COTTONSEED QUALITY

CROP OF 1977

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Marketing Service Cotton Division
Memphis, Tennessee
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CONTENTS

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Cottonseed Quality - 1977 Crop

Cottonseed from the 1977 crop was lower in grade than a year earlier, according to the Cotton Division, Agricultural Marketing Service, USDA. The average grade was 94.5, down from 97.5 for the 1976 crop and 96.5 in 1975. The quality index was 95.6 against 98.4 and 97.0 in 1976 and 1975, respectively. Free fatty acids content and moisture content were higher than in 1976 while foreign matter content was lower. The quantity index of cottonseed from the 1977 crop was 98.85, down from 98.93 a year earlier. Average oil content of seed from the 1977 crop was slightly lower than the previous year while ammonia content was slightly higher.

Data from grade certificates covering 61,466 samples of cottonseed were used to compile the information included in this report. Averages of cottonseed quantity and quality factors, and grades are shown by states (when sufficient certificates were received), by classing office territories, by months and by specified frequencies. Average grade 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 grade 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 quantity and quality factors, and grades weighted by the number of certificates received.

Table 1. Cottonseed grade factors, indexes and grades, 1953-1977

Year beginning August 1	Quantity Factors			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
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
1976	17.7	3.88	1/	10.6	0.7	1.8	98.93	98.4	97.5	52,048
1977	17.5	3.99	1/	10.8	1.8	1.4	98.85	95.6	94.5	61,466

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".

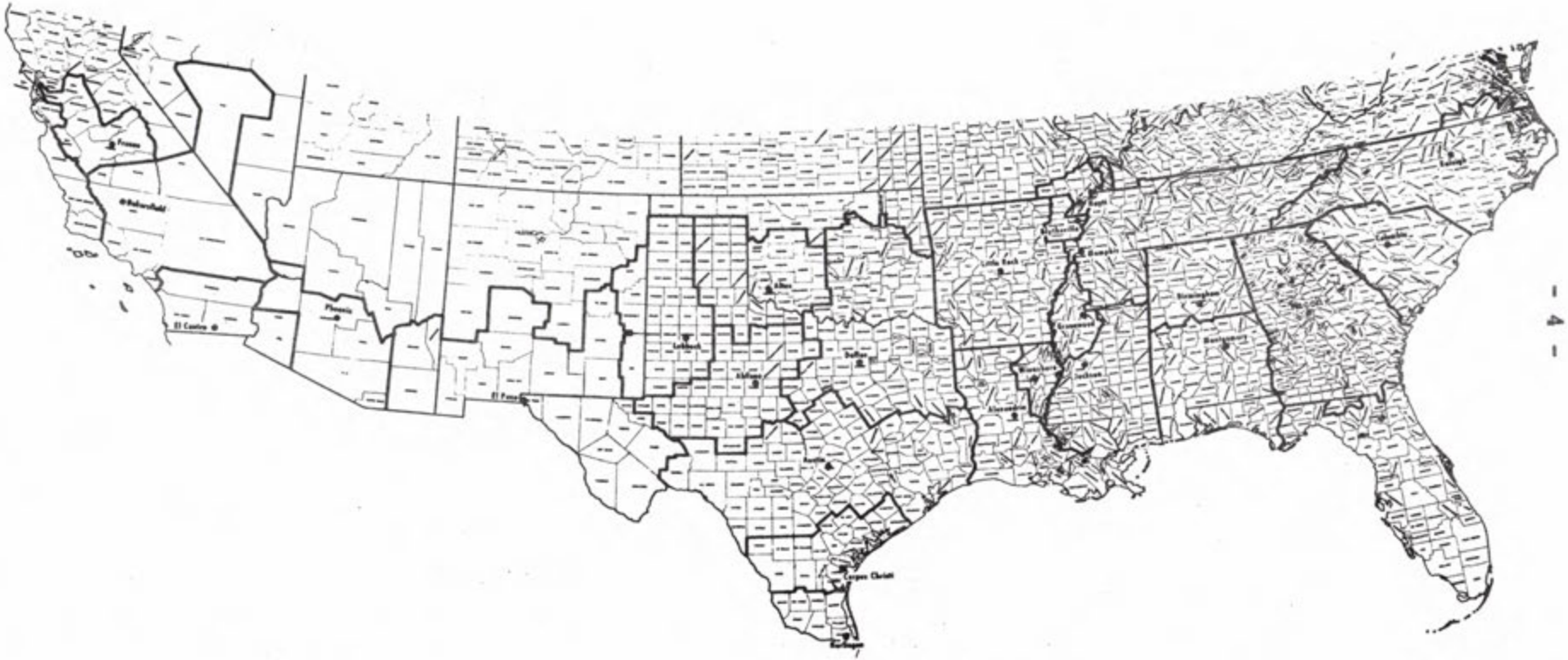
(d) Below grade cottonseed. Cottonseed the grade of which when calculated according to the foregoing is below grade 40.0 shall be designated as "below grade cottonseed" and a numerical grade shall not be indicated.

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/

Example 2/	Quality Factors								Quantity Factors							Grade
	FFA 3/		FM 4/		H_2O 5/		Total reductions 6/	Quality index	Oil		NH_3 8/		Sum of products	Adjustment factors	Quantity index	
	Total	Reduction	Total	Reduction	Total	Reduction			Total	Product 7/	Total	Product 7/				
	Pct.	Units	Pct.	Units	Pct.	Units	Units		Pct.		Pct.					
							PRIME QUALITY SEED									
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
							BELOW PRIME QUALITY SEED									
4	1.9	0.4	1.0	0.0	12.0	0.0	0.4	99.6	18.5	74.0	3.50	21.00	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
							OFF QUALITY SEED									
							Treated (other than usual), Fermented, Hot									
9	12.5	42.8	0.7	0.0	12.0	0.0	42.8	57.2	20.1	80.4	3.67	22.02	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
							BELOW GRADE SEED									
14	10.5	34.8	20.8	19.8	15.6	3.6	58.2	41.8	17.0	68.0	3.41	20.46	88.46	+5	93.46	BG*
15	17.5	62.8	0.5	0.0	14.1	2.1	64.9	35.1	19.5	78.0	3.94	23.64	101.64	+5	106.64	BG*

1/ Important key figures that determine the range of various qualities of cottonseed are underscored.
2/ Example "8", 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.

UNITED STATES
Smith-Doxey Cotton Classing Office Territories



AGRICULTURAL MARKETING SERVICE, USDA

JUNE 2, 1978

Table 3. Cottonseed: Quality factors, indexes and grades, by states and United States, 1976 and 1977

State	Cottonseed analysis										Average index				Average grade	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality			
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.						
NC	19.2	18.9	4.28	4.32	10.5	12.3	0.7	3.7	1.0	1.2	107.43	106.65	99.4	90.3	107.0	97.0
SC	19.8	19.1	4.20	4.26	10.4	11.5	0.9	3.2	1.1	1.0	109.86	107.10	98.8	93.2	109.0	100.0
GA	19.9	18.7	4.17	4.23	10.4	11.7	3.2	6.4	0.7	1.1	109.81	105.23	93.8	79.4	103.0	84.5
AL	18.1	17.0	3.89	4.07	11.7	12.8	1.0	6.5	1.7	1.7	100.90	97.35	98.0	78.0	99.0	75.5
MS	16.6	16.6	3.82	4.00	11.8	12.4	0.5	2.7	1.4	1.3	94.22	95.04	98.8	93.8	93.5	89.0
TN	17.3	16.7	3.71	3.90	11.9	13.8	0.5	2.9	2.1	1.5	96.22	95.03	98.3	91.4	95.0	87.0
MO	16.6	16.7	3.89	3.77	11.7	13.9	0.5	2.3	1.3	1.5	94.52	94.25	98.8	94.3	94.0	89.5
AR	16.6	16.3	3.90	3.90	11.5	13.3	0.4	1.8	1.0	1.1	94.44	93.52	99.3	96.0	94.0	90.0
LA	17.4	17.2	3.82	3.86	10.8	12.1	0.5	2.2	0.9	1.0	97.50	97.09	99.6	96.2	97.5	93.5
OK	18.4	17.8	4.18	4.10	9.0	8.8	0.6	0.5	1.8	1.7	103.85	100.77	99.2	99.1	103.0	100.0
TX	18.3	18.4	3.86	4.06	9.2	8.1	0.6	0.5	2.7	1.6	101.41	103.13	98.0	99.1	99.5	102.5
NM	19.6	19.5	3.77	4.05	8.7	8.2	0.6	0.4	2.5	2.2	106.29	107.82	98.2	98.7	105.0	106.5
All other	18.5	18.5	3.98	3.81	8.6	11.1	0.8	2.8	1.4	1.1	102.82	101.09	99.2	93.9	102.5	94.5
U. S.	17.7	17.5	3.88	3.99	10.6	10.8	0.7	1.8	1.8	1.4	98.93	98.85	98.4	95.6	97.5	94.5

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1976 and 1977

NORTH CAROLINA

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Sept.	20.7	18.3	4.07	4.40	9.6	11.8	8.0	3.1	0.9	1.5	112.50	104.45	77.5	91.0	87.5	94.5	2	10
Oct.	18.9	18.9	4.25	4.33	11.9	12.5	0.5	2.0	0.5	0.6	106.44	106.63	99.2	96.3	106.0	103.0	102	148
Nov.	19.2	18.8	4.29	4.27	10.1	12.7	0.5	3.0	1.0	1.2	107.55	106.29	99.7	92.6	107.5	98.5	310	158
Dec.	19.1	19.0	4.26	4.35	10.6	11.7	0.7	5.2	1.4	1.6	107.12	107.22	99.3	86.2	106.5	92.0	126	106
Jan.	19.2	18.9	4.38	4.33	11.0	11.7	0.8	6.4	1.4	1.6	107.66	106.99	99.2	80.0	107.5	85.5	22	34
Feb.	19.2	18.6	4.31	4.35	9.6	11.8	1.2	7.6	1.5	2.1	107.58	106.25	98.9	77.9	107.0	84.0	20	14
Mar. and later	20.1	19.0	4.34	4.39	9.4	11.2	1.3	6.6	1.1	1.6	110.77	107.56	99.2	74.4	110.0	86.0	26	18
Season	19.2	18.9	4.28	4.32	10.5	12.3	0.7	3.7	1.0	1.2	107.43	106.65	99.4	90.3	107.0	97.0	608	488
SOUTH CAROLINA																		
Sept.	18.8	18.9	4.18	4.41	10.7	12.6	3.2	1.4	0.9	0.6	105.29	107.78	88.6	98.5	96.0	106.0	34	56
Oct.	19.4	19.2	4.17	4.35	11.9	11.6	0.6	2.1	0.6	0.7	108.08	108.31	99.1	97.4	107.5	106.0	280	254
Nov.	19.9	18.9	4.23	4.27	10.1	12.3	0.6	3.4	1.0	1.2	110.21	106.47	99.5	92.0	110.0	98.5	494	284
Dec.	19.9	18.8	4.15	4.16	10.6	11.6	0.8	3.2	1.4	1.2	109.64	105.62	99.1	93.5	109.0	98.0	284	208
Jan.	20.2	19.3	4.22	4.17	10.1	10.7	1.2	3.6	1.0	1.1	111.61	107.34	98.6	92.0	110.0	99.0	118	124
Feb.	20.3	19.2	4.26	4.28	8.9	10.6	1.2	4.4	1.3	1.0	111.97	107.57	99.3	89.4	111.5	96.0	90	116
Mar. and later	20.2	19.2	4.23	4.24	9.0	10.3	2.0	5.6	1.3	1.0	111.27	107.94	97.1	84.9	108.0	92.0	102	64
Season	19.8	19.1	4.20	4.26	10.4	11.5	0.9	3.2	1.1	1.0	109.86	107.10	98.8	93.2	109.0	100.0	1,402	1,106
GEORGIA																		
Aug.	19.7	20.2	4.07	4.07	9.6	8.6	6.0	2.2	0.9	0.9	108.75	112.50	87.5	98.5	91.0	108.5	2	2
Sept.	19.3	17.2	4.02	4.30	10.6	13.7	7.7	5.6	1.9	1.1	105.88	99.79	64.7	82.0	73.5	79.5	12	52
Oct.	19.3	18.2	4.17	4.42	11.4	12.4	2.1	7.9	0.6	0.8	107.71	104.58	97.4	71.0	105.0	76.0	310	176
Nov.	20.0	18.6	4.19	4.22	10.0	12.0	2.6	6.6	0.6	1.1	110.38	104.72	96.2	78.1	106.5	83.5	742	338
Dec.	19.7	19.0	4.13	4.12	10.8	11.6	3.1	5.5	0.7	1.1	109.02	105.84	94.1	84.6	102.5	88.5	358	290
Jan.	20.0	19.0	4.16	4.20	11.0	10.9	4.3	5.8	0.9	1.2	110.34	106.27	89.9	81.7	99.5	89.0	128	138
Feb.	20.4	19.1	4.19	4.16	9.4	10.9	5.1	6.2	1.0	1.1	112.17	106.73	87.2	82.3	97.5	88.0	138	74
Mar. and later	20.2	19.4	4.20	4.28	9.1	10.3	6.0	7.8	1.6	2.3	111.47	107.99	82.3	73.5	92.5	82.0	100	46
Season	19.9	18.7	4.17	4.23	10.4	11.7	3.2	6.4	0.7	1.1	109.81	105.23	93.8	79.4	103.0	84.5	1,790	1,116

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1976 and 1977 (Continued)

ALABAMA

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Sept.	18.5	16.4	3.86	4.05	11.7	13.5	5.7	1.3	1.7	1.4	102.09	95.01	83.5	96.0	85.0	91.5	28	354
Oct.	18.1	16.9	4.01	4.11	11.5	13.3	1.2	6.5	1.2	1.6	101.66	97.02	98.3	78.7	100.5	75.0	596	918
Nov.	18.3	17.2	3.91	4.08	11.6	12.6	0.6	8.9	1.4	1.8	101.60	97.94	99.0	68.8	101.0	69.0	1,104	622
Dec.	17.8	17.5	3.79	4.00	12.4	12.1	0.8	7.6	1.8	1.7	98.95	98.94	98.0	74.4	97.5	73.0	646	314
Jan.	17.9	17.4	3.84	3.95	12.6	11.9	1.1	7.5	2.2	1.9	99.52	98.50	96.6	75.8	97.0	74.0	236	106
Feb.	18.6	17.8	3.82	4.12	10.8	11.4	1.3	6.8	2.9	1.4	102.29	100.90	96.9	79.6	99.5	78.5	126	26
Mar. and later	18.4	17.3	3.90	4.04	10.4	10.6	1.9	6.1	2.9	1.3	101.88	98.53	95.7	80.2	98.0	78.0	142	44
Season	18.1	17.0	3.89	4.07	11.7	12.8	1.0	6.5	1.7	1.7	100.90	97.35	98.0	78.0	99.0	75.5	2,878	2,384
MISSISSIPPI																		
Aug.	19.0	16.5	3.70	3.91	9.6	11.2	7.2	2.0	2.2	1.0	103.00	93.54	77.7	97.2	79.5	91.5	4	24
Sept.	16.3	16.3	4.06	4.01	11.0	12.6	2.0	0.8	1.0	1.0	94.28	94.41	95.6	98.6	90.0	93.5	84	2,436
Oct.	16.4	16.9	3.91	3.97	11.8	12.4	0.4	2.4	1.0	1.2	94.12	96.06	99.2	95.3	93.5	91.5	3,954	5,434
Nov.	16.8	16.4	3.78	3.91	11.6	12.5	0.4	3.8	1.4	1.7	94.81	93.92	99.0	90.6	94.5	84.5	3,490	2,492
Dec.	16.4	16.2	3.67	3.89	12.4	12.2	0.6	5.3	2.1	2.2	92.54	92.81	98.0	83.9	91.0	76.5	1,002	582
Jan.	16.6	16.5	3.65	3.95	12.0	11.8	0.7	5.8	3.4	2.3	93.16	94.22	97.0	81.7	90.5	75.5	168	184
Feb.	16.7	16.6	3.71	4.03	11.6	11.3	1.1	6.0	3.6	2.1	94.05	94.42	96.1	82.0	90.0	77.5	198	178
Mar. and later	17.0	17.0	3.75	4.00	10.7	11.1	1.3	5.7	3.2	1.4	95.29	96.76	96.9	82.4	92.5	80.5	174	208
Season	16.6	16.6	3.82	4.00	11.8	12.4	0.5	2.7	1.4	1.3	94.22	95.04	98.8	93.8	93.5	89.0	9,074	11,538
TENNESSEE																		
Sept.	19.7	16.6	3.62	3.89	10.6	14.1	4.5	0.6	1.3	0.7	106.25	94.87	91.2	97.5	96.0	93.0	2	666
Oct.	17.2	16.7	3.76	3.90	11.9	14.3	0.5	2.8	0.9	1.2	96.11	95.12	99.4	92.5	96.0	88.5	464	1,022
Nov.	17.5	16.7	3.75	3.91	11.6	13.1	0.4	4.8	1.7	2.3	97.41	95.29	98.8	86.2	96.5	81.0	1,052	482
Dec.	17.0	16.7	3.66	3.89	12.3	12.3	0.5	5.0	2.8	2.9	94.98	95.26	97.3	83.3	93.0	78.0	518	106
Jan.	16.8	16.7	3.61	3.91	12.5	12.3	0.8	6.6	3.7	3.3	93.89	94.78	96.1	78.1	90.0	71.5	110	40
Feb.	17.1	16.7	3.61	3.89	11.8	12.2	0.8	6.3	4.1	2.3	94.90	95.55	96.4	78.8	92.0	74.5	58	28
Mar. and later	16.6	16.5	3.60	3.89	10.9	12.4	1.3	7.3	4.8	2.8	93.02	92.31	95.2	75.2	89.0	68.0	78	52
Season	17.3	16.7	3.71	3.90	11.9	13.8	0.5	2.9	2.1	1.5	96.22	95.03	98.3	91.4	95.0	87.0	2,282	2,396

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1976 and 1977 (Continued)

MISSOURI

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Sept.	17.2	16.2	3.92	3.75	10.6	15.2	6.0	0.8	3.6	0.9	98.75	92.56	82.4	96.3	77.5	89.5	2	372
Oct.	16.5	17.0	3.96	3.79	12.0	13.9	0.6	2.2	1.0	1.5	94.37	95.50	98.7	95.4	94.0	91.5	616	942
Nov.	16.8	16.6	3.90	3.73	11.5	13.7	0.4	2.9	1.2	1.7	95.42	93.48	99.3	93.2	95.0	87.0	746	442
Dec.	16.3	16.4	3.78	3.76	11.7	12.3	0.4	3.8	2.1	2.2	92.80	93.14	98.3	90.6	91.5	85.0	202	96
Jan.	16.1	16.8	3.63	3.91	12.5	11.4	0.9	4.3	2.3	2.4	90.91	95.77	97.8	87.9	89.0	82.0	22	24
Feb.	16.8	17.3	3.65	3.80	11.9	11.9	1.5	3.8	3.8	1.8	92.80	96.67	94.3	91.6	86.5	89.5	20	12
Mar. and later	16.3	16.7	3.67	3.81	10.6	11.8	1.0	4.8	4.1	3.0	91.97	90.99	96.2	81.9	88.5	82.0	48	52
Season	16.6	16.7	3.89	3.77	11.7	13.9	0.5	2.3	1.3	1.5	94.52	94.25	98.8	94.3	94.0	89.5	1,656	1,940
ARKANSAS																		
Aug.	18.2	17.5	3.70	4.02	10.6	12.1	1.9	0.7	0.9	1.5	100.13	100.42	99.7	98.1	100.0	97.0	4	6
Sept.	18.3	16.2	3.96	3.94	11.4	13.3	1.1	0.6	0.8	0.7	102.16	93.47	99.0	98.3	102.0	92.0	16	2,580
Oct.	16.5	16.5	3.98	3.89	11.4	13.3	0.4	1.7	0.6	1.0	94.59	94.11	99.6	96.9	94.5	91.5	3,156	4,974
Nov.	16.8	16.1	3.89	3.83	11.5	13.5	0.4	2.7	0.9	1.6	95.34	92.14	99.4	93.3	95.0	85.5	3,462	1,590
Dec.	16.3	16.0	3.77	3.85	12.0	13.0	0.5	3.6	1.4	1.8	92.32	91.84	98.9	90.7	91.5	82.5	1,084	370
Jan.	16.0	16.0	3.74	3.91	12.1	12.5	0.6	4.5	2.3	2.0	91.35	92.35	98.1	87.8	89.5	79.0	250	118
Feb.	16.2	16.0	3.77	3.91	11.8	12.9	0.8	5.4	3.2	1.9	92.08	91.96	96.7	83.9	89.0	76.5	204	104
Mar. and later	16.4	16.6	3.85	3.94	11.0	12.1	0.8	4.7	2.4	2.1	93.43	94.64	97.8	85.0	91.5	81.5	184	234
Season	16.6	16.3	3.90	3.90	11.5	13.3	0.4	1.8	1.0	1.1	94.44	93.52	99.3	96.0	94.0	90.0	8,360	9,976
LOUISIANA																		
Sept.	16.1	16.4	4.09	3.96	11.1	13.1	0.6	1.9	0.7	0.7	93.87	94.35	99.7	95.9	94.0	90.5	150	482
Oct.	17.5	17.6	3.92	3.91	10.7	11.7	0.4	2.1	0.6	0.8	98.62	99.02	99.8	97.0	98.5	96.5	1,900	2,076
Nov.	17.6	17.0	3.74	3.79	10.7	12.5	0.4	2.1	0.8	1.2	97.71	95.71	99.7	96.5	98.0	92.5	1,406	1,386
Dec.	16.9	16.7	3.64	3.77	11.4	12.2	0.6	3.0	1.6	1.7	94.42	94.55	98.9	93.5	93.5	88.5	388	358
Jan.	16.6	16.7	3.61	3.80	11.7	11.6	0.9	3.6	2.2	2.1	92.89	94.38	98.4	91.3	91.0	86.5	74	92
Feb.	16.6	17.5	3.64	3.89	11.2	11.3	0.9	3.3	2.8	1.1	92.50	98.19	97.7	93.4	91.5	91.5	32	86
Mar. and later	17.0	17.7	3.69	3.83	10.4	10.7	1.4	3.1	2.4	1.0	95.05	98.55	97.4	94.7	92.5	93.5	74	208
Season	17.4	17.2	3.82	3.86	10.8	12.1	0.5	2.2	0.9	1.0	97.50	97.09	99.6	96.2	97.5	93.5	4,024	4,688

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1976 and 1977 (Continued)

OKLAHOMA

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Sept.	-	18.2	-	3.92	-	8.9	-	0.8	-	1.3	-	101.83	-	99.5	-	102.0	-	6
Oct.	17.8	18.0	4.07	4.17	9.4	8.1	0.6	0.4	1.4	1.0	100.56	101.79	99.4	99.8	100.5	102.0	24	196
Nov.	18.5	17.6	4.21	4.14	9.0	9.2	0.5	0.4	1.7	1.5	104.24	100.34	99.2	99.3	103.5	100.0	462	652
Dec.	18.5	17.9	4.16	4.10	9.0	8.7	0.6	0.5	1.8	1.9	103.81	101.18	99.2	99.1	103.0	100.5	384	1,030
Jan.	18.2	17.9	4.20	4.02	9.1	8.1	0.7	0.5	1.8	2.1	103.04	100.64	99.1	98.9	102.5	99.5	14	224
Feb.	18.1	17.2	4.10	4.00	9.6	9.7	0.7	0.5	2.1	2.9	101.71	97.92	98.8	97.7	100.5	96.5	34	58
Mar. and later	18.2	17.2	3.77	4.01	8.6	10.1	1.1	0.8	3.6	2.3	101.50	97.83	97.5	98.5	98.5	96.4	2	50
Season	18.4	17.8	4.18	4.10	9.0	8.8	0.6	0.5	1.8	1.7	103.85	100.77	99.2	99.1	103.0	100.0	920	2,216
TEXAS																		
Aug.	18.7	17.6	3.70	3.75	10.8	9.6	0.7	0.4	0.9	0.8	101.71	97.89	99.3	99.6	101.0	98.0	1,510	2,772
Sept.	17.0	17.1	3.74	3.92	10.8	9.7	0.9	0.6	1.8	1.3	94.99	96.75	98.2	99.0	93.5	96.0	988	2,724
Oct.	17.5	18.3	3.86	4.11	10.5	8.1	0.9	0.5	2.3	1.6	98.14	102.87	98.1	99.1	96.5	102.5	1,322	4,770
Nov.	18.7	18.9	3.89	4.13	9.3	7.6	0.5	0.4	2.6	1.5	103.05	105.68	98.3	99.3	101.5	105.5	4,752	6,780
Dec.	18.5	19.0	3.90	4.15	8.6	6.9	0.5	0.5	2.9	1.8	102.23	106.28	98.0	99.0	100.5	105.5	6,796	4,238
Jan.	18.2	18.9	3.88	4.15	8.5	7.1	0.7	0.6	3.6	2.4	100.88	105.52	97.3	98.4	98.5	104.0	2,220	1,292
Feb.	17.9	18.4	3.78	4.07	9.6	8.7	0.9	0.8	4.6	3.0	99.17	103.00	95.3	97.7	94.5	101.0	626	320
Mar. and later	17.9	18.0	3.79	4.00	8.8	9.4	1.2	1.2	5.2	3.8	98.97	101.21	92.8	96.2	92.5	98.4	250	298
Season	18.3	18.4	3.86	4.06	9.2	8.1	0.6	0.5	2.7	1.6	101.41	103.13	98.0	99.1	99.5	102.5	18,464	23,194
NEW MEXICO																		
Sept.	-	19.4	-	3.98	-	9.8	-	0.4	-	1.0	-	106.80	-	99.8	-	107.0	-	10
Oct.	20.6	19.8	3.73	3.95	9.2	9.6	0.4	0.4	1.1	1.5	110.90	108.48	99.5	99.3	110.5	108.0	78	144
Nov.	20.0	19.4	3.75	4.14	8.6	7.4	0.5	0.4	1.7	2.3	107.89	108.00	99.2	98.7	108.0	106.5	118	110
Dec.	19.3	19.4	3.80	4.11	8.5	6.7	0.5	0.4	2.6	3.0	105.10	107.06	98.3	97.9	103.5	105.0	128	62
Jan.	18.5	19.1	3.77	4.14	8.6	7.1	0.9	0.5	4.4	3.9	101.67	106.47	95.3	97.1	97.0	104.0	52	18
Feb.	18.1	18.7	3.80	4.07	8.6	7.6	0.9	0.8	5.7	3.7	100.43	104.00	95.1	97.0	96.5	100.5	20	4
Mar. and later	17.7	17.7	3.70	4.07	9.1	8.6	1.4	1.4	6.4	10.8	97.00	98.75	93.3	87.5	93.0	87.5	4	2
Season	19.6	19.5	3.77	4.05	8.7	8.2	0.6	0.4	2.5	2.2	106.29	107.82	98.2	98.7	105.0	106.5	400	350

Table 5. Cottonseed: Quality factors, indexes and grades by classing office territories, by states, 1976 and 1977

SOUTHEASTERN

Classing Office	Cottonseed analysis: Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index: Quantity		Average index: Quality		Average grade		Samples	
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Raleigh NC	19.2	18.9	4.28	4.32	10.4	12.3	0.7	3.7	1.0	1.2	107.45	106.64	99.4	90.0	107.0	96.5	616 1/	496 1/
Columbia SC	19.8	19.1	4.20	4.26	10.4	11.5	0.9	3.2	1.1	1.0	109.86	107.10	98.8	93.2	109.0	100.0	1,402	1,106
Macon GA	19.9	18.7	4.17	4.23	10.4	11.7	3.2	6.4	0.7	1.1	109.81	105.23	93.8	79.4	103.0	84.5	1,790	1,116
Birmingham AL	18.1	16.5	3.79	4.07	12.1	13.1	0.8	5.7	1.8	1.9	99.95	95.51	97.9	80.7	98.0	76.5	1,714	1,460
Montgomery AL	18.3	17.8	4.04	4.04	11.1	12.3	1.2	7.6	1.5	1.3	102.32	100.15	98.3	74.7	101.0	75.0	1,222 2/	968 2/
SOUTH CENTRAL																		
Greenwood MS	16.6	16.5	3.85	3.98	11.7	12.4	0.5	2.3	1.4	1.3	94.21	94.56	98.8	95.1	93.5	90.0	6,016	8,544
Jackson MS	17.2	17.1	3.84	3.98	11.2	12.4	0.5	4.5	1.3	1.4	96.68	97.26	99.0	87.6	96.0	85.0	1,230	1,186
Memphis	16.8	16.7	3.74	3.91	12.0	13.2	0.5	2.8	1.7	1.4	94.44	95.24	98.5	92.2	93.5	88.0	4,778	4,840
TN	17.3	16.7	3.71	3.90	11.9	13.8	0.5	2.9	2.1	1.5	96.22	95.03	98.3	91.4	95.0	87.0	2,282	2,396
AR	16.2	16.4	3.92	4.00	11.7	13.1	0.5	1.5	0.8	0.8	93.43	94.38	99.3	97.1	93.0	92.0	668	636
MS	16.4	16.9	3.71	3.89	12.3	12.5	0.5	3.3	1.6	1.4	92.59	95.82	98.5	91.6	91.5	87.5	1,828	1,808
Hayti MO	16.6	16.7	3.89	3.77	11.7	13.9	0.5	2.3	1.3	1.5	94.52	94.25	98.8	94.3	94.0	89.5	1,656	1,940
Blytheville AR	16.3	16.0	3.92	3.91	11.7	14.3	0.4	1.7	1.1	0.9	93.69	92.15	99.0	95.4	93.0	88.0	3,050	3,958
Little Rock AR	16.7	16.6	3.89	3.87	11.4	12.6	0.4	1.9	0.9	1.2	95.08	94.43	99.4	96.2	95.0	91.0	4,642	5,382
Winnsboro LA	17.3	17.1	3.87	3.87	10.8	12.1	0.5	2.2	0.9	1.0	97.17	96.50	99.6	96.3	97.0	93.0	3,052	3,822
Alexandria LA	17.9	17.9	3.67	3.83	10.9	11.7	0.6	2.4	0.8	0.8	98.56	99.70	99.6	95.7	98.5	95.5	972	866

Table 5. Cottonseed: Quality factors, indexes and grades by classing office territories, by states, 1976 and 1977 (Continued)

SOUTHWESTERN

Classing Office	Cottonseed analysis: Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index: Quantity		Average index: Quality		Average grade		Samples	
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Altus	18.6	18.0	4.12	4.14	8.7	8.2	0.6	5.3	2.0	1.7	104.27	101.77	98.9	99.2	103.5	101.0	2,256	3,766
OK	18.5	17.8	4.18	4.10	9.0	8.7	0.6	4.6	1.8	1.7	103.98	100.79	99.2	99.1	103.5	100.0	850	2,162
TX	18.7	18.2	4.09	4.19	8.6	7.5	0.6	6.2	2.1	1.7	104.44	103.10	98.8	99.2	103.5	102.5	1,406	1.604
Dallas	16.9	16.4	3.98	4.07	10.5	8.9	0.9	0.7	2.5	1.6	96.55	94.95	98.1	99.2	95.0	94.5	886	756
TX	16.8	16.3	3.97	4.07	10.6	8.9	0.9	0.7	2.6	1.6	96.07	94.55	98.0	99.2	94.5	94.0	816	702
OK	18.1	17.5	4.15	4.18	9.4	9.6	0.5	0.7	1.5	1.4	102.21	100.09	99.4	99.2	102.0	99.5	70	54
Austin																		
TX	17.3	16.8	3.74	3.90	10.7	10.8	0.9	0.9	1.9	1.2	96.47	95.53	98.4	98.2	95.5	94.0	1,206	1,110
Corpus Christi																		
TX	18.0	17.8	3.72	3.78	10.6	10.1	0.9	0.7	1.3	1.2	98.97	98.59	98.8	98.9	98.0	98.0	874	1,390
Harlingen																		
TX	18.5	17.3	3.72	3.73	11.4	9.5	0.8	0.4	0.8	0.8	101.15	96.52	98.7	99.8	100.0	96.5	938	2,274
Abilene																		
TX	18.4	17.8	3.96	4.14	9.5	7.5	0.5	0.4	2.5	1.4	102.23	101.20	98.4	99.3	101.0	101.0	2,718	3,492
Lubbock	18.5	19.2	3.84	4.12	8.7	7.6	0.5	0.4	3.3	1.9	101.93	106.53	97.6	99.0	99.5	105.5	10,262	12,642
TX	18.5	19.2	3.84	4.12	8.7	7.6	0.5	0.4	3.3	1.9	101.92	106.53	97.6	99.0	99.5	105.5	10,230	12,508
NM	19.3	19.2	3.80	4.15	8.4	7.1	0.6	0.4	3.1	2.4	105.19	107.09	97.8	98.6	103.0	105.5	32	134
El Paso	19.8	19.4	3.70	3.99	8.7	8.9	0.7	0.6	2.9	2.0	107.03	106.70	97.2	98.6	104.5	105.5	446 3/	342 3/
TX	19.9	18.8	3.71	4.03	8.7	8.9	0.7	0.9	3.4	1.9	107.35	103.86	96.0	98.2	103.5	102.0	182	114
NM	20.1	19.8	3.67	3.99	8.8	8.9	0.6	0.4	2.4	2.1	108.10	108.27	98.1	98.7	106.5	107.0	218	216
WESTERN																		
Bakersfield																		
CA	18.5	19.2	4.11	4.16	7.4	7.0	0.4	0.4	0.7	0.6	103.47	106.40	100.0	100.0	103.5	107.0	78	10

1/ Includes 8 certificates in 1976 and 8 certificates in 1977 for Virginia.
2/ Includes 58 certificates in 1976 and 44 certificates in 1977 for Florida.
3/ Includes 46 certificates in 1976 and 12 certificates in 1977 for Arizona.

Table 6. Percentage distribution of quantity index by specified frequencies, by states and United States, 1976 and 1977

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	
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	-	-	-	-	-	-	-	-	-	-	-	-	0.7	-	1.9	3.3	17.1	25.3	80.3	71.4	100.0	100.0
SC	-	-	-	-	-	-	-	-	-	-	-	-	0.1	1.1	1.4	3.8	8.6	20.6	89.9	74.5	100.0	100.0
GA	-	-	-	-	-	0.2	-	0.2	-	0.2	-	0.2	0.2	0.7	0.5	9.7	8.0	34.4	91.3	54.4	100.0	100.0
AL	-	-	-	-	-	0.2	-	0.1	0.2	0.4	0.8	5.5	8.7	24.9	28.9	37.3	43.6	26.1	17.8	5.5	100.0	100.0
MS	•	•	•	•	0.1	•	0.2	0.3	1.6	1.9	12.3	9.0	39.6	33.1	37.9	43.7	7.9	10.8	0.4	1.2	100.0	100.0
TN	-	0.1	-	-	-	-	0.1	0.2	1.1	0.8	6.1	7.3	25.2	38.2	50.3	42.7	16.1	9.8	1.1	0.9	100.0	100.0
MO	0.1	-	-	-	-	-	-	-	0.4	0.8	7.6	11.1	43.8	43.4	41.8	38.6	6.2	5.6	0.1	0.5	100.0	100.0
AR	-	•	0.1	-	0.1	•	0.1	0.3	1.9	2.2	11.1	15.4	39.7	44.8	36.8	30.4	9.5	6.5	0.7	0.4	100.0	100.0
LA	-	-	-	-	-	-	-	•	0.2	0.4	2.5	5.2	20.7	24.2	50.1	43.0	24.4	23.5	2.1	3.7	100.0	100.0
OK	-	-	-	-	-	-	-	-	-	-	-	0.1	0.7	1.9	9.6	30.0	52.0	63.8	37.7	4.2	100.0	100.0
TX	-	-	-	-	-	•	0.1	•	0.3	0.1	1.5	1.2	8.8	9.3	24.5	17.3	40.7	29.2	24.1	42.9	100.0	100.0
NM	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	11.0	1.7	30.5	16.7	56.5	81.6	100.0	100.0
All other	-	-	-	-	-	-	-	-	-	-	1.1	2.7	2.1	10.8	7.4	32.5	66.2	24.3	23.2	29.7	100.0	100.0
U.S.	•	•	•	•	•	•	0.1	0.1	0.8	0.9	5.2	5.9	21.1	22.7	30.6	28.7	24.6	21.1	17.6	20.6	100.0	100.0

• Less than 0.05 percent.

Table 7. Percentage distribution of quality index by specified frequencies, by states and United States, 1976 and 1977

State	Quality Index																			
	Below grade		Below prime quality														Prime quality 100		Total	
			40.0-49.9		50.0-69.9		70.0-79.9		80.0-84.9		85.0-89.9		90.0-94.9		95.0-99.9					
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	-	0.4	-	0.4	-	4.1	0.3	8.1	-	9.4	-	15.7	0.3	16.8	50.0	32.0	49.4	13.1	100.0	100.0
SC	0.1	-	0.1	-	0.1	1.3	0.2	4.7	0.3	6.1	0.4	13.4	1.5	20.4	49.3	38.5	48.0	15.6	100.0	100.0
GA	0.1	2.7	-	2.2	1.8	15.4	3.5	20.8	4.2	10.8	11.6	14.5	18.9	16.6	39.8	13.4	20.1	3.6	100.0	100.0
AL	0.1	0.8	0.1	2.6	0.2	24.0	0.4	22.0	0.4	13.5	2.1	10.0	5.5	7.4	64.7	17.4	26.5	2.3	100.0	100.0
MS	*	0.1	-	0.1	0.1	1.7	0.2	4.4	0.2	5.3	0.4	8.9	2.5	17.3	67.7	50.9	28.9	11.3	100.0	100.0
TN	-	-	-	0.3	-	1.9	-	7.1	0.3	7.5	1.1	14.1	5.7	23.6	75.4	42.2	17.5	3.3	100.0	100.0
MO	-	-	-	0.1	0.1	0.2	0.2	2.0	0.4	3.3	0.7	7.1	2.6	25.8	61.7	60.5	34.3	1.0	100.0	100.0
AR	-	0.1	-	*	*	0.6	*	1.3	0.1	2.2	0.3	4.9	1.6	14.8	44.0	59.4	54.0	16.7	100.0	100.0
LA	-	-	-	*	-	0.6	*	1.6	-	1.9	-	5.8	0.7	13.9	30.6	56.8	68.7	19.4	100.0	100.0
OK	-	-	-	-	-	-	-	-	-	-	-	0.1	0.7	0.9	69.7	67.8	29.6	31.2	100.0	100.0
TX	*	*	*	*	0.1	0.1	0.2	0.1	0.3	0.1	0.6	0.3	4.9	1.3	82.9	64.3	11.0	33.8	100.0	100.0
NM	-	-	-	-	-	-	0.5	-	-	-	3.0	0.6	5.0	3.4	60.5	77.7	31.0	18.3	100.0	100.0
All other	-	-	-	-	-	5.4	-	2.7	-	-	-	10.8	3.2	10.8	37.9	43.2	58.9	27.1	100.0	100.0
U. S.	*	0.1	*	0.2	0.1	1.8	0.3	2.9	0.4	2.8	0.9	4.8	3.9	10.1	64.7	56.4	29.7	20.9	100.0	100.0

* Less than 0.05 percent.

Table 8. Percentage distribution of grades by specified frequencies, by states and United States, 1976 and 1977

State	Grade																					
	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 - 104.9		105.0 - 109.9		110.0 and over		Total	
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	-	0.4	-	4.1	-	3.3	-	6.6	0.3	7.4	0.6	14.8	2.6	13.5	18.9	23.3	62.2	22.5	15.4	4.1	100.0	100.0
SC	0.1	-	0.3	1.4	0.1	2.2	-	2.4	0.1	7.2	0.9	11.7	3.6	16.3	10.4	24.1	40.2	25.8	44.3	8.9	100.0	100.0
GA	0.1	2.3	1.1	20.5	0.6	7.0	1.3	12.2	3.7	13.6	5.4	9.9	12.6	16.3	24.0	12.8	35.7	4.9	15.5	0.5	100.0	100.0
AL	0.1	0.4	0.3	40.6	0.5	12.6	1.4	12.5	3.8	13.7	13.8	12.3	29.5	5.6	34.7	2.3	15.0	-	0.9	-	100.0	100.0
MS	-	0.1	0.5	6.9	0.7	5.3	4.1	10.3	15.9	17.3	36.6	31.0	34.1	23.9	7.7	4.8	0.4	0.4	•	•	100.0	100.0
TN	-	0.1	0.4	8.3	1.1	8.3	3.2	13.7	11.0	25.5	26.8	27.8	43.1	12.3	13.9	3.8	0.5	0.1	-	0.1	100.0	100.0
MO	-	-	0.2	2.4	0.7	4.0	2.7	11.2	10.9	29.9	41.7	35.5	38.1	15.6	5.7	1.3	-	0.1	-	-	100.0	100.0
AR	-	•	0.6	3.5	0.7	4.0	2.9	10.4	12.2	24.4	38.1	32.7	34.9	19.5	9.8	4.9	0.7	0.5	0.1	0.1	100.0	100.0
LA	-	-	•	1.4	•	2.1	0.6	5.0	4.2	12.9	20.5	30.9	46.8	33.6	25.2	12.5	2.7	1.6	-	-	100.0	100.0
OK	-	0.1	-	-	-	-	-	0.1	0.4	0.6	1.5	4.1	14.6	37.3	51.0	54.2	32.3	3.5	0.2	0.1	100.0	100.0
TX	•	•	0.3	0.2	0.4	0.1	1.0	0.3	3.6	1.8	12.6	10.0	30.4	17.6	34.6	31.0	15.2	31.4	1.9	7.6	100.0	100.0
NM	-	-	-	-	0.5	-	-	-	1.5	0.6	6.5	-	15.0	4.5	25.5	29.6	24.0	49.3	27.0	16.0	100.0	100.0
All other	-	-	-	8.1	-	2.7	2.1	2.7	-	8.1	4.3	24.4	8.4	13.5	63.1	18.9	22.1	18.9	-	2.7	100.0	100.0
U. S.	•	0.1	0.4	4.5	0.5	3.0	1.9	5.8	7.5	11.6	22.1	20.7	31.8	20.2	22.5	17.7	10.5	13.2	2.8	3.2	100.0	100.0

• Less than 0.05 percent.

Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1976 and 1977

State	Oil																							
	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		Total	
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	-	-	0.3	-	0.3	-	-	0.8	1.6	3.7	2.0	4.9	9.2	16.4	24.0	24.6	49.7	44.3	11.9	5.3	1.0	-	100.0	100.0
SC	-	-	-	0.7	-	0.4	0.1	1.3	0.6	1.6	0.7	4.3	4.7	11.6	7.6	22.8	40.4	43.7	37.6	13.4	8.3	0.2	100.0	100.0
GA	0.1	-	-	0.4	0.1	0.7	0.2	3.2	0.2	5.7	0.4	12.7	2.5	14.2	7.2	21.1	43.1	32.7	39.3	8.6	6.9	0.7	100.0	100.0
AL	0.4	2.9	0.8	14.0	3.4	15.9	7.1	14.1	10.4	17.0	18.2	15.9	21.3	10.0	18.9	5.8	17.1	4.1	2.2	0.3	0.2	-	100.0	100.0
MS	5.6	7.1	19.6	17.0	16.9	17.3	20.3	20.8	17.9	17.1	10.7	11.8	5.2	5.4	2.4	2.0	1.3	1.3	0.1	0.1	-	0.1	100.0	100.0
TN	1.9	2.5	7.2	16.5	8.1	18.4	14.7	24.8	22.3	18.9	23.6	11.3	13.8	4.9	6.7	1.9	1.6	0.5	0.1	0.3	-	-	100.0	100.0
MO	1.8	1.8	17.1	15.4	23.2	18.7	25.1	25.3	18.0	22.0	9.4	10.2	4.3	4.4	1.0	1.2	0.1	1.0	-	-	-	-	100.0	100.0
AR	5.8	8.6	20.4	25.9	18.4	20.0	21.6	19.5	15.4	13.0	10.0	7.2	5.0	3.6	2.4	1.6	0.9	0.5	*	0.1	0.1	*	100.0	100.0
LA	0.7	2.6	6.6	10.2	9.9	11.4	14.3	13.1	20.5	18.7	18.9	17.1	13.7	12.5	8.6	8.0	6.2	5.8	0.6	0.6	*	-	100.0	100.0
OK	-	-	0.4	0.5	0.2	1.1	2.0	6.3	7.2	18.8	13.3	33.7	25.7	27.0	27.9	9.9	20.7	2.5	2.6	0.2	-	-	100.0	100.0
TX	0.6	0.5	2.7	3.8	3.0	4.8	6.2	6.5	8.4	6.3	13.6	8.7	18.2	13.0	16.3	16.6	24.3	30.5	5.8	9.0	0.9	0.3	100.0	100.0
NM	-	-	-	-	0.5	-	3.0	0.6	2.5	0.6	7.5	1.1	8.0	5.7	14.0	12.6	20.0	56.6	19.5	15.4	25.0	7.4	100.0	100.0
All other	-	-	1.1	-	1.1	-	1.1	-	1.1	13.5	9.5	10.8	39.6	24.4	21.1	21.6	23.2	21.6	1.1	8.1	1.1	-	100.0	100.0
U. S.	2.3	3.4	9.1	11.3	9.0	11.2	12.2	13.0	12.4	12.1	12.5	10.9	12.2	9.8	10.1	9.3	14.2	14.7	5.0	4.1	1.0	0.2	100.0	100.0

* Less than 0.05 percent.

Table 10. Percentage distribution of ammonia by specified frequencies, by states and United States, 1976 and 1977

State	Ammonia																					
	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		Total	
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	-	-	-	-	-	-	-	0.4	-	-	-	-	0.3	0.4	4.6	1.6	14.5	14.3	80.6	83.3	100.0	100.0
SC	-	-	-	-	-	-	-	-	0.1	0.2	0.3	0.7	2.7	0.9	9.6	6.3	23.4	18.4	63.9	73.5	100.0	100.0
GA	-	-	-	-	-	-	-	1.3	0.3	0.5	1.2	1.4	6.7	3.2	12.7	9.0	24.2	18.5	54.9	66.1	100.0	100.0
AL	0.1	-	-	-	0.1	0.1	1.1	0.3	4.1	0.9	13.2	4.0	24.7	8.2	25.5	19.0	17.6	31.1	13.6	36.4	100.0	100.0
MS	-	-	*	-	0.2	-	1.0	0.3	6.1	1.0	17.3	4.3	29.4	16.3	28.6	33.3	13.5	32.7	3.9	12.1	100.0	100.0
TN	-	-	-	0.2	-	0.1	1.6	0.2	8.5	1.5	33.7	7.2	39.6	25.3	15.2	37.3	1.4	22.8	-	5.4	100.0	100.0
MO	-	-	-	0.4	-	-	0.2	0.6	2.2	4.2	7.9	23.3	22.5	42.1	43.3	24.3	20.3	4.0	3.6	1.1	100.0	100.0
AR	-	-	-	*	*	0.1	0.3	0.2	2.0	1.3	9.6	8.0	22.5	28.1	36.1	35.8	23.8	20.8	5.7	5.7	100.0	100.0
LA	-	*	*	-	0.2	0.1	3.0	0.7	8.5	3.4	19.9	14.2	23.0	26.5	20.0	31.0	15.6	19.5	9.8	4.6	100.0	100.0
OK	-	0.1	-	-	-	-	0.2	0.1	1.1	0.3	1.7	1.1	5.9	3.4	8.5	15.3	16.5	39.7	66.1	40.0	100.0	100.0
TX	*	*	0.1	*	0.6	0.1	1.5	0.4	5.5	2.3	14.5	5.4	24.8	8.4	25.4	16.0	17.3	28.7	10.3	38.7	100.0	100.0
NM	-	-	-	-	0.5	-	3.0	-	12.5	0.6	21.0	3.4	29.0	8.0	19.0	25.1	10.0	29.1	5.0	33.8	100.0	100.0
All other	-	-	-	-	-	-	-	10.8	-	19.0	8.4	18.9	21.1	16.2	18.9	-	32.6	10.8	19.0	24.3	100.0	100.0
U. S.	*	*	*	*	0.3	*	1.1	0.4	4.8	1.8	14.0	6.5	23.8	15.7	26.0	24.4	17.3	26.5	12.7	24.7	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, 1976

State	Moisture														
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0 - 5.0	5.1 - 7.0	7.1 - 9.0	9.1 - 10.0	10.1 - 11.0	11.1 - 12.0	12.1 - 14.0	14.1 - 16.0	16.1 - 18.0	18.1 - 20.0	20.1 and over	Total
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	83.8	16.2	-	-	-	16.2	28.7	25.7	13.2	13.9	2.3	-	-	-	100.0
SC	84.7	15.3	-	0.1	-	20.3	26.7	23.3	14.3	11.5	3.0	0.7	0.1	-	100.0
GA	86.7	13.3	-	-	-	20.2	25.0	25.9	15.6	11.4	1.6	0.2	0.1	-	100.0
AL	61.1	38.8	0.1	-	-	2.5	12.5	22.0	24.1	30.2	6.8	1.5	0.3	0.1	100.0
MS	61.8	38.2	*	*	-	1.7	9.8	21.7	28.6	30.7	6.6	0.9	*	*	100.0
TN	62.7	37.1	0.2	-	-	0.3	4.9	27.7	29.8	28.9	7.1	1.1	-	0.2	100.0
MO	65.3	34.7	-	-	-	0.4	6.0	30.0	28.9	28.3	5.8	0.6	-	-	100.0
AR	71.7	28.0	0.3	*	-	1.0	9.6	30.4	30.7	22.9	3.9	0.9	0.3	0.3	100.0
LA	85.0	15.0	-	-	-	4.6	25.4	32.4	22.6	13.0	1.9	0.1	*	-	100.0
OK	100.0	-	-	-	0.2	56.6	33.0	9.3	0.9	-	-	-	-	-	100.0
TX	93.7	6.3	*	*	1.6	54.4	21.4	10.5	5.8	4.5	1.4	0.3	0.1	*	100.0
NM	98.5	1.5	-	-	1.5	68.0	21.5	6.0	1.5	1.5	-	-	-	-	100.0
All other	96.7	3.3	-	1.1	13.7	48.3	10.5	16.8	6.3	2.2	1.1	-	-	-	100.0
U. S.	79.3	20.6	0.1	*	0.6	23.5	16.6	20.2	18.4	16.4	3.5	0.6	0.1	0.1	100.0

* Less than 0.05 percent.

Table 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1977

State	Moisture														
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0 - 5.0	5.1 - 7.0	7.1 - 9.0	9.1 - 10.0	10.1 - 11.0	11.1 - 12.0	12.1 - 14.0	14.1 - 16.0	16.1 - 18.0	18.1 - 20.0	20.1 and over	Total
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	55.0	45.0	-	-	-	0.8	4.5	17.2	32.5	31.9	8.6	4.1	0.4	-	100.0
SC	69.3	30.7	-	-	-	3.1	14.5	26.0	25.7	21.7	7.6	1.4	-	-	100.0
GA	63.3	36.5	0.2	0.2	-	4.3	9.7	26.2	22.9	25.8	8.4	1.6	0.7	0.2	100.0
AL	36.6	63.0	0.4	-	-	1.4	3.9	13.1	18.2	38.4	19.8	4.1	0.7	0.4	100.0
MS	47.7	51.8	0.5	-	-	0.7	4.8	17.0	25.2	37.3	11.7	2.2	0.6	0.5	100.0
TN	20.0	79.6	0.4	-	-	0.5	1.3	5.7	12.5	35.5	32.0	9.7	2.4	0.4	100.0
MO	19.6	80.2	0.2	-	-	0.2	0.9	5.3	13.2	33.7	34.2	10.8	1.5	0.2	100.0
AR	28.8	70.7	0.5	-	-	0.8	3.2	9.0	15.8	38.9	23.3	7.0	1.5	0.5	100.0
LA	55.5	44.3	0.2	*	-	0.9	7.0	23.2	24.4	32.6	10.0	1.4	0.3	0.2	100.0
OK	99.0	1.0	-	-	3.2	62.5	24.8	6.3	2.2	0.8	0.2	-	-	-	100.0
TX	96.1	3.9	*	0.1	29.3	49.8	10.6	4.1	2.2	2.6	1.1	0.2	*	*	100.0
NM	98.8	1.2	-	-	33.0	35.5	14.3	8.6	7.4	1.2	-	-	-	-	100.0
All other	64.9	35.1	-	-	10.8	8.1	19.0	13.5	13.5	24.3	8.1	2.7	-	-	100.0
U. S.	63.9	35.8	0.3	*	11.3	21.9	7.7	10.3	12.7	21.9	10.6	2.7	0.6	0.3	100.0

* Less than 0.05 percent.

Table 13. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1976

State	Free fatty acids														
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0 - 0.4	0.5 - 0.9	1.0 - 1.4	1.5 - 1.8	1.9 - 2.9	3.0 - 4.9	5.0 - 6.9	7.0 - 8.9	9.0 - 10.9	11.0 - 12.4	12.5 and over	Total
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	97.4	2.6	-	38.9	49.3	7.9	1.3	2.0	0.3	-	0.3	-	-	-	100.0
SC	93.2	6.5	0.3	27.4	48.7	12.7	4.4	4.5	1.3	0.3	0.3	-	0.1	0.3	100.0
GA	27.8	72.1	0.1	1.0	7.6	5.6	13.6	30.6	26.6	9.6	3.4	1.1	0.8	0.1	100.0
AL	91.4	8.5	0.1	22.6	48.6	14.6	5.6	4.8	2.3	0.9	0.3	0.1	0.1	0.1	100.0
MS	99.1	0.9	-	66.4	28.5	3.5	0.7	0.5	0.3	0.1	*	*	*	-	100.0
TN	98.6	1.4	-	57.0	36.9	3.6	1.1	0.7	0.6	0.1	-	-	-	-	100.0
MO	97.7	2.2	0.1	79.8	16.3	1.2	0.4	0.8	0.8	0.2	0.4	-	-	0.1	100.0
AR	99.7	0.3	-	69.4	28.8	1.3	0.2	0.3	*	-	*	-	-	-	100.0
LA	99.2	0.7	0.1	69.7	25.9	3.2	0.4	0.6	0.1	*	-	-	-	0.1	100.0
OK	100.0	-	-	18.7	77.9	3.0	0.4	-	-	-	-	-	-	-	100.0
TX	98.2	1.8	*	46.2	44.5	5.9	1.6	1.3	0.4	0.1	*	*	*	*	100.0
NM	97.5	2.5	-	51.5	43.5	1.0	1.5	2.0	0.5	-	-	-	-	-	100.0
All other	95.7	4.3	-	38.9	35.7	13.7	7.4	3.2	1.1	-	-	-	-	-	100.0
U. S.	95.6	4.4	*	52.7	36.2	4.9	1.8	2.2	1.4	0.5	0.2	0.1	*	*	100.0

* Less than 0.05 percent.

Table 14. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1977

State	Free fatty acids														
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0 - 0.4	0.5 - 0.9	1.0 - 1.4	1.5 - 1.8	1.9 - 2.9	3.0 - 4.9	5.0 - 6.9	7.0 - 8.9	9.0 - 10.9	11.0 - 12.4	12.5 and over	Total
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	30.7	68.1	1.2	1.6	15.2	8.6	5.3	15.6	26.2	16.0	7.4	2.5	0.4	1.2	100.0
SC	26.8	73.0	0.2	-	3.3	11.7	11.8	29.9	26.8	10.7	4.5	0.9	0.2	0.2	100.0
GA	6.0	85.4	8.6	0.2	2.7	1.7	1.4	9.5	29.7	15.6	15.9	8.2	6.5	8.6	100.0
AL	18.1	74.7	7.2	2.9	7.6	4.5	3.1	4.0	12.4	20.1	16.9	14.2	7.1	7.2	100.0
MS	45.4	54.1	0.5	4.9	17.4	13.2	9.9	21.6	19.9	8.0	3.1	1.2	0.3	0.5	100.0
TN	42.2	57.3	0.5	7.8	20.9	6.8	6.7	15.6	26.2	9.6	4.4	1.3	0.2	0.5	100.0
MO	43.0	56.9	0.1	4.6	9.7	11.7	17.0	35.3	17.0	3.9	0.6	0.1	-	0.1	100.0
AR	67.2	32.7	0.1	8.8	27.1	17.8	13.5	18.1	10.2	3.0	0.8	0.4	0.2	0.1	100.0
LA	53.0	47.0	*	0.4	11.7	22.8	18.1	26.6	15.0	3.6	1.2	0.5	0.1	*	100.0
OK	99.8	0.2	-	52.1	46.6	1.0	0.1	0.1	0.1	-	-	-	-	-	100.0
TX	99.1	0.9	*	65.1	30.0	3.4	0.6	0.4	0.3	0.1	0.1	*	*	*	100.0
NM	100.0	-	-	80.5	18.3	1.2	-	-	-	-	-	-	-	-	100.0
All other	46.0	51.3	2.7	21.7	10.8	-	13.5	24.3	16.2	2.7	2.7	5.4	-	2.7	100.0
U. S.	69.7	29.7	0.6	29.9	23.4	9.5	6.9	11.9	9.9	4.2	2.1	1.1	0.5	0.6	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, 1976

State	Foreign matter													
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0 - 0.5	0.6 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.5	5.6 - 7.0	7.1 - 8.5	8.6 - 10.0	10.1 and over	Total
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	63.9	36.1	-	24.7	39.2	27.3	7.2	1.6	-	-	-	-	-	100.0
SC	63.6	36.3	0.1	31.4	32.2	27.1	6.0	1.9	1.0	0.3	-	-	0.1	100.0
GA	84.7	15.3	-	47.6	37.1	12.1	2.3	0.7	0.1	0.1	-	-	-	100.0
AL	41.5	57.9	0.6	7.6	33.9	35.2	13.3	4.7	3.1	1.0	0.3	0.3	0.6	100.0
MS	45.6	53.9	0.5	10.3	35.3	40.0	8.2	2.5	1.9	0.7	0.4	0.2	0.5	100.0
TN	30.6	68.4	1.0	7.9	22.7	35.8	17.7	7.0	3.8	2.0	1.0	1.1	1.0	100.0
MO	56.8	43.0	0.2	13.4	43.4	28.4	7.7	4.0	1.9	0.6	0.2	0.2	0.2	100.0
AR	74.4	25.2	0.4	33.6	40.8	18.5	3.9	1.4	0.8	0.4	0.1	0.1	0.4	100.0
LA	81.1	18.9	-	36.8	44.3	13.3	2.7	1.8	0.7	0.4	-	-	-	100.0
OK	29.6	70.4	-	4.6	25.0	42.6	17.6	6.3	2.8	0.9	0.2	-	-	100.0
TX	14.2	84.9	0.9	4.4	9.8	26.4	27.0	16.0	9.8	4.0	1.2	0.5	0.9	100.0
NM	33.0	63.0	4.0	5.0	28.0	28.5	14.0	8.5	4.0	6.0	1.0	1.0	4.0	100.0
All other	62.0	38.0	-	6.3	55.7	25.3	1.1	4.2	4.2	2.1	-	1.1	-	100.0
U. S.	43.0	56.4	0.6	15.7	27.3	27.4	14.3	7.4	4.5	1.9	0.6	0.3	0.6	100.0

Table 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1977

State	Foreign matter													
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0 - 0.5	0.6 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.5	5.6 - 7.0	7.1 - 8.5	8.6 - 10.0	10.1 and over	Total
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	59.0	41.0	-	21.7	37.3	29.1	7.8	2.9	0.8	0.4	-	-	-	100.0
SC	65.8	34.2	-	23.5	42.3	27.1	5.8	0.7	0.4	0.2	-	-	-	100.0
GA	66.6	33.2	0.2	32.2	34.4	23.3	5.9	1.8	1.3	0.7	-	0.2	0.2	100.0
AL	33.2	66.6	0.2	6.4	26.8	43.9	14.0	5.5	2.5	0.3	0.2	0.2	0.2	100.0
MS	49.5	50.4	0.1	10.0	39.5	37.6	8.2	2.3	1.5	0.5	0.2	0.1	0.1	100.0
TN	51.8	48.2	-	18.3	33.5	28.2	11.3	4.6	2.7	0.5	0.5	0.3	0.1	100.0
MO	37.2	62.7	0.1	7.3	29.9	44.7	11.9	3.6	2.2	0.1	0.1	0.1	0.1	100.0
AR	67.1	32.6	0.3	25.5	41.6	24.8	5.0	1.5	0.7	0.3	0.2	0.1	0.3	100.0
LA	73.1	26.6	0.3	26.0	47.1	20.9	3.6	1.3	0.5	0.3	*	-	0.3	100.0
OK	31.7	68.2	0.1	5.8	25.9	39.8	18.8	5.9	2.9	0.7	0.1	-	0.1	100.0
TX	36.4	63.3	0.3	10.3	26.1	42.2	14.0	3.8	1.9	0.7	0.5	0.2	0.3	100.0
NM	19.5	79.9	0.6	6.9	12.6	39.9	20.0	10.3	5.7	3.4	0.6	-	0.6	100.0
All other	56.7	43.3	-	16.2	40.5	37.9	2.7	2.7	-	-	-	-	-	100.0
U. S.	48.1	51.7	0.2	14.5	33.6	35.8	10.3	3.1	1.6	0.5	0.3	0.1	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, 1976 and 1977

State	Quality						Total samples graded		Reduced due to excess					
	Prime		Below prime and off quality		Below grade				Moisture		Free fatty acids		Foreign matter	
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
NC	300	64	308	422	-	2	608	488	98	220	16	338	220	200
SC	670	172	730	934	2	-	1,402	1,106	216	340	94	810	510	378
GA	358	40	1,430	1,046	2	30	1,790	1,116	240	410	1,292	1,050	274	372
AL	762	54	2,114	2,312	2	18	2,878	2,384	1,118	1,514	244	1,952	1,684	1,594
MS	2,620	1,300	6,452	10,224	2	14	9,074	11,538	3,480	6,048	100	6,288	4,940	5,826
TN	400	78	1,882	2,318	-	-	2,282	2,396	848	1,916	28	1,388	1,586	1,154
MO	568	20	1,088	1,920	-	-	1,656	1,940	574	1,560	38	1,104	718	1,218
AR	4,500	1,642	3,860	8,328	-	6	8,360	9,976	2,368	7,098	36	3,258	2,142	3,282
LA	2,758	900	1,266	3,788	-	-	4,024	4,688	610	2,082	38	2,206	762	1,266
OK	272	692	648	1,524	-	-	920	2,216	-	20	-	4	648	1,514
TX	2,028	7,828	16,434	15,364	2	2	18,464	23,194	1,148	910	336	214	15,842	14,734
NM	124	64	276	286	-	-	400	350	6	4	10	-	268	282
All other	112	20	78	54	-	-	190	74	6	26	8	40	72	32
U. S.	15,472	12,874	36,566	48,520	10	72	52,048	61,466	10,712	22,148	2,240	18,652	29,666	31,852