 1972



**UNITED STATES DEPARTMENT OF AGRICULTURE**

*Agricultural Marketing Service Cotton Division*

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Cottonseed Quality - 1972 Crop

The average grade of cottonseed in the 1972-73 season was down from that of a year earlier for the sixth consecutive year and was the lowest since the 1957-58 season. The average oil content of seed from the 1972 crop was lower than a year earlier but the average ammonia content was somewhat higher. Moisture, free fatty acids and foreign matter averaged higher than in the preceding season. The percentage of moisture in the seed was the highest since the 1957-58 season while the percentage of foreign matter was the highest in more than 25 years.

Data from grade certificates covering 71,200 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 others in this report are arithmetic means of quality factors and indexes tabulated and averaged from the individual grade certificates issued by chemists licensed by the U. S. Department of Agriculture.

The official standards for grading cottonseed were amended effective September 4, 1972, to eliminate the linters factor. The official grade certificates for District 10 of Texas issued prior to September 4 were prepared under the standards which included linters as a factor in determining the grade. The official cottonseed standards were further amended effective October 9, 1972, to include a separate method for determining cottonseed grades for American Pima cotton. 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.

Table 1. Cottonseed quality factors, indexes and grades,  
1950-1972

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
1970	17.8	3.92	11.3	10.8	1.6	1.3	100.52	97.1	98.0	60,118
1971	17.7	3.84	11.0	11.1	1.5	1.5	99.29	96.2	95.5	57,960
1972	17.3	3.92	1/	11.9	1.6	1.6	97.67	95.7	94.0	71,210

1/ The linters factor was eliminated from official grade standards effective September 4, 1972.

Standards for Grades of Cottonseed Sold or Offered for Sale  
for Crushing Purposes Within the United States

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 number, 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) For Upland cottonseed the quantity index shall equal 4 times the percentage of oil plus 6 times the percentage of ammonia plus 5.
- (b) For American Pima cottonseed the quantity index shall equal 4 times the percentage of oil plus 6 times the percentage of ammonia minus 10.

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	O11		NH <sub>3</sub> 8/			Sum of pro-ducts	Adjust-ment factors	Quan-tity index
	Total	Re-duction	Total	Re-duction	Total	Re-duction			Total	Pro-duct 7/	Total	Pro-duct 7/				
	Pct.	Units	Pct.	Units	Pct.	Units	Units	Pct.	Pct.	Pct.	Pct.	Pct.				
<u>PRIME QUALITY SEED</u>																
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	97.60	+5	102.60	102.5
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	95.80	+5	100.80	101.0
3	1.2	0.0	0.8	0.0	9.6	0.0	0.0	100.0	16.2	64.8	3.97	23.82	88.62	+5	93.62	93.5
<u>BELOW PRIME QUALITY SEED</u>																
4	1.9	0.4	1.0	0.0	12.0	0.0	0.4	99.6	18.5	74.0	3.50	21.00	95.00	+5	100.00	99.5
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	101.30	+5	106.30	106.0
6	1.8	0.0	1.0	0.0	12.1	0.1	0.1	99.9	17.3	69.2	4.23	25.38	94.58	+5	99.58	99.5
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	81.08	+5	86.08	85.5
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	123.70	-10	113.70	108.0 AP
<u>OFF QUALITY SEED</u>																
Treated (other than usual), Fermented, Hot																
9	12.5	42.8	0.7	0.0	12.0	0.0	42.8	57.2	20.1	80.4	3.67	22.02	102.42	+5	107.42	61.5
10	1.8	0.0	10.1	9.1	12.0	0.0	9.1	90.9	16.9	67.6	4.13	24.78	92.38	+5	97.38	88.5
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	98.00	+5	103.00	94.5
12	1.8	0.0	15.8	14.8	11.1	0.0	14.8	85.2	19.3	77.2	4.08	24.48	101.68	+5	106.68	91.0
13	4.6	11.2	11.5	10.5	9.2	0.0	21.7	78.3	16.4	65.6	4.32	25.92	91.52	+5	96.52	75.5
<u>BELOW GRADE SEED</u>																
14	10.5	34.8	20.8	19.8	15.6	3.6	58.2	41.8	17.0	68.0	3.41	20.45	88.46	+5	93.46	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	101.64	+5	106.64	BG*

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

2/ Example "9", demonstration of application of grading system on American Pima seed; all others relate 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 and ammonia in the seed multiplied by the factor used in computing the quantity index.

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, 1971 and 1972 1/

State	Cottonseed analysis														Average index				Average grade	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1971	1972		
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972				
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.			
N.C.	19.0	19.1	3.89	3.99	-	-	11.9	11.4	6.2	1.5	1.2	1.3	104.50	105.34	78.9	97.7	82.5	103.5		
S.C.	19.2	18.8	3.90	4.16	-	-	11.7	11.2	4.9	1.4	1.3	1.3	105.26	105.16	83.9	97.1	89.0	102.5		
Ga.	19.2	18.5	3.91	4.23	-	-	11.7	10.5	4.3	1.1	0.9	0.8	105.26	104.49	87.6	98.2	93.0	103.0		
Fla.	18.8	18.1	3.78	4.14	-	-	12.3	11.5	3.7	1.2	0.7	0.8	102.97	102.02	91.6	96.5	95.0	99.5		
Ala.	18.5	17.5	3.77	3.93	11.4	-	12.3	12.9	1.6	2.1	1.3	1.4	102.10	98.62	96.3	93.8	98.5	93.0		
Miss.	17.7	17.0	3.82	3.92	11.6	-	11.4	12.6	0.8	1.5	1.1	1.1	99.73	96.48	98.8	96.4	99.0	93.0		
Tenn.	18.0	17.3	3.72	3.72	11.4	-	12.4	13.7	0.7	2.2	1.3	1.5	100.28	96.22	98.4	93.3	99.0	90.0		
Mo.	17.4	17.0	3.77	3.71	11.6	-	12.2	14.0	0.5	1.8	1.1	1.4	97.95	95.16	98.5	94.7	97.0	90.0		
Ark.	17.6	16.7	3.77	3.91	11.6	-	11.2	13.2	0.6	2.1	1.0	1.2	98.79	94.95	99.2	93.8	98.0	89.5		
La.	17.5	17.0	3.80	3.94	11.2	-	11.7	12.7	2.2	3.1	0.6	0.8	98.53	96.32	95.8	91.1	94.5	88.5		
Okla.	17.2	17.7	4.09	4.21	10.1	-	10.6	10.2	0.9	0.7	2.7	1.8	97.87	101.18	97.9	98.8	96.0	100.0		
Tex.	16.8	17.4	3.98	3.91	9.4	-	8.8	9.7	0.8	0.8	3.3	2.9	94.40	98.25	97.1	97.6	92.0	96.0		
N. Mex.	18.1	19.1	3.95	3.88	10.3	-	8.6	9.2	0.5	0.6	2.7	2.1	100.37	104.65	98.1	98.6	98.5	103.5		
All other	19.0	19.1	3.87	3.78	11.6	-	11.2	12.0	5.4	2.1	1.3	1.4	104.90	104.57	79.7	96.3	84.5	101.0		
U. S.	17.7	17.3	3.84	3.92	11.0	-	11.1	11.9	1.5	1.6	1.5	1.6	99.29	97.67	96.2	95.7	95.5	94.0		

1/ In 1971, linters factor not used in determining the grade of cottonseed in Virginia, North Carolina, South Carolina, Georgia, Florida and Districts 5 through 9 in Alabama. See Table 5.

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1971 and 1972

NORTH CAROLINA 1/

Month	Oil		Cottonseed analysis						Average index				Average grade		Samples					
	Pct. Pct.		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972		
Sept.	18.3	19.5	3.92	4.22	-	-	12.2	10.1	1.6	9.6	0.5	0.9	101.92	108.75	96.9	43.7	98.5	77.0	38	4
Oct.	18.7	18.7	3.90	4.08	-	-	12.7	11.4	1.6	0.9	0.5	0.6	103.14	104.39	97.6	99.0	101.0	103.5	336	172
Nov.	19.1	19.1	3.90	3.99	-	-	11.8	11.6	5.7	1.0	1.1	1.2	104.73	105.36	83.3	99.0	87.0	104.5	510	610
Dec.	19.1	19.1	3.87	3.95	-	-	11.7	11.4	8.1	1.2	1.5	1.5	104.66	105.38	72.7	99.1	74.0	104.5	456	370
Jan.	19.0	18.9	3.88	4.00	-	-	11.8	11.5	9.8	1.6	1.7	1.9	104.32	104.43	60.7	97.7	67.0	103.0	162	90
Feb.	19.3	19.3	3.86	4.02	-	-	11.5	10.9	9.7	2.2	1.9	1.6	105.22	106.30	63.6	96.4	69.5	102.5	86	40
Mar.-July	20.0	19.4	3.99	4.03	-	-	9.9	10.4	10.5	4.7	2.3	2.3	109.34	106.68	49.1	86.8	63.0	93.0	70	120

Season	19.0	19.1	3.89	3.99	-	-	11.9	11.4	6.2	1.5	1.2	1.3	104.50	105.34	78.9	97.7	82.5	103.5	1,658	1,406
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SOUTH CAROLINA 1/

Sept.	18.9	18.8	3.78	4.26	-	-	12.8	11.9	1.2	1.3	0.7	0.6	103.34	106.25	98.5	97.9	102.0	104.0	122	46
Oct.	19.1	19.0	3.63	4.19	-	-	12.4	11.2	1.4	0.7	0.8	0.7	104.36	106.25	98.5	99.3	103.0	106.0	668	542
Nov.	19.3	18.8	3.91	4.13	-	-	11.8	11.5	5.2	0.6	1.5	1.3	105.62	104.97	84.8	99.3	89.0	104.5	596	606
Dec.	19.1	18.5	3.95	4.09	-	-	11.3	11.8	7.5	0.7	1.8	1.7	105.32	103.55	75.5	98.8	79.0	102.5	312	308
Jan.	19.1	18.7	3.93	4.14	-	-	11.3	11.3	9.3	1.6	1.9	1.4	105.08	104.50	62.1	98.1	69.0	103.0	156	184
Feb.	19.4	18.7	3.97	4.19	-	-	10.7	10.8	8.6	2.4	1.9	1.5	106.50	104.67	66.5	95.3	74.5	100.0	172	122
Mar.-July	19.8	18.9	4.02	4.19	-	-	9.5	10.5	9.0	3.8	1.7	1.8	108.26	105.57	63.0	89.3	72.5	95.0	142	392

Season	19.2	18.8	3.90	4.16	-	-	11.7	11.2	4.9	1.4	1.3	1.3	105.26	105.16	83.9	97.1	89.0	102.5	2,168	2,200
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GEORGIA 1/

Aug.	19.0	-	3.92	-	-	-	13.1	-	4.7	-	0.9	-	105.83	-	85.1	-	92.0	-	6	-
Sept.	19.2	18.7	3.83	4.33	-	-	12.0	8.5	3.0	1.0	1.1	0.7	104.55	105.92	94.1	99.0	98.5	105.0	134	416
Oct.	19.0	18.6	3.88	4.30	-	-	12.0	9.4	1.9	0.6	0.9	0.7	104.45	105.55	97.4	99.8	102.0	105.5	942	1,128
Nov.	19.3	18.3	3.93	4.13	-	-	11.4	12.1	3.5	0.7	0.9	0.9	105.89	103.01	92.1	99.0	97.5	102.5	1,230	540
Dec.	19.2	18.1	3.93	4.05	-	-	12.2	13.2	5.2	1.3	1.0	0.9	105.28	101.39	85.2	97.4	89.0	99.0	516	266
Jan.	19.1	18.5	3.92	4.12	-	-	12.1	12.0	8.2	2.3	1.0	1.0	104.80	103.66	72.0	94.2	76.0	100.0	338	118
Feb.	19.2	18.5	3.90	4.15	-	-	11.4	11.8	9.1	3.3	1.0	1.3	105.17	103.92	63.2	91.0	72.0	95.5	158	94
Mar.-July	19.3	18.6	3.93	4.15	-	-	10.2	11.1	9.0	4.4	1.0	1.3	106.52	104.36	58.0	88.1	70.5	92.5	178	120

Season	19.2	18.5	3.91	4.23	-	-	11.7	10.5	4.3	1.1	0.9	0.8	105.26	104.49	87.6	98.2	93.0	103.0	3,502	2,682
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Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1971 and 1972 (Continued)

FLORIDA 1/

Month	Oil		Cottonseed analysis				Free fatty acids		Foreign matter		Average Index				Average grade		Samples			
	1971	1972	Ammonia	Linters		Moisture		1971	1972	1971	1972	Quantity		Quality		1971	1972	1971	1972	
				Pct.	Pct.	Pct.	Pct.					1971	1972	1971	1972					
Sept.	18.9	18.3	3.77	4.09	-	-	13.2	10.2	6.0	0.8	0.8	0.5	103.17	102.97	84.1	100.0	87.5	103.0	6	16
Oct.	19.1	18.4	3.79	4.16	-	-	11.8	10.5	4.0	0.5	0.5	0.6	103.93	103.67	91.4	99.9	95.5	104.0	30	42
Nov.	19.0	17.7	3.79	4.10	-	-	11.9	13.6	2.0	0.9	0.6	1.0	104.06	99.66	98.4	97.8	102.5	98.5	32	22
Dec.	18.9	17.9	3.72	4.07	-	-	13.5	13.2	3.3	1.5	0.6	1.1	102.67	100.92	91.4	97.8	95.5	98.5	12	6
Jan.	18.5	18.2	3.73	4.37	-	-	12.6	12.6	4.9	1.7	1.0	0.7	100.69	104.50	88.1	99.5	88.0	104.5	8	2
Feb.	17.0	16.1	3.77	4.22	-	-	13.6	12.6	6.2	10.6	1.1	2.7	94.38	94.38	82.5	36.2	71.0	47.5	4	4
Mar.-July	17.2	-	3.92	-	-	-	11.6	-	13.2	-	4.8	-	98.75	-	45.0	-	60.0	-	2	-
Season	18.8	18.1	3.78	4.14	-	-	12.3	11.5	3.7	1.2	0.7	0.8	102.97	102.02	91.6	96.5	95.0	99.5	94	92

ALABAMA 1/

Aug.	18.5	-	3.77	-	12.5	-	10.1	-	7.4	-	1.6	-	103.50	-	49.7	-	69.0	-	4	-
Sept.	18.2	17.9	3.69	4.08	11.3	-	13.7	11.1	2.5	1.0	1.0	0.8	100.45	100.97	91.2	97.4	92.5	99.0	120	284
Oct.	18.4	17.8	3.74	4.02	11.3	-	12.9	12.2	1.2	0.7	1.0	1.0	101.69	100.27	97.5	98.9	99.5	99.5	1,504	1,522
Nov.	18.6	17.3	3.78	3.87	11.4	-	11.9	14.2	1.0	1.4	1.3	1.4	102.77	97.19	98.3	96.4	101.5	94.0	1,650	1,208
Dec.	18.4	17.0	3.76	3.81	11.3	-	12.2	14.5	1.3	2.1	1.5	1.6	101.66	95.82	97.6	94.5	91.0	91.0	628	686
Jan.	18.3	17.4	3.75	3.86	11.4	-	12.7	13.0	3.1	3.8	1.6	1.7	100.87	97.41	92.4	89.8	93.5	87.0	342	280
Feb.	18.5	17.9	3.80	3.93	11.7	-	11.6	12.0	3.4	5.0	1.5	2.0	102.51	99.90	91.5	85.5	93.0	84.5	194	198
Mar.-July	18.7	17.8	3.81	3.95	11.7	-	11.0	11.3	5.1	7.0	1.7	2.0	103.40	99.73	83.6	74.2	87.5	75.5	245	498
Season	18.5	17.5	3.77	3.93	11.4	-	12.3	12.9	1.6	2.1	1.3	1.4	102.10	98.62	96.3	93.8	98.5	93.0	4,688	4,676

MISSISSIPPI

Aug.	16.8	-	4.07	-	12.0	-	9.1	-	8.1	-	1.4	-	98.38	-	73.4	-	73.0	-	8	-
Sept.	17.3	17.0	3.72	4.03	11.9	-	13.6	12.2	2.0	0.6	0.9	0.7	97.49	97.21	95.2	98.8	93.5	96.5	110	1,438
Oct.	18.0	17.3	3.81	3.97	11.6	-	11.8	12.0	0.7	0.6	0.8	0.8	100.82	98.09	99.1	99.2	100.0	97.5	4,916	7,160
Nov.	17.7	16.7	3.84	3.82	11.6	-	10.8	14.1	0.7	1.4	1.2	1.3	100.01	94.49	99.4	96.8	99.5	92.0	5,298	2,492
Dec.	16.9	16.3	3.77	3.79	11.5	-	12.1	14.1	0.8	2.3	1.6	1.7	95.96	92.67	98.6	94.5	95.0	87.5	1,240	1,162
Jan.	17.0	16.4	3.72	3.81	11.5	-	13.4	13.6	1.9	4.1	1.7	2.0	96.28	93.11	95.4	88.5	92.0	81.0	322	404
Feb.	16.9	16.5	3.78	3.91	11.7	-	12.3	12.6	3.1	5.2	2.0	2.1	96.49	94.12	93.3	85.0	90.0	78.0	186	364
Mar.-July	17.5	16.8	3.85	3.89	11.6	-	11.1	12.0	4.4	7.1	2.3	2.0	98.42	95.25	86.5	77.0	85.0	72.5	128	772
Season	17.7	17.0	3.82	3.92	11.6	-	11.4	12.6	0.8	1.5	1.1	1.1	99.73	96.48	98.8	96.4	99.0	93.0	12,208	13,792

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1971 and 1972 (Continued)

TENNESSEE

Month	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1971	1972	1971	1972	No.	No.
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	No.	No.
Aug.	16.2	-	3.92	-	11.5	-	11.6	-	8.0	-	1.3	-	92.50	-	77.5	-	60.0	-	-	-	2	-
Sept.	17.3	17.0	3.60	3.75	11.9	-	14.8	14.7	4.3	0.7	1.1	0.9	96.75	95.50	75.1	96.7	78.5	93.0	14	170	-	-
Oct.	17.9	17.4	3.69	3.74	11.4	-	12.8	13.6	0.5	0.7	1.0	1.0	99.69	96.73	98.5	97.9	98.5	95.0	1,542	1,998	-	-
Nov.	18.3	17.2	3.75	3.67	11.3	-	11.7	14.5	0.6	1.6	1.4	1.6	101.41	95.45	98.9	96.2	100.5	92.0	1,610	1,384	-	-
Dec.	17.8	17.0	3.70	3.67	11.3	-	12.8	14.2	0.7	2.3	1.8	1.9	98.90	94.59	98.0	94.3	97.0	89.5	508	558	-	-
Jan.	17.7	17.1	3.70	3.67	11.4	-	13.1	14.0	1.1	3.6	2.1	1.7	98.78	95.21	97.4	90.2	96.5	85.5	122	126	-	-
Feb.	17.9	17.2	3.71	3.72	11.6	-	12.7	13.1	2.1	4.8	2.0	2.2	99.83	95.87	95.5	85.5	95.5	81.5	62	124	-	-
Mar.-July	18.3	17.6	3.79	3.79	11.4	-	11.6	11.3	3.3	7.4	2.1	2.6	101.74	98.19	92.0	73.3	94.5	73.0	44	644	-	-
Season	18.0	17.3	3.72	3.72	11.4	-	12.4	13.7	0.7	2.2	1.3	1.5	100.28	96.22	98.4	93.3	99.0	90.0	3,904	5,004	-	-

MISSOURI

Aug.	17.2	-	3.77	-	11.5	-	10.6	-	6.0	-	0.9	-	96.25	-	87.5	-	82.5	-	2	-	-	-
Sept.	17.1	16.2	3.78	3.77	11.5	-	13.7	15.0	1.0	0.4	0.9	1.0	96.68	92.54	96.3	96.7	93.0	89.5	220	244	-	-
Oct.	17.3	17.1	3.76	3.72	11.6	-	12.6	14.0	0.4	0.6	0.9	1.1	97.91	95.42	98.6	97.8	97.0	93.5	1,224	1,308	-	-
Nov.	17.5	17.0	3.77	3.69	11.5	-	11.4	14.7	0.4	1.8	1.2	1.3	98.59	94.85	99.2	95.7	98.0	91.0	1,010	694	-	-
Dec.	17.1	17.0	3.74	3.66	11.5	-	11.9	14.9	0.4	2.7	1.6	1.6	97.07	94.58	98.7	92.8	96.1	88.0	214	344	-	-
Jan.	17.1	17.0	3.74	3.67	12.4	-	12.5	13.9	0.6	4.0	1.6	1.9	96.69	94.88	98.2	88.5	95.5	83.5	44	268	-	-
Feb.	18.0	17.3	3.88	3.77	10.6	-	12.1	12.6	1.7	4.4	3.0	2.3	98.27	96.52	94.5	87.8	93.5	84.5	28	94	-	-
Mar.-July	17.0	17.6	3.80	3.78	11.6	-	11.3	11.2	1.5	5.0	3.8	2.2	96.04	97.67	94.4	86.2	90.0	83.5	50	268	-	-
Season	17.4	17.0	3.77	3.71	11.6	-	12.2	14.0	0.5	1.8	1.1	1.4	97.95	95.16	98.5	94.7	97.0	90.0	2,792	3,220	-	-

ARKANSAS

Aug.	17.9	-	3.74	-	11.1	-	11.4	-	6.1	-	1.6	-	99.55	-	84.5	-	83.5	-	10	-	-	-
Sept.	17.2	16.5	3.72	3.96	11.7	-	13.4	13.6	0.7	0.4	0.8	0.9	96.86	94.76	97.6	98.1	95.0	93.5	330	1,174	-	-
Oct.	17.7	16.9	3.77	3.95	11.8	-	11.3	12.5	0.5	0.7	0.9	0.9	99.61	96.09	99.3	98.8	99.0	95.5	4,390	5,706	-	-
Nov.	17.7	16.5	3.79	3.85	11.4	-	10.5	14.5	0.5	2.2	1.0	1.3	99.38	93.82	99.6	94.6	99.5	89.0	3,748	2,364	-	-
Dec.	17.0	16.4	3.72	3.85	11.2	-	12.1	14.0	0.6	3.5	1.3	1.7	95.59	93.42	98.9	90.0	95.0	83.0	958	1,198	-	-
Jan.	16.8	16.3	3.68	3.85	11.3	-	13.0	13.9	1.0	4.8	1.6	1.9	94.61	93.23	97.8	84.8	92.5	78.0	328	404	-	-
Feb.	17.1	16.2	3.74	3.85	11.5	-	12.1	13.5	1.5	5.7	2.3	2.2	96.54	92.57	97.0	81.3	93.5	74.0	224	276	-	-
Mar.-July	17.2	16.6	3.76	3.90	11.3	-	11.5	12.0	2.3	8.2	3.0	2.4	96.75	94.49	94.1	68.7	91.0	67.0	124	930	-	-
Season	17.6	16.7	3.77	3.91	11.6	-	11.2	13.2	0.6	2.1	1.0	1.2	98.79	94.95	99.2	93.8	98.0	89.5	10,112	12,052	-	-

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1971 and 1972 (Continued)

LOUISIANA

Month	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1971	1972	1971	1972	No.	No.
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972
Aug.	17.7	-	4.22	-	10.5	-	9.6	-	3.5	-	0.4	-	101.50	-	93.7	-	93.5	-	2	-	-	-
Sept.	17.1	17.2	3.79	4.05	11.5	-	13.3	11.3	3.5	0.8	0.8	0.6	97.51	98.14	89.3	98.4	86.0	97.0	34	514	-	-
Oct.	17.7	17.2	3.83	3.94	11.2	-	12.0	12.1	2.2	1.3	0.5	0.6	99.27	97.31	95.6	98.4	95.0	96.0	1,352	2,260	-	-
Nov.	17.8	16.7	3.82	3.89	11.2	-	11.0	14.2	1.8	3.8	0.5	0.7	100.02	94.69	97.7	89.8	98.0	85.0	2,104	1,126	-	-
Dec.	16.7	16.6	3.74	3.90	11.2	-	12.6	13.8	1.9	5.8	0.9	1.0	94.98	94.41	96.6	82.2	92.0	77.0	528	426	-	-
Jan.	16.2	16.6	3.72	3.93	11.2	-	13.1	12.6	3.4	7.8	0.9	1.2	92.55	94.72	91.7	72.3	84.5	68.5	286	148	-	-
Feb.	16.7	16.7	3.75	3.97	11.4	-	11.8	11.9	4.8	9.5	1.1	1.5	95.45	95.80	86.9	63.4	83.0	63.5	110	104	-	-
Mar.-July	16.7	16.5	3.73	4.00	11.7	-	11.4	11.6	7.7	11.1	1.2	1.8	95.71	95.16	71.8	50.1	72.0	56.0	72	224	-	-
Season	17.5	17.0	3.80	3.94	11.2	-	11.7	12.7	2.2	3.1	0.6	0.8	98.53	96.32	95.8	91.1	94.5	88.5	4,488	4,802	-	-

OKLAHOMA

Oct.	16.2	17.7	4.07	4.33	11.5	-	9.6	8.4	3.8	0.5	1.3	1.4	94.38	101.83	91.0	99.4	87.0	101.5	4	230	-	-
Nov.	16.8	17.6	4.19	4.22	10.7	-	10.5	10.5	0.7	0.6	1.4	1.6	97.67	100.79	99.3	99.1	97.5	100.0	104	264	-	-
Dec.	16.7	17.7	4.07	4.21	10.2	-	11.9	10.5	0.8	0.6	2.4	1.8	95.62	101.14	98.0	98.9	94.5	100.0	274	588	-	-
Jan.	17.4	17.8	4.08	4.20	10.0	-	10.6	10.4	0.9	0.6	2.7	1.7	98.40	101.23	97.8	98.9	96.5	100.5	610	418	-	-
Feb.	17.5	18.0	4.08	4.19	10.1	-	9.8	10.2	1.0	0.7	3.1	2.0	98.82	101.92	97.7	98.8	97.0	101.0	276	302	-	-
Mar.-July	17.3	17.5	4.12	4.17	10.5	-	9.6	10.5	1.6	1.3	2.9	2.1	98.82	100.06	96.3	97.3	95.5	97.5	72	236	-	-
Season	17.2	17.7	4.09	4.21	10.1	-	10.6	10.2	0.9	0.7	2.7	1.8	97.87	101.18	97.9	98.8	96.0	100.0	1,340	2,038	-	-

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1971 and 1972 (Continued)

TEXAS

Month	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1971		1972		No.	
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972
Aug.	16.0	17.3	3.84	3.72	11.5	-	11.6	11.2	2.1	1.6	1.1	1.4	92.50	97.77	96.7	98.0	89.5	96.0	32	856		
Sept.	16.5	16.3	4.21	4.01	10.5	-	10.3	9.3	1.6	0.8	1.8	1.5	96.28	94.34	95.5	99.0	93.0	93.5	160	1,388		
Oct.	16.3	16.4	4.22	4.10	10.6	-	11.3	9.6	1.4	1.0	2.2	1.6	95.37	95.37	96.0	98.2	92.5	94.0	278	1,148		
Nov.	16.5	17.8	4.09	3.92	9.6	-	9.6	10.4	1.0	0.7	2.6	2.1	94.10	99.64	97.6	98.4	92.0	98.0	978	1,476		
Dec.	17.0	17.9	3.99	3.93	9.2	-	9.2	9.1	0.7	0.6	2.9	2.7	94.70	100.10	97.9	98.2	93.0	98.5	3,072	5,534		
Jan.	16.9	17.6	3.95	3.92	9.2	-	8.4	9.3	0.7	0.7	3.5	3.3	94.25	98.97	97.3	97.6	92.0	97.0	4,276	3,078		
Feb.	16.7	17.5	3.91	3.89	9.7	-	8.2	9.3	1.0	0.7	4.4	3.6	93.91	98.29	95.4	97.2	90.0	96.0	1,472	2,622		
Mar.-July	16.8	17.1	3.95	3.84	10.0	-	8.0	11.0	1.5	1.4	4.5	3.9	95.12	96.20	93.9	95.5	89.2	92.0	312	2,698		
Season	16.8	17.4	3.98	3.91	9.4	-	8.8	9.7	0.8	0.8	3.3	2.9	94.40	98.25	97.1	97.6	92.0	96.0	10,580	18,820		

NEW MEXICO

Oct.	18.8	20.0	3.95	3.80	11.6	-	9.9	10.2	0.5	0.5	0.8	0.5	104.94	108.28	99.7	100.0	105.0	108.5	58	60		
Nov.	18.7	19.5	3.99	3.88	11.0	-	8.6	9.3	0.5	0.5	1.3	1.1	103.76	105.97	99.5	99.6	103.5	106.0	108	114		
Dec.	17.6	19.1	3.92	3.93	9.6	-	8.8	8.6	0.5	0.5	3.0	2.3	98.03	104.80	98.1	98.7	96.0	104.0	76	102		
Jan.	17.2	18.8	3.97	3.92	9.1	-	8.0	8.4	0.6	0.7	4.4	2.7	95.51	103.30	96.5	98.3	92.0	101.5	66	38		
Feb.	17.3	17.9	3.87	3.86	10.2	-	7.4	8.6	0.5	0.7	6.2	3.9	96.41	99.68	94.7	97.1	91.5	97.0	34	28		
Mar.-July	19.2	18.0	4.02	3.84	9.2	-	7.2	9.9	1.0	1.3	5.8	5.1	100.75	99.59	94.6	94.5	96.0	95.5	6	38		
Season	18.1	19.1	3.95	3.88	10.3	-	8.6	9.2	0.5	0.6	2.7	2.1	100.37	104.65	98.1	98.6	98.5	103.5	348	380		

1/ In 1971, linters factor not used in determining the grade of cottonseed in Virginia, North Carolina, South Carolina, Georgia, Florida and Districts 5 through 9 in Alabama. See Table 5.

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1971 and 1972

NORTH CAROLINA 1/

Dist. No.	Cottonseed analysis														Average index		Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1971	1972	No.	1972
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972				
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1971	1972	1971	1972	No.	1972		
2	19.3	19.4	3.93	4.04	-	-	12.4	11.6	8.5	3.1	1.3	1.4	105.94	106.50	72.0	94.8	74.5	101.5	42	10
3	19.0	19.5	3.88	3.97	-	-	12.1	11.5	9.2	1.8	1.5	1.4	104.53	107.00	65.5	97.3	69.0	104.5	536	554
4	19.7	20.1	3.77	4.04	-	-	11.8	10.6	5.7	1.3	1.1	0.5	106.55	110.28	84.5	98.5	89.5	109.0	20	18
5	20.2	19.3	3.75	4.07	-	-	10.6	11.4	4.6	0.8	1.0	0.7	108.88	107.05	89.0	99.6	97.0	106.5	24	10
6	19.5	19.5	3.83	3.79	-	-	11.7	11.5	10.1	1.7	1.4	1.6	105.81	105.70	55.0	97.0	65.5	103.0	50	52
8	19.5	19.0	3.98	4.21	-	-	11.3	11.1	5.0	1.3	1.2	1.2	107.36	106.57	84.8	96.5	92.0	104.0	200	102
9	18.8	18.7	3.89	4.00	-	-	11.9	11.3	4.2	1.2	1.0	1.4	103.42	103.54	86.0	98.2	91.0	102.0	786	660
State	19.0	19.1	3.89	3.99	-	-	11.9	11.4	6.2	1.5	1.2	1.3	104.50	105.34	78.9	97.7	82.5	103.5	1,658	1,406

SOUTH CAROLINA 1/

1	19.6	19.3	3.99	4.18	-	-	11.4	11.3	4.9	1.0	1.1	1.0	107.66	107.26	85.1	98.8	91.5	106.0	152	100
2	20.0	19.2	4.02	4.10	-	-	10.6	11.2	6.7	1.6	1.4	0.9	109.07	106.32	75.3	97.1	85.0	103.5	50	56
3	19.1	18.7	3.88	4.14	-	-	11.9	11.3	4.4	1.2	1.4	1.3	104.53	104.52	86.7	97.6	90.5	102.5	748	702
4	19.3	18.6	3.92	4.24	-	-	11.4	11.1	5.1	1.2	1.2	1.1	105.73	105.05	84.4	98.0	90.0	103.0	158	138
5	19.2	18.8	3.88	4.14	-	-	11.6	11.2	5.0	1.6	1.4	1.4	105.28	105.28	82.9	96.5	88.5	102.0	938	1,070
8	19.0	18.8	3.94	4.24	-	-	11.8	11.1	6.5	1.7	1.4	1.1	104.55	105.61	76.3	97.0	82.0	103.0	122	134
State	19.2	18.8	3.90	4.16	-	-	11.7	11.2	4.9	1.4	1.3	1.3	105.26	105.16	83.9	97.1	89.0	102.5	2,168	2,200

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1971 and 1972 (Continued)

GEORGIA 1/

Dist. No.	Cottonseed analysis														Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1971	1972	1971	1972	1971	1972
	1971	1972	Pct.	Pct.	1971	1972	Pct.	Pct.	1971	1972	Pct.	Pct.	1971	1972	Pct.	Pct.	1971	1972	No.	No.	1971	1972
1	19.2	18.6	3.68	3.84	-	-	12.1	13.0	1.3	1.9	1.2	1.3	103.94	103.26	97.8	94.7	102.0	99.0	298	258		
2	19.4	18.7	3.96	4.19	-	-	11.7	12.2	4.8	1.8	1.1	1.0	107.10	104.91	86.1	96.2	92.5	101.5	78	46		
3	19.6	18.7	3.92	4.16	-	-	11.7	11.3	3.2	1.3	0.7	0.9	107.30	104.88	93.2	98.4	99.5	103.5	44	30		
4	19.3	18.5	3.94	4.21	-	-	11.6	10.9	4.1	1.4	0.8	0.7	105.90	104.33	89.1	97.5	94.5	102.0	344	254		
5	19.1	18.3	3.97	4.36	-	-	11.9	9.8	5.0	1.0	0.9	0.7	105.46	104.79	85.6	98.8	91.0	103.5	814	482		
6	19.3	18.7	3.93	4.37	-	-	11.7	10.2	6.9	0.7	1.0	0.8	105.78	106.19	74.2	99.4	81.5	106.0	348	260		
7	19.1	18.4	3.96	4.21	-	-	11.7	10.6	3.6	1.0	0.8	0.8	105.15	104.20	91.5	98.6	96.5	103.0	466	410		
8	19.1	18.5	3.89	4.23	-	-	11.6	9.9	4.1	1.0	0.9	0.8	104.90	104.29	88.8	98.6	94.0	103.5	1,068	908		
9	19.5	18.7	3.84	4.27	-	-	11.0	9.7	6.8	0.8	0.9	0.6	105.77	105.57	77.4	99.6	83.5	105.0	42	34		
State	19.2	18.5	3.91	4.23	-	-	11.7	10.5	4.3	1.1	0.9	0.8	105.26	104.49	87.6	98.2	93.0	103.0	3,502	2,682		

ALABAMA 1/

1	18.1	17.2	3.73	3.82	11.5	-	12.6	13.8	1.3	2.1	1.4	1.4	100.90	96.67	97.2	93.7	98.0	91.0	486	478		
2	18.3	17.5	3.73	3.85	11.4	-	12.4	13.3	0.9	2.6	1.3	1.6	101.62	97.83	97.8	92.1	99.5	90.5	1,952	2,126		
3	18.4	17.7	3.73	3.86	11.3	-	12.3	13.5	1.3	2.4	1.4	1.4	101.65	98.97	96.8	92.8	99.0	92.0	788	628		
4	18.6	17.2	3.73	4.04	11.3	-	12.4	12.2	2.2	2.0	1.1	1.1	102.33	97.99	95.2	94.6	97.5	93.0	234	344		
5	19.0	17.9	3.88	4.18	-	-	12.0	11.7	3.2	1.1	1.1	1.0	104.42	101.71	92.7	97.3	97.0	99.5	640	588		
6	18.4	17.4	3.91	4.07	-	-	11.9	12.3	1.4	1.5	1.1	0.9	102.13	98.79	97.7	96.4	100.0	95.5	208	234		
7	18.7	-	3.73	-	-	-	12.3	-	5.6	-	0.9	-	103.00	-	83.7	-	86.0	-	8	-		
8	18.7	17.9	3.91	4.12	-	-	12.2	11.4	3.2	0.7	1.1	1.0	103.09	101.40	93.1	98.7	96.0	100.5	246	232		
9	18.8	17.7	3.78	4.07	-	-	12.1	12.2	3.5	1.3	1.1	1.1	102.81	100.57	90.0	97.6	94.5	98.5	126	46		
State	18.5	17.5	3.77	3.93	11.4	-	12.3	12.9	1.6	2.1	1.3	1.4	102.10	98.62	96.3	93.8	98.5	93.0	4,688	4,676		

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1971 and 1972 (Continued)

MISSISSIPPI

Dist. No.	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1971	1972	1971	1972	No.	No.
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972						
1	17.3	17.0	3.90	3.94	11.8	-	11.0	12.6	0.6	1.5	1.0	1.2	98.74	96.36	99.4	96.4	98.5	93.0	3,818	4,632		
2	17.8	17.1	3.79	3.77	11.6	-	11.6	13.3	0.7	1.7	1.5	1.5	99.93	96.08	98.7	95.5	99.0	91.5	1,564	1,812		
3	18.3	17.4	3.65	3.70	11.5	-	12.5	13.8	1.0	2.1	1.7	1.5	100.82	96.67	97.9	93.7	99.0	91.0	998	946		
4	17.6	16.9	3.85	3.99	11.7	-	11.3	12.2	0.8	1.2	0.9	0.9	99.55	96.25	99.0	97.1	99.0	93.5	3,778	4,266		
5	18.3	17.2	3.68	3.97	11.4	-	11.8	12.6	1.1	1.3	1.0	0.9	101.21	97.47	98.5	97.1	100.0	95.0	1,140	1,256		
6	18.2	17.1	3.69	3.91	11.4	-	12.3	12.9	1.4	1.6	1.1	1.0	100.82	96.80	97.5	96.0	98.5	93.0	496	422		
7	18.4	17.4	3.74	3.91	11.4	-	11.4	12.0	1.7	1.7	1.0	0.7	101.59	97.82	97.0	96.5	98.5	95.0	290	356		
8	18.1	17.4	3.72	4.01	12.2	-	11.8	11.0	2.5	0.8	1.2	0.8	101.25	98.86	93.1	99.0	96.0	98.0	70	72		
9	18.5	17.5	3.73	4.01	11.5	-	12.3	11.6	2.0	0.7	1.1	0.9	102.64	98.75	96.1	98.9	98.5	98.5	54	30		
State	17.7	17.0	3.82	3.92	11.6	-	11.4	12.6	0.8	1.5	1.1	1.1	99.73	96.48	98.8	96.4	99.0	93.0	12,208	13,792		

TENNESSEE

1	18.0	17.2	3.71	3.74	11.4	-	12.3	13.7	0.6	1.6	1.3	1.4	100.00	95.97	98.4	95.6	98.5	92.0	1,430	1,792
2	18.0	17.3	3.72	3.70	11.4	-	12.4	13.7	0.7	2.4	1.3	1.6	100.33	96.26	98.3	92.1	99.0	89.0	2,270	3,032
3	18.3	17.7	3.74	3.67	11.3	-	12.0	13.3	0.6	3.2	1.2	1.8	101.58	97.70	99.0	89.0	100.5	88.5	96	84
4	18.4	17.5	3.75	3.84	10.9	-	11.8	13.3	0.6	2.5	1.0	1.4	101.21	98.23	99.0	93.0	100.0	91.5	98	88
5	19.7	18.7	3.71	3.55	10.7	-	10.8	13.1	0.9	3.0	1.5	1.3	105.50	100.88	99.4	94.5	106.0	94.0	10	8
State	18.0	17.3	3.72	3.72	11.4	-	12.4	13.7	0.7	2.2	1.3	1.5	100.28	96.22	98.4	93.3	99.0	90.0	3,904	5,004

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1971 and 1972 (Continued)

ARKANSAS

Dist. No.	Cottonseed analysis														Average index		Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	No.	No.
3	17.4	16.4	3.78	3.86	11.7	-	11.4	13.6	0.5	2.0	1.2	1.4	98.11	93.60	98.9	93.7	97.5	87.5	4,162	4,802
4	17.5	16.7	3.85	4.02	11.5	-	10.7	12.9	0.7	2.1	0.8	1.0	98.69	95.98	99.7	95.4	99.0	92.0	52	46
5	17.5	16.8	3.70	3.95	11.8	-	11.3	13.0	0.6	1.9	0.9	1.2	98.63	95.89	99.4	95.8	98.5	92.0	170	166
6	17.7	16.7	3.78	3.95	11.7	-	11.0	13.0	0.5	2.4	1.0	1.2	99.56	95.22	99.3	93.1	99.0	89.0	3,758	4,474
7	17.8	17.7	3.73	4.00	10.7	-	11.5	12.1	1.3	3.5	0.8	1.2	98.45	99.64	98.9	88.9	97.5	89.5	178	198
8	17.4	16.9	3.82	4.04	11.4	-	11.9	13.6	0.8	2.0	0.4	0.5	98.36	96.67	99.0	94.6	97.5	90.0	32	18
9	17.7	17.1	3.73	3.94	11.1	-	11.3	12.6	0.7	1.6	0.8	1.0	98.81	96.68	99.4	96.0	98.5	93.5	1,760	2,348
State	17.6	16.7	3.77	3.91	11.6	-	11.2	13.2	0.6	2.1	1.0	1.2	98.79	94.95	99.2	93.8	98.0	89.5	10,112	12,052

LOUISIANA

1	17.7	17.5	3.85	4.03	10.8	-	11.6	11.8	2.2	3.2	0.4	0.6	99.12	99.03	97.1	91.9	96.5	90.5	584	578
2	17.7	16.7	3.87	4.05	11.1	-	11.4	13.0	1.7	4.0	0.5	0.8	99.12	96.02	98.2	87.4	98.0	84.5	226	272
3	17.4	16.7	3.84	3.97	11.5	-	11.3	12.8	1.2	2.6	0.6	0.7	98.65	95.49	98.7	92.2	97.5	89.0	2,328	2,602
4	17.5	17.3	3.92	3.98	10.3	-	12.3	13.1	3.4	4.4	0.7	0.9	98.38	97.93	92.3	87.1	91.5	86.0	176	174
5	17.5	17.3	3.69	3.79	11.2	-	12.4	12.6	4.0	3.7	0.6	0.8	97.86	96.52	89.6	89.8	87.5	87.5	1,146	1,136
6	-	18.0	-	4.07	-	-	-	10.6	-	9.0	-	1.1	-	97.50	-	79.7	-	78.0	-	4
7	18.1	17.9	3.62	3.85	10.8	-	13.8	12.7	4.6	3.2	0.7	0.8	99.46	99.64	85.7	91.6	84.5	91.5	24	28
8	18.0	17.7	3.62	4.07	10.0	-	12.1	12.6	1.2	2.8	0.3	0.5	98.38	100.63	99.7	93.4	98.5	94.5	4	8
State	17.5	17.0	3.80	3.94	11.2	-	11.7	12.7	2.2	3.1	0.6	0.8	98.53	96.32	95.8	91.1	94.5	88.5	4,488	4,802



Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1971 and 1972 (Continued)

OKLAHOMA

Dist. No.	Cottonseed analysis														Average index				Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1971		1972		1971		1972	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1971	1972	1971	1972	1971	1972	No.	No.	1971	1972	No.	No.
3	17.8	17.9	4.07	4.00	9.7	-	11.1	11.4	1.3	1.0	4.8	3.8	99.05	100.13	94.7	96.5	94.5	97.0	20	12	332	562	20	12
4	16.9	18.0	4.10	4.19	9.8	-	10.8	10.4	0.8	0.6	3.2	2.1	96.03	102.19	97.4	98.7	94.0	101.0	332	562	122	126	332	562
5	17.0	17.5	4.17	4.27	9.9	-	11.0	10.5	0.9	0.7	3.2	2.1	97.38	100.60	97.4	98.6	95.0	99.5	122	126	122	126	122	126
6	17.4	18.1	3.95	4.14	10.5	-	11.5	11.7	1.4	1.5	2.2	1.2	97.95	102.41	98.0	97.7	96.5	100.0	30	38	30	38	30	38
7	17.4	17.6	4.08	4.23	10.3	-	10.4	10.1	0.8	0.6	2.3	1.7	98.65	100.90	98.4	98.9	97.5	100.0	770	1,204	770	1,204	770	1,204
8	17.0	17.3	4.06	4.18	10.9	-	10.7	10.0	2.1	1.3	2.5	1.5	97.89	99.13	95.9	98.2	94.0	97.5	54	80	54	80	54	80
9	18.4	17.6	3.95	4.01	10.1	-	10.7	10.7	3.5	1.4	1.8	0.8	101.63	99.84	91.8	98.5	93.5	98.5	12	16	12	16	12	16
State	17.2	17.7	4.09	4.21	10.1	-	10.6	10.2	0.9	0.7	2.7	1.8	97.87	101.18	97.9	98.8	96.0	100.0	1,340	2,038	1,340	2,038	1,340	2,038

TEXAS

1	16.7	17.6	3.97	3.85	9.0	-	8.5	9.6	0.7	0.7	3.6	3.4	92.99	98.17	97.3	97.3	90.5	96.0	7,176	11,220	7,176	11,220	7,176	11,220
2	17.5	17.9	3.95	4.05	10.1	-	8.9	9.6	0.8	0.8	2.9	2.5	97.93	101.01	97.8	98.2	96.0	99.5	2,454	3,952	2,454	3,952	2,454	3,952
3	16.8	17.6	3.96	4.20	10.7	-	10.2	9.9	2.3	1.0	2.7	1.7	96.54	100.04	92.5	99.0	90.0	99.5	62	84	62	84	62	84
4	16.5	16.0	4.29	4.10	10.3	-	10.5	9.0	2.3	0.8	2.5	1.7	96.35	93.83	93.7	98.7	91.0	93.0	546	1,914	546	1,914	546	1,914
5	16.6	16.9	4.07	4.04	10.7	-	12.6	11.3	2.6	1.6	1.2	1.2	95.60	96.87	93.1	97.4	90.0	94.5	106	298	106	298	106	298
6	18.1	18.1	4.05	3.94	11.9	-	9.2	9.7	0.6	1.0	0.8	1.9	103.58	101.45	99.6	98.9	103.5	101.0	26	30	26	30	26	30
7	16.7	16.9	3.90	4.13	11.2	-	9.6	9.0	1.1	0.8	2.3	1.7	95.34	97.62	98.7	99.0	95.0	96.5	122	200	122	200	122	200
8	15.6	17.1	3.98	3.83	11.6	-	11.2	10.6	2.6	1.3	1.0	1.6	92.73	96.90	95.5	98.4	88.5	96.0	26	228	26	228	26	228
9	15.7	18.1	3.70	3.48	11.5	-	14.5	12.9	4.3	1.8	1.7	0.8	90.09	98.14	80.9	94.0	77.5	91.0	56	182	56	182	56	182
10	16.7	17.1	4.07	3.69	12.5	-	9.6	11.3	2.4	1.8	1.4	1.4	98.25	96.81	97.4	97.8	94.0	95.0	6	712	6	712	6	712
State	16.8	17.4	3.98	3.91	9.4	-	8.8	9.7	0.8	0.8	3.3	2.9	94.40	98.25	97.1	97.6	92.0	96.0	10,560	18,820	10,560	18,820	10,560	18,820

NEW MEXICO

3	17.2	18.3	3.97	3.84	7.2	-	7.9	8.9	0.5	0.8	4.3	4.1	92.99	101.08	96.7	96.5	90.0	98.0	46	60	46	60	46	60
7	21.2	-	4.07	-	6.6	-	8.6	-	1.1	-	6.3	-	96.25	-	93.7	-	91.0	-	2	-	2	-	2	-
9	18.2	19.3	3.95	3.69	10.8	-	8.7	9.2	0.5	0.6	2.5	1.7	101.53	105.32	98.3	99.0	100.0	104.5	300	320	300	320	300	320
State	18.1	19.1	3.95	3.88	10.3	-	8.6	9.2	0.5	0.6	2.7	2.1	100.37	104.65	98.1	98.6	98.5	103.5	348	380	348	380	348	380

In 1971, linters factor not used in determining the grade of cottonseed in Virginia, North Carolina, South Carolina, Georgia, Florida and Districts 5 through 9 in Alabama. See Table 5.

Table 6. Percentage distribution of quantity index by specified frequencies, by states and United States, 1971 and 1972

State	Quantity Index <sup>1/</sup>														Total							
	Under 65		65-69		70-74		75-79		80-84		85-89		90-94		95-99		100-104		105 and over			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
N. C.	-	-	-	-	-	-	-	-	-	0.1	-	1.3	0.4	9.9	5.8	44.4	36.7	44.3	57.1	100.0	100.0	
S. C.	-	-	-	-	-	-	-	-	-	-	0.1	0.6	0.5	4.5	4.3	43.3	39.7	51.6	55.4	100.0	100.0	
Ga.	-	0.1	-	-	0.1	0.1	-	-	-	0.1	0.1	0.2	1.0	5.4	7.8	39.9	45.2	54.3	45.8	100.0	100.0	
Fla.	-	-	-	-	-	-	-	-	-	-	-	2.1	4.3	10.7	15.2	65.9	65.3	21.3	15.2	100.0	100.0	
Ala.	-	-	-	-	-	0.2	-	0.1	0.3	1.9	2.3	13.2	22.4	47.5	56.1	31.8	18.9	5.3	100.0	100.0	100.0	
Miss.	*	-	-	0.1	-	0.1	-	0.1	0.2	1.2	2.0	5.7	8.9	24.4	35.0	47.2	48.0	20.1	5.9	1.2	100.0	100.0
Tenn.	-	-	-	-	0.1	-	-	-	0.1	0.2	0.5	3.1	3.6	29.1	39.2	54.9	51.1	11.8	5.4	0.9	100.0	100.0
Mo.	-	-	-	-	-	-	0.2	0.1	0.1	0.5	0.6	6.1	14.4	36.3	57.4	48.4	25.7	8.3	1.6	0.3	100.0	100.0
Ark.	-	0.1	*	0.1	0.1	0.3	0.2	0.1	1.1	1.3	9.3	11.9	37.9	44.6	39.0	38.0	11.2	3.6	1.2	100.0	100.0	
La.	-	-	-	-	0.1	0.1	0.1	0.1	0.4	0.6	3.3	5.0	12.8	27.1	43.1	49.4	36.7	17.1	3.6	0.7	100.0	100.0
Okla.	-	-	-	-	-	-	-	-	-	-	1.0	0.3	16.0	1.7	56.4	29.5	25.1	60.3	1.5	8.2	100.0	100.0
Tex.	*	0.1	*	0.3	-	1.0	0.2	3.6	0.6	12.9	4.0	30.9	16.6	37.5	39.8	13.1	33.3	0.6	5.5	100.0	100.0	
N. Mex.	-	-	-	-	-	-	-	1.1	-	2.3	1.1	13.8	1.6	25.2	10.5	35.0	35.3	22.6	51.5	100.0	100.0	
All other	-	-	-	-	-	-	-	-	-	-	-	2.6	4.3	2.6	17.3	35.9	34.7	58.9	43.7	100.0	100.0	
U. S.	*	*	*	0.1	*	0.3	0.1	0.6	0.7	3.4	4.7	12.2	22.0	34.7	40.2	37.5	24.8	11.0	7.5	100.0	100.0	

<sup>1/</sup> In 1971, linters factor not used in determining the grade of cottonseed in Virginia, North Carolina, South Carolina, Georgia, Florida and Districts 5 through 9 in Alabama. See Table 5.  
 \* Less than 0.05 percent.

Table 7. Percentage distribution of quality index by specified frequencies, by states and United States, 1971 and 1972

State	Quality Index														Prime quality 100		Total				
	Below grade		Below prime quality												Prime quality 100		Total				
	40.0-49.9		50.0-69.9			70.0-79.9			80.0-84.9			85.0-89.9			90.0-94.9			95.0-99.0			
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972			
Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.			
N. C.	2.7	0.1	2.2	0.1	19.8	1.0	21.3	1.1	8.3	1.1	9.4	2.4	11.8	3.1	17.1	59.9	7.4	31.2	100.0	100.0	
S. C.	2.6	0.3	2.5	0.2	12.7	1.9	10.9	1.3	9.2	1.2	12.5	2.5	9.4	3.6	28.2	53.0	12.0	36.0	100.0	100.0	
Ga.	1.9	0.2	2.2	-	6.7	0.7	8.5	0.6	6.7	1.2	11.5	1.9	16.7	2.7	35.2	31.5	10.6	61.2	100.0	100.0	
Fla.	-	2.2	2.1	-	-	6.4	2.2	12.8	-	12.8	-	12.8	-	10.6	2.2	44.7	36.9	10.6	56.5	100.0	100.0
Ala.	0.3	0.7	0.4	0.4	1.3	3.0	1.5	4.0	1.2	2.4	3.2	3.9	8.6	12.7	67.9	58.1	15.6	14.8	100.0	100.0	
Miss.	*	*	0.2	0.1	1.3	0.4	2.7	0.4	2.5	0.5	0.5	3.1	1.9	7.2	59.1	54.2	38.6	28.8	100.0	100.0	
Tenn.	0.1	0.7	0.1	0.4	0.1	2.3	0.2	4.0	0.1	3.7	0.4	5.6	2.5	12.8	75.8	65.9	20.7	4.6	100.0	100.0	
Mo.	-	-	-	-	0.1	0.1	0.4	2.0	0.1	3.0	0.4	9.7	2.1	21.7	71.0	61.7	25.9	1.8	100.0	100.0	
Ark.	-	0.6	-	0.3	0.1	2.8	0.1	3.9	0.1	4.1	0.3	5.9	0.9	11.0	50.3	51.7	48.2	19.7	100.0	100.0	
Ia.	0.1	1.4	*	1.1	1.4	4.9	2.7	5.2	3.6	5.5	5.4	9.8	11.6	12.0	35.7	31.8	39.5	28.3	100.0	100.0	
Okla.	-	-	-	-	-	0.2	0.1	0.1	0.4	0.1	0.9	0.5	5.5	2.4	84.9	67.5	8.2	29.2	100.0	100.0	
Tex.	0.1	*	0.2	*	0.2	0.1	0.3	0.3	0.5	0.4	1.0	0.9	9.0	6.4	85.1	83.5	3.6	8.4	100.0	100.0	
N. Mex.	-	-	-	-	-	-	-	0.5	-	-	-	-	11.5	5.8	55.1	53.2	33.4	40.5	100.0	100.0	
All other	5.1	-	-	-	25.8	-	12.8	4.3	5.1	4.3	-	4.3	2.6	4.3	30.7	69.7	17.9	13.1	100.0	100.0	
U. S.	0.4	0.3	0.4	0.2	1.8	1.6	2.1	2.3	1.6	2.3	2.5	3.8	6.0	8.9	59.5	61.0	25.7	19.6	100.0	100.0	

\* Less than 0.05 percent.

Table 8. Percentage distribution of grades by specified frequencies, by states and United States, 1971 and 1972

State	Grade $\frac{1}{2}$														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 - 109.9		110.0 and over					
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.				
N. C.	2.7	-	25.1	1.0	11.7	0.3	8.4	1.1	9.2	1.6	8.6	2.9	14.0	8.8	14.1	38.0	5.8	42.9	0.4	3.4	100.0	100.0
S. C.	2.5	0.3	16.3	2.5	4.5	0.5	6.8	0.8	8.9	1.4	11.0	2.3	13.6	8.3	21.9	38.7	14.3	42.7	0.2	2.5	100.0	100.0
Ga.	1.9	0.1	9.7	1.0	4.2	0.2	4.2	0.5	7.7	1.6	10.8	4.4	18.0	9.7	25.9	39.1	17.0	41.7	0.6	1.7	100.0	100.0
Fia.	-	2.2	4.3	2.2	2.1	-	2.1	-	21.2	-	10.6	4.3	12.8	15.2	42.6	60.9	4.3	15.2	-	-	100.0	100.0
Ala.	0.2	0.7	2.2	5.8	0.8	2.2	1.4	4.7	3.3	10.7	10.1	20.2	29.5	32.1	40.5	19.7	11.6	3.9	0.4	-	100.0	100.0
Miss.	*	0.4	4.1	0.3	3.2	1.1	5.4	3.1	10.4	11.6	23.0	35.0	35.3	42.8	17.3	5.6	1.3	0.1	-	100.0	100.0	100.0
Tenn.	0.1	0.7	0.4	5.3	0.1	3.6	0.3	6.3	1.9	15.5	13.0	35.8	37.2	28.2	41.9	4.2	5.1	0.4	-	100.0	100.0	100.0
Mo.	-	-	0.6	2.0	0.3	3.4	0.6	10.1	3.2	25.5	22.2	35.2	49.6	21.1	22.1	2.6	1.2	0.1	0.2	-	100.0	100.0
Ark.	-	0.7	0.5	7.6	0.2	4.7	0.6	8.8	2.7	16.0	15.1	27.9	40.9	24.2	36.2	8.9	3.7	1.2	0.1	*	100.0	100.0
Ia.	0.1	1.8	3.5	11.0	3.1	5.5	4.9	8.2	7.8	11.4	17.6	19.7	33.4	29.2	26.7	12.2	2.9	1.0	-	-	100.0	100.0
Okla.	-	-	0.1	0.3	0.3	0.1	0.7	0.1	4.5	0.8	27.4	5.5	50.3	34.1	16.0	51.9	0.7	7.0	-	0.2	100.0	100.0
Tex.	0.2	0.1	1.6	0.7	2.8	0.6	7.2	2.2	20.0	7.2	31.4	23.5	28.4	39.9	7.9	22.6	0.5	3.1	*	0.1	100.0	100.0
N. Mex.	-	-	-	-	1.1	0.5	1.1	-	11.5	2.1	15.5	4.7	22.9	16.9	23.5	26.3	23.8	42.1	0.6	7.4	100.0	100.0
All other	5.1	-	25.6	-	7.7	-	5.1	4.3	5.1	13.0	2.6	8.6	10.2	8.7	23.2	26.2	15.4	21.7	-	17.5	100.0	100.0
U. S.	0.4	0.4	2.9	4.0	1.7	2.6	3.0	5.0	7.2	10.5	17.0	22.7	32.8	30.2	29.5	18.5	5.4	5.6	0.1	0.3	100.0	100.0

$\frac{1}{2}$  In 1971, linters factor not used in determining the grade of cottonseed in Virginia, North Carolina, South Carolina, Georgia, Florida and Districts 5 through 9 in Alabama. See Table 5.

\* Less than 0.05 percent.

Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1971 and 1972

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			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
N. C.	-	-	0.4	-	0.1	-	1.2	0.7	2.1	2.0	6.5	5.4	14.2	12.8	22.2	19.9	39.6	45.9	11.8	13.2	1.9	0.1	100.0	100.0
S. C.	-	-	-	0.3	0.2	0.2	0.5	0.5	0.6	2.4	3.3	6.3	11.9	16.4	20.4	31.8	47.8	39.1	13.5	3.0	1.8	-	100.0	100.0
Ga.	0.1	0.1	-	0.4	0.1	0.4	0.2	1.7	0.8	4.5	3.8	11.0	9.7	25.7	20.4	30.4	52.4	24.6	12.0	1.1	0.5	0.1	100.0	100.0
Fla.	-	-	-	2.2	-	-	2.1	2.2	4.3	8.7	4.3	21.7	10.6	34.8	27.7	26.1	48.9	4.3	2.1	-	-	-	100.0	100.0
Ala.	*	0.6	0.6	3.0	0.7	6.3	2.2	12.1	6.8	23.2	13.6	22.9	22.0	18.6	27.3	9.3	23.8	3.9	2.9	0.1	0.1	-	100.0	100.0
Miss.	1.7	3.7	5.6	10.3	5.1	11.8	7.5	17.6	14.7	20.6	20.5	18.8	21.7	10.9	14.5	4.7	8.4	1.6	0.3	*	-	-	100.0	100.0
Tenn.	0.2	0.6	0.8	4.2	0.8	8.5	3.7	19.1	13.4	26.2	23.2	22.6	29.3	12.4	19.5	4.6	8.8	1.8	0.3	*	-	-	100.0	100.0
Mo.	0.4	1.4	2.9	9.9	7.0	12.4	16.6	19.3	26.8	25.1	25.7	18.9	14.3	9.4	4.3	2.7	1.6	0.8	0.3	0.1	0.1	-	100.0	100.0
Ark.	0.9	3.8	2.9	16.7	5.5	19.3	13.8	22.2	19.3	17.7	23.4	11.2	18.9	5.8	10.2	2.4	4.8	0.8	0.3	0.1	*	-	100.0	100.0
Ia.	2.3	2.5	5.5	12.3	5.9	13.4	12.4	19.2	16.9	20.2	21.7	17.1	18.4	9.5	10.7	4.2	6.0	1.6	0.2	*	-	-	100.0	100.0
Okla.	0.4	-	5.7	0.6	11.0	2.6	17.0	7.2	27.9	20.7	20.0	33.3	11.9	22.9	4.2	10.1	1.9	2.3	-	0.3	-	-	100.0	100.0
Tex.	6.3	2.2	12.9	7.6	14.6	7.5	16.4	11.2	19.5	16.5	16.6	20.4	9.2	18.2	3.2	10.2	1.3	5.7	*	0.5	*	*	100.0	100.0
N. Mex.	1.7	-	1.1	1.1	2.9	0.5	6.9	2.1	13.2	1.6	19.1	7.9	17.2	11.1	18.4	12.6	17.8	43.6	1.1	17.4	0.6	2.1	100.0	100.0
All other	-	-	-	-	-	-	2.6	-	2.6	8.7	2.6	8.7	10.3	8.7	17.9	8.7	58.9	47.9	5.1	13.0	-	4.3	100.0	100.0
U. S.	1.9	2.3	4.9	8.6	5.9	10.1	9.7	14.7	14.9	18.1	18.0	17.8	17.3	13.6	12.9	8.3	12.3	5.9	2.0	0.6	0.2	*	100.0	100.0

\* Less than 0.05 percent.

Table 10. Percentage distribution of ammonia by specified frequencies, by states and United States, 1971 and 1972

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.		
N. C.	-	-	-	0.1	-	-	0.4	-	3.4	0.1	11.0	3.4	24.1	14.2	32.2	33.3	20.5	30.7	8.4	18.2	100.0	100.0
S. C.	-	-	-	-	-	-	0.1	-	1.5	0.1	10.4	0.3	27.3	2.5	31.5	12.8	21.9	31.9	7.3	52.4	100.0	100.0
Ga.	0.1	-	0.1	-	-	-	0.2	0.1	2.2	0.2	9.4	2.6	21.6	4.4	34.2	6.9	24.3	17.4	7.9	68.4	100.0	100.0
Fla.	-	-	-	-	-	-	-	-	-	-	17.0	-	61.7	2.2	21.3	17.4	-	34.7	-	45.7	100.0	100.0
Ala.	-	-	*	-	0.4	0.1	1.2	0.3	6.3	2.5	25.6	11.9	36.0	22.9	21.4	24.2	7.1	19.7	2.0	18.4	100.0	100.0
Miss.	-	*	-	-	0.1	0.1	0.7	0.2	5.4	2.8	17.5	9.9	31.3	19.5	30.2	29.5	12.6	27.3	2.2	10.7	100.0	100.0
Tenn.	-	-	-	0.1	0.2	0.3	1.0	1.4	9.0	12.2	33.4	32.2	38.2	32.6	15.6	16.0	2.5	4.1	0.1	1.1	100.0	100.0
Mo.	-	-	0.1	0.2	-	0.1	0.4	1.3	7.2	13.4	24.4	30.9	38.2	35.0	22.9	14.6	6.0	4.0	0.8	0.5	100.0	100.0
Ark.	-	-	-	*	-	-	0.5	0.2	6.1	1.6	24.1	9.1	38.2	23.7	24.4	32.2	6.1	24.3	0.6	8.9	100.0	100.0
La.	0.1	-	*	-	0.1	0.1	1.3	0.6	7.4	2.0	19.3	8.5	28.4	19.0	28.2	28.9	12.5	27.2	2.7	13.7	100.0	100.0
Okla.	-	-	-	-	-	-	-	0.1	-	-	0.4	0.1	3.1	0.8	20.7	4.0	43.6	23.7	32.2	71.3	100.0	100.0
Tex.	*	-	0.1	-	0.1	0.2	0.1	1.1	0.9	2.6	4.8	9.7	15.8	22.7	32.2	28.6	30.8	21.2	15.3	13.8	100.0	100.0
N. Mex.	-	-	-	-	-	-	0.6	-	0.6	2.1	5.2	10.0	16.1	23.7	35.5	45.3	34.5	15.8	7.5	3.1	100.0	100.0
All other	-	-	-	-	-	-	-	-	-	26.2	17.9	17.4	33.4	17.4	20.5	13.0	20.5	13.0	7.7	13.0	100.0	100.0
U. S.	*	*	*	*	0.1	0.1	0.6	0.6	4.7	3.3	17.1	11.3	29.1	21.1	27.5	25.8	15.4	21.7	5.5	16.1	100.0	100.0

\* Less than 0.05 percent.

Table 11. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1971

State	Moisture														Total	
	Pct.	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	Pct.	0.0	5.1	7.1	9.1	10.1	11.1	12.1	14.1	16.1		18.1
N. C.	58.2	41.7	0.1	-	-	3.5	13.0	17.5	24.2	30.4	8.9	1.8	0.6	0.1	100.0	
S. C.	61.5	38.5	-	-	-	4.5	14.3	17.6	25.1	28.9	8.4	0.9	0.3	-	100.0	
Ga.	63.2	36.8	-	-	-	2.8	13.1	23.4	23.9	28.1	6.5	2.0	0.2	-	100.0	
Fla.	51.0	49.0	-	-	-	2.1	-	8.5	40.4	42.6	4.3	2.1	-	-	100.0	
Ala.	48.1	51.7	0.2	-	-	0.8	9.0	17.9	20.4	35.5	13.5	2.2	0.5	0.2	100.0	
Miss.	65.9	34.1	*	*	*	4.0	19.5	20.1	22.3	27.3	5.9	0.8	0.1	*	100.0	
Tenn.	46.9	53.0	0.1	-	-	0.3	9.3	18.2	19.1	35.4	14.5	2.6	0.5	0.1	100.0	
Mo.	51.3	48.7	-	-	0.1	1.4	11.7	20.3	17.8	29.8	15.9	2.9	0.1	-	100.0	
Ark.	70.0	30.0	*	*	*	8.0	22.7	19.7	19.6	23.5	5.9	0.6	*	*	100.0	
Ia.	61.7	38.3	-	*	*	4.9	13.1	20.8	22.9	29.6	7.3	1.3	0.1	-	100.0	
Okla.	79.1	20.9	-	-	0.1	14.4	28.8	21.0	14.8	19.0	1.9	-	-	-	100.0	
Tex.	96.9	3.1	*	*	*	5.3	57.6	22.5	8.5	3.0	2.1	0.7	0.2	0.1	*	100.0
N. Mex.	98.8	1.2	-	-	-	9.2	57.4	23.6	6.9	1.7	0.6	-	-	-	-	100.0
All other	66.6	33.4	-	-	-	20.5	2.6	17.9	25.6	23.1	10.3	-	-	-	-	100.0
U. S.	68.5	31.5	*	*	*	1.0	14.4	17.7	17.6	17.8	23.4	6.8	1.1	0.2	*	100.0

\* Less than 0.05 percent.

Table 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1972

State	Moisture													Total		
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	Pct.	0.0	5.1	7.1	9.1	10.1	11.1	12.1	14.1	16.1		18.1	20.1 and over
N. C.	75.6	24.4	-	-	-	1.0	7.1	33.3	34.2	22.6	1.7	0.1	-	-	-	100.0
S. C.	80.4	19.5	0.1	-	-	1.6	12.5	28.5	37.8	18.6	0.8	0.1	-	-	0.1	100.0
Ga.	77.4	22.6	-	-	0.4	28.5	22.7	14.3	11.5	16.2	5.4	0.7	0.3	-	-	100.0
Fla.	65.2	34.8	-	-	-	8.7	15.2	21.7	19.6	21.7	13.1	-	-	-	-	100.0
Ala.	32.7	67.1	0.2	*	-	1.6	5.6	11.5	14.0	39.6	22.8	4.1	0.6	0.2	0.2	100.0
Miss.	40.4	59.3	0.3	-	-	1.5	6.3	15.8	16.8	37.6	17.9	3.3	0.5	0.3	0.3	100.0
Tenn.	17.0	82.6	0.4	-	-	0.1	2.6	4.8	9.5	41.8	34.2	5.8	0.8	0.4	0.4	100.0
Mo.	13.9	85.4	0.7	-	0.1	-	1.1	4.1	8.6	39.3	33.7	10.1	2.3	0.7	0.7	100.0
Ark.	30.2	69.2	0.6	*	-	0.3	2.6	10.2	17.1	40.6	22.6	4.9	1.1	0.6	0.6	100.0
La.	41.7	57.6	0.7	*	*	0.9	4.8	13.2	22.8	37.6	15.9	3.3	0.8	0.7	0.7	100.0
Okla.	90.6	9.3	0.1	-	0.2	21.2	27.7	26.8	14.7	7.2	1.3	0.4	0.4	0.1	0.1	100.0
Tex.	90.6	9.2	0.2	*	0.6	43.1	26.7	13.3	6.9	6.6	1.8	0.6	0.2	0.2	0.2	100.0
N. Mex.	97.4	2.6	-	-	0.5	55.3	22.1	14.2	5.3	2.1	0.5	-	-	-	-	100.0
All other	52.2	47.8	-	-	-	-	8.7	30.5	13.0	34.8	13.0	-	-	-	-	100.0
U. S.	53.6	45.9	0.3	*	0.2	14.0	11.9	13.4	14.3	27.8	14.5	3.0	0.6	0.3	0.3	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, 1971

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.
N. C.	17.4	74.8	7.8	0.4	8.4	5.5	3.1	9.1	16.9	11.9	17.1	13.5	6.3	7.8	100.0
S. C.	33.1	58.9	8.0	0.6	12.4	12.2	7.9	8.3	16.9	14.0	9.4	7.5	2.8	8.0	100.0
Ga.	28.0	66.1	5.9	0.1	8.4	9.7	9.8	19.0	22.9	11.1	7.5	3.5	2.1	5.9	100.0
Fla.	19.1	78.8	2.1	-	-	2.1	17.0	38.4	14.9	19.1	6.4	-	-	2.1	100.0
Ala.	75.5	23.6	0.9	21.8	29.8	16.0	7.9	11.7	7.8	2.0	1.0	0.8	0.3	0.9	100.0
Miss.	94.8	5.1	0.1	30.6	48.1	12.1	4.0	2.9	1.3	0.5	0.3	0.1	*	0.1	100.0
Tenn.	97.9	1.9	0.2	43.1	45.2	8.1	1.5	0.8	0.7	0.2	0.1	0.1	-	0.2	100.0
Mo.	98.5	1.5	-	74.8	21.8	1.2	0.7	0.7	0.4	0.1	0.2	0.1	-	-	100.0
Ark.	98.2	1.8	-	52.3	41.2	3.4	1.3	1.3	0.3	0.1	0.1	*	*	-	100.0
Ia.	59.8	39.8	0.4	6.0	26.7	16.2	10.9	17.2	14.1	5.2	2.1	1.0	0.2	0.4	100.0
Okla.	94.9	5.1	-	3.7	74.7	13.8	2.7	4.0	0.7	0.3	-	0.1	-	-	100.0
Tex.	96.0	3.8	0.2	17.4	65.2	11.2	2.2	1.9	1.1	0.5	0.1	0.1	0.1	0.2	100.0
N. Mex.	100.0	-	-	48.8	46.0	5.2	-	-	-	-	-	-	-	-	100.0
All other	48.6	41.1	10.3	17.9	23.0	5.1	2.6	2.6	-	7.7	7.7	7.7	15.4	10.3	100.0
U. S.	82.9	16.0	1.1	27.8	41.0	9.9	4.2	5.4	4.9	2.4	1.7	1.1	0.5	1.1	100.0

\* Less than 0.05 percent.

Table 14. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1972

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
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
N. C.	84.6	14.8	0.6	8.0	37.7	28.2	10.7	6.8	4.2	2.4	0.9	0.4	0.1	0.6
S. C.	82.9	16.6	0.5	23.0	42.4	11.7	5.8	6.5	5.5	1.5	1.3	1.1	0.7	0.5
Ga.	88.8	11.0	0.2	15.5	61.7	7.9	3.7	5.0	3.0	1.7	0.6	0.5	0.2	0.2
Fla.	91.3	6.5	2.2	21.8	58.7	4.3	6.5	4.3	-	-	2.2	-	-	2.2
Ala.	67.0	31.5	1.5	15.5	27.2	15.1	9.2	13.7	8.4	3.4	3.0	2.1	0.9	1.5
Miss.	80.0	19.7	0.3	29.7	33.9	10.6	5.8	7.8	5.3	3.4	1.9	0.9	0.4	0.3
Tenn.	66.3	32.3	1.4	13.8	26.8	15.2	10.5	14.4	7.6	5.2	3.1	1.3	0.7	1.4
Mo.	62.7	37.3	-	22.0	26.6	7.9	6.2	14.4	17.6	4.1	1.0	0.1	0.1	-
Ark.	68.4	30.2	1.4	19.0	30.2	12.7	6.5	9.9	10.3	5.1	2.7	1.3	0.9	1.4
La.	52.9	43.0	4.1	9.8	22.1	14.4	6.6	10.6	16.9	8.2	3.9	2.2	1.2	4.1
Okla.	97.4	2.6	-	23.9	65.9	6.0	1.6	1.3	0.9	0.3	0.1	-	-	-
Tex.	94.8	5.1	0.1	19.9	59.0	12.8	3.1	3.4	1.2	0.3	0.1	0.1	*	0.1
N. Mex.	96.8	3.2	-	35.3	56.2	4.8	0.5	3.2	-	-	-	-	-	-
All other	65.3	34.7	-	-	17.4	21.7	26.2	17.5	8.6	4.3	4.3	-	-	-
U. S.	78.7	20.5	0.8	20.3	40.3	12.4	5.7	7.9	6.5	3.1	1.6	0.9	0.5	0.8

\* Less than 0.05 percent.

Table 15. Percentage distribution of foreign matter in cottonseed samples by specified frequencies by states and United States, 1971

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
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
N. C.	54.2	45.6	-	19.5	34.7	33.5	8.6	2.1	1.0	0.4	0.1	0.1	-
S. C.	45.9	54.1	-	16.7	29.2	37.6	11.2	3.6	1.5	0.1	-	0.1	-
Ga.	69.1	30.9	-	18.9	50.2	26.8	1.8	0.2	0.1	-	-	-	-
Fla.	87.3	12.7	-	44.7	42.6	10.6	-	-	2.1	-	-	-	-
Ala.	45.4	54.6	-	13.7	31.7	42.0	10.5	1.5	0.6	*	-	-	-
Miss.	59.7	40.3	*	19.6	40.1	31.0	7.0	1.7	0.5	0.1	*	*	-
Tenn.	45.8	54.2	-	12.6	33.2	40.2	10.1	2.7	1.0	0.1	0.1	-	-
Mo.	60.0	39.6	0.4	14.4	45.6	32.4	5.4	1.2	0.3	0.2	0.1	-	0.4
Ark.	68.5	31.3	0.2	20.9	47.6	24.2	4.7	1.5	0.7	0.2	*	*	0.2
Ia.	89.9	10.1	-	58.7	31.2	8.6	1.1	0.2	0.2	-	-	-	-
Okla.	11.8	87.8	0.4	2.7	9.1	34.1	22.4	16.1	9.9	3.7	1.0	0.6	0.4
Tex.	4.6	94.2	1.2	1.1	3.5	22.2	26.8	20.4	15.0	6.2	2.5	1.1	1.2
N. Mex.	33.9	66.1	-	9.2	24.7	17.8	16.7	5.7	10.9	7.5	4.6	2.9	-
All other	51.2	48.8	-	12.8	38.4	35.9	7.7	2.6	2.6	-	-	-	-
U. S.	50.1	49.6	0.3	17.7	32.4	28.3	10.4	5.3	3.5	1.4	0.5	0.2	0.3

\* Less than 0.05 percent.

Table 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1972

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
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
N. C.	46.3	53.7	-	14.9	31.4	38.0	11.0	2.8	1.3	0.3	-	-	100.0
S. C.	49.4	50.6	-	17.1	32.3	34.7	11.7	2.6	1.3	0.1	0.2	-	100.0
Ga.	77.6	22.3	0.1	34.4	43.2	19.8	1.9	0.4	0.1	-	0.1	0.1	100.0
Fla.	80.4	19.6	-	47.8	32.6	15.2	2.2	2.2	-	-	-	-	100.0
Ala.	44.2	55.7	0.1	17.9	26.3	38.7	12.1	3.4	1.1	0.1	0.1	0.1	100.0
Miss.	60.1	39.8	0.1	22.8	37.3	29.9	7.5	1.6	0.7	0.1	*	0.1	100.0
Tenn.	38.2	61.7	0.1	11.3	26.9	40.2	14.7	4.8	1.4	0.4	0.1	0.1	100.0
Mo.	39.1	60.9	-	6.4	32.7	47.1	10.6	2.5	0.6	0.1	-	-	100.0
Ark.	57.2	42.7	0.1	17.1	40.1	30.4	8.2	2.5	0.9	0.1	0.1	0.1	100.0
La.	86.6	13.4	-	37.1	49.5	11.1	1.3	0.7	0.2	0.1	-	-	100.0
Okla.	32.7	67.2	0.1	9.3	23.4	36.3	19.0	6.7	3.2	1.7	0.3	0.1	100.0
Tex.	11.3	88.3	0.4	2.4	8.9	26.3	25.2	17.6	13.1	4.3	1.4	0.4	100.0
N. Mex.	41.5	58.0	0.5	17.8	23.7	21.0	15.9	9.5	4.2	4.2	2.1	1.1	100.0
All other	26.0	74.0	-	8.7	17.3	61.0	13.0	-	-	-	-	-	100.0
U. S.	44.2	55.6	0.2	15.3	28.9	29.9	13.2	6.5	4.1	1.4	0.4	0.1	100.0

\* Less than 0.05 percent.

Table 17. Number of cottonseed samples by specified groups, by qualities, and number reduced in grade for specified causes, by states and United States, 1971 and 1972

State	Quality				Total samples graded		Reduced due to excess						
	Prime		Below prime and off quality		Below grade		Moisture		Free fatty acids		Foreign matter		
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	
N. C.	122	438	1,492	966	44	2	1,658	1,406	694	344	1,372	218	758
S. C.	260	790	1,852	1,404	56	6	2,168	2,200	834	430	1,448	376	1,174
Ga.	372	1,640	3,064	1,036	66	6	3,502	2,662	1,290	608	2,520	304	1,064
Fla.	10	52	84	38	-	2	94	92	46	32	76	8	12
Ala.	730	692	3,946	3,950	12	34	4,688	4,676	2,432	3,150	1,156	1,542	2,560
Miss.	4,692	3,984	7,514	9,806	2	2	12,208	13,792	4,156	8,234	636	2,734	4,926
Tenn.	808	228	3,094	4,740	2	36	3,904	5,004	2,070	4,150	78	1,686	2,118
Mo.	722	58	2,070	3,162	-	-	2,792	3,220	1,358	2,774	46	1,200	1,116
Ark.	4,884	2,384	5,228	9,590	-	78	10,112	12,052	3,028	8,418	190	3,810	3,198
La.	1,764	1,358	2,718	3,378	6	66	4,488	4,802	1,722	2,802	1,808	2,268	458
Okla.	110	596	1,230	1,442	-	-	1,340	2,038	260	190	70	52	1,182
Tex.	382	1,584	10,186	17,230	12	6	10,580	18,820	324	1,760	424	978	10,080
N. Mex.	116	154	232	226	-	-	348	380	4	10	-	12	230
All other	14	6	60	40	4	-	78	46	26	22	40	16	38
U. S.	14,966	13,964	42,770	57,008	204	238	57,960	71,210	18,264	32,924	9,864	15,204	28,934