

COTTONSEED QUALITY

CROP OF 1971



UNITED STATES DEPARTMENT OF AGRICULTURE

Agricultural Marketing Service Cotton Division

Memphis, Tennessee

August 1972

CONTENTS

<u>Table No.</u>	<u>Page No.</u>
Introduction	1-2
Map of crop-reporting districts of the cotton-producing states	4
1. Cottonseed quality factors, indexes and grades, United States, 1950-1971	1
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	3
3. Cottonseed: Quality factors, indexes and grades, by states and United States, 1970 and 1971	5
4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1970 and 1971	6-12
5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1970 and 1971	13-18
6. Percentage distribution of quantity index by specified frequencies, by states and United States, 1970 and 1971	19
7. Percentage distribution of quality index by specified frequencies, by states and United States, 1970 and 1971	20
8. Percentage distribution of grades by specified frequencies, by states and United States, 1970 and 1971	21
9. Percentage distribution of oil by specified frequencies, by states and United States, 1970 and 1971	22
10. Percentage distribution of ammonia by specified frequencies, by states and United States, 1970 and 1971	23
11. Percentage distribution of linters by specified frequencies, by states and United States, 1970 and 1971	24
12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1970	25
13. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1971	26
14. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1970	27
15. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1971	28
16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1970	29
17. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1971	30
18. Number of cottonseed samples by specified groups, by qualities, and number reduced in grade for specified causes, by states and United States, 1970 and 1971	31

Cottonseed Quality - 1971 Crop

The average grade of cottonseed in the 1971-72 season was down from that of a year earlier for the fifth successive year and was the lowest in 14 years. The oil content of the seed averaged the lowest on record and the ammonia content was the lowest since 1961-62. The average linters content was down somewhat from the preceding year. Moisture and foreign matter averaged higher than a year ago while free fatty acids averaged slightly lower.

Data from grade certificates covering 58,000 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.

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 1971-72 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 and Districts 5 through 9 in Alabama. Grades were determined in other districts and states on Official United States Standards.

Table 1. Cottonseed quality factors, indexes and grades,
1950-1971

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

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							
	FPA 3/		FM 4/		H ₂ O 5/	Total reduc-tions 6/	Qual-ity Index	Oil		NH ₃ 8/		Linters		Sum of pro-ducts	Adjust-ment fac-tors	Quan-tity Index		
	Total	Re-duction	Total	Re-duction	Total	Re-duction	Pct.	Units	Total	Pro-duct 7/		Total	Pro-duct 7/	Total	Pro-duct 7/	Pct.	Pct.	
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	12.0	+1.50	99.10	+5	104.10	
2	1.8	0.0	1.0	0.0	12.0	0.0	0.0	100.0	17.8	71.2	4.10	24.60	10.0	-0.50	95.30	+5	100.30	
3	1.2	0.0	0.8	0.0	9.6	0.0	0.0	100.0	16.2	64.8	3.97	23.82	9.5	-1.00	87.62	+5	92.62	
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	
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	
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	
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	
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	
BELOW PRIME QUALITY SEED																		
9	12.5	42.8	0.7	0.0	12.0	0.0	0.0	42.8	57.2	20.1	80.4	3.67	22.02	11.5	+1.00	103.42	+5	108.42
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	
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	
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	
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	
BELOW GRADE SEED																		
14	10.5	34.8	20.8	19.6	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	
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	

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 Pima seed; all others relate primarily to upland cottonseed.

3/ Free fatty acids in the oil in the seed.

4/ Foreign matter in the seed.

5/ Moisture in the seed.

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

7/ "Products" are percentages of oil, ammonia and linters in the seed multiplied by the factor used in computing the quantity index.

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

9/ Ammonia in the seed.
* Below grade 40. No numerical grade is indicated.

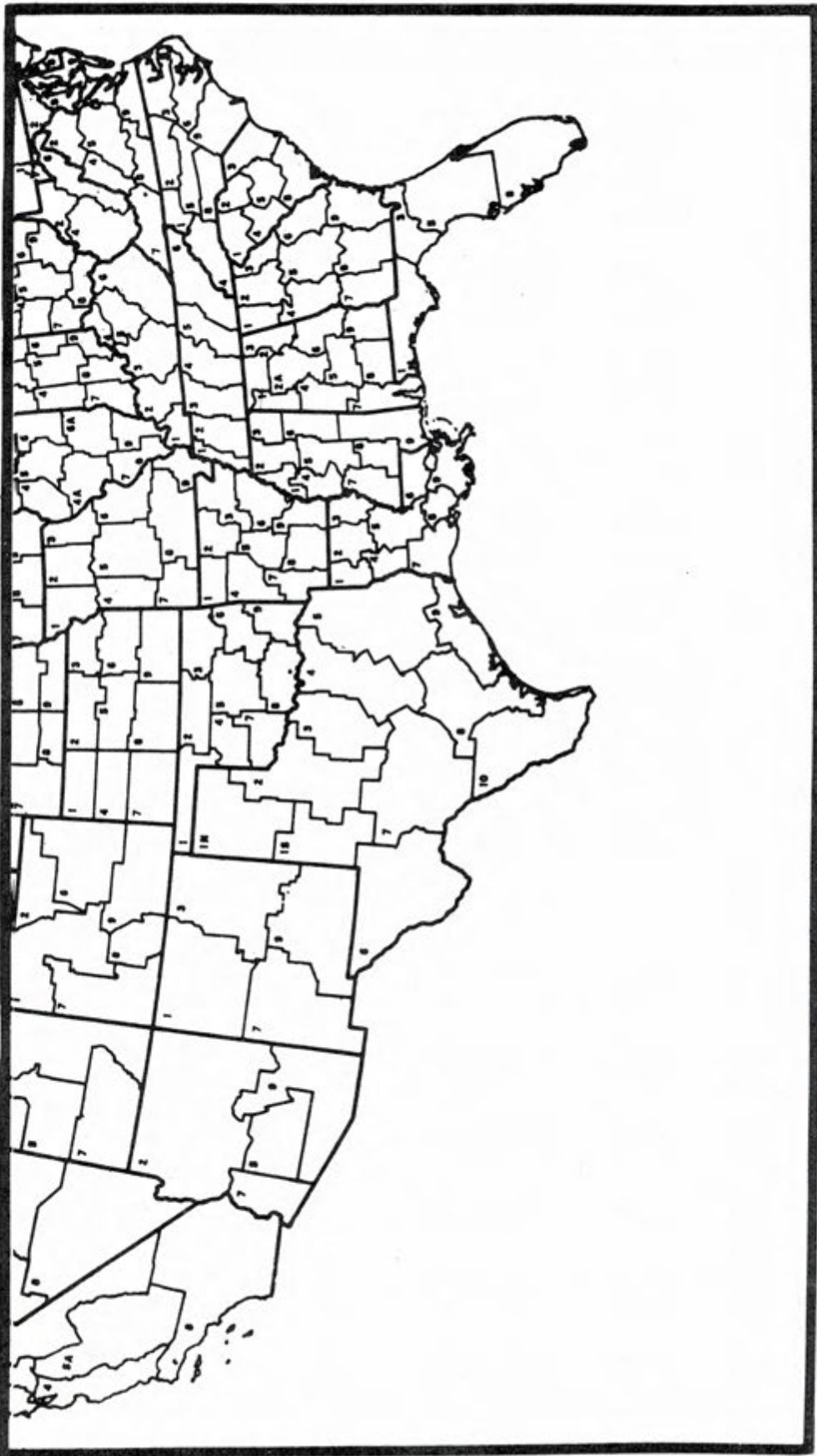


Figure 1. -- Crop-reporting districts of the U. S. Department of Agriculture for the cotton-producing States.

Table 3. Cottonseed: Quality factors, indexes and grades, by states and United States, 1970 and 1971 1/

State	Oil		Cottonseed analysis												Average index				Average grade	
			Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1970	1971		
			1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971				
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
Va.	19.2	19.3	3.67	3.88	-	-	11.1	11.7	1.2	9.9	0.9	1.3	104.17	105.96	98.8	61.5	103.0	67.0		
N.C.	19.0	19.0	3.87	3.89	-	-	11.1	11.9	1.4	6.2	0.9	1.2	104.09	104.50	98.0	78.9	102.5	82.5		
S.C.	18.8	19.2	4.21	3.90	-	-	11.4	11.7	3.0	4.9	0.9	1.3	105.36	105.26	93.5	83.9	98.5	89.0		
Ga.	19.1	19.2	4.03	3.91	-	-	11.3	11.7	2.8	4.3	0.8	0.9	105.68	105.26	94.7	87.6	100.5	93.0		
Fla.	18.8	18.8	3.80	3.78	-	-	12.3	12.3	6.0	3.7	1.0	0.7	103.02	102.97	81.0	91.6	83.5	95.0		
Ala.	18.2	18.5	3.88	3.77	11.6	11.4	11.9	12.3	2.4	1.6	1.2	1.3	101.87	102.10	94.5	96.3	96.5	98.5		
Miss.	17.5	17.7	3.90	3.82	11.4	11.6	11.7	11.4	1.7	0.8	1.1	1.1	99.12	99.73	97.6	98.8	97.0	99.0		
Tenn.	18.1	18.0	3.74	3.72	11.0	11.4	13.1	12.4	1.3	0.7	1.3	1.3	100.02	100.28	97.7	98.4	98.0	99.0		
Mo.	17.3	17.4	3.77	3.77	11.2	11.6	13.4	12.2	1.4	0.5	1.2	1.1	97.45	97.95	97.4	98.5	95.0	97.0		
Ark.	17.7	17.6	3.79	3.77	11.2	11.6	12.2	11.2	1.4	0.6	1.1	1.0	99.03	98.79	98.1	99.2	97.5	98.0		
Ia.	17.1	17.5	3.88	3.80	11.1	11.2	12.3	11.7	3.2	2.2	0.6	0.6	97.02	98.53	92.5	95.8	90.0	94.5		
Okla.	17.3	17.2	4.17	4.09	11.3	10.1	8.5	10.6	0.6	0.9	1.2	2.7	100.05	97.87	99.5	97.9	100.0	96.0		
Tex.	17.9	16.8	4.03	3.98	11.3	9.4	7.8	8.8	0.6	0.8	1.9	3.3	101.57	94.40	98.7	97.1	100.5	92.0		
N. Mex.	18.9	18.1	3.94	3.95	11.2	10.3	7.1	8.6	0.5	0.5	2.1	2.7	105.10	100.37	98.6	98.1	104.0	98.5		
Ariz.	18.3	18.9	4.06	4.05	12.3	12.0	6.7	8.2	0.8	0.7	2.2	2.1	104.28	106.31	98.3	98.8	103.0	105.0		
Calif.	17.0	-	4.09	-	11.6	-	8.7	-	0.4	-	1.1	-	97.63	-	99.3	-	97.0	-		
All other	17.8	18.5	3.62	3.73	11.4	11.3	13.4	12.6	1.0	0.7	1.2	0.8	98.43	101.93	98.3	99.0	97.0	101.5		
U. S.	17.8	17.7	3.92	3.84	11.3	11.0	10.8	11.1	1.6	1.5	1.3	1.5	100.52	99.29	97.1	96.2	98.0	95.5		

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, 1970 and 1971

VIRGINIA 1/

Month	Cottonseed analysis												Average index				Average grade		Samples		
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1970		1971		
	1970	1971	Pct.	Pct.	1970	1971	Pct.	Pct.	1970	1971	Pct.	Pct.	1970	1971	1970	1971	No.	No.	1970	1971	
Sept.	20.2	-	3.92	-	-	-	9.6	-	0.8	-	0.4	-	108.75	-	100.0	-	112.5	-	2	-	
Oct.	19.5	18.2	3.70	3.77	-	-	10.1	14.6	0.4	2.7	0.7	0.7	105.33	100.50	100.0	93.7	105.5	93.5	12	2	
Nov.	18.9	19.3	3.65	3.85	-	-	12.1	11.4	0.7	7.9	0.8	1.3	103.08	105.75	99.5	73.7	101.5	78.0	18	12	
Dec.	19.4	19.3	3.68	3.92	-	-	10.0	11.2	1.7	10.2	1.1	1.1	104.40	106.67	99.4	65.8	104.0	67.5	10	12	
Jan.	19.2	19.6	3.62	3.85	-	-	12.1	12.3	3.5	12.0	1.7	1.2	103.00	106.38	92.5	45.0	96.0	54.0	4	8	
Feb.	19.2	19.7	3.47	3.77	-	-	13.6	12.6	2.7	11.7	1.8	1.3	103.50	106.25	93.7	60.0	98.5	60.0	2	2	
Mar.-July	-	19.5	-	4.00	-	-	-	11.1	-	13.2	-	2.2	-	106.25	-	30.0	-	47.5	-	-	4
Season	19.2	19.3	3.67	3.88	-	-	11.1	11.7	1.2	9.9	0.9	1.3	104.17	105.96	98.8	61.5	103.0	67.0	48	40	

NORTH CAROLINA 1/

Sept.	19.0	18.3	3.98	3.92	-	-	10.8	12.2	0.8	1.6	0.6	0.5	105.35	101.92	99.6	96.9	105.0	98.5	136	38
Oct.	19.1	18.7	3.87	3.90	-	-	10.7	12.7	0.7	1.6	0.6	0.5	104.56	103.14	99.8	97.6	104.5	101.0	730	336
Nov.	18.7	19.1	3.80	3.90	-	-	12.2	11.8	1.1	5.7	1.0	1.1	102.75	104.73	98.8	83.3	102.0	87.0	520	510
Dec.	19.1	19.1	3.89	3.87	-	-	10.6	11.7	2.7	8.1	1.3	1.5	104.60	104.66	95.2	72.7	100.0	74.0	292	456
Jan.	18.9	19.0	3.97	3.88	-	-	10.6	11.8	4.3	9.8	1.3	1.7	104.44	104.32	88.4	60.7	92.0	67.0	70	162
Feb.	18.8	19.3	3.96	3.86	-	-	10.8	11.5	3.5	9.7	1.1	1.9	104.19	105.22	91.8	63.6	96.5	69.5	34	86
Mar.-July	18.8	20.0	4.05	3.99	-	-	10.0	9.9	3.3	10.5	1.4	2.3	104.52	109.34	91.5	49.1	96.0	63.0	24	70
Season	19.0	19.0	3.87	3.89	-	-	11.1	11.9	1.4	6.2	0.9	1.2	104.09	104.50	98.0	78.9	102.5	82.5	1,806	1,658

SOUTH CAROLINA 1/

Sept.	18.9	18.9	4.24	3.78	-	-	11.4	12.8	1.7	1.2	0.7	0.7	106.24	103.34	98.5	98.5	105.0	102.0	270	122
Oct.	18.9	19.1	4.17	3.83	-	-	11.5	12.4	2.1	1.4	0.6	0.8	105.72	104.36	97.0	98.5	102.5	103.0	658	668
Nov.	18.4	19.3	4.17	3.91	-	-	12.5	11.8	3.5	5.2	1.1	1.5	103.61	105.62	91.6	84.8	95.0	89.0	366	596
Dec.	18.6	19.1	4.25	3.95	-	-	10.7	11.3	4.9	7.5	1.3	1.8	105.04	105.32	86.7	75.5	91.0	79.0	212	312
Jan.	18.9	19.1	4.28	3.93	-	-	10.3	11.3	5.0	9.3	1.1	1.9	106.30	105.08	86.2	62.1	91.5	69.0	150	156
Feb.	18.8	19.4	4.33	3.97	-	-	10.3	10.7	5.2	8.6	1.2	1.9	106.41	106.50	86.7	66.5	92.5	74.5	58	172
Mar.-July	18.8	19.8	4.34	4.02	-	-	9.9	9.5	3.8	9.0	1.2	1.7	106.27	108.26	90.5	63.0	97.0	72.5	32	142
Season	18.8	19.2	4.21	3.90	-	-	11.4	11.7	3.0	4.9	0.9	1.3	105.36	105.26	93.5	83.9	98.5	89.0	1,746	2,168

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1970 and 1971 (Continued)

GEORGIA 1/

Month	Cottonseed analysis														Average index			Average grade			Samples									
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1970		1971		1970		1971		No.		1970		1971	
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	No.	No.	1970	1971		
Aug.	18.7	19.0	4.22	3.92	-	-	10.2	13.1	5.1	4.7	1.3	0.9	105.67	105.83	66.5	85.1	82.0	92.0	82.0	92.0	6	6	6	6	6	6	6	6		
Sept.	19.2	19.2	3.99	3.83	-	-	11.7	12.0	3.0	3.0	0.7	1.1	105.82	104.55	94.1	94.1	100.0	98.5	100.0	98.5	578	134	578	134	578	134	578	134		
Oct.	19.3	19.0	4.05	3.88	-	-	10.9	12.0	2.3	1.9	0.7	0.9	106.67	104.45	96.8	97.4	103.5	102.0	103.5	102.0	1,102	942	1,102	942	1,102	942	1,102	942		
Nov.	18.6	19.3	3.97	3.93	-	-	12.5	11.4	2.9	3.5	0.8	0.9	103.56	105.89	93.6	92.1	97.0	97.5	97.0	97.5	484	1,230	484	1,230	484	1,230	484	1,230		
Dec.	19.0	19.2	4.04	3.93	-	-	10.3	12.2	3.3	5.2	0.9	1.0	105.47	105.28	93.0	85.2	98.5	89.0	98.5	89.0	330	516	330	516	330	516	330	516		
Jan.	18.9	19.1	4.09	3.92	-	-	10.7	12.1	3.4	8.2	1.0	1.0	105.24	104.80	93.2	72.0	98.0	76.0	98.0	76.0	110	338	110	338	110	338	110	338		
Feb.	19.0	19.2	4.05	3.90	-	-	11.0	11.4	3.6	9.1	1.1	1.0	105.21	105.17	90.4	63.2	96.0	72.0	96.0	72.0	72	158	72	158	72	158	72	158		
Mar.-July	19.0	19.3	4.08	3.93	-	-	9.8	10.2	3.4	9.0	1.2	1.0	105.57	106.52	93.1	58.0	98.0	70.5	98.0	70.5	84	178	84	178	84	178	84	178		
Season	19.1	19.2	4.03	3.91	-	-	11.3	11.7	2.8	4.3	0.8	0.9	105.68	105.26	94.7	87.6	100.5	93.0	100.5	93.0	2,766	3,502	2,766	3,502	2,766	3,502	2,766	3,502		

FLORIDA 1/

Aug.	16.6	-	3.77	-	-	-	15.1	-	5.1	-	0.7	-	94.00	-	84.0	-	73.5	-	73.5	-	4	-	4	-	4	-	4	-
Sept.	19.1	18.9	3.85	3.77	-	-	12.2	13.2	3.3	6.0	0.4	0.8	104.59	103.17	93.7	84.1	98.0	87.5	98.0	87.5	16	6	16	6	16	6	16	6
Oct.	19.2	19.1	3.78	3.79	-	-	12.3	11.8	4.8	4.0	0.8	0.5	105.36	103.93	87.0	91.4	91.5	95.5	91.5	95.5	22	30	22	30	22	30	22	30
Nov.	18.5	19.0	3.85	3.79	-	-	13.1	11.9	10.3	2.0	1.1	0.6	101.81	104.06	63.4	98.4	65.0	102.5	65.0	102.5	16	32	16	32	16	32	16	32
Dec.	19.0	18.9	3.75	3.72	-	-	11.0	13.5	5.9	3.3	1.5	0.6	102.93	102.67	80.7	91.4	84.0	95.5	84.0	95.5	14	12	14	12	14	12	14	12
Jan.	19.5	18.5	3.77	3.73	-	-	11.6	12.6	6.3	4.9	1.9	1.0	105.38	100.69	77.7	88.1	79.5	88.0	79.5	88.0	4	8	4	8	4	8	4	8
Feb.	17.2	17.0	3.62	3.77	-	-	14.6	13.6	8.0	6.2	1.8	1.1	92.50	94.38	60.0	82.5	60.0	71.0	60.0	71.0	2	4	2	4	2	4	2	4
Mar.-July	17.7	17.2	3.92	3.92	-	-	9.6	11.6	8.0	13.2	1.3	4.8	98.75	98.75	77.5	45.0	77.5	60.0	77.5	60.0	2	2	2	2	2	2	2	2
Season	18.8	18.8	3.80	3.78	-	-	12.3	12.3	6.0	3.7	1.0	0.7	103.02	102.97	81.0	91.6	83.5	95.0	83.5	95.0	80	94	80	94	80	94	80	94

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1970 and 1971 (Continued)

ALABAMA 1/

Month	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.			
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971		
Aug.	18.4	18.5	3.86	3.77	-	12.5	13.1	10.1	3.8	7.4	1.1	1.6	101.75	103.50	90.1	49.7	90.0	69.0	10	4		
Sept.	18.3	18.2	3.91	3.69	11.6	11.3	12.0	13.7	1.7	2.5	0.7	1.0	102.21	100.45	96.9	91.2	99.5	92.5	516	120		
Oct.	18.4	18.4	3.93	3.75	11.8	11.3	11.4	12.9	1.2	1.2	0.9	1.0	103.03	101.69	98.0	97.5	101.0	99.5	1,338	1,504		
Nov.	17.9	18.6	3.83	3.78	11.5	11.4	13.1	11.9	2.6	1.0	1.3	1.3	100.35	102.77	93.5	98.3	94.0	101.5	1,146	1,650		
Dec.	18.3	18.4	3.87	3.76	11.5	11.3	11.3	12.2	3.4	1.3	1.6	1.5	102.02	101.66	91.2	97.6	93.5	99.5	816	628		
Jan.	18.0	18.3	3.83	3.75	11.8	11.4	11.8	12.7	3.8	3.1	1.5	1.6	100.98	100.87	90.0	92.4	91.0	93.5	256	342		
Feb.	18.1	18.5	3.89	3.80	12.0	11.7	11.6	11.6	3.3	3.4	1.6	1.5	101.93	102.51	91.6	91.5	93.5	93.0	124	194		
Mar.-July	18.3	18.7	3.91	3.81	11.7	11.7	10.6	11.0	3.2	5.1	1.4	1.7	102.66	103.40	92.0	83.6	95.0	87.5	166	246		
Season	18.2	18.5	3.88	3.77	11.6	11.4	11.9	12.3	2.4	1.6	1.2	1.3	101.87	102.10	94.5	96.3	96.5	98.5	4,372	4,688		

MISSISSIPPI

Aug.	17.6	16.8	4.18	4.07	11.0	12.0	10.8	9.1	2.6	8.1	1.9	1.4	101.81	98.38	93.6	73.4	96.0	73.0	8	8
Sept.	17.8	17.3	3.95	3.72	11.0	11.9	11.9	13.6	0.9	2.0	0.7	0.9	100.46	97.49	98.8	95.2	99.5	93.5	716	110
Oct.	17.8	18.0	3.95	3.81	11.5	11.6	11.5	11.8	0.8	0.7	0.8	0.8	100.73	100.82	99.0	99.1	100.0	100.0	3,618	4,916
Nov.	17.4	17.7	3.91	3.84	11.4	11.6	11.9	10.8	1.9	0.7	1.1	1.2	98.81	100.01	97.7	99.4	97.0	99.5	5,002	5,298
Dec.	17.3	16.9	3.85	3.77	11.4	11.5	11.4	12.1	2.2	0.8	1.3	1.6	97.91	95.96	96.9	98.6	95.0	95.0	3,520	1,240
Jan.	17.2	17.0	3.84	3.72	11.4	11.5	12.2	13.4	3.5	1.9	1.7	1.7	97.56	96.28	91.6	95.4	89.0	92.0	224	322
Feb.	17.1	16.9	3.83	3.78	11.6	11.7	12.1	12.3	3.4	3.1	1.6	2.0	96.84	96.49	91.8	93.3	89.5	90.0	138	186
Mar.-July	17.2	17.5	3.90	3.85	11.0	11.6	11.6	11.1	4.7	4.4	2.1	2.3	96.86	98.42	86.3	86.5	84.0	85.0	116	128
Season	17.5	17.7	3.90	3.82	11.4	11.6	11.7	11.4	1.7	0.8	1.1	1.1	99.12	99.73	97.6	98.8	97.0	99.0	13,342	12,208

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1970 and 1971 (Continued)

TENNESSEE

Month	Cottonseed analysis												Average index			Average grade		Samples		
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.	
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971
Aug.	17.6	16.2	4.15	3.92	11.5	11.5	10.6	11.6	1.8	8.0	1.4	1.3	100.63	92.50	98.2	77.5	99.0	60.0	4	2
Sept.	17.8	17.3	3.79	3.60	10.5	11.9	14.3	14.8	0.6	4.3	0.7	1.1	98.91	96.75	97.5	75.1	97.0	78.5	76	14
Oct.	18.1	17.9	3.79	3.69	11.0	11.4	13.3	12.8	0.6	0.5	0.9	1.0	100.46	99.69	98.3	98.5	99.0	98.5	1,234	1,542
Nov.	18.0	18.3	3.71	3.75	10.9	11.3	13.4	11.7	1.4	0.6	1.4	1.4	99.63	101.41	97.9	98.9	98.0	100.5	1,254	1,610
Dec.	18.1	17.8	3.71	3.70	11.0	11.3	12.5	12.8	1.7	0.7	1.7	1.8	99.94	98.90	97.7	98.0	98.0	97.0	850	508
Jan.	18.0	17.7	3.68	3.70	11.2	11.4	12.8	13.1	2.4	1.1	2.1	2.1	99.76	98.78	94.8	97.4	95.0	96.5	86	122
Feb.	18.1	17.9	3.68	3.71	11.3	11.6	12.7	12.7	2.3	2.1	2.2	2.0	100.15	99.83	94.9	95.5	95.0	95.5	42	62
Mar.-July	18.4	18.3	3.77	3.79	11.1	11.4	11.5	11.6	4.6	3.3	1.9	2.1	101.50	101.74	88.2	92.0	89.0	94.5	72	44
Season	18.1	18.0	3.74	3.72	11.0	11.4	13.1	12.4	1.3	0.7	1.3	1.3	100.02	100.28	97.7	98.4	98.0	99.0	3,618	3,904

MISSOURI

Aug.	18.2	17.2	4.22	3.77	11.5	11.5	11.6	10.6	2.2	6.0	0.7	0.9	102.50	96.25	97.5	87.5	100.5	82.5	2	2
Sept.	17.2	17.1	3.82	3.78	10.9	11.5	14.9	13.7	0.8	1.0	1.2	0.9	96.98	96.68	96.3	96.3	94.0	93.0	100	220
Oct.	17.4	17.3	3.84	3.76	11.1	11.6	13.9	12.6	0.6	0.4	0.8	0.9	98.13	97.91	97.9	98.6	96.5	97.0	666	1,224
Nov.	17.2	17.5	3.77	3.77	11.1	11.5	13.3	11.4	1.6	0.4	1.1	1.2	96.73	98.59	97.7	99.2	94.5	98.0	654	1,010
Dec.	17.4	17.1	3.71	3.74	11.3	11.6	12.9	11.9	1.8	0.4	1.3	1.6	97.20	97.07	97.7	98.7	95.5	96.1	590	214
Jan.	17.1	17.1	3.66	3.74	11.9	12.4	13.8	12.5	2.1	0.6	2.0	1.6	96.52	96.69	95.5	98.2	92.5	95.5	74	44
Feb.	17.5	18.0	3.67	3.88	11.9	10.6	12.6	12.1	2.2	1.7	2.5	3.0	98.26	98.27	95.6	94.5	94.0	93.5	48	28
Mar.-July	17.9	17.0	3.80	3.80	11.6	11.6	11.3	11.3	3.2	1.5	2.6	3.8	100.14	96.04	91.8	94.4	93.0	90.0	86	50
Season	17.3	17.4	3.77	3.77	11.2	11.6	13.4	12.2	1.4	0.5	1.2	1.1	97.45	97.95	97.4	98.5	95.0	97.0	2,220	2,792

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1970 and 1971 (Continued)

ARKANSAS

Month	Cottonseed analysis														Average index		Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.	
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Aug.	16.9	17.9	3.85	3.74	10.0	11.1	11.6	11.4	2.4	6.1	0.5	1.6	78.13	99.55	96.9	84.5	83.0	83.5	4	10
Sept.	17.7	17.2	3.86	3.72	10.7	11.7	13.8	13.4	0.6	0.7	0.9	0.8	98.92	96.86	97.6	97.6	97.0	95.0	220	330
Oct.	17.9	17.7	3.86	3.77	11.1	11.8	12.1	11.3	0.6	0.5	0.7	0.9	100.25	99.61	99.1	99.3	99.5	99.0	2,754	4,390
Nov.	17.6	17.7	3.80	3.79	11.2	11.4	12.2	10.5	1.3	0.5	1.0	1.0	98.74	99.38	98.8	99.6	98.0	99.5	3,198	3,748
Dec.	17.6	17.0	3.73	3.72	11.2	11.2	12.1	12.1	1.7	0.6	1.2	1.3	98.28	95.59	98.2	98.9	97.0	95.0	2,498	958
Jan.	17.4	16.8	3.71	3.68	11.3	11.3	12.9	13.0	2.5	1.0	1.8	1.6	97.39	94.61	94.8	97.8	92.5	92.5	322	328
Feb.	17.5	17.1	3.73	3.74	11.2	11.5	12.4	12.1	2.7	1.5	2.0	2.3	98.11	96.54	94.3	97.0	93.0	93.5	286	224
Mar.-July	18.0	17.2	3.76	3.76	11.4	11.3	11.2	11.5	4.7	2.3	2.6	3.0	100.37	96.75	86.6	94.1	87.0	91.0	294	124
Season	17.7	17.6	3.79	3.77	11.2	11.6	12.2	11.2	1.4	0.6	1.1	1.0	99.03	98.79	98.1	99.2	97.5	98.0	9,576	10,112

LOUISIANA

Aug.	17.5	17.7	3.57	4.22	12.1	10.5	14.7	9.6	4.7	3.5	0.6	0.4	99.83	101.50	82.5	93.7	80.5	93.5	6	2
Sept.	16.6	17.1	3.96	3.79	11.0	11.5	13.1	13.3	2.7	3.5	0.5	0.8	95.68	97.51	93.6	89.3	89.5	86.0	246	34
Oct.	17.2	17.7	3.93	3.83	10.8	11.2	12.7	12.0	2.4	2.2	0.5	0.5	97.61	99.27	94.6	95.6	92.0	95.0	1,404	1,352
Nov.	17.1	17.8	3.88	3.82	11.1	11.2	12.3	11.0	3.2	1.8	0.6	0.5	97.16	100.02	93.1	97.7	90.5	98.0	1,574	2,104
Dec.	17.0	16.7	3.82	3.74	11.5	11.2	11.4	12.6	4.1	1.9	0.9	0.9	96.61	94.98	90.3	96.6	87.5	92.0	880	528
Jan.	16.4	16.2	3.85	3.72	11.5	11.2	12.7	13.1	6.0	3.4	1.1	0.9	94.33	92.55	81.5	91.7	76.0	84.5	74	286
Feb.	16.3	16.7	3.83	3.75	11.4	11.4	12.6	11.8	6.2	4.8	1.2	1.1	94.33	95.45	74.5	86.9	76.0	83.0	26	110
Mar.-July	16.5	16.7	3.82	3.73	11.6	11.7	11.9	11.4	8.9	7.7	1.2	1.2	94.56	95.71	67.2	71.8	67.0	72.0	36	72
Season	17.1	17.5	3.88	3.80	11.1	11.2	12.3	11.7	3.2	2.2	0.6	0.6	97.02	96.53	92.5	95.8	90.0	94.5	4,246	4,488

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1970 and 1971 (Continued)

OKLAHOMA

Month	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.	
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971
Oct.	17.7	16.2	3.87	4.07	12.0	11.5	10.6	9.6	0.6	3.8	0.6	1.3	100.70	94.38	99.8	91.0	101.0	87.0	60	4
Nov.	17.3	16.8	4.17	4.19	11.4	10.7	8.6	10.5	0.6	0.7	1.0	1.4	99.85	97.67	99.6	99.3	99.5	97.5	434	104
Dec.	17.4	16.7	4.20	4.07	11.2	10.2	8.2	11.9	0.6	0.8	1.3	2.4	100.39	95.62	99.4	98.0	100.0	94.5	688	274
Jan.	17.2	17.4	4.18	4.08	11.1	10.0	9.0	10.6	0.8	0.9	1.6	2.7	99.41	98.40	99.2	97.8	99.0	96.5	128	610
Feb.	16.7	17.5	4.18	4.08	11.1	10.1	8.8	9.8	0.7	1.0	1.5	3.1	97.46	98.82	99.3	97.7	97.5	97.0	24	276
Mar.-July	16.4	17.3	4.10	4.12	12.1	10.5	8.7	9.6	0.9	1.6	0.9	2.9	96.58	98.82	99.7	96.3	97.5	95.5	12	72
Season	17.3	17.2	4.17	4.09	11.3	10.1	8.5	10.6	0.6	0.9	1.2	2.7	100.05	97.87	99.5	97.9	100.0	96.0	1,346	1,340

TEXAS

Aug.	16.8	16.0	4.13	3.84	11.6	11.5	10.4	11.6	0.4	2.1	0.8	1.1	97.90	92.50	99.7	96.7	98.0	89.5	456	32
Sept.	16.1	16.5	3.99	4.21	11.9	10.5	10.9	10.3	0.7	1.6	1.1	1.8	93.94	96.28	98.8	95.5	93.0	93.0	398	160
Oct.	17.0	16.3	4.04	4.22	11.7	10.6	9.7	11.3	1.0	1.4	1.3	2.2	98.39	95.37	98.1	96.0	97.0	92.5	924	278
Nov.	18.4	16.5	4.04	4.09	11.3	9.6	7.5	9.6	0.5	1.0	1.6	2.6	103.49	94.10	99.2	97.6	103.0	92.0	6,178	978
Dec.	17.8	17.0	4.01	3.99	11.2	9.2	7.1	9.2	0.6	0.7	2.4	2.9	100.69	94.70	98.4	97.9	99.5	93.0	3,334	3,072
Jan.	17.5	16.9	3.98	3.95	11.0	9.2	7.6	8.4	0.8	0.7	3.7	3.5	98.90	94.25	96.7	97.3	96.0	92.0	580	4,276
Feb.	18.0	16.7	4.07	3.91	11.2	9.7	7.1	8.2	0.9	1.0	3.3	4.4	102.04	93.91	96.5	95.4	99.0	90.0	186	1,472
Mar.-July	18.1	16.8	4.07	3.95	11.8	10.0	7.4	8.0	0.8	1.5	3.0	4.5	103.14	95.12	96.7	93.9	100.0	89.2	100	312
Season	17.9	16.8	4.03	3.98	11.3	9.4	7.8	8.8	0.6	0.8	1.9	3.3	101.57	94.40	98.7	97.1	100.5	92.0	12,156	10,580

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1970 and 1971 (Continued)

NEW MEXICO

Month	Cottonseed analysis												Average index				Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1970	1971	1970	1971	No.	No.
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971
Oct.	19.9	18.8	3.99	3.95	11.0	11.6	8.2	9.9	0.4	0.5	0.6	0.8	108.55	104.94	99.9	99.7	109.0	105.0	60	58		
Nov.	18.2	18.7	3.94	3.99	11.4	11.0	6.9	8.6	0.4	0.5	1.4	1.3	106.56	103.76	99.4	99.5	106.0	103.5	158	108		
Dec.	18.0	17.6	3.94	3.92	11.2	9.6	6.7	8.8	0.6	0.5	3.4	3.0	101.14	98.03	97.5	98.1	98.5	96.0	74	76		
Jan.	18.5	17.2	3.93	3.97	11.0	9.1	6.9	8.0	0.6	0.6	4.6	4.4	102.85	95.51	95.8	96.5	99.5	92.0	30	66		
Feb.	16.6	17.3	3.73	3.87	12.5	10.2	6.8	7.4	0.8	0.5	5.9	6.2	95.69	96.41	94.6	94.7	90.5	91.5	8	34		
Mar.-July	-	19.2	-	4.02	-	9.2	-	7.2	-	1.0	-	5.8	-	100.75	-	94.6	-	96.0	-	6		
Season	18.9	18.1	3.94	3.95	11.2	10.3	7.1	8.6	0.5	0.5	2.1	2.7	105.10	100.37	98.6	98.1	104.0	98.5	330	348		

ARIZONA

Sept.	18.6	-	4.10	-	11.8	-	6.2	-	0.4	-	1.1	-	105.41	-	99.6	-	105.0	-	48			
Oct.	18.8	18.9	4.05	4.05	12.2	12.0	6.8	8.2	0.6	0.7	1.2	2.1	106.48	106.31	99.6	98.8	105.5	105.0	680	16		
Nov.	18.7	-	4.09	-	12.5	-	6.1	-	0.6	-	1.6	-	106.58	-	99.2	-	106.0	-	620			
Dec.	17.6	-	4.08	-	12.3	-	6.7	-	1.0	-	3.1	-	101.63	-	97.4	-	99.5	-	502			
Jan.	16.8	-	3.99	-	12.2	-	8.2	-	1.7	-	4.3	-	97.63	-	95.1	-	93.5	-	196			
Feb.	17.4	-	4.06	-	12.1	-	7.0	-	2.3	-	5.0	-	99.88	-	92.5	-	92.5	-	74			
Mar.-July	18.1	-	4.16	-	12.5	-	4.7	-	1.4	-	4.2	-	103.32	-	95.7	-	99.0	-	14			
Season	18.3	18.9	4.06	4.05	12.3	12.0	6.7	8.2	0.8	0.7	2.2	2.1	104.28	106.31	98.3	98.8	103.0	105.0	2,134	16		

CALIFORNIA 1/

Oct.	18.3	-	4.23	-	11.6	-	6.5	-	0.5	-	0.7	-	104.03	-	99.4	-	103.5	-	80			
Nov.	17.4	-	4.17	-	12.0	-	7.8	-	0.3	-	0.9	-	99.96	-	99.8	-	100.0	-	112			
Dec.	15.5	-	3.95	-	12.8	-	11.3	-	0.4	-	1.5	-	90.86	-	98.8	-	90.0	-	66			
Jan.	15.0	-	3.84	-	-	-	13.1	-	0.4	-	1.5	-	87.95	-	98.3	-	86.0	-	22			
Feb.	14.6	-	3.64	-	-	-	13.0	-	0.5	-	1.7	-	83.21	-	98.3	-	83.0	-	14			
Mar.-July	18.0	-	4.20	-	10.9	-	6.9	-	1.2	-	1.2	-	102.50	-	99.4	-	102.0	-	18			
Season	17.0	-	4.09	-	11.6	-	8.7	-	0.4	-	1.1	-	97.63	-	99.3	-	97.0	-	312			

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, 1970 and 1971

NORTH CAROLINA 1/

Dist. No.	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1970	1971	No.	1971	No.	
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971						
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.					
2	18.7	19.3	3.98	3.93	-	10.8	12.4	1.1	8.5	1.1	1.3	103.68	105.94	99.1	72.0	103.0	74.5	42	42			
3	19.2	19.0	3.69	3.88	-	11.1	12.1	1.1	9.2	1.0	1.5	103.86	104.53	98.8	65.5	103.0	69.0	730	536			
4	19.0	19.7	3.95	3.77	-	10.7	11.8	0.8	5.7	0.6	1.1	104.93	106.55	99.9	84.5	105.0	89.5	22	20			
5	19.2	20.2	3.98	3.75	-	10.7	10.6	0.7	4.6	0.5	1.0	105.81	108.88	100.0	89.0	106.0	97.0	34	24			
6	19.4	19.5	3.69	3.83	-	10.9	11.7	1.4	10.1	0.8	1.4	104.58	105.81	97.6	55.0	102.5	65.5	78	50			
8	18.8	19.5	4.17	3.98	-	10.7	11.3	1.1	5.0	0.8	1.2	105.01	107.36	99.1	84.8	104.5	92.0	200	200			
9	18.8	18.8	3.98	3.89	-	11.2	11.9	1.8	4.2	0.8	1.0	103.93	103.42	96.8	88.0	101.0	91.0	700	786			
State	19.0	19.0	3.87	3.89	-	11.1	11.9	1.4	6.2	0.9	1.2	104.09	104.50	98.0	78.9	102.5	82.5	1,806	1,658			

SOUTH CAROLINA 1/

1	18.7	19.6	4.18	3.99	-	10.9	11.4	1.5	4.9	0.7	1.1	105.28	107.66	98.0	85.1	103.5	91.5	152	152
2	19.1	20.0	4.14	4.02	-	10.4	10.6	1.2	6.7	0.7	1.4	106.16	109.07	98.8	75.3	105.0	85.0	58	50
3	18.8	19.1	4.18	3.88	-	11.5	11.9	3.0	4.4	0.9	1.4	105.49	104.53	93.7	86.7	99.0	90.5	618	748
4	18.8	19.3	4.23	3.92	-	11.0	11.4	1.3	5.1	0.5	1.2	105.68	105.73	98.8	84.4	105.0	90.0	132	158
5	18.7	19.2	4.24	3.88	-	11.6	11.6	3.8	5.0	1.0	1.4	105.31	105.28	91.1	82.9	96.0	88.5	682	938
8	18.3	19.0	4.28	3.94	-	11.7	11.8	3.7	6.5	1.0	1.4	104.16	104.55	91.3	76.3	95.5	82.0	104	122
State	18.8	19.2	4.21	3.90	-	11.4	11.7	3.0	4.9	0.9	1.3	105.36	105.26	93.5	83.9	98.5	89.0	1,746	2,168

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1970 and 1971 (Continued)

GEORGIA 1/

Dist. No.	Cottonseed analysis														Average index			Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1970	1971	1970	1971	No.	1971	No.
	1970	1971	Pct.	Pct.	1970	1971	Pct.	Pct.	1970	1971	Pct.	Pct.	1970	1971	1970	1971							
1	18.8	19.2	3.97	3.68	-	-	11.4	12.1	1.4	1.3	1.2	1.2	104.09	103.94	98.0	97.8	102.5	102.0	270	298			
2	18.4	19.4	4.18	3.96	-	-	10.9	11.7	1.6	4.8	1.0	1.1	103.68	107.10	98.1	86.1	101.5	92.5	80	78			
3	18.7	19.6	4.16	3.92	-	-	11.1	11.7	1.4	3.2	0.6	0.7	104.76	107.30	99.0	93.2	104.0	99.5	46	44			
4	19.2	19.3	3.99	3.94	-	-	10.9	11.6	1.9	4.1	0.7	0.8	105.89	105.90	98.0	89.1	104.0	94.5	264	344			
5	18.9	19.1	4.18	3.97	-	-	11.3	11.9	2.5	5.0	0.7	0.9	105.69	105.46	96.1	85.6	102.0	91.0	522	814			
6	18.9	19.3	4.16	3.93	-	-	11.3	11.7	3.0	6.9	0.7	1.0	105.50	105.78	93.4	74.2	99.0	81.5	320	348			
7	19.4	19.1	3.99	3.96	-	-	11.0	11.7	3.0	3.6	0.7	0.8	106.64	105.15	94.6	91.5	101.0	96.5	362	466			
8	19.4	19.1	3.91	3.89	-	-	11.4	11.6	3.5	4.1	0.8	0.9	106.00	104.90	92.3	88.8	98.0	94.0	856	1,068			
9	19.1	19.5	3.95	3.84	-	-	12.1	11.0	5.4	6.8	0.6	0.9	105.58	105.77	85.0	77.4	89.0	83.5	46	42			
State	19.1	19.2	4.03	3.91	-	-	11.3	11.7	2.8	4.3	0.8	0.9	105.68	105.26	94.7	87.6	100.5	93.0	2,766	3,502			

ALABAMA 1/

1	17.9	18.1	3.88	3.73	11.4	11.5	12.0	12.6	1.6	1.3	1.4	1.4	100.68	100.90	97.0	97.2	98.0	98.0	442	486
2	17.9	18.3	3.87	3.73	11.7	11.4	11.9	12.4	1.0	0.9	1.3	1.3	101.09	101.62	98.6	97.8	100.0	99.5	1,596	1,952
3	18.0	18.4	3.81	3.73	11.9	11.3	12.2	12.3	1.5	1.3	1.4	1.4	101.22	101.65	97.5	96.8	99.0	99.0	628	788
4	18.3	18.6	3.91	3.73	11.1	11.3	11.9	12.4	3.3	2.2	1.3	1.1	102.23	102.33	91.6	95.2	93.5	97.5	264	234
5	18.9	19.0	3.95	3.88	-	-	11.5	12.0	3.7	3.2	0.9	1.1	104.17	104.42	91.4	92.7	95.5	97.0	676	640
6	18.4	18.4	3.95	3.91	-	-	11.3	11.9	3.3	1.4	1.0	1.1	102.32	102.13	92.5	97.7	95.0	100.0	252	208
7	19.5	18.7	3.77	3.73	-	-	11.6	12.3	8.0	5.6	0.8	0.9	105.38	103.00	59.7	83.7	75.5	86.0	8	8
8	18.7	18.7	3.91	3.91	-	-	12.4	12.2	6.2	3.2	1.0	1.1	103.53	103.09	80.8	93.1	83.5	96.0	266	246
9	18.4	18.8	3.88	3.78	-	-	12.1	12.1	5.1	3.5	0.8	1.1	101.76	102.81	85.6	90.0	87.5	94.5	240	126
State	18.2	18.5	3.88	3.77	11.6	11.4	11.9	12.3	2.4	1.6	1.2	1.3	101.87	102.10	94.5	96.3	96.5	98.5	4,372	4,688

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1970 and 1971 (Continued)

MISSISSIPPI

Dist. No.	Cottonseed analysis												Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971		
1	Pct. 17.2	Pct. 17.3	Pct. 3.95	Pct. 3.90	Pct. 11.5	Pct. 11.8	Pct. 11.4	Pct. 11.0	Pct. 1.4	Pct. 0.6	Pct. 1.0	Pct. 1.0	98.41	98.74	98.7	99.4	97.5	98.5	3,904	3,818
2	17.8	17.8	3.82	3.79	11.2	11.6	12.0	11.6	1.4	0.7	1.3	1.5	99.79	99.93	98.3	98.7	98.5	99.0	1,674	1,564
3	18.0	18.3	3.79	3.65	11.1	11.5	11.9	12.5	1.1	1.0	1.4	1.7	100.12	100.82	98.1	97.9	98.5	99.0	1,080	998
4	17.2	17.6	3.95	3.85	11.6	11.7	11.6	11.3	1.6	0.8	0.9	0.9	98.58	99.55	98.4	99.0	97.5	99.0	4,160	3,778
5	17.8	18.3	3.87	3.68	11.2	11.4	11.8	11.8	2.3	1.1	0.9	1.0	99.87	101.21	95.7	98.5	96.0	100.0	1,302	1,140
6	18.0	18.2	3.87	3.69	11.1	11.4	11.6	12.3	1.9	1.4	1.1	1.1	100.52	100.82	96.8	97.5	97.5	98.5	584	496
7	17.9	18.4	3.86	3.74	10.9	11.4	12.0	11.4	3.6	1.7	0.9	1.0	100.32	101.59	91.2	97.0	91.5	98.5	344	290
8	18.2	18.1	3.74	3.72	11.3	12.2	12.2	11.8	4.9	2.5	1.0	1.2	101.17	101.25	84.2	93.1	85.5	96.0	222	70
9	18.4	18.5	3.81	3.73	11.6	11.5	12.1	12.3	5.3	2.0	0.9	1.1	102.31	102.64	84.1	96.1	86.5	98.5	72	54
State	17.5	17.7	3.90	3.82	11.4	11.6	11.7	11.4	1.7	0.8	1.1	1.1	99.12	99.73	97.6	98.8	97.0	99.0	13,342	12,208

TENNESSEE

1	17.8	18.0	3.78	3.71	10.9	11.4	13.2	12.3	1.4	0.6	1.3	1.3	99.25	100.00	97.4	98.4	97.0	98.5	1,260	1,430
2	18.2	18.0	3.71	3.72	11.0	11.4	13.1	12.4	1.2	0.7	1.3	1.3	100.36	100.33	97.8	98.3	98.5	99.0	2,170	2,270
3	18.0	18.3	3.77	3.74	11.2	11.3	12.5	12.0	1.4	0.6	1.1	1.2	100.24	101.58	98.6	99.0	99.0	100.5	98	96
4	18.5	18.4	3.77	3.75	11.1	10.9	12.1	11.8	1.0	0.6	1.4	1.0	102.26	101.21	98.3	99.0	100.5	100.0	82	98
5	18.7	19.7	3.73	3.71	11.5	10.7	11.6	10.8	1.0	0.9	1.1	1.5	103.25	105.50	99.3	99.4	103.0	106.0	8	10
State	18.1	18.0	3.74	3.72	11.0	11.4	13.1	12.4	1.3	0.7	1.3	1.3	100.02	100.28	97.7	98.4	98.0	99.0	3,618	3,904

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1970 and 1971 (Continued)

ARKANSAS

Dist. No.	Cottonseed analysis												Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971		
3	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.								
	17.6	17.4	3.78	3.78	11.1	11.7	12.7	11.4	1.6	0.5	1.3	1.2	98.66	98.11	97.2	98.9	96.5	97.5	3,892	4,162
4	17.2	17.5	3.87	3.85	10.9	11.5	11.9	10.7	1.5	0.7	0.8	0.8	97.50	98.69	98.5	99.7	96.0	99.0	50	52
5	17.2	17.5	3.86	3.70	11.2	11.8	11.8	11.3	1.0	0.6	0.8	0.9	97.73	98.63	99.0	99.4	97.0	98.5	166	170
6	18.0	17.7	3.78	3.78	11.2	11.7	11.8	11.0	1.3	0.5	1.0	1.0	100.15	99.56	98.4	99.3	99.0	99.0	3,654	3,758
7	17.4	17.8	3.85	3.73	10.8	10.7	11.6	11.5	1.6	1.3	0.7	0.8	97.72	98.45	98.7	98.9	97.0	97.5	172	178
8	17.0	17.4	3.92	3.82	10.6	11.4	12.7	11.9	1.0	0.8	1.1	0.4	96.52	98.36	98.7	99.0	95.5	97.5	30	32
9	17.2	17.7	3.84	3.73	11.4	11.1	11.8	11.3	0.9	0.7	0.8	0.8	97.77	98.81	99.3	99.4	97.5	98.5	1,612	1,760
State	17.7	17.6	3.79	3.77	11.2	11.6	12.2	11.2	1.4	0.6	1.1	1.0	99.03	98.79	98.1	99.2	97.5	98.0	9,576	10,112

LOUISIANA

1	17.0	17.7	4.03	3.85	10.8	10.8	11.6	11.6	2.3	2.2	0.4	0.4	97.46	99.12	96.6	97.1	94.5	96.5	496	584
2	17.0	17.7	3.94	3.87	10.9	11.1	11.9	11.4	2.1	1.7	0.6	0.5	96.82	99.12	97.4	98.2	94.5	98.0	272	226
3	17.1	17.4	3.88	3.84	11.3	11.5	12.2	11.3	2.5	1.2	0.7	0.6	97.25	98.65	95.1	98.7	92.5	97.5	2,122	2,328
4	17.2	17.5	3.98	3.92	10.3	10.3	12.3	12.3	3.6	3.4	0.7	0.7	97.19	98.38	92.1	92.3	89.5	91.5	178	176
5	17.1	17.5	3.80	3.69	11.0	11.2	12.7	12.4	5.0	4.0	0.7	0.6	96.48	97.86	85.4	89.6	82.0	87.5	1,116	1,146
6	17.2	-	3.74	-	10.7	-	12.0	-	6.4	-	1.2	-	96.85	-	79.8	-	76.5	-	10	-
7	17.8	18.1	3.69	3.62	10.1	10.8	14.5	13.8	7.4	4.6	0.6	0.7	95.80	99.46	73.2	85.7	73.0	84.5	46	24
8	16.9	18.0	3.97	3.62	9.8	10.0	13.6	12.1	2.2	1.2	0.4	0.3	94.58	98.38	97.1	99.7	92.5	98.5	6	4
State	17.1	17.5	3.88	3.80	11.1	11.2	12.3	11.7	3.2	2.2	0.6	0.6	97.02	98.53	92.5	95.8	90.0	94.5	4,246	4,488

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1970 and 1971 (Continued)

OKLAHOMA

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1970		1971	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1970	1971	1970	1971	No.	No.	1970	1971	
3	18.4	17.8	4.13	4.07	8.9	9.7	11.2	11.1	0.8	1.3	1.2	4.8	100.75	99.05	99.6	94.7	100.5	94.5	10	20
4	17.6	16.9	4.21	4.10	11.1	9.8	8.2	10.8	0.6	0.8	1.5	3.2	101.08	96.03	99.4	97.4	101.0	94.0	336	332
5	17.1	17.0	4.23	4.17	10.8	9.9	9.2	11.0	0.7	0.9	1.8	3.2	98.83	97.38	99.1	97.4	98.5	95.0	92	122
6	17.9	17.4	4.07	3.95	10.5	10.5	10.7	11.5	1.6	1.4	1.1	2.2	101.04	97.95	97.2	98.0	98.0	96.5	40	30
7	17.2	17.4	4.16	4.08	11.6	10.3	8.3	10.4	0.6	0.8	1.0	2.3	99.79	98.65	99.7	98.4	99.5	97.5	798	770
8	17.2	17.0	4.19	4.06	10.6	10.9	9.5	10.7	1.0	2.1	1.3	2.5	99.24	97.89	99.3	95.9	98.5	94.0	52	54
9	17.2	18.4	3.92	3.95	11.6	10.1	10.7	10.7	0.7	3.5	1.4	1.8	98.39	101.63	99.4	91.8	98.0	93.5	18	12
State	17.3	17.2	4.17	4.09	11.3	10.1	8.5	10.6	0.6	0.9	1.2	2.7	100.05	97.87	99.5	97.9	100.0	96.0	1,346	1,340

TEXAS

1	18.3	16.7	3.99	3.97	11.2	9.0	7.2	8.5	0.5	0.7	2.1	3.6	102.72	92.99	98.7	97.3	101.5	90.5	8,006	7,176
2	17.7	17.5	4.16	3.95	11.7	10.1	7.7	8.9	0.5	0.8	1.5	2.9	101.88	97.93	99.3	97.8	101.5	96.0	2,294	2,454
3	17.3	16.8	4.12	3.96	12.2	10.7	7.9	10.2	0.6	2.3	1.5	2.7	100.38	96.54	99.4	92.5	100.0	90.0	64	62
4	16.1	16.5	4.08	4.29	11.4	10.3	10.5	10.5	1.4	2.3	1.6	2.5	94.49	96.35	98.4	93.7	93.5	91.0	710	546
5	16.8	16.6	4.09	4.07	10.5	10.7	11.4	12.6	1.9	2.6	1.2	1.2	97.09	95.60	96.2	93.1	93.0	90.0	120	106
6	19.0	18.1	3.90	4.05	12.1	11.9	8.7	9.2	0.5	0.6	2.1	0.8	106.41	103.58	98.7	99.6	105.5	103.5	54	26
7	17.0	16.7	4.08	3.90	12.3	11.2	8.1	9.6	0.6	1.1	1.2	2.3	99.01	95.34	99.5	98.7	98.5	95.0	104	122
8	16.5	15.6	4.02	3.98	11.7	11.6	11.1	11.2	0.5	2.6	0.9	1.0	95.75	92.73	99.3	95.5	95.5	88.5	300	26
9	16.4	15.7	3.70	3.70	11.6	11.5	13.3	14.5	5.9	4.3	1.2	1.7	93.97	90.09	71.6	80.9	74.5	77.5	52	56
10	16.6	16.7	4.13	4.07	11.8	12.5	10.2	9.6	0.4	2.4	0.9	1.4	96.93	98.25	99.8	97.4	97.0	94.0	452	6
State	17.9	16.8	4.03	3.98	11.3	9.4	7.8	8.8	0.6	0.8	1.9	3.3	101.57	94.40	98.7	97.1	100.5	92.0	12,156	10,580

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1970 and 1971 (Continued)

NEW MEXICO

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples		
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.				
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971			
3	17.8	17.2	4.01	3.97	9.9	7.2	6.9	7.9	0.6	0.5	2.3	4.3	99.20	92.99	98.7	96.7	98.0	90.0	46	46	
7	-	21.2	-	4.07	-	6.6	-	8.6	-	1.1	-	6.3	-	96.25	-	93.7	-	91.0	-	-	2
9	19.1	18.2	3.93	3.95	11.5	10.8	7.1	8.7	0.5	0.5	2.1	2.5	106.06	101.53	98.6	98.3	105.0	100.0	284	300	
State	18.9	18.1	3.94	3.95	11.2	10.3	7.1	8.6	0.5	0.5	2.1	2.7	105.10	100.37	98.6	98.1	104.0	98.5	330	348	

ARIZONA

5	18.2	18.9	4.06	4.05	12.3	12.0	6.8	8.2	0.9	0.7	2.2	2.1	103.83	106.31	98.2	98.8	102.5	105.0	1,692	16
7	18.5	-	4.13	-	12.1	-	6.1	-	0.7	-	2.3	-	105.73	-	98.4	-	104.5	-	256	-
9	18.8	-	4.02	-	12.3	-	6.5	-	0.5	-	1.8	-	106.44	-	99.0	-	105.5	-	186	-
State	18.3	18.9	4.06	4.05	12.3	12.0	6.7	8.2	0.8	0.7	2.2	2.1	104.28	106.31	98.3	98.8	103.0	105.0	2,134	16

CALIFORNIA 1/

5	16.5	-	4.07	-	-	-	9.5	-	0.3	-	1.0	-	95.34	-	99.4	-	95.0	-	242	-
8	18.5	-	4.19	-	11.6	-	6.0	-	1.0	-	1.1	-	105.53	-	99.0	-	104.5	-	70	-
State	17.0	-	4.09	-	11.6	-	8.7	-	0.4	-	1.1	-	97.63	-	99.3	-	97.0	-	312	-

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, 1970 and 1971

State	Quantity Index $\frac{1}{2}$														Total										
	Under 65		65-69		70-74		75-79		80-84		85-89		90-94		95-99		100-104		105 and over						
	1970	Pct.	1971	Pct.	1970	Pct.	1971	Pct.	1970	Pct.	1971	Pct.	1970	Pct.	1971	Pct.	1970	Pct.	1971	Pct.	1970	Pct.	1971	Pct.	
Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2	-	66.6	25.0	29.2	75.0	100.0	100.0	100.0	100.0	
N.C.	-	-	-	-	-	-	-	-	-	0.1	0.1	0.6	1.3	6.7	9.9	54.7	44.4	37.9	44.3	100.0	100.0	100.0	100.0	100.0	
S.C.	-	-	-	0.1	-	-	-	-	-	-	0.1	0.6	4.0	4.5	37.8	43.3	58.0	51.6	100.0	100.0	100.0	100.0	100.0	100.0	
Ga.	-	-	-	0.1	0.1	-	0.1	-	-	0.1	-	0.4	0.2	3.9	5.4	35.2	39.9	60.3	54.3	100.0	100.0	100.0	100.0	100.0	
Fla.	-	-	-	-	-	-	-	-	-	2.5	-	5.0	2.1	7.5	10.7	50.0	65.9	35.0	21.3	100.0	100.0	100.0	100.0	100.0	
Ala.	-	-	-	-	-	-	-	-	-	0.1	0.3	1.5	2.3	24.4	22.4	58.8	56.1	15.2	18.9	100.0	100.0	100.0	100.0	100.0	
Miss.	-	*	-	-	-	*	-	-	0.1	0.2	0.7	2.0	8.1	8.9	50.4	35.0	37.9	48.0	2.8	5.9	100.0	100.0	100.0	100.0	
Tenn.	-	-	-	-	0.1	-	-	-	0.1	0.1	0.1	0.5	2.9	3.6	44.6	39.2	49.1	51.1	3.2	5.4	100.0	100.0	100.0	100.0	
Mo.	-	-	-	0.1	-	-	0.2	0.1	0.7	0.6	15.8	14.4	62.8	57.4	19.4	25.7	1.0	1.6	100.0	100.0	100.0	100.0	100.0	100.0	
Ark.	-	*	0.1	0.1	0.1	0.1	0.3	0.1	0.6	1.3	8.9	11.9	49.9	44.6	37.3	38.0	3.2	3.6	100.0	100.0	100.0	100.0	100.0	100.0	
La.	-	-	-	-	0.1	0.2	0.4	1.7	3.3	20.6	12.8	59.0	43.1	17.8	36.7	0.7	3.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Okla.	-	-	-	-	-	-	-	-	0.4	1.0	3.6	16.0	41.4	56.4	50.9	25.1	3.7	1.5	100.0	100.0	100.0	100.0	100.0	100.0	
Tex.	-	*	0.1	0.3	0.2	1.0	0.7	3.6	1.7	12.9	8.0	30.9	20.9	37.5	41.7	13.1	26.8	0.6	100.0	100.0	100.0	100.0	100.0	100.0	
N. Mex.	-	-	-	-	-	0.6	1.1	1.2	2.3	3.6	13.8	14.5	25.2	23.0	35.0	57.1	22.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Ariz.	-	-	-	-	-	-	-	-	0.3	-	3.7	-	13.7	-	30.5	25.0	51.8	75.0	100.0	100.0	100.0	100.0	100.0	100.0	
Calif.	-	-	-	-	-	7.1	-	11.5	-	13.5	-	23.7	-	16.0	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
All other	-	-	-	-	-	-	-	-	-	10.0	9.1	70.0	9.1	20.0	63.6	-	18.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
U. S.	*	*	*	0.1	*	0.3	0.2	0.8	0.9	3.4	7.5	12.2	36.5	34.7	39.1	37.5	15.8	11.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

$\frac{1}{2}$ Linters factor not used in determining the grade of cottonseed in Virginia, North Carolina, South Carolina, Georgia, Florida, Districts 5 through 9 in Alabama and District 5 in California.

* Less than 0.05 percent.

Table 7. Percentage distribution of quality index by specified frequencies, by states and United States, 1970 and 1971

State	Quality Index																				
	Below grade		Below prime quality												Prime quality		Total				
	40.0-49.9		50.0-59.9		70.0-79.9		80.0-84.9		85.0-89.9		90.0-94.9		95.0-99.0		100		Total				
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971			
Va.	-	10.0	-	-	50.0	-	25.0	-	10.0	-	-	12.5	5.0	41.6	-	45.9	-	100.0	100.0		
N.C.	-	2.7	0.1	2.2	0.9	19.8	0.9	21.3	1.0	8.3	2.5	9.4	4.5	11.8	36.8	17.1	53.3	7.4	100.0	100.0	
S.C.	-	2.6	0.3	2.5	2.9	12.7	4.7	10.9	5.6	9.2	10.5	12.5	15.4	9.4	30.5	28.2	30.1	12.0	100.0	100.0	
Ga.	0.2	1.9	0.1	2.2	1.5	6.7	3.1	8.5	3.8	6.7	7.9	11.5	16.6	16.7	42.3	35.2	24.5	10.6	100.0	100.0	
Fla.	-	-	2.5	2.1	20.0	-	27.5	6.4	2.5	12.8	5.0	5.6	3.2	10.3	8.6	55.1	67.9	18.4	15.6	100.0	100.0
Ala.	0.2	0.3	0.4	0.4	2.8	1.3	4.3	1.5	2.9	1.2	5.6	3.2	10.3	8.6	55.1	67.9	18.4	15.6	100.0	100.0	
Miss.	*	0.1	*	0.1	0.4	0.1	0.9	0.4	1.1	0.4	2.5	0.5	6.9	1.9	55.5	58.1	32.6	38.6	100.0	100.0	
Tenn.	-	0.1	-	0.1	0.2	0.1	0.5	0.2	0.2	0.1	0.9	0.4	5.0	2.5	83.4	75.8	9.8	20.7	100.0	100.0	
Mo.	-	-	-	-	0.2	0.1	0.1	0.4	0.2	0.1	1.2	0.4	7.9	2.1	85.2	71.0	5.2	25.9	100.0	100.0	
Ark.	-	-	-	-	0.3	0.1	0.4	0.1	0.8	0.1	1.4	0.3	5.7	0.9	60.7	50.3	30.7	48.2	100.0	100.0	
La.	0.2	0.1	0.5	*	2.5	1.4	6.0	2.7	6.5	3.6	10.5	5.4	17.9	11.6	38.1	35.7	17.8	39.5	100.0	100.0	
Okla.	-	-	-	-	0.1	-	0.1	-	0.4	-	0.9	0.5	5.5	45.8	84.9	53.6	8.2	100.0	100.0	100.0	
Tex.	0.1	0.1	*	0.2	0.2	0.2	0.1	0.3	0.2	0.5	0.4	1.0	2.5	9.0	66.4	85.1	30.1	3.6	100.0	100.0	
N. Mex.	-	-	-	-	-	-	-	-	0.6	-	0.6	-	4.8	11.5	51.5	55.1	42.5	33.4	100.0	100.0	
Ariz.	-	-	-	-	0.1	-	0.2	-	0.7	-	1.4	-	5.3	-	63.3	62.5	29.0	37.5	100.0	100.0	
Calif.	-	-	-	-	-	-	-	-	-	-	0.6	-	0.6	-	46.7	-	52.1	-	100.0	-	
All other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0	63.7	-	36.3	100.0	100.0	
U. S.	0.1	0.4	0.1	0.4	0.8	1.8	1.4	2.1	1.5	1.6	2.9	2.5	7.1	6.0	58.2	59.5	27.9	25.7	100.0	100.0	

* Less than 0.05 percent.

Table 6. Percentage distribution of grades by specified frequencies, by states and United States, 1970 and 1971

State	Grade 1/																					
	Below grade 00.0-39.9		40.0-74.9		75.0-79.9		80.0-84.9		85.0-89.9		90.0-94.9		95.0-99.9		100.0		105.0		110.0 and over		Total	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Va.	-	10.0	-	50.0	-	15.0	-	10.0	4.2	10.0	4.2	5.0	12.5	-	54.1	-	20.8	-	4.2	-	100.0	100.0
N.C.	-	2.7	1.1	25.1	0.3	11.7	0.7	8.4	1.2	9.2	3.9	8.6	12.4	14.0	45.9	14.1	34.3	5.8	0.2	0.4	100.0	100.0
S.C.	-	2.5	3.4	16.3	2.1	4.5	3.2	6.8	7.1	8.9	11.1	11.0	15.5	13.6	24.2	21.9	32.0	14.3	1.4	0.2	100.0	100.0
Ga.	0.2	1.9	2.1	9.7	1.2	4.2	2.2	4.2	4.0	7.7	9.0	10.8	16.3	18.0	30.6	25.9	30.0	17.0	4.4	0.6	100.0	100.0
Fla.	-	-	27.5	4.3	12.5	2.1	12.5	2.1	2.5	21.2	7.5	10.6	17.5	12.8	17.5	42.6	2.5	4.3	-	-	100.0	100.0
Ala.	0.2	0.2	4.2	2.2	2.2	0.8	2.5	1.4	5.4	3.3	11.5	10.1	28.4	29.5	36.9	40.5	8.3	11.6	0.4	0.4	100.0	100.0
Miss.	*	0.9	0.4	0.8	0.3	1.4	1.1	1.1	4.9	3.1	16.9	11.6	43.3	35.0	29.0	42.8	2.7	5.6	0.1	0.1	100.0	100.0
Tenn.	-	0.1	0.2	0.4	0.3	0.1	0.6	0.3	2.3	1.9	15.3	13.0	48.1	37.2	30.7	41.9	2.5	5.1	-	-	100.0	100.0
Mo.	-	-	0.4	0.6	0.2	0.3	1.1	0.6	7.1	3.2	34.4	22.2	45.7	49.6	10.6	22.1	0.4	1.2	0.1	0.2	100.0	100.0
Ark.	-	-	0.5	0.5	0.4	0.2	1.1	0.6	4.1	2.7	17.8	15.1	43.8	40.9	29.3	36.2	3.0	3.7	*	0.1	100.0	100.0
La.	0.3	0.1	7.8	3.5	5.7	3.1	7.9	4.9	15.4	7.8	24.1	17.6	27.4	33.4	11.0	26.7	0.4	2.9	-	-	100.0	100.0
Okla.	-	-	0.1	0.1	-	0.3	-	0.7	0.6	4.5	5.3	27.4	41.5	50.3	49.0	16.0	3.4	0.7	0.1	-	100.0	100.0
Tex.	0.1	0.2	0.5	1.6	0.5	2.8	1.1	7.2	2.8	20.0	9.2	31.4	22.6	28.4	40.0	7.9	22.3	0.5	0.9	*	100.0	100.0
N. Mex.	-	-	0.6	-	0.6	1.1	-	1.1	3.6	11.5	7.9	15.5	12.7	22.9	21.8	23.5	35.2	23.8	17.6	0.6	100.0	100.0
Ariz.	-	-	0.1	-	0.6	-	1.2	-	2.9	-	7.0	-	12.9	-	27.6	37.5	42.6	62.5	5.1	-	100.0	100.0
Calif.	-	-	-	-	0.6	-	9.0	-	10.9	-	12.2	-	23.8	-	28.1	-	15.4	-	-	-	100.0	-
All other	-	-	-	-	-	-	-	-	-	-	10.0	-	80.0	36.4	10.0	54.5	-	9.1	-	-	100.0	100.0
U. S.	0.1	0.4	1.5	2.9	1.1	1.7	1.9	3.0	4.8	7.2	14.5	17.0	33.0	32.8	30.8	29.5	11.6	5.4	0.7	0.1	100.0	100.0

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

Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1970 and 1971

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.	
Va.	-	-	-	-	-	-	-	-	4.2	-	-	12.5	5.0	49.9	70.0	20.9	10.0	-	-	100.0	100.0		
N.C.	-	0.1	0.4	0.3	0.1	0.7	1.2	2.1	2.1	4.0	6.5	13.5	14.2	24.8	22.2	48.9	39.6	5.4	11.8	0.2	1.9	100.0	
S.C.	-	-	-	0.1	0.2	1.3	0.5	2.2	0.6	7.0	3.3	19.0	11.9	31.4	20.4	36.1	47.8	2.9	13.5	-	1.8	100.0	
Ga.	0.1	0.1	-	0.3	0.1	0.8	0.2	1.1	0.8	4.5	3.8	11.3	9.7	24.2	20.4	44.0	52.4	13.1	12.0	0.6	0.5	100.0	
Fla.	-	-	2.5	-	2.5	-	2.1	2.5	4.3	5.0	4.3	15.0	10.6	17.5	27.7	50.0	48.9	5.0	2.1	-	-	100.0	
Ala.	-	0.3	0.6	0.8	0.7	4.2	2.2	9.5	6.8	22.0	13.6	26.3	22.0	19.9	27.3	15.9	23.8	1.1	2.9	-	0.1	100.0	
Miss.	0.5	1.7	3.1	5.6	5.5	5.1	14.0	7.5	24.4	14.7	25.0	20.5	16.1	21.7	8.3	14.5	3.0	8.4	0.1	0.3	-	100.0	
Tenn.	0.1	0.2	0.4	0.8	0.8	0.8	3.3	3.7	11.6	13.4	25.8	23.2	31.5	29.3	19.0	19.5	7.4	8.8	0.1	0.3	-	100.0	
Mo.	0.2	0.4	3.2	2.9	7.7	7.0	17.0	16.6	26.9	26.8	26.6	25.7	13.2	14.3	3.6	4.3	1.5	1.6	0.1	0.3	-	0.1	100.0
Ark.	0.3	0.9	1.9	2.9	4.8	5.5	11.2	13.8	20.0	19.3	23.6	23.4	20.7	18.9	11.8	10.2	5.6	4.8	0.1	0.3	*	100.0	
La.	0.8	2.3	6.5	5.5	13.6	5.9	22.9	12.4	24.7	16.9	18.0	21.7	8.6	18.4	3.7	10.7	1.2	6.0	-	0.2	-	100.0	
Okla.	0.7	0.4	2.7	5.7	8.9	11.0	16.9	17.0	27.3	27.9	26.3	20.0	10.1	11.9	4.5	4.2	2.5	1.9	0.1	-	-	100.0	
Tex.	2.0	6.3	5.5	12.9	5.6	14.6	7.2	16.4	9.8	19.5	12.8	16.6	18.9	9.2	20.1	3.2	17.0	1.3	1.0	*	0.1	100.0	
N. Mex.	0.6	1.7	0.6	1.1	3.6	2.9	3.0	6.9	3.6	13.2	10.9	19.1	12.7	17.2	11.5	18.4	29.9	17.8	21.2	1.1	2.4	0.6	100.0
Ariz.	0.2	-	2.8	-	3.6	-	7.2	-	8.4	12.5	10.0	-	16.8	-	23.0	25.0	25.3	62.5	2.4	-	0.3	-	100.0
Calif.	13.5	-	15.4	-	3.8	-	10.3	-	12.8	-	14.7	-	12.2	-	12.2	-	5.1	-	-	-	-	-	100.0
All other	-	-	-	-	10.0	-	9.1	10.0	-	20.0	9.1	60.0	27.3	-	18.2	-	36.3	-	-	-	-	-	100.0
U. S.	0.7	1.9	3.0	4.9	4.9	5.9	9.9	9.7	15.9	14.9	18.8	18.0	18.1	17.3	14.6	12.9	12.6	12.3	1.4	2.0	0.1	0.2	100.0

* Less than 0.05 percent.

Table 10. Percentage distribution of ammonia by specified frequencies, by states and United States, 1970 and 1971

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 and over		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.	-	-	-	-	-	-	4.2	-	20.8	-	45.8	5.0	8.3	45.0	12.5	25.0	4.2	25.0	4.2	-	100.0	100.0
N.C.	-	-	-	-	0.1	-	1.3	0.4	7.2	3.4	19.9	11.0	18.3	24.1	18.8	32.2	19.7	20.5	14.7	8.4	100.0	100.0
S.C.	-	-	-	-	-	-	0.1	0.1	0.1	1.5	0.1	10.4	1.8	27.3	8.9	31.5	24.4	21.9	64.6	7.3	100.0	100.0
Ga.	-	0.1	-	0.1	-	-	0.1	0.2	0.3	2.2	3.5	9.4	14.4	21.6	27.4	34.2	26.3	24.3	28.0	7.9	100.0	100.0
Fla.	-	-	-	-	-	-	2.5	-	-	-	20.0	17.0	42.5	61.7	27.5	21.3	2.5	-	5.0	-	100.0	100.0
Ala.	-	-	-	-	0.4	-	0.1	1.2	1.6	6.3	10.8	25.6	28.1	36.0	34.4	21.4	19.2	7.1	5.8	2.0	100.0	100.0
Miss.	-	-	-	-	-	0.1	0.1	0.7	1.4	5.4	9.5	17.5	24.9	31.3	35.1	30.2	21.7	12.6	7.3	2.2	100.0	100.0
Tenn.	-	-	-	-	-	0.2	0.9	1.0	7.2	9.0	31.2	33.4	38.0	38.2	18.6	15.6	3.6	2.5	0.5	0.1	100.0	100.0
Mo.	-	-	-	0.1	0.1	-	0.5	0.4	5.8	7.2	23.5	24.4	39.4	38.2	22.7	22.9	7.4	6.0	0.6	0.8	100.0	100.0
Ark.	-	-	-	-	0.1	-	0.4	0.5	4.1	6.1	21.7	24.1	37.9	38.2	26.3	24.4	7.4	6.1	2.1	0.6	100.0	100.0
La.	0.1	-	0.1	0.1	0.1	0.1	0.6	1.3	3.1	7.4	12.9	19.3	24.4	28.4	28.4	28.2	22.5	12.5	8.0	2.7	100.0	100.0
Okla.	-	-	-	-	-	-	-	-	-	-	1.9	0.4	2.4	3.1	5.2	20.7	26.2	43.6	64.3	32.2	100.0	100.0
Tex.	0.1	-	-	0.1	0.1	0.1	0.1	0.1	0.3	0.9	1.9	4.8	9.0	15.8	29.6	32.2	35.1	30.8	24.0	15.3	100.0	100.0
N. Mex.	-	-	-	-	-	-	0.6	-	0.6	-	4.8	5.2	23.0	16.1	32.8	35.5	30.9	34.5	8.5	7.5	100.0	100.0
Ariz.	-	-	-	-	-	-	-	-	0.1	-	1.1	-	4.9	12.5	20.5	25.0	47.1	25.0	26.3	37.5	100.0	100.0
Calif.	-	-	-	-	-	-	-	-	0.6	-	5.1	-	7.7	-	13.5	-	26.3	-	46.8	-	100.0	-
All other	-	-	-	-	-	-	-	-	30.0	-	40.0	54.5	30.0	27.3	-	9.1	-	9.1	-	-	100.0	100.0
U. S.	0.1	-	0.1	0.3	0.6	2.3	4.7	11.4	17.1	22.6	29.1	27.7	27.5	21.6	15.4	14.1	5.5	100.0	100.0	100.0	100.0	100.0

* Less than 0.05 percent.

Table 11. Percentage distribution of linters by specified frequencies, by states and United States, 1970 and 1971

State	Linters														Total					
	Under 7.0		7.0-8.9		9.0-9.9		10.0-10.9		11.0-11.9		12.0-12.9		13.0-13.9		14.0-15.9		16.0 and over			
	1970	Pct.	1971	Pct.	1970	Pct.	1971	Pct.	1970	Pct.	1971	Pct.	1970	Pct.	1971	Pct.	1970	Pct.		
Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fla.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ala.	-	-	-	-	1.4	1.6	20.5	27.5	42.4	49.1	29.2	19.5	6.3	2.3	0.2	-	-	-	100.0	100.0
Miss.	0.1	*	0.1	*	2.9	1.1	26.3	18.1	45.9	47.7	21.8	28.1	2.8	4.6	0.1	0.4	-	-	100.0	100.0
Tenn.	-	-	0.5	0.1	4.9	1.2	46.4	28.4	37.9	48.9	9.2	18.9	1.1	2.5	-	-	-	-	100.0	100.0
Mo.	0.1	0.2	0.2	0.2	5.7	1.3	34.1	19.4	40.4	48.6	16.8	26.2	2.5	4.0	0.2	0.1	-	-	100.0	100.0
Ark.	*	0.2	0.8	0.1	5.1	1.5	34.3	24.7	41.4	41.2	16.0	25.5	2.3	6.5	0.1	0.3	-	*	100.0	100.0
Ia.	*	-	0.7	0.1	9.9	6.1	34.2	34.7	37.9	37.5	14.9	18.2	2.2	3.0	0.2	0.4	-	*	100.0	100.0
Okla.	-	-	1.7	10.5	7.0	30.4	26.4	42.2	37.1	13.0	23.8	3.3	3.7	0.3	0.3	-	-	-	100.0	100.0
Tex.	0.3	7.4	4.4	30.5	9.2	25.1	21.0	22.3	32.9	10.9	22.8	3.2	7.9	0.5	1.5	0.1	-	-	100.0	100.0
N. Mex.	1.2	9.2	2.4	12.6	8.5	8.0	25.5	21.8	33.9	35.7	21.2	12.1	6.7	0.6	0.6	-	-	-	100.0	100.0
Ariz.	0.3	-	-	-	0.4	-	5.4	25.0	28.1	12.5	43.3	50.0	19.7	12.5	2.7	-	0.1	-	100.0	100.0
Calif.	-	-	-	-	5.7	-	28.6	-	20.0	-	37.1	-	5.7	-	2.9	-	-	-	100.0	-
All other	-	-	-	-	-	-	50.0	36.4	20.0	45.4	20.0	18.2	10.0	-	-	-	-	-	100.0	100.0
U. S.	0.1	1.7	1.4	7.0	5.6	7.7	27.7	24.1	39.2	36.7	20.7	19.1	4.7	3.5	0.6	0.2	*	*	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, 1970

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
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Va.	70.9	29.1	-	-	-	4.2	20.8	29.2	16.7	29.1	-	-	-	100.0
N.C.	79.4	20.6	-	-	-	3.5	18.7	28.6	28.6	18.2	2.3	0.1	-	100.0
S.C.	68.5	31.5	-	-	-	1.0	14.9	26.1	26.5	28.5	2.7	0.3	-	100.0
Ga.	70.2	29.7	0.1	-	0.1	6.8	16.2	24.7	22.4	25.7	3.5	0.4	0.1	100.0
Fla.	57.5	42.5	-	-	-	-	2.5	20.0	35.0	22.5	20.0	-	-	100.0
Ala.	55.6	44.4	-	-	-	2.8	8.7	18.5	25.6	35.0	8.4	0.9	0.1	100.0
Miss.	63.9	36.1	*	-	-	2.0	10.2	23.6	28.1	30.3	5.1	0.6	0.1	100.0
Tenn.	24.2	75.8	-	-	-	0.3	0.9	6.1	16.9	51.1	22.6	2.0	0.1	100.0
Mo.	19.0	80.9	0.1	-	-	0.2	1.3	4.3	13.2	49.8	27.4	3.2	0.5	100.0
Ark.	49.5	50.5	*	-	-	1.1	5.7	17.0	25.7	39.7	9.9	0.7	0.2	100.0
Ia.	48.1	51.9	*	-	-	0.4	6.0	16.5	25.2	37.6	12.7	1.4	0.2	100.0
Okla.	99.2	0.8	-	-	-	2.2	74.4	14.6	5.8	2.2	0.7	0.1	-	100.0
Tex.	97.8	2.2	-	*	36.3	47.1	6.9	5.5	2.0	1.7	0.4	0.1	*	100.0
N. Mex.	100.0	-	-	-	60.0	35.8	4.2	-	-	-	-	-	-	100.0
Ariz.	99.9	0.1	-	1.8	69.2	25.8	2.3	0.5	0.3	0.1	-	-	-	100.0
Calif.	83.4	16.6	-	1.3	31.4	32.7	4.5	7.1	6.4	10.9	5.7	-	-	100.0
All other	10.0	90.0	-	-	-	-	-	-	10.0	60.0	30.0	-	-	100.0
U. S.	65.9	34.1	*	0.1	10.3	13.8	7.9	15.1	18.7	26.2	7.1	0.7	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, 1971

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.	
Va.	70.0	30.0	-	-	-	-	5.0	25.0	40.0	20.0	10.0	-	-	-	100.0
N.C.	56.2	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	
La.	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	0.6	-	-	100.0	
Ariz.	100.0	-	-	-	100.0	-	-	-	-	-	-	-	-	100.0	
All other	36.4	63.6	-	-	-	-	18.2	18.2	45.4	18.2	-	-	-	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 14. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1970

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.	79.2	20.8	-	25.1	33.3	12.5	8.3	12.5	8.3	-	-	-	-	-	-	100.0
N.C.	80.5	19.4	0.1	17.3	40.3	16.5	6.4	10.2	5.6	2.0	0.7	0.8	0.1	0.1	0.1	100.0
S.C.	40.7	58.4	0.9	2.5	16.1	12.6	9.5	20.4	22.2	9.5	3.2	2.4	0.7	0.9	0.9	100.0
Ga.	41.5	57.9	0.6	0.4	9.0	15.9	16.2	25.3	22.5	6.1	2.5	0.9	0.6	0.6	0.6	100.0
Fla.	2.5	95.0	2.5	-	2.5	-	-	30.0	12.5	10.0	22.5	15.0	5.0	2.5	2.5	100.0
Ala.	60.7	38.2	1.1	15.9	20.6	14.6	9.6	14.2	12.7	5.3	3.4	1.9	0.7	1.1	1.1	100.0
Miss.	70.3	29.5	0.2	12.6	17.4	21.2	19.1	19.1	7.5	1.8	0.7	0.3	0.1	0.2	0.2	100.0
Tenn.	85.2	14.7	0.1	16.4	23.6	26.9	18.3	11.8	2.0	0.5	0.3	0.1	-	0.1	0.1	100.0
Mo.	76.1	23.9	-	15.4	19.0	22.6	19.1	19.4	3.9	0.4	0.1	0.1	-	-	-	100.0
Ark.	78.6	21.4	-	16.0	27.0	18.5	17.1	15.6	4.3	1.0	0.3	0.2	*	-	-	100.0
La.	37.4	61.6	1.0	1.4	10.6	14.3	11.1	20.0	24.5	9.9	4.5	2.2	0.5	1.0	1.0	100.0
Okla.	98.7	1.3	-	23.3	70.2	4.2	1.0	1.0	0.2	-	0.1	-	-	-	-	100.0
Tex.	97.8	2.1	0.1	48.3	42.9	5.4	1.2	1.3	0.7	0.1	*	*	*	0.1	0.1	100.0
N. Mex.	100.0	-	-	57.0	42.4	-	0.6	-	-	-	-	-	-	-	-	100.0
Ariz.	92.9	7.1	-	27.7	49.9	10.7	4.6	3.9	2.6	0.5	0.1	-	-	-	-	100.0
Calif.	97.4	2.6	-	75.0	18.6	3.2	0.6	1.3	1.3	-	-	-	-	-	-	100.0
All other	100.0	-	-	20.0	20.0	50.0	10.0	-	-	-	-	-	-	-	-	100.0
U.S.	74.9	24.8	0.3	20.6	27.0	15.4	11.9	13.1	7.4	2.4	1.1	0.6	0.2	0.3	0.3	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, 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.
Va.	-	80.0	20.0	-	-	-	-	5.0	-	15.0	15.0	15.0	30.0	20.0	100.0
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
La.	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
Ariz.	100.0	-	-	50.0	25.0	25.0	-	-	-	-	-	-	-	-	100.0
All other	100.0	-	-	27.3	63.6	-	9.1	-	-	-	-	-	-	-	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 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1970

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.
Va.	70.8	29.2	-	20.8	50.0	25.0	4.2	-	-	-	-	-	-
N.C.	72.0	28.0	-	30.7	41.3	22.7	5.0	0.2	-	0.1	-	-	-
S.C.	71.3	28.7	-	34.0	37.3	23.6	4.1	0.9	0.1	-	-	-	-
Ga.	78.5	21.5	-	33.8	44.7	20.2	1.0	0.1	-	0.1	0.1	-	-
Fla.	47.5	52.5	-	27.5	20.0	47.5	5.0	-	-	-	-	-	-
Ala.	48.8	51.2	-	22.6	26.2	39.4	9.0	2.4	0.4	*	-	-	-
Miss.	62.0	38.0	-	22.3	39.7	31.2	5.2	1.1	0.4	0.1	-	-	-
Tenn.	46.3	53.7	-	16.2	30.1	39.5	10.2	2.3	1.5	0.1	0.1	-	-
Mo.	55.9	43.9	0.2	15.6	40.3	34.0	6.5	2.4	0.6	0.2	0.2	-	0.2
Ark.	67.4	32.5	0.1	23.2	44.2	23.7	6.2	1.5	0.7	0.1	0.2	0.1	0.1
La.	90.8	9.2	-	45.8	45.0	8.1	0.9	0.2	*	-	-	-	-
Okla.	54.5	45.5	-	20.3	34.2	33.1	8.3	3.0	0.4	0.7	-	-	-
Tex.	31.7	67.7	0.6	7.5	24.2	38.8	16.3	6.2	4.0	1.5	0.6	0.3	0.6
N. Mex.	41.9	56.9	1.2	17.7	24.2	24.2	12.1	7.3	8.5	1.8	1.2	1.8	1.2
Ariz.	28.9	70.5	0.6	8.9	20.0	31.1	18.2	8.2	8.2	3.6	0.8	0.4	0.6
Calif.	55.7	44.3	-	20.5	35.2	39.8	3.2	1.3	-	-	-	-	-
All other	50.0	50.0	-	20.0	30.0	30.0	20.0	-	-	-	-	-	-
U.S.	56.4	43.4	0.2	21.1	35.3	30.2	8.3	2.6	1.5	0.5	0.2	0.1	0.2

* Less than 0.05 percent.

Table 17. 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	10.1 and over
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		Pct.	Pct.
Va.	40.0	60.0	-	5.0	35.0	55.0	5.0	-	-	-	-	-	-	100.0
N.C.	54.2	45.8	-	19.5	34.7	33.5	8.6	2.1	1.0	0.4	0.1	0.1	-	100.0
S.C.	45.9	54.1	-	16.7	29.2	37.6	11.2	3.6	1.5	0.1	-	0.1	-	100.0
Ga.	69.1	30.9	-	18.9	50.2	28.8	1.8	0.2	0.1	-	-	-	-	100.0
Fla.	87.3	12.7	-	44.7	42.6	10.6	-	-	2.1	-	-	-	-	100.0
Ala.	45.4	54.6	-	13.7	31.7	42.0	10.5	1.5	0.6	-	-	-	-	100.0
Miss.	59.7	40.3	*	19.6	40.1	31.0	7.0	1.7	0.5	0.1	*	*	*	100.0
Tenn.	45.8	54.2	-	12.6	33.2	40.2	10.1	2.7	1.0	0.1	0.1	-	-	100.0
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	100.0
Ark.	68.5	31.3	0.2	20.9	47.6	24.2	4.7	1.5	0.7	0.2	*	*	0.2	100.0
La.	89.9	10.1	-	58.7	31.2	8.6	1.1	0.2	0.2	-	-	-	-	100.0
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	100.0
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	100.0
N. Mex.	33.9	66.1	-	9.2	24.7	17.8	16.7	5.7	10.9	7.5	4.6	2.9	-	100.0
Ariz.	37.5	62.5	-	12.5	25.0	12.5	25.0	12.5	12.5	-	-	-	-	100.0
All other	81.8	18.2	-	27.3	54.5	18.2	-	-	-	-	-	-	-	100.0
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	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, 1970 and 1971

State	Prime		Quality				Reduced due to excess							
	Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acids		Foreign matter			
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971		
Va.	22	-	26	36	-	4	48	40	14	12	10	40	14	24
N.C.	964	122	842	1,492	-	44	1,806	1,658	372	694	352	1,372	506	758
S.C.	528	260	1,218	1,852	-	56	1,746	2,168	550	834	1,034	1,448	502	1,174
Ga.	680	372	2,080	3,064	6	66	2,766	3,502	826	1,290	1,620	2,520	596	1,084
Fla.	2	10	78	84	-	-	80	94	34	46	78	76	42	12
Ala.	806	730	3,558	3,946	8	12	4,372	4,688	1,942	2,432	1,716	1,156	2,242	2,560
Miss.	4,330	4,692	9,006	7,514	6	2	13,342	12,208	4,824	4,156	3,952	636	5,076	4,926
Tenn.	354	808	3,264	3,094	-	2	3,618	3,904	2,742	2,070	538	78	1,946	2,118
Mo.	116	722	2,104	2,070	-	-	2,220	2,792	1,798	1,358	532	46	980	1,116
Ark.	2,942	4,884	6,634	5,228	-	-	9,576	10,112	4,834	3,028	2,044	190	3,122	3,198
La.	762	1,764	3,474	2,718	10	6	4,246	4,488	2,208	1,722	2,660	1,808	392	458
Okla.	720	110	626	1,230	-	-	1,346	1,340	12	260	20	70	612	1,182
Tex.	3,654	362	8,494	10,186	8	12	12,156	10,580	272	324	288	424	8,300	10,080
N. Mex.	140	116	190	232	-	-	330	348	-	4	-	-	192	230
Ariz.	618	6	1,516	10	-	-	2,134	16	2	-	150	-	1,518	10
Calif.	162	-	150	-	-	-	312	-	52	-	8	-	138	-
All other	-	8	20	14	-	-	20	22	18	14	-	-	10	4

U. S. 16,800 14,986 43,280 42,770 38 204 60,118 57,960 20,500 18,264 15,002 9,864 26,188 20,024