

# COTTONSEED QUALITY

## CROP OF 1975



**UNITED STATES DEPARTMENT OF AGRICULTURE**

***Agricultural Marketing Service Cotton Division***

***Memphis, Tennessee***

***July 1976***

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Cottonseed Quality - 1975 Crop

Cottonseed from the 1975 crop was higher in quality than a year earlier. The average grade was 96.5 compared with 95.5 for the 1974 crop and 98.0 in 1973. The average oil content of seed from the 1975 crop was slightly higher than a year earlier. Average ammonia content was the lowest since 1950. The percentage of moisture was lower than a year ago. Free fatty acids averaged lower than last season. Foreign matter was the same as a year earlier.

Data from grade certificates covering 44,250 samples of cottonseed were used to compile the information included in this report. Averages of cottonseed quality factors and grades are shown by states (when sufficient certificates were received), by classing office territories, by months and by specified frequencies. Average quality factors of cottonseed are shown by states in Table 3. Data from Arizona and California are included in the "all other" category because only a light volume of cottonseed from these states was officially graded. The averages 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 certificates received.

Table 1. Cottonseed quality factors, indexes and grades,  
1951-1975

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
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
1974	17.7	3.82	1/	11.0	1.6	1.6	98.42	96.5	95.5	61,114
1975	18.0	3.75	1/	10.6	1.4	1.6	99.50	97.0	96.5	44,250

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 quantities 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	Re- duction	Total	Re- duction	Total	Re- duction			Total	Pro- duct 7/	Total	Pro- duct 7/					
Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units		
<u>PRIME QUALITY SEED</u>																	
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	97.60	+5	102.60	102.5	
2	1.8	0.0	1.0	0.0	12.0	0.0	0.0	100.0	17.8	71.2	4.10	24.60	95.80	+5	100.80	101.0	
3	1.2	0.0	0.8	0.0	9.6	0.0	0.0	100.0	16.2	64.8	3.97	23.82	88.62	+5	93.62	93.5	
<u>BELOW PRIME QUALITY SEED</u>																	
4	1.9	0.4	1.0	0.0	12.0	0.0	0.4	99.6	18.5	74.0	3.50	21.00	95.00	+5	100.00	99.5	
5	1.8	0.0	1.1	0.1	12.0	0.0	0.1	99.9	19.7	78.8	3.75	22.50	101.30	+5	106.30	106.0	
6	1.8	0.0	1.0	0.0	12.1	0.1	0.1	99.9	17.3	69.2	4.23	25.38	94.58	+5	99.58	99.5	
7	1.9	0.4	1.1	0.1	12.1	0.1	0.6	99.4	15.8	63.2	2.98	17.88	81.08	+5	86.08	85.5	
8	2.5	2.8	3.2	2.2	7.4	0.0	5.0	95.0	24.7	98.8	4.15	24.90	123.70	-10	113.70	108.0 AP	
<u>OFF QUALITY SEED</u>																	
Treated (other than usual), Fermented, Hot																	
9	12.5	42.8	0.7	0.0	12.0	0.0	42.8	57.2	20.1	80.4	3.67	22.02	102.42	+5	107.42	61.5	
10	1.8	0.0	10.1	9.1	12.0	0.0	9.1	90.9	16.9	67.6	4.13	24.78	92.38	+5	97.38	88.5	
11	1.8	0.0	1.0	0.0	20.1	8.1	8.1	91.9	18.8	75.2	3.80	22.80	98.00	+5	103.00	94.5	
12	1.8	0.0	15.8	14.8	11.1	0.0	14.8	85.2	19.3	77.2	4.08	24.48	101.68	+5	106.68	91.0	
13	4.6	11.2	11.5	10.5	9.2	0.0	21.7	78.3	16.4	65.6	4.32	25.92	91.52	+5	96.52	75.5	
<u>BELOW GRADE SEED</u>																	
14	10.5	34.8	20.8	19.8	15.6	3.6	58.2	41.8	17.0	68.0	3.41	20.46	88.46	+5	93.46	B0*	
15	17.5	62.8	0.5	0.0	14.1	2.1	64.9	35.1	19.5	78.0	3.94	23.64	101.64	+5	106.64	B0*	

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 Fima 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.



# UNITED STATES Smith-Doxey Cotton Classing Office Territories

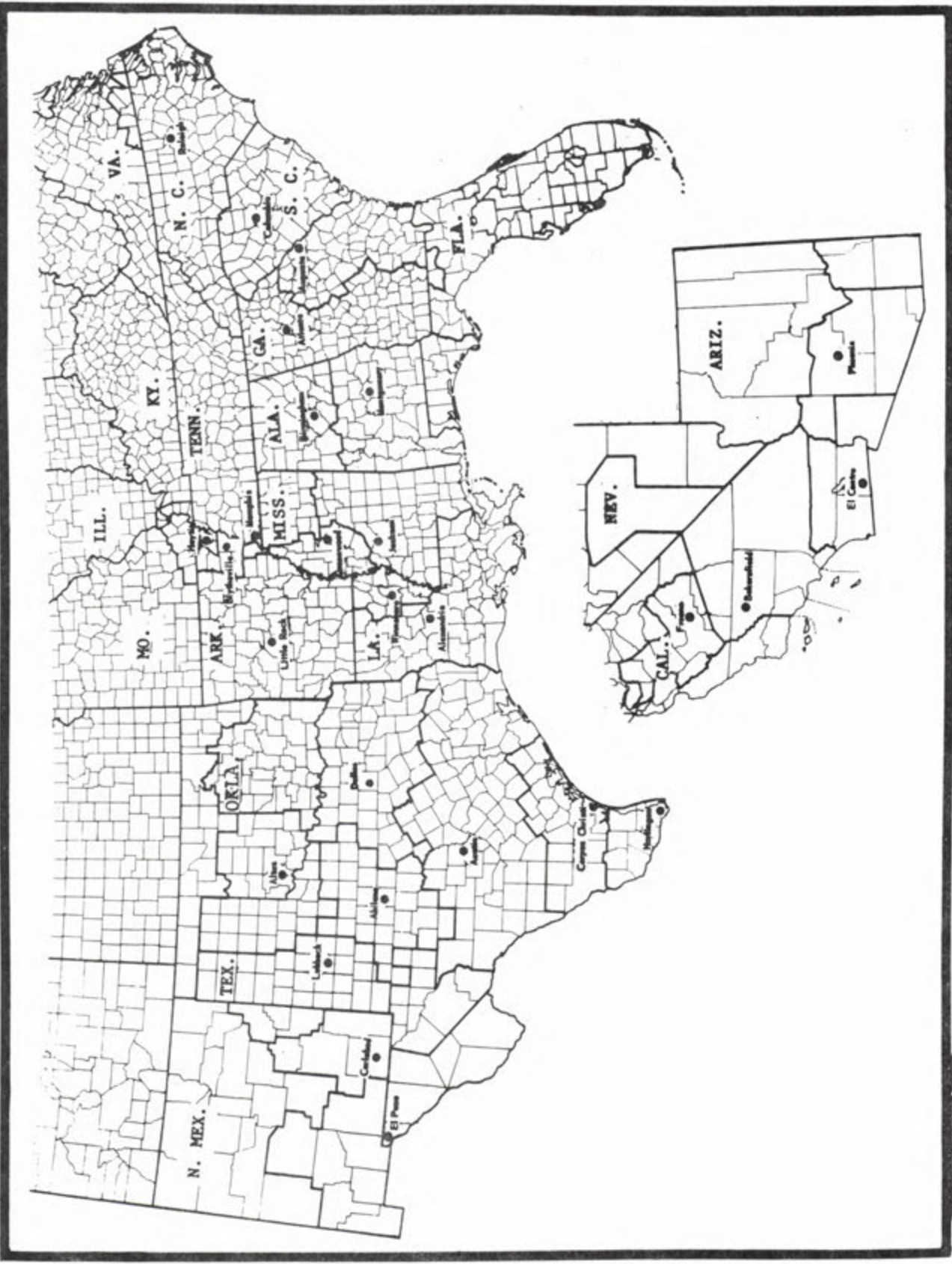


Table 3. Cottonseed: Quality factors, indexes and grades, by states and United States, 1974 and 1975

State	Cottonseed analysis														Average index				Average grade	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1974	1975	1974	1975		
	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975						
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.										
NC	19.6	19.3	3.89	4.09	9.6	11.3	1.0	7.3	1.5	1.2	106.85	106.95	98.8	76.6	106.0	81.5				
SC	20.0	19.4	4.11	4.08	9.6	11.0	1.8	5.6	1.3	1.2	109.74	107.50	97.6	84.0	107.5	90.5				
GA	19.5	19.8	4.08	3.90	10.3	11.0	3.8	5.7	0.9	0.9	107.57	107.93	91.4	84.3	98.5	90.5				
AL	18.4	18.9	3.80	3.64	11.1	11.8	1.4	3.1	1.6	1.6	101.35	102.43	97.6	93.3	99.0	95.5				
MS	17.3	18.1	3.69	3.59	11.9	12.2	1.4	1.1	1.2	1.2	96.13	98.72	97.6	98.4	94.0	97.5				
TN	18.1	18.4	3.56	3.55	12.2	12.7	0.7	1.2	1.5	1.1	98.43	99.72	98.5	98.4	97.5	98.5				
MO	17.1	17.6	3.66	3.61	12.3	12.5	0.7	1.1	1.5	1.1	95.36	96.90	98.4	98.5	94.0	96.0				
AR	17.2	17.5	3.67	3.68	12.4	11.9	1.1	0.8	1.1	0.8	95.68	97.17	97.9	99.0	94.0	96.5				
LA	18.0	18.6	3.77	3.52	12.0	11.7	3.0	1.0	0.8	0.7	99.68	100.34	93.6	99.1	93.5	99.5				
OK	17.8	18.4	4.09	3.89	10.3	9.3	1.1	0.6	2.1	2.3	100.52	101.76	98.2	98.6	99.0	100.5				
TX	17.1	17.6	3.97	3.90	9.4	8.3	1.7	0.7	2.7	2.5	96.79	98.61	94.8	97.9	92.5	97.0				
NM	19.2	19.2	3.83	3.85	9.5	7.4	0.6	0.4	2.1	2.2	104.53	104.56	98.6	98.7	103.5	103.5				
All other	18.7	18.8	3.97	3.96	9.0	8.1	0.9	1.4	1.7	1.2	103.41	103.77	98.2	96.5	102.0	100.5				
U. S.	17.7	18.0	3.82	3.75	11.0	10.6	1.6	1.4	1.6	1.6	98.42	99.50	96.5	97.0	95.5	96.5				

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1974 and 1975

NORTH CAROLINA

Month	Cottonseed analysis										Average index				Average grade		Samples		
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1974		1975		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1974	1975	1974	1975	No.	No.	1974	1975	
Sept.	-	17.5	-	4.07	-	12.9	-	1.2	-	0.7	-	98.83	-	99.1	-	98.5	-	6	
Oct.	19.6	19.3	3.99	4.15	9.7	11.6	1.1	8.4	0.7	0.9	107.65	107.36	99.2	74.1	107.5	78.5	216	138	
Nov.	19.6	19.4	3.89	4.06	9.1	11.3	0.8	7.7	1.6	1.3	106.91	106.91	99.3	74.3	106.5	80.0	520	316	
Dec.	19.5	19.3	3.81	4.08	10.0	11.0	0.8	5.5	1.9	1.2	106.29	106.92	99.0	83.7	105.0	88.0	226	98	
Jan.	19.3	19.2	3.81	4.20	11.0	10.1	1.2	4.2	2.0	2.0	105.14	107.57	98.3	90.0	103.5	96.5	74	14	
Feb.	19.3	18.9	3.88	3.92	10.5	10.6	2.0	6.9	1.9	1.0	105.70	104.67	97.5	80.1	103.0	85.5	28	6	
Mar. and later	19.9	20.0	3.98	4.30	9.4	9.1	3.3	7.6	2.1	2.2	108.75	110.63	92.3	76.8	101.0	83.0	44	4	
Season	19.6	19.3	3.89	4.09	9.6	11.3	1.0	7.3	1.5	1.2	106.85	106.95	98.8	76.6	106.0	81.5	1,108	582	
SOUTH CAROLINA																			
Sept.	19.5	19.0	4.11	4.00	11.3	11.8	3.9	2.2	1.4	1.7	107.75	105.14	88.5	92.0	94.5	98.5	8	44	
Oct.	19.8	19.1	4.13	4.06	10.4	11.6	1.9	6.4	0.7	1.1	109.34	105.90	98.4	80.3	108.0	84.5	554	286	
Nov.	20.1	19.5	4.12	4.07	8.7	11.4	1.5	6.1	1.4	1.1	110.48	107.81	98.6	81.9	109.0	88.5	600	316	
Dec.	20.0	19.7	4.08	4.07	9.3	10.2	1.5	4.1	1.7	1.1	109.75	108.76	98.2	90.5	108.0	98.5	284	182	
Jan.	19.7	19.4	4.04	4.18	10.2	10.1	1.9	5.9	1.7	1.3	108.20	107.99	97.2	84.4	105.5	91.0	204	74	
Feb.	20.0	19.8	4.12	4.09	9.8	9.5	2.4	5.1	1.4	1.7	110.40	108.84	96.1	86.3	106.5	94.5	126	58	
Mar. and later	20.0	20.1	4.09	4.18	9.2	9.1	4.2	5.8	2.3	1.6	110.12	110.56	86.9	85.1	97.0	93.0	80	40	
Season	20.0	19.4	4.11	4.08	9.6	11.0	1.8	5.6	1.3	1.2	109.74	107.50	97.6	84.0	107.5	90.5	1,856	1,000	
GEORGIA																			
Sept.	19.4	19.3	4.09	4.13	12.4	10.0	3.6	6.4	0.7	1.2	107.34	107.29	90.3	80.8	98.5	87.0	114	14	
Oct.	19.7	19.6	4.14	3.91	10.1	11.4	3.7	6.4	0.7	0.8	108.85	107.31	92.3	81.5	100.5	87.0	1,040	266	
Nov.	19.5	19.9	4.04	3.88	10.2	11.4	3.8	6.5	1.0	0.7	107.04	108.01	91.3	81.1	98.0	87.0	1,026	548	
Dec.	19.5	20.0	4.04	3.90	10.1	10.7	3.7	4.9	1.2	0.8	107.42	108.46	91.9	87.2	99.0	94.5	536	386	
Jan.	19.1	19.6	4.02	3.92	11.0	11.0	3.9	3.8	1.2	1.1	105.40	107.39	89.3	91.9	95.5	99.0	228	120	
Feb.	19.1	19.4	4.02	4.00	11.3	9.8	4.7	4.9	1.2	1.9	105.99	107.01	86.9	85.9	92.0	92.5	70	54	
Mar. and later	19.3	19.8	4.05	4.02	10.2	10.1	4.3	4.0	1.8	1.2	106.41	108.52	89.7	91.3	95.5	99.0	60	60	
Season	19.5	19.8	4.08	3.90	10.3	11.0	3.8	5.7	0.9	0.9	107.57	107.93	91.4	84.3	98.5	90.5	3,074	1,448	



Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1974 and 1975 (Continued)

ALABAMA

Month	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1974	1975	1974	1975	No.	No.
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1974	1975	1974	1975	1974	1975				
	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975				
Sept.	18.1	18.0	4.08	3.77	12.6	12.3	2.4	4.3	1.2	2.3	101.92	99.75	96.0	89.2	98.0	89.5	50	10		
Oct.	18.6	18.8	3.87	3.61	10.7	12.2	1.4	3.4	1.1	1.3	102.56	101.80	98.3	92.3	101.0	94.0	1,252	442		
Nov.	18.5	18.9	3.77	3.64	11.3	12.1	1.1	3.1	1.6	1.5	101.49	102.49	98.4	93.2	100.0	95.5	1,264	978		
Dec.	18.3	19.2	3.74	3.65	10.8	11.6	1.0	2.6	1.9	1.8	100.63	102.95	98.2	95.0	99.0	98.0	684	744		
Jan.	18.0	18.8	3.73	3.67	11.9	11.4	1.6	3.3	2.1	1.8	99.04	102.22	96.5	92.5	95.5	94.5	362	254		
Feb.	17.8	18.7	3.69	3.70	11.8	10.6	1.8	3.6	2.1	1.9	98.17	101.98	94.5	91.6	92.5	93.5	118	128		
Mar. and later	18.3	18.8	3.81	3.66	11.0	10.9	4.1	4.4	2.1	2.2	101.34	101.86	87.6	88.6	88.5	90.5	136	70		

Season	18.4	18.9	3.80	3.64	11.1	11.8	1.4	3.1	1.6	1.6	101.35	102.43	97.6	93.3	99.0	95.5	3,866	2,626
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MISSISSIPPI

Sept.	16.4	17.1	4.06	3.82	12.7	12.3	3.6	6.9	0.9	2.5	94.98	96.08	90.9	61.5	86.5	71.5	94	20
Oct.	17.5	18.2	3.79	3.63	11.3	12.2	1.2	1.0	0.8	0.9	97.55	99.66	99.2	98.5	97.0	98.5	5,060	1,866
Nov.	17.3	18.5	3.62	3.60	12.6	12.1	0.9	0.9	1.1	1.1	95.83	100.49	98.7	99.0	95.0	100.0	3,840	3,476
Dec.	17.0	17.6	3.62	3.56	11.6	12.6	0.9	1.0	1.5	1.4	94.76	96.75	98.9	98.6	94.0	96.0	2,326	2,274
Jan.	16.7	17.3	3.58	3.53	12.9	12.5	1.6	1.3	1.9	1.7	93.15	95.13	96.7	98.1	90.0	93.5	484	528
Feb.	16.7	17.5	3.65	3.58	13.0	11.7	3.4	1.7	2.4	2.2	93.58	96.15	91.2	97.5	85.0	94.0	268	372
Mar. and later	17.1	17.6	3.69	3.58	11.7	11.6	7.0	2.9	2.5	2.6	95.08	96.71	76.8	92.7	72.5	90.0	598	240

Season	17.3	18.1	3.69	3.59	11.9	12.2	1.4	1.1	1.2	1.2	96.13	98.72	97.6	98.4	94.0	97.5	12,670	8,776
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TENNESSEE

Sept.	16.2	17.8	3.92	3.41	12.6	15.7	6.0	1.5	1.8	0.9	92.50	96.50	87.5	96.1	77.5	92.0	2	10
Oct.	17.9	18.1	3.63	3.53	11.8	12.9	0.6	0.9	1.1	0.7	98.22	98.41	99.2	98.8	98.0	97.5	904	896
Nov.	18.2	18.5	3.54	3.55	12.4	12.8	0.6	1.2	1.5	1.3	98.95	100.35	98.7	98.2	98.0	99.0	1,144	766
Dec.	18.1	18.9	3.53	3.62	12.2	11.8	0.5	1.2	1.7	1.5	98.13	102.29	98.7	99.1	97.5	101.5	730	270
Jan.	17.8	18.5	3.49	3.64	12.9	11.8	0.8	2.3	1.9	1.8	97.04	100.53	98.0	96.4	95.5	97.0	166	46
Feb.	17.8	18.2	3.58	3.67	12.8	11.6	2.4	2.7	1.6	2.0	97.39	99.79	94.2	95.6	92.5	95.5	56	28
Mar. and later	18.7	18.1	3.51	3.58	12.1	11.8	4.8	3.4	2.6	2.8	100.74	99.02	84.7	91.4	85.0	89.0	58	24

Season	18.1	18.4	3.56	3.55	12.2	12.7	0.7	1.2	1.5	1.1	98.43	99.72	98.5	98.4	97.5	98.5	3,060	2,040
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Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1974 and 1975 (Continued)

MISSOURI

Month	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1974		1975		No.	
	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Sept.	17.3	17.5	3.92	3.68	11.1	14.6	4.0	1.7	0.6	1.0	97.17	97.21	89.6	93.1	88.5	91.0	12	48		
Oct.	17.3	17.8	3.74	3.65	11.7	12.2	0.6	1.0	1.2	1.0	96.51	97.77	98.9	99.0	96.0	97.0	916	996		
Nov.	17.1	17.3	3.63	3.54	12.5	13.0	0.5	1.1	1.6	1.1	94.92	95.30	98.7	98.5	94.0	94.0	686	448		
Dec.	16.9	17.5	3.59	3.55	12.6	12.1	0.5	1.2	1.7	1.3	94.06	96.21	98.4	98.8	93.0	95.5	402	138		
Jan.	16.8	17.3	3.54	3.45	13.8	12.9	0.9	1.7	2.6	1.3	93.21	94.76	96.3	97.4	90.0	93.0	114	38		
Feb.	17.1	17.4	3.62	3.65	12.6	11.9	1.7	1.9	2.2	1.4	95.21	96.23	97.2	97.1	93.0	93.5	100	22		
Mar. and later	17.1	17.8	3.64	3.64	12.4	11.1	3.2	3.0	2.2	2.1	95.18	97.61	91.8	92.9	87.0	91.5	40	38		
Season	17.1	17.6	3.66	3.61	12.3	12.5	0.7	1.1	1.5	1.1	95.36	96.90	98.4	98.5	94.0	96.0	2,270	1,728		
Sept.	15.8	16.9	3.81	3.71	13.7	14.7	4.8	1.1	0.9	0.7	90.00	94.68	86.0	95.9	81.5	91.5	16	178		
Oct.	17.3	17.5	3.77	3.74	11.6	11.6	0.9	0.7	0.7	0.6	96.72	97.47	99.3	99.4	96.5	97.0	2,922	3,280		
Nov.	17.3	17.7	3.66	3.63	12.8	12.3	0.8	0.7	1.0	0.8	95.89	97.54	98.6	98.9	95.0	97.0	2,966	2,236		
Dec.	17.0	17.4	3.61	3.61	12.6	11.9	0.7	0.8	1.2	1.1	94.61	96.17	98.7	99.1	93.5	95.5	2,366	790		
Jan.	16.9	17.1	3.60	3.63	13.0	12.5	1.2	1.1	1.5	1.4	94.27	95.20	98.0	98.3	92.5	93.5	620	224		
Feb.	17.1	16.9	3.59	3.66	12.9	12.7	2.4	1.8	1.8	1.7	94.43	94.53	94.5	96.2	90.0	91.0	384	118		
Mar. and later	17.5	18.0	3.63	3.66	12.0	10.8	5.7	1.6	2.2	1.1	96.53	98.75	82.1	98.1	78.5	97.0	406	110		
Season	17.2	17.5	3.67	3.68	12.4	11.9	1.1	0.8	1.1	0.8	95.68	97.17	97.9	99.0	94.0	96.5	9,680	6,936		
Sept.	17.2	18.4	3.91	3.52	13.4	11.2	5.4	3.3	0.7	0.7	97.39	99.13	83.7	90.7	80.5	93.0	210	12		
Oct.	18.1	18.7	3.82	3.49	11.5	11.6	3.2	1.1	0.7	0.7	100.39	100.75	93.6	98.7	94.0	99.5	2,278	794		
Nov.	18.0	18.7	3.70	3.51	13.1	12.0	2.2	0.9	0.7	0.7	98.99	101.01	96.1	99.2	95.5	100.5	1,146	1,314		
Dec.	18.2	18.0	3.71	3.57	11.5	11.3	2.0	0.9	1.1	0.9	99.83	98.59	96.9	99.6	97.0	98.5	744	476		
Jan.	17.6	17.8	3.64	3.52	12.6	12.0	4.1	1.2	1.4	1.0	97.01	96.94	89.2	99.1	87.0	96.0	142	64		
Feb.	18.1	16.9	3.69	3.51	11.7	11.6	5.9	1.4	1.1	1.5	99.57	93.21	82.2	99.1	82.5	92.5	76	14		
Mar. and later	18.0	18.2	3.68	3.56	11.3	10.9	9.3	1.5	1.7	0.6	98.81	99.10	61.4	99.2	67.5	96.0	60	26		
Season	18.0	18.6	3.77	3.52	12.0	11.7	3.0	1.0	0.8	0.7	99.68	100.34	93.6	99.1	93.5	99.5	4,656	2,700		

ARKANSAS

LOUISIANA

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Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1974 and 1975 (Continued)

OKLAHOMA

Month	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1974		1975		No.	
	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	No.	No.
Oct.	18.3	18.2	3.98	3.98	10.4	10.2	1.5	1.1	1.4	1.5	102.30	102.00	98.4	97.5	101.0	99.5	42	16		
Nov.	17.8	18.3	4.14	3.97	11.2	10.0	1.2	0.5	1.6	1.3	101.00	102.05	98.6	99.5	100.0	101.5	128	54		
Dec.	17.8	18.4	4.13	3.94	10.3	9.0	1.0	0.5	1.9	2.2	101.01	102.18	98.8	98.7	100.0	101.0	796	654		
Jan.	17.8	18.3	4.08	3.79	10.0	9.6	1.0	0.6	2.3	2.7	100.46	101.01	98.5	98.3	99.0	99.5	664	290		
Feb.	17.6	18.1	4.03	3.79	10.7	9.2	1.5	0.9	2.7	3.2	99.28	100.27	97.0	97.6	97.0	98.0	224	46		
Mar. and later	17.2	18.2	3.95	3.70	11.2	9.1	2.5	1.7	2.7	2.6	97.51	100.13	91.9	98.5	91.0	98.5	68	4		
Season	17.8	18.4	4.09	3.89	10.3	9.3	1.1	0.6	2.1	2.3	100.52	101.76	98.2	98.6	99.0	100.5	1,922	1,064		
TEXAS																				
Aug.	18.1	17.6	3.82	3.78	8.8	11.2	0.5	1.6	1.0	1.2	100.37	97.76	99.5	96.1	100.0	96.5	2,400	834		
Sept.	16.3	16.9	3.87	3.78	11.2	11.0	1.4	1.8	1.5	1.7	93.38	95.10	97.2	95.7	91.0	91.5	842	1,034		
Oct.	16.6	16.5	4.10	3.95	10.8	9.1	8.0	1.4	2.0	2.0	95.52	94.74	68.8	95.7	70.0	91.5	1,144	892		
Nov.	17.8	17.4	4.01	3.96	9.9	8.2	1.8	0.5	2.2	2.0	99.51	98.27	94.3	98.9	95.0	97.5	1,592	3,216		
Dec.	17.0	17.8	4.02	3.92	8.8	7.4	0.9	0.5	3.2	2.6	96.89	99.80	97.4	98.4	94.5	98.5	5,740	5,726		
Jan.	16.6	17.8	3.97	3.85	9.5	8.5	1.3	0.5	3.6	3.3	94.50	99.19	96.3	97.7	91.5	97.0	2,568	2,220		
Feb.	16.5	17.9	3.96	3.83	10.0	7.9	1.9	0.8	3.6	3.4	94.17	99.58	94.1	97.4	89.0	97.5	888	506		
Mar. and later	16.5	17.9	3.94	3.90	9.7	7.8	2.5	1.3	3.9	3.9	93.94	99.58	91.9	94.9	86.5	94.5	358	258		
Season	17.1	17.6	3.97	3.90	9.4	8.3	1.7	0.7	2.7	2.5	96.79	98.56	94.8	97.9	92.5	97.0	15,532	14,686		
NEW MEXICO																				
Oct.	20.2	20.5	3.61	3.72	12.1	9.2	0.6	0.4	1.0	0.7	107.64	110.36	99.0	99.9	106.5	110.5	50	32		
Nov.	19.7	20.0	3.78	3.85	10.3	7.6	0.4	0.4	1.0	1.5	106.70	107.92	99.6	99.3	106.5	107.5	258	168		
Dec.	19.1	18.6	3.91	3.87	8.5	6.9	0.6	0.4	2.5	2.5	103.76	102.22	98.4	98.4	102.5	101.0	284	170		
Jan.	18.6	18.1	3.83	3.86	9.3	7.4	0.7	0.5	3.0	3.5	102.39	100.28	97.9	97.5	100.5	98.0	94	76		
Feb.	18.0	18.9	3.79	3.92	9.3	7.4	1.1	0.5	4.2	3.1	99.38	103.56	96.4	98.0	96.0	102.0	60	16		
Mar. and later	19.4	18.2	3.86	4.03	8.6	7.3	1.1	0.6	3.1	2.8	106.05	103.19	97.9	98.0	103.5	101.0	10	8		
Season	19.2	19.2	3.83	3.85	9.5	7.4	0.6	0.4	2.1	2.2	104.53	104.56	98.6	98.7	103.5	103.5	756	470		



Table 5. Cottonseed: Quality factors, indexes and grades by classing office territories, by states, 1975

SOUTHEASTERN

Classing Office	Cottonseed analysis						Average index		Average grade	Samples
	Oil		Ammonia	Moisture	Free fatty acids	Foreign matter	Quantity	Quality		
	1975 Pct.	1975 Pct.	1975 Pct.	1975 Pct.	1975 Pct.	1975 Pct.	1975	1975	1975 No.	
Raleigh NC	19.3	4.09	11.3	7.3	1.2	1.2	106.96	76.7	82.0	592 1/
Columbia SC	19.4	4.08	11.0	5.6	1.2	1.2	107.50	84.0	90.5	1,000
Augusta GA	19.8	4.03	11.0	4.7	1.0	1.0	108.50	88.6	96.0	248
Atlanta GA	19.8	3.88	11.0	5.9	0.8	0.8	107.81	83.4	89.5	1,200
Birmingham AL	18.7	3.55	12.0	2.6	1.5	1.5	100.88	94.9	96.0	1,688
Montgomery AL	19.3	3.81	11.4	4.0	1.7	1.7	105.14	90.2	95.0	968 2/

SOUTH CENTRAL

Greenwood MS	17.9	3.61	12.2	1.0	1.2	1.2	98.03	98.4	97.0	6,458
Jackson MS	18.7	3.55	12.2	1.4	1.1	1.1	101.15	98.4	100.0	1,012
Memphis TN	18.3	3.57	12.5	1.1	1.1	1.1	99.36	98.5	98.0	3,814
AR	18.4	3.55	12.7	1.2	1.1	1.1	99.72	98.4	98.5	2,040
MS	16.9	3.80	12.4	0.8	0.8	0.8	95.25	98.9	94.5	468
Hayti MO	18.6	3.51	12.2	1.1	1.3	1.3	100.26	98.4	99.0	1,306
Blytheville AR	17.6	3.61	12.5	1.1	1.1	1.1	96.90	98.5	96.0	1,728
Little Rock AR	17.0	3.70	12.8	1.0	0.8	0.8	94.86	96.5	93.5	2,378
Winnsboro LA	18.0	3.66	11.4	0.6	0.7	0.7	98.73	99.4	98.5	4,090
Alexandria LA	18.5	3.52	11.8	0.9	0.7	0.7	100.30	99.1	99.5	2,190
LA	18.6	3.50	11.4	1.0	0.7	0.7	100.52	99.1	99.5	510

1/ Includes 10 certificates for Virginia.

2/ Includes 30 certificates for Florida.

Table 5. Cottonseed: Quality factors, indexes and grades by classing office territories, by states, 1975 (Continued)

SOUTHWESTERN

Classing Office	Cottonseed analysis										Average index		Samples
	Oil	Ammonia	Moisture	Free fatty acids	Foreign matter	Quantity		Quality		Average grade	No.		
						1975	Pct.	1975	Pct.			1975	
Altus	18.2	3.88	8.6	0.6	2.3	100.88	96.7	99.5	2,456				
OK	18.4	3.90	9.2	0.6	2.3	101.76	96.6	100.5	1,020				
TX	18.0	3.87	8.2	0.7	2.2	100.26	98.7	99.0	1,436				
Dallas	16.5	3.98	9.0	0.8	2.1	94.53	98.4	93.5	850				
TX	16.4	3.99	9.0	0.8	2.1	94.13	98.4	93.0	806				
OK	18.6	3.78	9.6	0.7	1.8	101.78	99.1	101.5	44				
Austin	17.0	3.72	10.9	1.4	1.7	95.17	97.0	92.5	886				
TX	17.7	3.82	11.5	2.2	1.3	96.41	94.5	94.5	568				
Corpus Christi	17.2	3.74	11.6	2.7	0.9	95.90	95.4	92.5	420				
TX	18.0	3.94	8.2	0.6	2.7	100.59	98.3	99.0	2,702				
Abilene	17.5	3.92	7.6	0.5	2.7	98.49	98.1	97.0	7,778				
Lubbock	17.5	3.92	7.6	0.5	2.7	98.49	98.1	97.0	7,732				
TX	17.5	3.99	7.1	0.4	2.0	98.71	99.0	98.0	46				
NM	19.9	3.73	7.6	0.5	2.2	106.48	98.4	105.0	422 <sup>3/</sup>				
El Paso	20.1	3.68	7.9	0.5	2.6	106.63	97.6	104.5	136				
TX	20.0	3.71	7.7	0.4	2.1	107.00	98.8	106.0	216				
NM													

WESTERN

Carlsbad	18.6	3.98	7.2	0.4	2.3	103.32	98.5	102.0	208
NM									
Bakersfield	18.3	4.12	7.6	0.4	0.6	103.02	100.0	103.5	84
CA									

<sup>3/</sup> Includes 70 bales for Arizona.

*Centrifuged*

Table 6. Percentage distribution of quantity index by specified frequencies, by states and United States, 1974 and 1975

State	Quantity Index														Total						
	Under 65		65-69		70-74		75-79		80-84		85-89		90-94		95-99		100-104		105 and over		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
NC	-	-	-	-	-	-	-	-	-	-	-	-	0.3	2.5	2.1	25.1	20.5	72.4	77.1	100.0	100.0
SC	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.4	1.4	5.0	22.6	94.6	75.2	100.0	100.0
CA	-	-	-	-	0.1	-	-	-	-	-	0.1	0.1	0.6	0.3	1.6	1.4	17.4	16.6	80.2	81.6	100.0
AL	-	-	0.1	-	-	-	0.1	-	-	-	0.5	0.1	5.1	3.0	27.3	22.6	49.9	49.4	17.0	24.9	100.0
MS	0.1	*	*	0.1	*	0.1	0.1	0.1	0.9	0.4	7.8	2.8	26.9	14.9	43.5	39.1	18.7	36.3	1.9	6.4	100.0
TN	-	-	-	-	-	-	0.1	-	-	0.1	0.9	0.3	13.9	7.1	50.5	43.5	31.3	42.8	3.3	6.2	100.0
MO	0.1	-	-	-	-	-	-	-	0.5	-	6.3	1.9	35.7	24.2	45.9	55.4	11.2	17.7	0.3	0.8	100.0
AR	-	*	*	0.1	*	0.1	0.2	0.1	1.2	0.4	7.5	4.2	30.8	23.4	43.9	44.8	15.8	23.3	0.6	3.7	100.0
LA	-	-	-	-	-	-	-	-	0.1	0.1	0.7	0.7	7.9	5.8	41.6	34.6	44.0	52.4	5.7	6.4	100.0
OK	-	-	-	-	0.1	-	-	-	0.2	-	1.1	0.4	5.5	2.4	29.9	23.4	55.2	60.1	8.0	13.7	100.0
TX	0.1	*	0.1	*	0.3	*	0.8	*	3.2	0.3	8.6	2.1	21.7	16.8	32.6	40.9	23.8	33.9	8.8	6.0	100.0
NM	-	-	-	-	-	-	0.3	-	0.5	0.4	1.1	0.9	4.0	4.7	14.0	11.9	28.3	32.4	51.8	49.7	100.0
All other	-	-	-	-	-	-	-	-	-	-	-	-	1.5	2.1	21.2	11.4	45.6	54.5	31.7	32.0	100.0
U. S.	0.1	*	*	0.1	*	0.3	*	1.2	0.3	5.4	2.1	19.1	14.2	34.7	36.8	25.1	34.3	14.0	12.3	100.0	100.0

\* Less than 0.05 percent.



Table 7. Percentage distribution of quality index by specified frequencies, by states and United States, 1974 and 1975

State	Quality Index																		Total			
	Below grade		Below prime quality																Prime quality 100		1974	1975
	Pct.	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		Pct.	Pct.				
			1974	1975	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.			Pct.	Pct.		
NC	-	1.4	0.2	2.1	-	15.8	0.2	39.4	0.7	13.7	0.7	14.8	1.4	6.9	62.7	4.9	34.1	1.0	100.0	100.0		
SC	0.1	0.4	-	0.6	0.8	12.2	0.6	18.0	0.8	12.0	2.4	18.0	8.5	15.0	56.1	18.8	30.7	5.0	100.0	100.0		
GA	0.1	-	0.1	0.1	2.0	9.4	6.0	20.9	7.6	13.8	18.2	22.5	24.6	15.6	36.3	14.7	5.1	3.0	100.0	100.0		
AL	0.1	-	0.1	0.2	0.5	0.6	0.9	2.7	0.9	6.1	1.9	13.0	6.7	25.9	68.7	46.2	20.2	5.3	100.0	100.0		
MS	0.1	0.1	0.3	-	1.3	0.1	1.3	0.2	0.9	0.3	1.0	0.8	3.0	2.9	57.9	70.8	34.2	24.8	100.0	100.0		
TN	-	-	0.1	-	0.2	-	0.4	0.1	0.4	0.4	0.3	0.4	1.6	2.8	78.6	79.2	18.4	17.1	100.0	100.0		
MO	-	-	-	-	0.4	0.6	0.2	-	0.4	-	0.5	0.5	2.5	1.8	78.6	72.4	17.4	24.7	100.0	100.0		
AR	*	-	*	-	0.8	0.1	0.8	0.1	0.8	*	1.2	0.3	3.7	2.0	62.5	50.7	30.2	46.8	100.0	100.0		
LA	0.3	-	0.3	0.1	1.5	0.1	4.8	0.2	4.9	0.1	9.5	0.2	16.1	1.1	45.9	47.3	16.7	50.9	100.0	100.0		
OK	0.1	-	-	-	0.2	-	0.4	-	0.1	0.2	0.9	-	2.7	3.0	77.8	80.1	17.8	16.7	100.0	100.0		
TX	1.0	0.1	0.4	0.1	3.1	0.4	1.9	0.3	1.2	0.3	1.6	0.7	8.3	4.0	66.1	83.4	16.4	10.7	100.0	100.0		
NM	-	-	-	-	-	-	-	-	-	-	-	0.4	7.7	4.3	54.5	58.3	37.8	37.0	100.0	100.0		
All other	0.3	-	-	-	2.1	-	0.6	2.1	0.3	5.2	0.9	2.1	5.4	9.3	61.5	19.6	31.0	59.6	100.0	100.0		
U. S.	0.3	0.1	0.2	0.1	1.5	1.0	1.7	1.9	1.5	1.5	2.7	2.6	6.9	5.1	61.8	65.5	23.4	22.2	100.0	100.0		

\* Less than 0.05 percent.

Table 8. Percentage distribution of grades by specified frequencies, by states and United States, 1974 and 1975

State	Grade														Total							
	Below grade 00.0-39.9		40.0-74.9		75.0-79.9		80.0-84.9		85.0-89.9		90.0-94.9		95.0-99.9		100.0		105.0		110.0 and over			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
NC	-	1.4	0.2	19.9	0.2	14.8	-	19.9	0.4	14.4	1.1	13.1	4.2	9.3	31.7	4.1	49.9	1.0	12.3	2.1	100.0	100.0
SC	-	0.4	0.6	13.2	0.2	6.6	0.5	8.4	0.5	12.6	1.3	14.4	3.3	14.2	15.7	15.2	46.5	8.2	31.4	6.8	100.0	100.0
GA	0.1	0.1	2.0	8.8	1.2	7.9	3.8	10.6	6.7	13.3	14.3	18.2	20.0	16.6	25.1	13.3	21.9	7.6	4.9	3.6	100.0	100.0
AL	0.1	-	1.1	1.5	0.5	1.0	1.0	3.2	2.7	9.0	9.4	22.8	31.6	36.1	42.0	20.9	11.3	4.9	0.3	0.6	100.0	100.0
MS	0.2	0.2	2.7	0.4	1.6	0.4	2.9	1.0	10.6	6.1	27.2	18.7	37.0	36.3	16.0	30.9	1.8	5.9	-	0.1	100.0	100.0
TN	-	-	0.6	0.1	0.2	0.3	0.4	0.3	3.5	2.3	18.6	15.9	48.6	42.9	26.0	33.1	2.0	4.9	0.1	0.2	100.0	100.0
MO	-	-	0.6	0.6	0.5	-	2.2	0.9	12.6	6.0	35.6	28.6	39.0	48.1	9.2	15.1	0.1	0.7	0.2	-	100.0	100.0
AR	*	-	1.5	0.3	1.0	0.3	3.4	1.2	11.3	7.4	31.3	24.8	38.2	40.1	12.7	21.8	0.6	4.0	*	0.1	100.0	100.0
LA	0.3	-	3.6	0.4	3.6	0.1	5.8	0.2	9.3	1.9	21.3	8.6	34.1	35.0	19.7	46.2	2.3	7.6	-	-	100.0	100.0
OK	-	-	0.5	-	0.4	-	0.7	0.8	2.4	1.1	10.6	6.4	32.7	29.0	46.6	52.4	6.1	10.3	-	-	100.0	100.0
TX	1.1	0.1	5.8	0.7	3.2	0.4	6.1	1.0	11.3	5.1	20.8	22.4	26.8	40.9	18.1	25.8	5.6	3.3	1.2	0.3	100.0	100.0
NM	-	-	0.3	-	0.5	-	0.8	1.3	4.0	1.7	7.6	7.7	13.5	16.1	24.6	28.5	32.8	29.8	15.9	14.9	100.0	100.0
All other	0.3	-	-	2.1	0.3	-	0.3	2.1	3.0	6.2	4.5	8.3	22.5	12.4	45.1	46.4	17.7	18.4	6.3	4.1	100.0	100.0
U. S.	0.4	0.1	2.8	1.4	1.7	0.9	3.5	1.8	8.9	6.0	21.6	20.1	31.7	37.2	20.3	26.8	7.1	5.0	2.0	0.7	100.0	100.0

\* Less than 0.05 percent.

Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1974 and 1975

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			
	1974	Pct.	1975	Pct.	1974	Pct.	1975	Pct.	1974	Pct.	1975	Pct.	1974	Pct.	1975	Pct.	1974	Pct.	1975	Pct.	1974	Pct.	1975	Pct.
NC	-	-	-	-	-	-	0.3	0.5	-	1.3	3.4	3.6	5.2	12.6	17.5	52.0	60.2	27.7	12.7	2.3	0.7	100.0	100.0	
SC	-	-	-	-	-	-	0.1	0.6	0.1	0.4	0.2	3.0	7.2	4.3	16.0	44.3	43.0	44.1	28.6	6.4	1.2	100.0	100.0	
GA	-	-	0.1	0.1	-	0.1	0.3	-	0.3	0.3	1.4	0.8	4.6	2.1	12.6	8.3	54.2	44.8	24.6	38.5	1.9	5.0	100.0	100.0
AL	0.1	-	0.7	0.1	1.1	0.6	3.4	1.6	6.8	3.4	13.6	6.7	22.7	15.2	25.8	23.8	24.0	38.0	1.7	10.3	0.1	0.3	100.0	100.0
MS	2.1	0.8	9.8	3.1	9.8	4.3	15.5	7.8	18.5	11.4	17.4	15.5	12.7	17.3	8.3	17.5	5.5	19.4	0.4	2.8	-	0.1	100.0	100.0
TN	0.1	0.1	1.1	0.4	1.8	1.1	6.2	3.4	12.5	6.8	21.3	16.7	25.1	24.4	18.4	22.4	12.8	22.3	0.6	2.3	0.1	0.1	100.0	100.0
MO	0.8	0.1	6.1	2.0	12.2	4.4	20.9	14.0	25.7	20.3	18.2	26.6	10.7	18.8	4.2	10.4	1.1	3.3	-	0.1	0.1	-	100.0	100.0
AR	1.8	1.3	8.2	5.7	9.8	7.6	17.5	13.1	20.7	18.6	18.4	18.0	13.4	14.9	7.1	10.9	3.0	9.2	0.1	0.7	*	-	100.0	100.0
LA	0.2	0.2	1.9	1.0	2.4	0.7	7.1	2.3	14.4	5.6	18.3	11.3	21.1	21.2	18.4	24.6	15.4	29.3	0.8	3.6	*	0.2	100.0	100.0
OK	0.7	-	2.1	0.8	4.0	0.8	7.4	2.4	13.9	6.4	27.2	13.7	27.8	27.4	12.7	30.1	4.2	17.8	-	0.6	-	-	100.0	100.0
TX	9.7	1.1	13.6	5.4	9.9	8.5	11.9	11.7	14.3	16.2	13.9	19.2	9.5	17.8	6.8	11.4	7.1	7.7	2.1	0.6	1.2	0.4	100.0	100.0
NM	1.6	0.9	2.4	0.9	1.1	2.6	2.6	3.0	5.8	4.7	5.8	8.9	6.6	8.9	0.3	14.8	29.4	21.7	21.4	20.4	13.0	13.2	100.0	100.0
All other	1.0	0.6	-	1.5	2.1	3.3	1.0	7.2	2.1	14.5	10.3	16.9	20.6	18.1	20.6	21.4	29.9	10.2	5.2	6.3	7.2	100.0	100.0	
U. S.	3.3	0.8	7.4	3.5	7.1	5.2	11.2	8.5	14.4	12.4	15.2	15.8	13.3	16.9	10.4	15.2	12.5	17.0	4.3	4.1	0.9	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, 1974 and 1975

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.		
NC	-	-	-	-	-	-	0.2	-	3.6	-	18.2	0.7	24.9	6.9	21.5	26.8	16.1	28.4	15.5	37.2	100.0	100.0
SC	-	-	-	-	-	-	0.1	0.6	0.2	1.0	1.0	2.0	4.0	5.8	17.2	20.4	37.3	32.6	40.2	37.6	100.0	100.0
GA	-	-	-	-	0.1	-	0.3	0.8	1.1	3.3	4.3	8.6	9.5	25.6	18.5	31.0	25.8	18.8	40.4	11.9	100.0	100.0
AL	-	0.1	0.1	-	0.3	1.6	3.1	9.5	9.2	22.8	22.8	27.9	27.0	20.6	17.6	12.3	11.0	4.5	8.9	0.7	100.0	100.0
MS	*	0.1	0.1	0.2	1.0	1.7	6.8	10.7	15.5	26.9	28.3	33.0	24.6	20.3	15.2	6.0	6.6	1.0	1.9	0.1	100.0	100.0
TN	0.1	0.1	0.1	0.3	2.2	2.5	15.7	15.3	30.3	33.2	30.8	27.0	14.4	16.1	5.8	5.1	0.5	0.3	0.1	0.1	100.0	100.0
MO	-	-	-	-	0.7	1.0	2.8	5.3	18.1	26.9	38.1	40.3	29.0	20.5	8.5	4.6	2.5	1.2	0.3	0.2	100.0	100.0
AR	*	0.1	*	0.1	0.4	0.2	4.0	2.6	16.9	15.6	35.3	37.5	27.2	27.9	13.6	13.0	2.4	3.1	0.1	0.1	100.0	100.0
LA	*	0.1	0.1	0.8	0.2	3.8	1.7	15.1	10.1	35.7	24.9	33.1	30.1	10.4	20.7	0.9	8.2	-	4.0	0.1	100.0	100.0
OK	0.1	-	-	-	-	-	-	-	0.2	3.0	1.0	8.6	4.9	25.8	16.9	33.8	36.4	23.5	38.5	5.3	100.0	100.0
TX	-	*	*	*	0.3	0.2	0.8	1.4	2.2	3.2	5.7	9.7	15.2	22.3	27.5	31.2	29.7	21.4	18.6	10.6	100.0	100.0
NM	-	-	0.3	0.4	0.3	-	0.3	0.4	4.0	4.3	18.0	17.9	29.9	24.3	31.9	27.5	11.6	17.9	3.7	7.3	100.0	100.0
All other	-	-	-	-	-	-	-	-	0.9	7.2	4.8	11.3	19.9	13.4	25.6	9.3	32.5	39.3	16.3	19.5	100.0	100.0
U. S.	*	0.1	0.1	0.1	0.5	0.9	3.5	5.5	10.2	15.2	20.1	22.9	20.8	21.2	18.6	17.7	15.1	10.8	11.1	5.7	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, 1974

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.
NC	97.8	2.2	-	-	-	33.9	37.6	20.9	5.4	1.6	0.6	-	-	100.0
SC	95.8	4.2	-	-	0.1	38.5	32.0	17.0	8.2	3.2	0.9	0.1	-	100.0
GA	89.8	10.2	-	-	-	15.3	34.3	25.8	14.4	8.4	1.4	0.3	0.1	100.0
AL	80.8	19.2	-	0.1	-	1.7	17.7	36.0	25.3	16.6	2.0	0.5	0.1	100.0
MS	60.4	39.6	*	-	-	0.3	5.3	24.1	30.7	31.9	6.6	0.9	0.2	100.0
TN	48.6	51.4	-	-	-	0.1	1.4	15.6	31.5	44.4	6.2	0.7	0.1	100.0
MO	47.6	52.4	-	0.1	-	0.3	3.1	16.9	27.2	41.9	9.0	1.1	0.4	100.0
AR	46.0	53.8	0.2	-	-	0.1	2.5	14.6	28.8	41.1	10.8	1.7	0.2	100.0
LA	58.5	41.4	0.1	-	-	0.3	6.7	23.5	28.0	29.7	10.1	1.4	0.2	100.0
OK	92.8	7.1	0.1	-	-	11.4	36.5	30.6	14.3	5.5	1.1	0.4	0.1	100.0
TX	93.1	6.7	0.2	0.1	1.5	48.9	25.9	11.0	5.7	4.5	1.6	0.4	0.2	100.0
NM	94.4	5.6	-	-	0.5	47.9	19.6	15.3	11.1	3.7	1.9	-	-	100.0
All other	94.6	5.4	-	-	2.7	60.9	14.2	10.5	6.3	5.1	0.3	-	-	100.0
U. S.	71.5	28.4	0.1	*	0.5	17.4	14.5	18.8	20.3	22.2	5.2	0.8	0.2	100.0

\* Less than 0.05 percent.

Table 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1975

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.
NC	74.3	25.7	-	-	3.4	17.5	23.0	30.4	23.7	1.3	0.7	-	-	100.0	
SC	81.0	19.0	-	-	6.8	21.0	29.4	23.8	15.0	3.8	0.2	-	-	100.0	
GA	83.0	16.9	0.1	-	2.9	18.5	35.9	25.7	14.2	2.1	0.6	-	0.1	100.0	
AL	60.4	39.6	-	-	1.1	8.2	23.1	28.0	32.3	6.4	0.7	0.2	-	100.0	
MS	47.6	52.4	*	*	0.3	4.1	15.7	27.5	43.0	8.2	0.9	0.3	*	100.0	
TN	36.4	63.6	-	-	0.1	2.2	10.2	23.9	46.9	14.8	1.7	0.2	-	100.0	
MO	43.6	56.3	0.1	-	0.6	2.3	13.2	27.5	40.3	14.8	1.2	-	0.1	100.0	
AR	56.3	43.7	-	-	0.1	10.6	19.2	23.7	32.1	9.7	1.4	0.5	-	100.0	
LA	63.0	37.0	-	-	0.1	11.6	25.2	25.4	28.5	7.5	1.0	-	-	100.0	
OK	99.0	1.0	-	-	0.2	36.7	13.0	3.2	1.0	-	-	-	-	100.0	
TX	95.8	4.2	*	0.1	16.7	61.8	4.5	2.8	2.7	1.2	0.3	*	*	100.0	
NM	99.6	0.4	-	-	43.0	48.5	2.1	-	0.4	-	-	-	-	100.0	
All other	96.9	3.1	-	1.0	23.8	52.5	4.1	9.3	3.1	-	-	-	-	100.0	
U. S.	70.3	29.7	*	*	6.1	23.3	9.4	14.0	17.5	23.0	5.8	0.8	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, 1974

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.
NC	93.3	6.5	0.2	2.2	67.8	18.6	4.7	3.8	1.4	0.9	0.2	0.2	-	0.2	100.0
SC	63.9	36.0	0.1	2.9	18.9	25.9	16.2	24.1	9.4	1.3	0.6	0.5	0.1	0.1	100.0
GA	18.9	80.6	0.5	1.1	6.0	6.6	5.2	21.0	36.6	15.2	5.8	1.9	0.1	0.5	100.0
AL	74.3	25.5	0.2	18.6	34.8	13.2	7.7	16.6	6.7	1.2	0.7	0.2	0.1	0.2	100.0
MS	86.5	12.8	0.7	5.8	41.8	28.6	10.3	7.2	2.4	1.3	1.0	0.6	0.3	0.7	100.0
TN	96.5	3.4	0.1	37.0	54.7	3.6	1.2	1.7	0.8	0.3	0.4	0.1	0.1	0.1	100.0
MO	95.0	4.9	0.1	49.3	38.5	5.1	2.1	3.0	1.1	0.4	0.2	0.1	0.1	0.1	100.0
AR	90.2	9.6	0.2	16.8	46.5	20.2	6.7	5.0	2.4	1.0	0.6	0.3	0.3	0.2	100.0
IA	38.1	61.2	0.7	0.2	6.6	18.0	13.3	25.9	20.3	9.2	4.1	1.4	0.3	0.7	100.0
OK	93.2	6.7	0.1	0.1	58.2	26.3	8.6	4.4	1.6	0.4	0.3	-	-	0.1	100.0
TX	83.9	14.0	2.1	16.6	42.4	19.1	5.8	5.4	3.0	1.6	1.5	1.5	1.0	2.1	100.0
NM	98.1	1.9	-	49.7	39.7	6.1	2.6	1.6	0.3	-	-	-	-	-	100.0
All other	88.3	11.7	-	38.3	39.8	5.7	4.5	6.6	3.9	0.9	0.3	-	-	-	100.0
U. S.	79.1	20.1	0.8	14.2	38.5	18.9	7.5	9.0	6.0	2.5	1.4	0.8	0.4	0.8	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, 1975

State	Free fatty acids																
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0	0.5	1.0	1.5	1.9	3.0	5.0	7.0	9.0	11.0 and over	12.5 and over	Total		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
NC	2.4	92.1	5.5	-	-	1.4	1.0	1.5	1.9	3.4	13.8	23.7	33.4	13.7	4.1	5.5	100.0
SC	11.2	85.8	3.0	-	2.8	4.4	4.0	13.0	22.6	22.8	15.6	8.6	3.2	3.0	3.0	100.0	
GA	4.8	94.2	1.0	-	0.4	2.1	2.3	12.5	26.4	26.3	17.7	9.4	1.9	1.0	1.0	100.0	
AL	24.4	75.3	0.3	0.8	3.2	8.5	11.9	31.7	31.8	9.3	2.1	0.4	-	0.3	0.3	100.0	
MS	92.6	7.2	0.2	5.2	49.9	30.1	7.4	5.2	1.6	0.3	0.1	*	-	0.2	0.2	100.0	
TN	91.8	8.2	-	1.2	42.9	34.9	12.8	5.7	1.9	0.6	-	-	-	-	-	100.0	
MO	93.7	6.2	0.1	1.4	49.2	34.4	8.7	4.0	1.8	-	0.1	0.2	0.1	0.1	0.1	100.0	
AR	96.7	3.3	*	26.8	51.7	13.7	4.5	2.4	0.7	0.1	-	0.1	*	*	*	100.0	
LA	94.8	5.1	0.1	10.0	55.0	24.8	5.0	3.9	0.8	0.1	0.2	-	0.1	0.1	0.1	100.0	
OK	99.4	0.6	-	23.3	74.5	1.0	0.6	0.2	0.2	0.2	-	-	-	-	-	100.0	
TX	95.2	4.5	0.3	48.9	38.2	6.4	1.7	2.5	1.2	0.5	0.1	0.1	0.1	0.1	0.3	100.0	
NM	100.0	-	-	76.6	21.7	1.7	-	-	-	-	-	-	-	-	-	100.0	
All other	79.4	20.6	-	64.9	10.3	2.1	2.1	2.1	6.2	7.2	4.1	-	1.0	-	-	100.0	
U. S.	84.4	15.3	0.3	23.8	40.3	15.4	4.9	5.6	4.5	2.6	1.6	0.8	0.2	0.3	0.3	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, 1974

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.
NC	36.0	64.0	-	9.9	26.1	41.3	16.4	5.1	0.7	0.5	-	-	-
SC	49.2	50.7	0.1	21.8	27.4	35.2	11.1	2.8	1.2	0.1	0.3	-	0.1
GA	64.3	35.6	0.1	29.5	34.8	32.3	2.5	0.5	0.3	-	-	-	0.1
AL	33.9	65.9	0.2	9.3	24.6	43.7	15.5	4.2	1.8	0.4	0.2	0.1	0.2
MS	58.7	41.3	*	23.3	35.4	29.3	8.1	2.5	0.9	0.3	0.1	0.1	*
TN	40.6	59.3	0.1	8.9	31.7	41.1	13.5	2.9	1.4	0.3	0.1	-	0.1
MO	33.2	66.5	0.3	5.5	27.7	50.0	12.2	3.3	0.6	0.3	0.1	-	0.3
AR	65.0	35.0	*	25.2	39.8	25.7	5.9	2.1	1.0	0.2	0.1	-	*
LA	83.4	16.6	*	34.7	48.7	13.9	2.0	0.6	0.1	*	-	-	*
OK	20.4	79.5	0.1	1.9	18.5	37.8	25.1	10.1	5.3	1.0	0.2	-	0.1
TX	21.2	78.0	0.8	7.6	13.6	26.2	19.8	13.0	11.8	4.4	2.0	0.8	0.8
NM	42.2	57.5	0.3	10.6	31.6	24.9	11.4	6.1	6.3	5.3	2.4	1.1	0.3
All other	37.6	62.4	-	10.2	27.4	39.0	12.3	5.7	2.7	0.9	1.5	0.3	-
U. S.	46.6	53.1	0.3	17.3	29.3	29.8	11.8	5.4	3.9	1.4	0.6	0.2	0.3

\* Less than 0.05 percent.



Table 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1975

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.
NC	56.7	43.3	-	16.8	39.9	31.0	8.6	2.7	0.7	0.3	-	-	100.0
SC	56.6	43.4	-	18.0	38.6	32.2	8.4	1.8	0.4	0.4	0.2	-	100.0
GA	76.4	23.6	-	31.9	44.5	21.0	1.5	0.6	0.1	0.3	-	0.1	100.0
AL	35.4	64.5	0.1	6.6	28.8	40.9	16.3	4.6	2.0	0.3	0.3	0.1	100.0
MS	53.8	45.9	0.3	18.5	35.3	36.0	6.2	1.9	1.0	0.5	0.2	0.1	100.0
TN	61.0	39.0	-	27.6	33.4	30.5	6.4	1.2	0.7	0.2	-	-	100.0
MO	61.8	38.2	-	18.2	43.6	31.2	5.1	1.5	0.2	-	0.1	0.1	100.0
AR	82.7	17.3	-	46.1	36.6	14.0	2.1	0.6	0.4	0.1	0.1	*	100.0
LA	86.6	13.4	-	43.8	42.8	11.2	1.6	0.3	0.2	0.1	-	-	100.0
OK	16.9	83.1	-	2.1	14.8	37.6	23.0	13.0	5.8	1.3	1.3	1.1	100.0
TX	14.8	84.9	0.3	2.1	12.7	33.9	26.1	13.4	7.6	2.7	0.9	0.3	100.0
NM	37.0	62.6	0.4	8.1	28.9	24.7	15.3	8.5	8.5	2.1	2.6	0.9	100.0
All other	68.1	31.9	-	15.5	52.6	20.6	4.1	1.0	3.1	2.1	1.0	-	100.0
U. S.	46.7	53.1	0.2	18.5	28.2	29.6	12.8	5.8	3.2	1.1	0.4	0.2	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, 1974 and 1975

State	Prime		Quality				Reduced due to excess							
			Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acids		Foreign matter	
	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
NC	378	6	730	568	-	8	1,108	582	8	150	74	568	708	252
SC	572	50	1,262	946	2	4	1,856	1,000	76	190	672	888	944	434
GA	158	44	2,912	1,404	4	-	3,074	1,448	316	246	2,494	1,378	1,098	342
AL	782	138	3,082	2,488	2	-	3,866	2,626	744	1,038	992	1,988	2,552	1,696
MS	4,344	2,180	8,314	6,584	12	12	12,670	8,776	5,022	4,602	1,720	646	5,236	4,054
TN	564	348	2,496	1,692	-	-	3,060	2,040	1,572	1,298	104	166	1,820	794
MO	396	426	1,874	1,302	-	-	2,270	1,728	1,188	974	110	110	1,516	660
AR	2,918	3,234	6,758	3,702	4	-	9,680	6,936	5,230	3,030	950	236	3,386	1,196
IA	776	1,372	3,868	1,328	12	-	4,656	2,700	1,932	1,000	2,882	144	780	364
OK	342	178	1,578	886	2	-	1,922	1,064	138	10	132	6	1,532	884
TX	2,552	1,568	12,830	13,106	150	12	15,532	14,686	1,068	632	2,498	740	12,252	12,514
NM	286	174	470	296	-	-	756	470	42	2	14	-	436	296
All other	206	116	456	78	2	-	664	194	36	6	78	40	414	62
U. S.	14,274	9,834	46,650	34,380	190	36	61,114	44,250	17,372	13,178	12,720	6,910	32,674	23,548