

AUG 5 1974

# COTTONSEED QUALITY

## CROP OF 1973



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Cottonseed Quality - 1973 Crop

The quality of cottonseed from the 1973 crop was the best since 1970. The average grade of seed this year was 98.0 compared with 94.0 last year and 95.5 two years ago. Cottonseed from the 1973 crop contained more oil than any crop since 1968. Ammonia content of seed was the highest in four years. The percentage of moisture and foreign matter was the lowest in three years while the percent of free fatty acids was the lowest since the 1969 crop.

Data from grade certificates covering 62,500 samples of cottonseed were used to compile the information included in this report. Averages of cottonseed quality factors and grades are shown by states, districts, months and by specified frequencies. Average quality factors of cottonseed are shown by states in Table 3. These averages as well as 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 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,  
1950-1973

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
1972	17.3	3.92	1/	11.9	1.6	1.6	97.67	95.7	94.0	71,210
1973	18.0	3.94	1/	11.0	1.3	1.4	100.81	96.7	98.0	62,504

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	Oil		NH <sub>3</sub> 8/			Sum of pro- ducts	Adjust- ment factors	Quan- tity index
	Total reduc- tion	Pct.	Total reduc- tion	Pct.	Total reduc- tion	Pct.			Total duct 7/	Pct.	Total duct 7/	Pct.				
1	0.5	0.0	0.3	0.0	0.0	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	0.0	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	0.0	0.0	0.0	100.0	16.2	64.8	3.97	23.82	88.62	+5	93.62	93.5
4	1.9	0.4	1.0	0.0	0.0	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	0.0	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	0.0	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	0.1	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	0.0	0.0	5.0	95.0	24.7	98.8	4.15	24.90	123.70	-10	113.70	108.0 AP
<u>BELOW PRIME QUALITY SEED</u>																
9	12.5	42.8	0.7	0.0	0.0	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	0.0	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	8.1	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	0.0	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	0.0	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	3.6	3.6	58.2	41.8	17.0	68.0	3.41	20.46	88.46	+5	93.46	EG*
15	17.5	62.8	0.5	0.0	2.1	2.1	64.9	35.1	19.5	78.0	3.94	23.64	101.64	+5	106.64	EG*

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

2/ Example "g", 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, 1972 and 1973

State	Cottonseed analysis														Average index				Average grade	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.	No.				
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973						
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.										
N. C.	19.1	19.0	3.99	3.99	11.4	10.0	1.5	0.7	1.3	1.4	105.34	105.03	97.7	99.1	103.5	104.5				
S. C.	18.8	19.2	4.16	4.07	11.2	10.6	1.4	1.5	1.3	1.2	105.16	106.52	97.1	97.9	102.5	104.5				
Ga.	18.5	18.9	4.23	4.08	10.5	10.6	1.1	1.9	0.8	1.0	104.49	105.05	98.2	97.3	103.0	102.5				
Fla.	18.1	18.6	4.14	3.73	11.5	11.9	1.2	3.2	0.8	1.2	102.02	101.96	96.5	91.3	99.5	94.5				
Ala.	17.5	18.2	3.93	3.93	12.9	11.9	2.1	1.5	1.4	1.5	98.62	101.46	93.8	96.6	93.0	98.5				
Miss.	17.0	17.5	3.92	3.89	12.6	12.4	1.5	1.1	1.1	1.0	96.48	98.01	96.4	97.9	93.0	96.5				
Tenn.	17.3	17.6	3.72	3.76	13.7	13.1	2.2	0.9	1.5	1.4	96.22	97.57	93.3	97.8	90.0	96.0				
Mo.	17.0	16.5	3.71	3.73	14.0	13.2	1.8	1.0	1.4	1.3	95.16	93.40	94.7	97.0	90.0	91.0				
Ark.	16.7	16.9	3.91	3.81	13.2	13.3	2.1	1.1	1.2	1.0	94.95	95.44	93.8	97.4	89.5	93.5				
La.	17.0	17.6	3.94	3.83	12.7	12.8	3.1	4.0	0.8	0.8	96.32	98.56	91.1	88.1	88.5	87.5				
Okla.	17.7	18.6	4.21	4.10	10.2	9.5	0.7	0.6	1.8	1.7	101.18	103.86	98.8	98.8	100.0	103.0				
Tex.	17.4	18.8	3.91	4.07	9.7	8.4	0.8	1.1	2.9	2.1	98.25	104.71	97.6	96.7	96.0	102.0				
N. Mex.	19.1	19.3	3.88	4.00	9.2	7.3	0.6	0.4	2.1	2.3	104.65	100.36	98.6	98.7	103.5	105.0				
All other	19.1	18.9	3.78	4.06	12.0	9.9	2.1	1.0	1.4	1.2	104.57	105.02	96.3	99.1	101.0	104.5				
U. S.	17.3	18.0	3.92	3.94	11.9	11.0	1.6	1.3	1.6	1.4	97.67	100.81	95.7	96.7	94.0	98.0				

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Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1972 and 1973

NORTH CAROLINA

Month	Cottonseed analysis												Average Index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality							
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	No.	No.		
Sept.	19.5	18.5	4.22	4.08	10.1	10.6	9.6	2.1	0.9	0.7	108.75	103.64	43.7	95.2	77.0	99.0	4	22		
Oct.	18.7	19.0	4.08	3.97	11.4	10.5	0.9	0.6	0.6	0.6	104.39	104.91	99.0	99.6	103.5	105.0	172	652		
Nov.	19.1	19.0	3.99	3.97	11.6	9.5	1.0	0.6	1.2	1.6	105.36	104.90	99.0	99.3	104.5	104.5	610	610		
Dec.	19.1	19.0	3.95	4.04	11.4	9.7	1.2	0.8	1.5	2.0	105.38	105.36	99.1	98.6	104.5	104.0	370	202		
Jan.	18.9	18.6	4.00	4.12	11.5	11.4	1.6	0.6	1.9	1.9	104.43	104.00	97.7	98.7	103.0	102.5	90	46		
Feb.	19.3	19.2	4.02	4.01	10.9	10.4	2.2	1.5	1.6	1.9	106.30	106.68	96.4	98.4	102.5	105.0	40	14		
Mar.-July	19.4	19.6	4.03	4.18	10.4	9.7	4.7	2.7	2.3	1.6	106.68	108.82	86.8	92.2	93.0	100.0	120	38		

Season	19.1	19.0	3.99	3.99	11.4	10.0	1.5	0.7	1.3	1.4	105.34	105.03	97.7	99.1	103.5	104.5	1,406	1,584
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SOUTH CAROLINA

Sept.	18.8	18.8	4.26	4.11	11.9	12.0	1.3	1.9	0.6	1.3	106.25	104.68	97.9	96.5	104.0	101.0	46	50
Oct.	19.0	19.1	4.19	4.02	11.2	11.4	0.7	1.1	0.7	0.8	106.25	105.95	99.3	99.1	105.0	105.0	542	618
Nov.	18.8	19.3	4.13	4.06	11.5	10.1	0.6	1.1	1.3	1.4	104.97	106.62	99.3	99.1	104.5	106.0	606	532
Dec.	18.5	19.4	4.09	4.07	11.8	10.0	0.7	1.4	1.7	1.5	103.55	106.96	98.8	98.8	102.5	106.0	308	288
Jan.	18.7	19.1	4.14	4.08	11.3	11.2	1.6	1.6	1.4	1.3	104.50	106.04	98.1	97.9	103.0	104.0	184	180
Feb.	18.7	19.3	4.19	4.13	10.8	10.6	2.4	2.3	1.5	1.4	104.67	106.88	95.3	96.1	100.0	103.0	122	194
Mar.-July	18.9	19.4	4.19	4.19	10.5	9.6	3.8	3.3	1.8	1.6	105.57	107.97	89.3	92.2	95.0	100.0	392	192

Season	18.8	19.2	4.16	4.07	11.2	10.6	1.4	1.5	1.3	1.2	105.16	106.52	97.1	97.9	102.5	104.5	2,200	2,054
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GEORGIA

Sept.	18.7	18.5	4.33	4.09	8.5	11.4	1.0	1.1	0.7	1.0	105.92	103.79	99.0	98.9	105.0	103.0	416	70
Oct.	18.6	18.9	4.30	4.10	9.4	10.2	0.6	1.5	0.7	0.8	105.55	105.34	99.8	98.9	105.5	104.5	1,128	972
Nov.	18.3	18.9	4.13	4.09	12.1	10.7	0.7	1.6	0.9	1.0	103.01	105.15	99.0	98.5	102.5	104.0	540	850
Dec.	18.1	18.9	4.05	4.04	13.2	11.0	1.3	2.0	0.9	1.0	101.39	104.75	97.4	97.8	99.0	102.5	266	360
Jan.	18.5	18.8	4.12	4.00	12.0	11.5	2.3	2.6	1.0	1.1	103.66	104.28	94.2	95.6	100.0	100.0	118	212
Feb.	18.5	18.8	4.15	4.09	11.8	11.2	3.3	4.1	1.3	1.1	103.92	104.92	91.0	90.5	95.5	95.0	94	154
Mar.-July	18.6	18.9	4.15	4.15	11.1	10.0	4.4	4.5	1.3	1.3	104.36	105.28	88.1	86.0	92.5	91.5	120	120

Season	18.5	18.9	4.23	4.08	10.5	10.6	1.1	1.9	0.8	1.0	104.49	105.05	98.2	97.3	103.0	102.5	2,682	2,738
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Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1972 and 1973 (Continued)

FLORIDA

Month	Cottonseed analysis												Average index				Average grade		Samples			
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1972		1973		No.		No.	
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973
Sept.	18.3	-	4.09	-	10.2	-	0.8	-	0.5	-	102.97	-	100.0	-	103.0	-	16	-				
Oct.	18.4	19.1	4.16	3.75	10.5	11.2	0.5	2.9	0.6	0.5	103.67	104.03	99.9	96.6	104.0	100.0	42	16				
Nov.	17.7	18.9	4.10	3.69	13.6	11.9	0.9	2.8	1.0	0.9	99.66	102.73	97.8	94.6	98.5	97.0	22	26				
Dec.	17.9	18.7	4.07	3.79	13.2	12.3	1.5	1.6	1.1	1.4	100.92	102.50	97.8	98.8	98.5	101.5	6	20				
Jan.	18.2	18.7	4.37	3.67	12.6	11.9	1.7	2.9	0.7	1.3	104.50	101.83	99.5	93.5	104.5	95.0	2	6				
Feb.	16.1	16.3	4.22	3.62	12.6	13.6	10.6	6.7	2.7	3.1	94.38	91.88	36.2	76.8	47.5	71.0	4	4				
Mar.-July	-	17.2	-	3.77	-	11.6	-	13.2	-	3.1	-	96.25	-	22.5	-	47.5	-	4	-			
Season	18.1	18.6	4.14	3.73	11.5	11.9	1.2	3.2	0.8	1.2	102.02	101.96	96.5	91.3	99.5	94.5	92	76				

ALABAMA

Sept.	17.9	16.9	4.08	3.99	11.1	12.1	1.0	4.7	0.8	1.9	100.97	96.81	97.4	81.2	99.0	81.0	284	18				
Oct.	17.8	18.0	4.02	3.96	12.2	11.7	0.7	1.2	1.0	1.1	100.27	100.64	98.9	97.6	99.5	99.0	1,522	958				
Nov.	17.3	18.3	3.87	3.92	14.2	12.2	1.4	0.9	1.4	1.4	97.19	101.79	96.4	98.6	94.0	100.5	1,208	1,132				
Dec.	17.0	18.5	3.81	3.91	14.5	11.8	2.1	1.3	1.6	1.9	95.62	102.56	94.5	98.0	91.0	100.5	686	558				
Jan.	17.4	18.1	3.86	3.89	13.0	12.4	3.8	1.9	1.7	1.9	97.41	100.94	89.8	96.2	87.0	97.5	280	310				
Feb.	17.9	18.2	3.93	3.91	12.0	12.1	5.0	3.4	2.0	2.0	99.90	101.38	85.5	90.5	84.5	91.5	198	188				
Mar.-July	17.6	18.2	3.95	3.98	11.3	11.3	7.0	4.3	2.0	2.2	99.73	101.68	74.2	86.3	75.5	88.5	498	234				
Season	17.5	18.2	3.93	3.93	12.9	11.9	2.1	1.5	1.4	1.5	98.62	101.46	93.8	96.6	93.0	98.5	4,676	3,398				

MISSISSIPPI

Sept.	17.0	16.8	4.03	4.01	12.2	12.0	0.6	3.3	0.7	1.1	97.21	96.34	96.8	89.7	96.5	88.5	1,438	80				
Oct.	17.3	17.6	3.97	3.90	12.0	12.2	0.6	0.8	0.8	0.8	98.09	98.69	99.2	98.7	97.5	98.0	7,160	5,726				
Nov.	16.7	17.5	3.82	3.87	14.1	12.8	1.4	1.0	1.3	1.0	94.49	98.10	96.8	98.4	92.0	97.0	2,492	4,242				
Dec.	16.3	17.0	3.79	3.89	14.1	12.4	2.3	1.8	1.7	1.5	92.67	96.25	94.5	97.0	87.5	93.5	1,162	1,520				
Jan.	16.4	16.9	3.81	3.86	13.6	12.7	4.1	2.7	2.0	1.9	93.11	95.03	88.5	93.6	81.0	89.0	404	288				
Feb.	16.5	16.8	3.91	3.86	12.6	12.6	5.2	3.2	2.1	1.7	94.12	94.99	85.0	91.9	78.0	87.0	364	184				
Mar.-July	16.8	17.3	3.89	3.94	12.0	11.7	7.1	4.5	2.0	1.4	95.25	97.79	77.0	84.5	72.5	85.0	772	214				
Season	17.0	17.5	3.92	3.89	12.6	12.4	1.5	1.1	1.1	1.0	96.48	98.01	96.4	97.9	93.0	96.5	13,792	12,254				

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1972 and 1973 (Continued)

TENNESSEE

Month	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1972	1973	1972	1973	No.	No.
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973						
Sept.	17.0	16.6	3.75	3.71	14.7	13.8	0.7	3.4	0.9	1.3	95.50	93.00	96.7	89.0	93.0	84.0	170	10		
Oct.	17.4	17.3	3.74	3.73	13.6	13.5	0.7	0.8	1.0	1.1	96.73	96.24	97.9	97.7	95.0	94.5	1,998	1,638		
Nov.	17.2	17.7	3.67	3.75	14.5	12.9	1.6	0.8	1.6	1.7	95.45	98.00	96.2	98.2	92.0	96.5	1,384	1,278		
Dec.	17.0	18.1	3.67	3.82	14.2	12.4	2.3	1.0	1.9	1.8	94.59	100.43	94.3	98.3	89.5	99.0	558	454		
Jan.	17.1	17.9	3.67	3.80	14.0	12.4	3.6	1.3	1.7	1.9	95.21	99.29	90.2	97.8	85.5	97.5	126	120		
Feb.	17.2	17.9	3.72	3.76	13.1	12.3	4.8	1.5	2.2	1.8	95.87	99.26	85.5	97.2	81.5	96.5	124	46		
Mar.-July	17.6	17.9	3.79	3.89	11.3	12.0	7.4	4.5	2.6	2.0	98.19	99.92	73.3	88.0	73.0	88.0	644	44		
Season	17.3	17.6	3.72	3.76	13.7	13.1	2.2	0.9	1.5	1.4	96.22	97.57	93.3	97.8	90.0	96.0	5,004	3,590		

MISSOURI

Sept.	16.2	16.9	3.77	3.96	15.0	10.8	0.4	10.1	1.0	2.3	92.54	95.44	96.7	61.8	89.5	58.0	244	8
Oct.	17.1	16.3	3.72	3.73	14.0	13.8	0.6	1.0	1.1	1.1	95.42	92.72	97.8	96.2	93.5	89.5	1,308	718
Nov.	17.0	16.6	3.69	3.72	14.7	12.8	1.8	0.7	1.3	1.3	94.85	93.44	95.7	98.6	91.0	92.5	694	626
Dec.	17.0	16.7	3.66	3.76	14.9	13.0	2.7	0.8	1.6	1.6	94.58	94.08	92.8	98.4	88.0	92.5	344	144
Jan.	17.0	17.1	3.67	3.70	13.9	13.0	4.0	1.0	1.9	1.7	94.88	95.59	88.5	98.0	83.5	94.0	268	84
Feb.	17.3	17.1	3.77	3.76	12.6	12.7	4.4	2.6	2.3	1.8	96.52	95.93	87.8	94.1	84.5	90.5	94	22
Mar.-July	17.6	17.2	3.78	3.72	11.2	12.4	5.0	4.4	2.2	1.8	97.67	96.02	86.2	88.5	83.5	82.5	268	44
Season	17.0	16.5	3.71	3.73	14.0	13.2	1.8	1.0	1.4	1.3	95.16	93.40	94.7	97.0	90.0	91.0	3,220	1,646

ARKANSAS

Sept.	16.5	16.7	3.96	3.92	13.6	13.4	0.4	3.8	0.9	1.2	94.76	96.02	98.1	83.6	93.5	83.5	1,174	22
Oct.	16.9	16.9	3.95	3.82	12.5	13.3	0.7	0.8	0.9	0.8	96.09	95.29	98.8	98.2	95.5	94.0	5,706	3,524
Nov.	16.5	17.1	3.85	3.80	14.5	13.5	2.2	0.9	1.3	1.0	93.82	95.88	94.6	98.1	89.0	94.5	2,364	3,440
Dec.	16.4	16.8	3.85	3.81	14.0	12.8	3.5	1.5	1.7	1.4	93.42	95.00	90.0	97.8	83.0	93.0	1,198	1,220
Jan.	16.3	16.7	3.85	3.78	13.9	13.2	4.8	2.3	1.9	1.6	93.23	94.27	84.8	95.0	78.0	90.0	404	328
Feb.	16.2	16.8	3.85	3.80	13.5	13.0	5.7	2.7	2.2	1.6	92.57	94.61	81.3	93.7	74.0	89.0	276	298
Mar.-July	16.6	17.0	3.90	3.85	12.0	12.2	8.2	4.6	2.4	1.9	94.49	95.93	68.7	84.4	67.0	82.0	930	268
Season	16.7	16.9	3.91	3.81	13.2	13.3	2.1	1.1	1.2	1.0	94.95	95.44	93.8	97.4	89.5	93.5	12,052	9,100



Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1972 and 1973 (Continued)

LOUISIANA

Month	Cottonseed analysis														Average Index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1972	1973	1972	1973	1972	1973	No.	No.
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	No.	No.
Sept.	17.2	17.0	4.05	4.14	11.3	10.5	0.8	7.0	0.6	1.2	96.14	97.82	98.4	74.7	97.0	75.0	514	44				
Oct.	17.2	17.7	3.94	3.79	12.1	12.9	1.3	2.3	0.6	0.6	97.31	98.74	98.4	94.8	96.0	93.5	2,260	1,390				
Nov.	16.7	17.9	3.89	3.84	14.2	13.0	3.8	3.7	0.7	0.7	94.69	99.65	89.8	90.6	85.0	90.0	1,126	1,668				
Dec.	16.6	17.1	3.90	3.84	13.8	12.5	5.8	5.3	1.0	1.0	94.41	96.44	82.2	85.1	77.0	81.0	426	740				
Jan.	16.6	17.3	3.93	3.95	12.6	12.1	7.8	9.3	1.2	1.2	94.72	97.99	72.3	50.8	68.5	60.5	148	232				
Feb.	16.7	17.3	3.97	3.86	11.9	12.0	9.5	7.3	1.5	1.5	95.80	96.74	63.4	76.8	63.5	72.5	104	62				
Mar.-July	16.5	16.6	4.00	3.85	11.6	12.0	11.1	8.8	1.8	2.2	95.16	94.52	50.1	65.1	56.0	66.5	224	58				
Season	17.0	17.6	3.94	3.83	12.7	12.8	3.1	4.0	0.8	0.8	96.32	98.56	91.1	88.1	88.5	87.5	4,802	4,194				

OKLAHOMA

Oct.	17.7	17.8	4.33	4.26	8.4	10.7	0.5	1.7	1.4	1.1	101.63	102.18	99.4	96.8	101.5	99.0	230	14				
Nov.	17.6	18.0	4.22	4.14	10.5	10.9	0.6	0.7	1.6	1.5	100.79	102.19	99.1	98.5	100.0	101.0	264	210				
Dec.	17.7	18.5	4.21	4.11	10.5	9.9	0.6	0.5	1.8	1.6	101.14	103.62	98.9	99.0	100.0	103.0	588	866				
Jan.	17.8	18.8	4.20	4.09	10.4	9.0	0.6	0.6	1.7	1.8	101.23	104.72	98.9	99.0	100.5	104.0	418	764				
Feb.	18.0	18.8	4.19	4.05	10.2	8.6	0.7	0.7	2.0	1.8	101.92	104.58	98.8	98.1	101.0	103.5	302	260				
Mar.-July	17.5	18.4	4.17	4.07	10.5	9.5	1.3	1.0	2.1	2.1	100.06	102.68	97.3	98.2	97.5	101.5	236	230				
Season	17.7	18.6	4.21	4.10	10.2	9.5	0.7	0.6	1.8	1.7	101.18	103.86	98.8	98.8	100.0	103.0	2,038	2,344				

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1972 and 1973 (Continued)

TEXAS

Month	Cottonseed analysis														Average Index			Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1972	1973	1972	1973	No.	No.	
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973							
Aug.	17.3	17.7	3.72	3.58	11.2	11.6	1.6	1.7	1.4	1.2	97.77	96.61	98.0	97.9	96.0	95.5	856	52			
Sept.	16.3	16.7	4.01	3.84	9.3	11.3	0.8	1.7	1.5	1.7	94.34	94.73	99.0	96.1	93.5	91.0	1,388	524			
Oct.	16.4	17.0	4.10	3.95	9.6	11.6	1.0	1.8	1.6	1.9	95.37	96.59	98.2	94.4	94.0	91.5	1,148	1,980			
Nov.	17.8	18.7	3.92	4.06	10.4	9.1	0.7	1.2	2.1	1.7	99.64	104.10	98.4	96.2	98.0	101.0	1,476	5,562			
Dec.	17.9	19.3	3.93	4.14	9.1	7.2	0.6	0.8	2.7	2.1	100.10	107.42	98.2	97.6	98.5	105.0	5,534	5,964			
Jan.	17.6	19.3	3.92	4.07	9.3	7.1	0.7	0.7	3.3	2.6	98.97	106.89	97.6	97.5	97.0	104.5	3,078	3,054			
Feb.	17.5	19.1	3.89	4.06	9.3	7.3	0.7	0.9	3.6	2.9	98.29	106.11	97.2	96.9	96.0	103.0	2,622	1,252			
Mar.-July	17.1	19.0	3.84	4.05	11.0	7.6	1.4	0.9	3.9	2.8	96.20	105.41	95.5	97.0	92.0	102.5	2,698	762			
Season	17.4	18.8	3.91	4.07	9.7	8.4	0.8	1.1	2.9	2.1	98.25	104.71	97.6	96.7	96.0	102.0	16,820	19,150			

NEW MEXICO

Oct.	20.0	20.0	3.80	3.92	10.2	9.1	0.5	0.4	0.5	0.8	108.28	108.54	100.0	99.9	108.5	108.5	60	64
Nov.	19.5	19.5	3.88	3.98	9.3	7.3	0.5	0.4	1.1	1.5	105.97	106.95	99.6	99.4	106.0	106.5	114	120
Dec.	19.1	19.0	3.93	4.08	8.6	6.5	0.5	0.4	2.3	3.1	104.80	105.81	98.7	97.9	104.0	104.0	102	102
Jan.	18.8	18.8	3.92	3.98	8.4	6.7	0.7	0.4	2.7	3.3	103.30	103.76	98.3	97.9	101.5	102.0	38	42
Feb.	17.9	18.7	3.86	3.98	8.6	6.7	0.7	0.7	3.9	5.6	99.68	103.97	97.1	95.7	97.0	99.0	28	16
Mar.-July	18.0	18.2	3.84	4.07	9.9	10.6	1.3	1.1	5.1	7.8	99.59	102.50	94.5	93.7	95.5	96.0	38	2
Season	19.1	19.3	3.88	4.00	9.2	7.3	0.6	0.4	2.1	2.3	104.65	106.36	98.6	98.7	103.5	105.0	380	346



Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1972 and 1973

NORTH CAROLINA

Dist. No.	Cottonseed analysis														Average index			Average grade		Samples		
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1972	1973	1972	1973	1972	1973	No.	No.
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973								
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.								
2	19.4	19.1	4.04	4.00	11.6	10.7	3.1	2.2	1.4	1.9	106.50	105.58	94.8	94.5	101.5	97.5	10	12				
3	19.5	19.2	3.97	3.93	11.5	9.8	1.8	0.7	1.4	1.5	107.00	105.42	97.3	99.1	104.5	104.5	554	640				
4	20.1	19.9	4.04	4.23	10.6	10.2	1.3	0.9	0.5	0.7	110.28	109.66	98.5	99.3	109.0	109.5	18	22				
5	19.3	19.4	4.07	4.02	11.4	10.3	0.8	1.5	0.7	1.3	107.05	107.18	99.6	96.0	106.5	102.5	10	22				
6	19.5	19.3	3.79	4.00	11.5	9.9	1.7	0.7	1.6	1.4	105.70	106.33	97.0	99.5	103.0	106.0	52	36				
8	19.0	19.1	4.21	4.24	11.1	10.6	1.3	0.8	1.2	1.4	106.57	106.85	96.5	98.5	104.0	105.5	102	136				
9	18.7	18.8	4.00	3.99	11.3	10.1	1.2	0.7	1.4	1.2	103.54	104.05	98.2	99.3	102.0	103.5	660	716				
State	19.1	19.0	3.99	3.99	11.4	10.0	1.5	0.7	1.3	1.4	105.34	105.03	97.7	99.1	103.5	104.5	1,406	1,584				

SOUTH CAROLINA

1	19.3	19.1	4.18	4.26	11.3	10.9	1.0	1.0	1.0	0.7	107.26	107.13	98.8	99.1	106.0	106.5	100	148		
2	19.2	19.5	4.10	4.21	11.2	10.5	1.6	1.2	0.9	1.3	106.32	106.68	97.1	97.6	103.5	105.5	56	42		
3	18.7	19.1	4.14	3.98	11.3	10.9	1.2	1.5	1.3	1.4	104.52	105.55	97.6	97.8	102.5	103.5	702	674		
4	18.6	19.3	4.24	4.12	11.1	10.4	1.2	1.5	1.1	0.9	105.05	107.28	98.0	98.0	103.0	105.0	138	138		
5	18.8	19.3	4.14	4.10	11.2	10.4	1.6	1.5	1.4	1.3	105.28	107.06	96.5	98.4	102.0	105.5	1,070	906		
8	18.8	19.1	4.24	4.06	11.1	11.0	1.7	2.6	1.1	1.3	105.61	105.67	97.0	94.8	103.0	100.0	134	146		
State	18.8	19.2	4.16	4.07	11.2	10.6	1.4	1.5	1.3	1.2	105.16	106.52	97.1	97.9	102.5	104.5	2,200	2,054		

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1972 and 1973 (Continued)

GEORGIA

Dist. No.	Cottonseed analysis														Average Index		Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1972	1973	1972	1973	No.	No.
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973						
1	18.8	18.9	3.84	3.91	13.0	11.8	1.9	1.5	1.3	1.4	103.26	104.17	94.7	98.1	99.0	103.0	258	160		
2	18.7	18.8	4.19	4.19	12.2	11.4	1.8	2.4	1.0	1.2	104.91	105.03	96.2	93.3	101.5	99.5	46	60		
3	18.7	18.9	4.16	4.20	11.3	10.8	1.3	1.2	0.9	0.8	104.88	105.58	96.4	99.0	103.5	104.5	30	60		
4	18.5	18.9	4.21	4.12	10.9	10.6	1.4	2.1	0.7	0.8	104.33	105.29	97.5	97.0	102.0	102.5	254	196		
5	18.3	18.6	4.36	4.15	9.8	10.4	1.0	1.6	0.7	1.0	104.79	104.42	98.8	98.6	103.5	103.0	482	668		
6	18.7	19.1	4.37	4.02	10.2	10.8	0.7	2.5	0.8	1.0	106.19	105.55	99.4	95.3	106.0	100.5	260	346		
7	18.4	18.9	4.21	4.08	10.6	10.8	1.0	2.9	0.8	1.1	104.20	105.24	98.6	95.0	103.0	100.0	410	350		
8	18.5	19.0	4.23	4.06	9.9	10.3	1.0	1.7	0.8	0.8	104.29	105.35	98.6	98.3	103.5	104.0	908	886		
9	18.7	19.3	4.27	3.67	9.7	11.7	0.8	5.2	0.6	1.2	105.57	104.58	99.6	88.0	105.0	89.0	34	12		
State	18.5	18.9	4.23	4.08	10.5	10.6	1.1	1.9	0.8	1.0	104.49	105.05	98.2	97.3	103.0	102.5	2,682	2,738		

ALABAMA

1	17.2	18.1	3.82	3.82	13.8	12.2	2.1	1.1	1.4	1.6	96.67	100.25	93.7	97.9	91.0	98.5	478	366
2	17.5	18.2	3.85	3.89	13.3	12.2	2.6	1.2	1.6	1.7	97.83	101.18	92.1	96.9	90.5	98.5	2,126	1,362
3	17.7	18.3	3.86	3.93	13.5	12.2	2.4	1.6	1.4	1.5	98.97	101.54	92.8	96.0	92.0	98.5	628	410
4	17.2	18.4	4.04	3.86	12.2	11.8	2.0	1.7	1.1	1.4	97.99	101.54	94.6	97.1	93.0	99.0	344	300
5	17.9	18.2	4.18	4.10	11.7	11.4	1.1	1.7	1.0	1.3	101.71	102.54	97.3	96.8	98.5	99.5	588	522
6	17.4	17.9	4.07	4.12	12.3	11.3	1.5	1.8	0.9	1.2	98.79	101.47	96.4	96.4	95.5	98.0	234	194
7	-	17.8	-	4.03	-	11.5	-	3.8	-	0.8	-	100.05	-	92.4	-	93.5	-	20
8	17.9	18.7	4.12	3.81	11.4	11.7	0.7	3.1	1.0	1.6	101.40	102.63	98.7	93.1	100.5	96.0	232	198
9	17.7	18.0	4.07	4.02	12.2	12.2	1.3	3.3	1.1	1.6	100.57	101.37	97.6	91.4	98.5	91.5	46	26
State	17.5	18.2	3.93	3.93	12.9	11.9	2.1	1.5	1.4	1.5	98.62	101.46	93.8	96.6	93.0	98.5	4,676	3,398



Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1972 and 1973 (Continued)

MISSISSIPPI

Dist. No.	Cottonseed analysis												Average index			Average grade		Samples		
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1972	1973	1972	1973	No.	No.
	1972	1973	Pct.	Pct.	1972	1973	Pct.	Pct.	1972	1973	Pct.	Pct.	1972	1973						
1	17.0	17.2	3.94	3.89	12.6	12.5	1.5	1.0	1.2	1.1	96.36	96.84	96.4	98.0	93.0	95.5	4,632	4,048		
2	17.1	17.6	3.77	3.77	13.3	12.5	1.7	0.9	1.5	1.3	96.08	97.69	95.5	98.5	91.5	96.5	1,812	1,530		
3	17.4	18.3	3.70	3.74	13.8	12.8	2.1	1.0	1.5	1.4	96.67	100.47	93.7	97.9	91.0	98.5	946	724		
4	16.9	17.4	3.99	3.94	12.2	12.4	1.2	1.1	0.9	0.9	96.25	98.06	97.1	98.1	93.5	96.5	4,266	4,046		
5	17.2	17.8	3.97	3.94	12.6	12.2	1.3	1.7	0.9	0.9	97.47	99.66	97.1	97.2	95.0	97.0	1,256	1,252		
6	17.1	18.0	3.91	3.84	12.9	12.2	1.6	1.3	1.0	1.1	96.80	100.15	96.0	97.4	93.0	98.0	422	334		
7	17.4	17.6	3.91	3.99	12.0	12.3	1.7	3.0	0.7	0.8	97.82	99.48	96.5	93.1	95.0	93.0	356	238		
8	17.4	17.6	4.01	3.99	11.0	12.6	0.8	3.6	0.8	1.3	98.86	98.93	99.0	90.2	98.0	89.5	72	60		
9	17.5	18.2	4.01	3.84	11.6	11.9	0.7	2.6	0.9	1.7	98.75	100.73	98.9	92.7	98.5	93.5	30	22		

State	17.0	17.5	3.92	3.89	12.6	12.4	1.5	1.1	1.1	1.0	96.48	98.01	96.4	97.9	93.0	96.5	13,792	12,254
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TENNESSEE

1	17.2	17.4	3.74	3.74	13.7	13.1	1.6	1.1	1.4	1.3	95.97	96.80	95.6	97.6	92.0	95.0	1,792	1,154
2	17.3	17.6	3.70	3.76	13.7	13.1	2.4	0.8	1.6	1.5	96.26	97.69	92.1	97.9	89.0	96.0	3,032	2,312
3	17.7	18.3	3.67	3.79	13.3	12.2	3.2	1.0	1.8	1.9	97.70	100.76	89.0	98.3	88.5	99.0	84	54
4	17.5	18.7	3.84	3.86	13.3	12.0	2.5	0.9	1.4	1.3	98.23	103.29	93.0	98.5	91.5	102.0	88	54
5	18.7	19.6	3.55	3.86	13.1	11.2	3.0	1.4	1.3	1.4	100.88	106.13	94.5	98.5	94.0	105.5	8	16

State	17.3	17.6	3.72	3.76	13.7	13.1	2.2	0.9	1.5	1.4	96.22	97.57	93.3	97.8	90.0	96.0	5,004	3,590
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Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1972 and 1973 (Continued)

ARKANSAS

Dist. No.	Cottonseed analysis																Average index			Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity			Quality			1972	1973	No.	1972	1973	No.	1973
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973							
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.						
3	16.4	16.3	3.86	3.79	13.6	13.7	2.0	1.0	1.4	1.1	93.60	92.93	93.7	97.3	87.5	90.5	4,802	2,862					
4	16.7	17.6	4.02	3.69	12.9	12.5	2.1	1.0	1.0	1.1	95.98	97.73	95.4	99.0	92.0	97.0	46	44					
5	16.8	17.4	3.95	3.72	13.0	13.1	1.9	1.4	1.2	1.3	95.89	96.80	95.8	96.7	92.0	94.5	166	132					
6	16.7	16.9	3.95	3.65	13.0	13.1	2.4	1.1	1.2	1.0	95.22	95.69	93.1	97.7	89.0	94.0	4,474	3,570					
7	17.7	17.7	4.00	3.76	12.1	12.5	3.5	3.1	1.2	0.8	99.64	98.29	88.9	93.3	89.5	92.0	198	128					
8	16.9	18.1	4.04	3.74	13.6	13.0	2.0	2.6	0.5	0.7	96.67	99.82	94.6	90.2	90.0	93.0	18	28					
9	17.1	17.6	3.94	3.79	12.6	13.1	1.6	1.3	1.0	0.9	96.68	97.78	96.0	97.3	93.5	95.5	2,348	2,336					
State	16.7	16.9	3.91	3.81	13.2	13.3	2.1	1.1	1.2	1.0	94.95	95.44	93.8	97.4	89.5	93.5	12,052	9,100					

LOUISIANA

1	17.5	17.9	4.03	3.81	11.8	12.5	3.2	3.9	0.6	0.7	99.03	99.37	91.9	90.8	90.5	90.0	578	402
2	16.7	17.8	4.05	3.99	13.0	12.0	4.0	7.7	0.8	0.9	96.02	100.33	87.4	64.0	84.5	71.0	272	366
3	16.7	17.5	3.97	3.86	12.8	13.0	2.6	2.8	0.7	0.8	95.49	98.16	92.2	93.1	89.0	91.5	2,602	2,458
4	17.3	18.0	3.98	3.76	13.1	13.0	4.4	5.6	0.9	1.1	97.93	99.65	87.1	84.5	86.0	83.0	174	154
5	17.3	17.8	3.79	3.70	12.6	12.6	3.7	5.5	0.8	0.9	96.52	98.30	89.8	83.5	87.5	82.0	1,136	766
6	18.0	-	4.07	-	10.6	-	9.0	-	1.1	-	97.50	-	79.7	-	78.0	-	4	-
7	17.9	17.8	3.85	3.70	12.7	13.5	3.2	6.9	0.8	0.6	99.64	98.34	91.6	78.6	91.5	74.5	28	22
8	17.7	18.2	4.07	3.63	12.6	13.2	2.8	9.0	0.5	0.7	100.63	99.90	93.4	72.3	94.5	69.5	8	26
State	17.0	17.6	3.94	3.83	12.7	12.8	3.1	4.0	0.8	0.8	96.32	98.56	91.1	88.1	88.5	87.5	4,802	4,194



Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1972 and 1973 (Continued)

OKLAHOMA

Dist. No.	Cottonseed analysis														Average Index		Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.			
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973		
3	Pct. 17.9	Pct. 17.9	Pct. 4.00	Pct. 3.77	Pct. 11.4	Pct. 11.4	Pct. 1.0	Pct. 0.8	Pct. 3.8	Pct. 5.2	100.13	98.38	96.5	95.3	97.0	95.0	12	12		
4	18.0	18.2	4.19	4.12	10.4	9.7	0.6	0.5	2.1	1.9	102.19	102.42	98.7	99.0	101.0	101.5	562	534		
5	17.5	18.4	4.27	4.11	10.5	10.1	0.7	0.8	2.1	1.8	100.60	103.14	98.6	98.9	99.5	102.5	126	272		
6	18.1	18.3	4.14	3.70	11.7	12.8	1.5	1.3	1.2	1.5	102.41	100.30	97.7	96.7	100.0	98.0	38	28		
7	17.6	18.8	4.23	4.10	10.1	9.3	0.6	0.6	1.7	1.6	100.90	104.68	98.9	99.0	100.0	104.0	1,204	1,418		
8	17.3	18.6	4.18	3.98	10.0	9.4	1.3	2.1	1.5	2.0	99.13	103.25	98.2	95.1	97.5	98.5	80	78		
9	17.6	19.2	4.01	3.47	10.7	9.6	1.4	2.7	0.8	3.6	99.84	103.50	98.5	93.7	98.5	96.0	16	2		
State	17.7	18.6	4.21	4.10	10.2	9.5	0.7	0.6	1.8	1.7	101.18	103.86	98.8	98.8	100.0	103.0	2,038	2,344		

TEXAS

1	17.6	19.5	3.85	4.11	9.6	7.3	0.7	0.4	3.4	2.1	98.17	108.11	97.3	98.8	96.0	107.0	11,220	11,844
2	17.9	18.4	4.05	4.06	9.6	8.3	0.8	0.6	2.5	2.1	101.01	102.98	98.2	98.8	99.5	102.0	3,952	3,746
3	17.6	18.4	4.20	4.05	9.9	8.9	1.0	0.6	1.7	1.6	100.04	103.20	99.0	99.4	99.5	102.5	84	110
4	16.0	16.5	4.10	3.99	9.0	11.5	0.8	3.0	1.7	2.5	93.83	94.72	98.7	91.3	93.0	86.0	1,914	2,358
5	16.9	16.8	4.04	3.96	11.3	13.1	1.6	6.4	1.2	1.5	96.87	96.17	97.4	78.0	94.5	77.0	298	228
6	18.1	-	3.94	-	9.7	-	1.0	-	1.9	-	101.45	-	98.9	-	101.0	-	30	-
7	16.9	16.8	4.13	4.07	9.0	9.2	0.8	0.8	1.7	2.0	97.62	96.48	99.0	98.9	96.5	96.0	200	226
8	17.1	16.9	3.83	3.69	10.6	12.9	1.3	5.7	1.6	2.2	96.90	94.38	98.4	73.4	96.0	75.0	228	242
9	18.1	17.2	3.48	3.63	12.9	14.3	1.8	6.9	0.8	1.4	98.14	95.41	94.0	70.2	91.0	71.0	182	378
10	17.1	16.6	3.69	3.77	11.3	14.1	1.8	4.3	1.4	2.0	96.81	93.28	97.8	83.6	95.0	81.5	712	18
State	17.4	18.8	3.91	4.07	9.7	8.4	0.8	1.1	2.9	2.1	98.25	104.71	97.6	96.7	96.0	102.0	18,820	19,150

NEW MEXICO

3	18.3	18.6	3.84	4.05	8.9	6.8	0.8	0.4	4.1	2.9	101.08	104.01	96.5	98.1	98.0	102.0	60	72
9	19.3	19.5	3.89	3.98	9.2	7.4	0.6	0.4	1.7	2.1	105.32	106.98	99.0	98.8	104.5	106.0	320	274
State	19.1	19.3	3.88	4.00	9.2	7.3	0.6	0.4	2.1	2.3	104.65	106.36	98.6	98.7	103.5	105.0	380	346

Table 6. Percentage distribution of quantity index by specified frequencies, by states and United States, 1972 and 1973

State	Quantity Index																					
	Under 65		65-69		70-74		75-79		80-84		85-89		90-94		95-99		100-104		105 and over		Total	
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973
	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	0.5	5.8	4.2	36.7	42.5	57.1	52.8	100.0	100.0
S. C.	-	-	-	-	-	-	-	0.1	0.1	-	0.1	0.1	-	0.5	-	4.3	1.4	39.7	27.9	55.4	70.6	100.0
Ga.	-	-	-	-	-	-	0.1	-	-	0.1	-	0.1	-	1.0	0.4	7.8	4.0	45.2	43.1	45.8	52.5	100.0
Fla.	-	-	-	-	-	-	-	-	-	-	-	2.6	4.3	-	15.2	26.3	65.3	50.0	15.2	21.1	100.0	100.0
Ala.	-	0.1	-	-	-	-	0.2	-	0.1	0.1	1.9	0.5	13.2	2.8	47.5	25.7	31.8	58.3	5.3	12.5	100.0	100.0
Miss.	*	-	-	0.1	*	0.1	0.1	0.1	1.2	0.6	5.7	2.7	24.4	17.1	47.2	45.2	20.1	31.0	1.2	3.3	100.0	100.0
Tenn.	-	-	-	-	-	-	-	-	0.2	0.1	3.1	2.3	29.1	23.2	54.9	45.1	11.8	26.3	0.9	3.0	100.0	100.0
Mo.	-	-	-	0.1	-	0.1	0.1	-	0.5	1.3	6.1	15.3	36.3	46.1	48.4	32.5	8.3	4.3	0.3	0.3	100.0	100.0
Ark.	*	-	*	0.1	0.1	0.2	0.2	1.1	1.5	9.3	9.1	37.9	31.8	39.0	40.8	11.2	15.4	1.2	1.1	100.0	100.0	
La.	-	-	-	-	-	*	0.1	*	0.6	0.2	5.0	2.6	27.1	15.6	49.4	40.8	17.1	36.6	0.7	4.2	100.0	100.0
Okla.	-	-	-	-	-	-	-	-	-	0.3	0.2	1.7	1.5	29.5	7.0	60.3	55.4	8.2	35.9	100.0	100.0	
Tex.	*	-	*	-	-	-	0.2	*	0.6	0.2	4.0	1.6	16.6	8.0	39.8	12.7	33.3	19.2	5.5	58.3	100.0	100.0
N. Mex.	-	-	-	-	-	-	-	-	0.6	1.1	-	1.6	0.6	10.5	4.7	35.3	23.7	51.5	70.4	100.0	100.0	
All other	-	-	-	-	-	-	-	-	-	-	-	-	4.3	-	17.3	20.0	34.7	20.0	43.7	60.0	100.0	100.0
U. S.	*	*	*	*	*	*	0.1	0.1	0.7	0.5	4.7	3.1	22.0	14.2	40.2	26.8	24.8	27.7	7.5	27.6	100.0	100.0

\* Less than 0.05 percent.

Table 7. Percentage distribution of quality index by specified frequencies, by states and United States, 1972 and 1973

State	Quality Index														Prime quality		Total			
	Below grade		Below prime quality												100		100.0			
	1972	Pct.	40.0-49.9	50.0-59.9	70.0-79.9	80.0-84.9	85.0-89.9	90.0-94.9	95.0-99.9	1972	Pct.	1973	Pct.	1972	Pct.	1973	Pct.	1972	Pct.	
N. C.	0.1	-	0.1	1.0	0.4	1.1	0.4	1.1	-	2.4	0.3	3.1	0.8	59.9	58.7	31.2	39.4	100.0	100.0	
S. C.	0.3	-	0.2	1.9	1.1	1.3	1.1	1.2	0.5	2.5	2.0	3.6	4.5	53.0	55.0	36.0	35.8	100.0	100.0	
Ga.	0.2	0.1	-	0.1	0.9	0.6	1.3	1.2	1.9	1.9	2.8	2.7	7.3	31.5	43.2	61.2	42.4	100.0	100.0	
Fla.	2.2	2.6	-	2.6	-	5.3	2.2	-	-	-	5.3	2.2	10.6	36.9	65.7	56.5	7.9	100.0	100.0	
Ala.	0.7	0.3	0.4	0.5	3.0	1.5	4.0	1.2	2.4	1.1	3.9	2.2	12.7	5.1	58.1	69.6	14.8	18.5	100.0	100.0
Miss.	0.2	0.2	0.1	1.3	0.6	2.7	0.7	2.5	0.7	3.1	1.1	7.2	4.2	54.2	65.2	28.8	27.2	100.0	100.0	
Tenn.	0.7	-	0.4	0.1	2.3	0.2	4.0	0.3	3.7	0.2	5.6	0.6	12.8	2.9	65.9	86.1	4.6	9.6	100.0	100.0
Mo.	-	0.2	-	0.4	0.1	1.0	2.0	0.4	3.0	0.6	9.7	1.5	21.7	2.2	61.7	84.1	1.8	9.6	100.0	100.0
Ark.	0.6	0.1	0.3	*	2.8	0.4	3.9	0.8	4.1	0.6	5.9	1.5	11.0	5.8	51.7	75.1	19.7	15.7	100.0	100.0
Ia.	1.4	2.1	1.1	0.8	4.9	4.7	5.2	9.1	5.5	8.1	9.8	12.6	12.0	19.6	31.8	33.5	28.3	9.5	100.0	100.0
Okla.	-	0.1	-	-	0.2	0.3	0.1	0.3	0.1	0.3	0.5	0.3	2.4	1.4	67.5	72.9	29.2	24.4	100.0	100.0
Tex.	0.5	*	0.3	0.1	1.3	0.3	1.6	0.4	1.3	0.9	2.0	6.4	3.6	83.5	71.8	8.4	17.6	100.0	100.0	
N. Mex.	-	-	-	-	-	0.5	-	-	-	-	-	5.8	4.6	53.2	62.4	40.5	33.0	100.0	100.0	
All other	-	-	-	-	-	4.3	-	4.3	-	4.3	-	4.3	6.7	69.7	60.0	13.1	33.3	100.0	100.0	
U. S.	0.3	0.4	0.2	0.2	1.6	1.1	2.3	1.5	2.3	1.4	3.8	2.3	8.9	5.2	61.0	67.3	19.6	20.6	100.0	100.0

\* Less than 0.05 percent.



Table 8. Percentage distribution of grades by specified frequencies, by states and United States, 1972 and 1973

State	Below grade		Grade												Total							
	00.0-39.9		40.0-74.9		75.0-79.9		80.0-84.9		85.0-89.9		90.0-94.9		95.0-99.9		100.0-104.9		105.0-109.9		110.0 and over			
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
N. C.	-	-	1.0	0.5	0.3	0.1	1.1	0.1	1.6	-	2.9	1.6	8.8	4.8	38.0	47.7	42.9	42.0	3.4	3.2	100.0	100.0
S. C.	0.3	-	2.5	1.0	0.5	0.6	0.8	0.5	1.4	0.7	2.3	1.7	8.3	5.9	38.7	33.0	42.7	50.2	2.5	6.4	100.0	100.0
Ga.	0.1	0.1	1.0	1.3	0.2	0.6	0.5	0.8	1.6	2.1	4.4	2.9	9.7	9.8	39.1	41.1	41.7	40.0	1.7	1.3	100.0	100.0
Fla.	2.2	2.6	2.2	7.9	-	-	-	5.3	-	2.6	4.3	5.2	15.2	21.1	60.9	47.4	15.2	7.9	-	-	100.0	100.0
Ala.	0.7	0.4	5.8	2.6	2.2	0.5	4.7	1.3	10.7	2.6	20.2	7.9	32.1	29.9	19.7	46.2	3.9	8.5	-	0.1	100.0	100.0
Miss.	•	0.2	4.1	1.3	3.2	0.8	5.4	1.9	10.4	6.4	23.0	20.6	35.3	39.8	17.3	26.1	1.3	2.9	-	-	100.0	100.0
Tenn.	0.7	-	5.3	0.6	3.6	0.2	6.3	1.3	15.5	9.7	35.8	27.6	28.2	38.8	4.2	19.6	0.4	2.2	-	-	100.0	100.0
Mo.	-	0.7	2.0	1.7	3.4	1.7	10.1	5.0	25.5	24.4	35.2	39.6	21.1	24.1	2.6	2.6	0.1	0.2	-	-	100.0	100.0
Ark.	0.7	0.1	7.6	1.3	4.7	1.5	8.8	4.9	16.0	15.8	27.9	30.6	24.2	33.1	8.9	11.6	1.2	1.1	•	-	100.0	100.0
Ia.	1.8	2.1	11.0	11.5	5.5	6.0	8.2	10.6	11.4	15.2	19.7	18.8	29.2	20.0	12.2	14.1	1.0	1.7	-	-	100.0	100.0
Okla.	-	-	0.3	0.4	0.1	0.3	0.1	0.2	0.8	0.8	5.5	1.2	34.1	12.1	51.9	53.6	7.0	30.4	0.2	1.0	100.0	100.0
Tex.	0.1	0.5	0.7	2.7	0.6	1.4	2.2	2.2	7.2	3.7	23.5	6.9	39.9	9.1	22.6	21.8	3.1	38.2	0.1	13.5	100.0	100.0
N. Mex.	-	-	-	-	0.5	0.6	-	-	2.1	1.2	4.7	1.2	16.9	11.0	26.3	27.7	42.1	46.1	7.4	12.2	100.0	100.0
All other	-	-	-	-	-	-	4.3	-	13.0	-	8.6	-	8.7	20.0	26.2	33.4	21.7	39.9	17.5	6.7	100.0	100.0
U. S.	0.4	0.4	4.0	2.4	2.6	1.3	5.0	2.8	10.5	7.2	22.7	15.3	30.2	22.5	18.5	24.5	5.8	19.0	0.3	4.6	100.0	100.0

• Less than 0.05 percent.

Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1972 and 1973

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.	-	-	-	-	0.3	0.3	0.7	0.9	2.0	1.0	5.4	3.5	12.8	13.9	19.9	24.7	45.9	47.6	13.2	8.1	0.1	0.1	-	100.0	100.0
S. C.	-	-	0.3	-	0.2	-	0.5	0.2	2.4	0.7	6.3	1.9	16.4	8.4	31.8	20.0	39.1	56.7	3.0	11.9	-	0.2	-	100.0	100.0
Ga.	0.1	0.1	0.4	-	0.4	0.1	1.7	0.2	4.5	2.1	11.0	6.3	25.7	16.0	30.4	28.3	24.6	42.1	1.1	4.8	0.1	-	-	100.0	100.0
Fla.	-	-	2.2	2.6	-	-	2.2	-	8.7	10.5	21.7	5.3	34.8	23.8	26.1	18.4	4.3	28.9	-	10.5	-	-	-	100.0	100.0
Ala.	0.6	0.2	3.0	0.6	6.3	0.9	12.1	2.9	23.2	8.1	22.9	19.7	18.6	28.1	9.3	24.0	3.9	14.9	0.1	0.6	-	-	-	100.0	100.0
Miss.	3.7	1.8	10.3	6.1	11.8	7.6	17.6	13.1	20.6	18.4	18.8	19.9	10.9	16.8	4.7	10.7	1.6	5.5	•	0.1	-	•	-	100.0	100.0
Tenn.	0.6	0.7	4.2	3.0	8.5	7.7	19.1	14.4	26.2	19.5	22.6	21.1	12.4	16.1	4.6	10.3	1.8	6.9	•	0.3	-	-	-	100.0	100.0
Mo.	1.4	4.0	9.9	19.9	12.4	18.6	19.3	25.5	25.1	17.9	18.9	8.9	9.4	3.8	2.7	1.0	0.8	0.4	0.1	-	-	-	-	100.0	100.0
Ark.	3.8	4.3	16.7	13.7	19.3	14.0	22.2	16.9	17.7	17.4	11.2	15.6	5.8	11.2	2.4	4.6	0.8	2.2	0.1	0.1	-	-	-	100.0	100.0
Ia.	2.5	1.1	12.3	5.3	13.4	6.8	19.2	9.7	20.2	17.1	17.1	18.5	9.5	18.2	4.2	14.3	1.6	8.3	•	0.7	-	-	-	100.0	100.0
Okla.	-	0.1	0.6	0.7	2.6	0.6	7.2	1.4	20.7	3.4	33.3	11.3	22.9	23.4	10.1	28.2	2.3	28.6	0.3	2.1	-	-	-	100.0	100.0
Tex.	2.2	0.9	7.6	3.9	7.5	4.4	11.2	5.6	16.5	5.4	20.4	4.9	18.2	7.3	10.2	10.3	5.7	36.7	0.5	18.9	•	1.7	-	100.0	100.0
N. Mex.	-	0.6	1.1	0.6	0.5	-	2.1	-	1.6	2.3	7.9	4.0	11.1	11.6	12.6	11.0	43.6	47.9	17.4	16.8	2.1	5.2	-	100.0	100.0
All other	-	-	-	-	-	-	-	-	8.7	13.3	8.7	6.7	8.7	6.7	8.7	6.7	47.9	66.6	13.0	-	4.3	-	-	100.0	100.0
U. S.	2.3	1.5	8.6	5.5	10.1	6.3	14.7	9.1	18.1	11.3	17.8	12.3	13.6	13.3	8.3	12.5	5.9	20.7	0.6	6.9	•	0.6	-	100.0	100.0

• Less than 0.05 percent.

Table 10. Percentage distribution of ammonia by specified frequencies, by states and United States, 1972 and 1973

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	-	-	-	0.1	0.1	0.1	0.6	3.4	4.8	14.2	18.2	33.3	29.2	30.7	26.4	18.2	20.7	100.0	100.0
S. C.	-	-	-	-	-	-	-	-	0.1	-	0.3	1.7	2.5	10.7	12.8	25.8	31.9	26.7	52.4	35.1	100.0	100.0
Ga.	-	-	-	0.1	-	-	0.1	-	0.2	0.1	2.6	2.3	4.4	7.1	6.9	21.3	17.4	33.3	68.4	35.8	100.0	100.0
Fla.	-	-	-	-	-	-	-	-	-	13.2	-	36.8	2.2	26.3	17.4	15.8	34.7	5.3	45.7	2.6	100.0	100.0
Ala.	-	-	-	-	0.1	-	0.3	0.1	2.5	1.3	11.9	9.0	22.9	25.1	24.2	30.2	19.7	20.8	18.4	13.5	100.0	100.0
Miss.	*	-	-	*	0.1	*	0.2	0.2	2.8	2.1	9.9	10.4	19.5	25.4	29.5	34.7	27.3	22.8	10.7	4.4	100.0	100.0
Tenn.	-	-	0.1	-	0.3	-	1.4	0.4	12.2	5.4	32.2	28.5	32.6	40.3	16.0	20.4	4.1	4.3	1.1	0.7	100.0	100.0
Mo.	-	-	0.2	-	0.1	-	1.3	0.4	13.4	7.0	30.9	33.5	35.0	40.5	14.6	16.9	4.0	1.3	0.5	0.4	100.0	100.0
Ark.	-	*	-	*	-	*	0.2	0.4	1.6	3.5	9.1	18.4	23.7	36.9	32.2	29.9	24.3	10.0	8.9	0.9	100.0	100.0
Ia.	-	-	-	0.2	0.1	0.2	0.6	1.6	2.0	4.6	8.5	15.9	19.0	28.8	28.9	28.3	27.2	16.0	13.7	4.4	100.0	100.0
Okla.	-	-	-	-	-	-	0.1	0.2	-	0.8	0.1	0.7	0.8	2.6	4.0	16.1	23.7	43.7	71.3	35.9	100.0	100.0
Tex.	*	*	0.1	*	0.2	0.1	1.1	0.2	2.6	0.9	9.7	2.3	22.7	7.4	28.6	20.7	21.2	33.2	13.8	35.2	100.0	100.0
N. Mex.	-	-	-	-	-	-	-	-	2.1	1.2	10.0	3.5	23.7	14.5	45.3	31.7	15.8	28.3	3.1	20.8	100.0	100.0
All other	-	-	-	-	-	-	-	-	26.2	-	17.4	-	17.4	13.3	13.0	26.7	13.0	33.3	13.0	26.7	100.0	100.0
U. S.	*	*	*	*	0.1	0.1	0.6	0.3	3.3	2.1	11.3	9.9	21.1	20.6	25.8	26.0	21.7	23.4	16.1	17.6	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, 1972

State	Moisture													Total				
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	Pct.	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	Pct.
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	-	-	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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.	53.8	45.9	0.3	*	0.2	14.0	11.9	13.4	14.3	27.8	14.5	3.0	0.6	0.3	-	100.0		

\* Less than 0.05 percent.

Table 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1973

State	Moisture														Total
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0	5.1	7.1	9.1	10.1	11.1	12.1	14.1	16.1	18.1	20.1 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
N. C.	93.8	6.2	-	-	-	22.6	33.9	25.4	11.9	5.6	0.4	0.1	0.1	-	100.0
S. C.	85.9	14.1	-	-	-	9.5	26.6	32.3	17.5	12.1	1.8	0.2	-	-	100.0
Ga.	86.5	13.4	0.1	-	-	11.4	24.9	30.6	19.6	12.2	1.0	0.1	0.1	0.1	100.0
Fla.	55.3	44.7	-	-	-	-	10.5	21.1	23.7	36.8	5.3	2.6	-	-	100.0
Ala.	58.1	41.8	0.1	-	-	0.7	5.4	21.7	30.3	33.7	7.4	0.5	0.2	0.1	100.0
Miss.	45.1	54.7	0.2	-	-	0.2	3.4	15.3	26.2	41.3	10.4	2.5	0.5	0.2	100.0
Tenn.	29.9	70.1	-	-	-	-	0.8	7.4	21.7	43.8	22.1	4.0	0.2	-	100.0
Mo.	22.7	77.2	0.1	-	-	-	1.2	5.5	16.0	50.8	20.9	5.0	0.5	0.1	100.0
Ark.	23.8	76.2	*	-	-	*	0.4	5.0	18.4	49.6	20.4	5.4	0.8	*	100.0
La.	37.0	62.6	0.4	-	-	0.1	2.3	11.6	23.0	42.6	15.6	3.6	0.8	0.4	100.0
Okla.	96.0	3.9	0.1	-	-	1.0	38.5	32.1	18.0	6.4	0.5	0.2	-	0.1	100.0
Tex.	92.5	7.4	0.1	0.1	33.9	37.8	10.6	6.1	4.0	4.4	2.0	0.7	0.3	0.1	100.0
N. Mex.	100.0	-	-	-	52.7	35.2	9.2	2.9	-	-	-	-	-	-	100.0
All other	86.6	13.4	-	-	-	33.3	39.9	6.7	6.7	13.4	-	-	-	-	100.0
U. S.	61.9	38.0	0.1	*	10.7	14.7	8.6	11.9	16.0	26.5	9.0	2.1	0.4	0.1	100.0

\* Less than 0.05 percent.

Table 13. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 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 14. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1973

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.	97.2	2.7	0.1	23.0	67.5	4.9	1.8	1.2	0.7	-	0.3	0.5	-	0.1	100.0
S. C.	79.8	20.2	-	4.5	31.5	31.3	12.5	11.6	5.4	1.6	0.4	0.6	0.6	-	100.0
Ga.	66.5	33.1	0.4	0.8	23.9	27.0	14.8	19.0	9.0	3.3	0.9	0.6	0.3	0.4	100.0
Fla.	47.4	47.3	5.3	-	2.6	23.7	21.1	23.7	15.8	2.6	-	2.6	2.6	5.3	100.0
Ala.	80.3	18.8	0.9	9.0	46.9	18.5	5.9	9.3	5.7	1.3	0.9	1.2	0.4	0.9	100.0
Miss.	86.9	10.7	0.4	14.4	49.8	17.6	7.1	5.9	2.9	1.0	0.5	0.3	0.1	0.4	100.0
Tenn.	96.0	3.9	0.1	9.8	64.7	18.4	3.1	2.2	0.9	0.3	0.2	0.1	0.2	0.1	100.0
Mo.	93.8	5.3	0.9	12.0	66.8	11.8	3.2	2.2	1.1	0.9	0.6	0.5	-	0.9	100.0
Ark.	89.7	10.1	0.2	7.5	56.3	18.7	7.2	5.2	3.1	0.9	0.6	0.2	0.1	0.2	100.0
La.	29.2	67.3	3.5	0.6	10.2	10.5	7.9	17.6	25.0	13.0	7.2	3.4	1.1	3.5	100.0
Okla.	98.1	1.9	-	34.1	56.8	5.2	2.0	0.7	0.4	0.4	0.1	0.2	0.1	-	100.0
Tex.	89.5	9.6	0.9	53.5	31.3	3.4	1.3	2.6	2.8	2.1	1.1	0.7	0.3	0.9	100.0
N. Mex.	100.0	-	-	76.4	21.9	1.7	-	-	-	-	-	-	-	-	100.0
All other	86.6	13.4	-	6.7	59.9	20.0	-	6.7	6.7	-	-	-	-	-	100.0
U. S.	84.5	14.8	0.7	24.1	42.3	13.0	5.1	5.9	4.6	2.2	1.1	0.7	0.3	0.7	100.0

\* Less than 0.05 percent.

Table 15. 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	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	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	0.2	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	*	*	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	0.5	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	-	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 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1973

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.	44.2	55.8	-	12.1	32.1	39.1	12.8	2.9	0.6	0.4	-	-	100.0
S. C.	53.3	46.7	-	21.8	31.5	31.9	9.6	3.4	1.1	0.7	-	-	100.0
Ga.	67.4	32.6	-	17.5	49.9	30.1	1.8	0.4	0.2	0.1	-	-	100.0
Fla.	52.6	47.4	-	13.2	39.4	34.2	7.9	5.3	-	-	-	-	100.0
Ala.	35.2	64.7	0.1	8.1	27.1	43.1	15.7	3.4	1.9	0.3	0.2	0.1	100.0
Miss.	63.8	36.2	-	24.9	38.9	28.5	5.8	1.3	0.4	0.1	0.1	•	100.0
Tenn.	39.6	60.4	-	10.2	29.4	42.1	13.4	3.3	1.2	0.2	0.1	0.1	100.0
Mo.	46.2	53.7	0.1	11.1	35.1	41.5	9.2	2.4	0.6	-	-	0.1	100.0
Ark.	68.2	31.8	•	27.1	41.1	23.1	6.2	1.6	0.7	0.1	-	0.1	100.0
Ia.	81.6	18.4	-	37.4	44.2	14.8	2.8	0.6	0.2	•	-	-	100.0
Okla.	26.5	73.3	0.2	3.2	23.3	47.3	17.0	5.8	2.0	0.7	0.2	0.3	100.0
Tex.	20.1	79.6	0.3	3.4	16.7	40.1	23.3	9.3	4.8	1.3	0.6	0.2	100.0
N. Mex.	32.9	65.9	1.2	8.1	24.8	26.6	17.9	8.1	6.9	4.6	1.2	0.6	100.0
All other	53.3	46.7	-	-	53.3	46.7	-	-	-	-	-	-	100.0
U. S.	46.6	53.3	0.1	15.7	30.9	33.4	12.7	4.3	2.0	0.6	0.2	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, 1972 and 1973

State	Prime		Quality				Total samples graded		Reduced due to excess					
	Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acids		Foreign matter			
	1972	1973	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
N. C.	438	624	966	960	2	-	1,406	1,584	344	100	218	42	754	884
S. C.	790	736	1,404	1,318	6	-	2,200	2,054	430	288	376	412	1,112	958
Ga.	1,640	1,160	1,036	1,574	6	4	2,682	2,738	608	372	304	920	600	892
Fla.	52	6	38	68	2	2	92	76	32	34	8	40	18	36
Ala.	692	630	3,950	2,758	34	10	4,676	3,398	3,150	1,428	1,542	670	2,610	2,200
Miss.	3,984	3,332	9,806	8,902	2	20	13,792	12,254	8,234	6,724	2,734	1,360	5,508	4,442
Tenn.	228	344	4,740	3,246	36	-	5,004	3,590	4,150	2,514	1,686	144	3,092	2,168
Mo.	58	158	3,162	1,484	-	4	3,220	1,646	2,774	1,272	1,200	100	1,958	886
Ark.	2,384	1,430	9,590	7,658	78	12	12,052	9,100	8,418	6,934	3,810	940	5,150	2,890
La.	1,358	398	3,378	3,706	66	90	4,802	4,194	2,802	2,640	2,268	2,972	646	774
Oklahoma	596	572	1,442	1,770	-	2	2,038	2,344	190	92	52	44	1,370	1,724
Tex.	1,584	3,362	17,230	15,700	6	88	18,820	19,150	1,760	1,452	978	2,022	16,720	15,294
N. Mex.	154	114	226	232	-	-	380	346	10	-	12	-	222	232
All other	6	10	40	20	-	-	46	30	22	4	16	4	34	14
U. S.	13,964	12,876	57,008	49,396	238	232	71,210	62,504	32,924	23,854	15,204	9,670	39,794	33,394