COTTONSEED QUALITY

CROP OF 1980

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Marketing Service Cotton Division
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CONTENTS

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Cottonseed Quality - 1980 Crop

Cottonseed from the 1980 crop was lower in grade than a year earlier, according to the Cotton Division, Agricultural Marketing Service, USDA. The average grade was 95.5 compared with 97.0 for the 1979 crop and 98.0 in 1978. The quality index was 98.0 against 97.7 and 98.5 in 1979 and 1978, respectively. The percentage of free fatty acid in cottonseed was down slightly while foreign matter was unchanged from last year. Although moisture content was up fractionally from a year earlier at 10.4, the percentage remained lower than 11 of the past 12 years. The quantity index of cottonseed from the 1980 crop was 97.17, down slightly from 98.92 a year earlier. Average oil content of seed from the 1980 crop was down slightly from the 1979 crop while ammonia content was slightly higher.

Data from grade certificates covering 38,224 samples of cottonseed were used to compile this report. Averages of cottonseed quantity and quality factors and grades are shown by states (when sufficient certificates were received), by marketing services office areas, by months and by specified frequencies. Average grade factors of cottonseed are shown by states in Table 3. The averages in this report are arithmetic means of grade factors and indexes tabulated and averaged from the individual grade certificates.

The summary of national averages appearing in Table 1 below and presented in other tables of this report are based on state quantity and quality factors and grades weighted by the number of certificates received.

Table 1. Cottonseed grade factors, indexes and grades, 1955-1980

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
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
1978	17.4	4.08	1/	10.5	0.9	1.5	98.97	98.5	98.0	50,418
1979	17.6	3.92	1/	10.3	1.0	1.7	98.92	97.7	97.0	56,792
1980	16.9	4.08	1/	10.4	0.9	1.7	97.17	98.0	95.5	38,224

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.

Table 3. Cottonseed: Quality factors, indexes and grades, by states and United States, 1979 and 1980

State	Cottonseed analysis										Average index				Average grade	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality			
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.						
NC	18.6	17.3	4.04	4.41	11.4	12.1	3.2	4.1	1.0	0.9	103.54	100.75	93.8	87.7	97.0	89.0
SC	18.6	17.3	4.13	4.45	11.4	11.7	4.3	4.5	0.8	1.1	104.41	100.95	89.3	86.7	93.0	88.0
GA	19.2	16.9	4.06	4.33	11.0	11.6	9.2	3.0	1.1	0.9	106.35	98.72	66.7	92.5	71.0	91.5
AL	18.1	16.3	3.72	4.10	11.6	11.2	1.4	1.3	1.3	1.3	99.82	94.60	98.0	97.5	98.0	92.5
MS	17.6	16.5	3.76	4.03	11.6	11.4	0.7	0.6	1.4	1.3	97.97	95.08	99.0	99.0	97.5	94.5
TN	18.1	16.0	3.55	3.98	12.1	12.3	0.7	0.9	1.5	1.5	98.47	92.82	98.6	98.1	97.5	91.5
MO	17.4	16.2	3.72	4.03	12.0	12.9	0.5	0.5	1.0	1.0	96.58	93.73	99.1	98.3	96.0	92.5
AR	17.6	16.0	3.71	3.98	11.6	12.2	0.5	0.6	1.0	1.0	97.71	92.88	99.3	98.7	97.5	92.0
LA	17.8	16.5	3.84	4.05	11.4	11.0	0.8	0.5	1.0	1.0	99.32	95.17	99.2	99.3	98.5	95.0
OK	17.6	17.3	4.14	4.15	9.3	8.7	0.5	0.5	1.8	1.6	100.30	98.87	99.0	99.3	99.5	98.5
TX	17.4	17.6	4.03	4.10	9.3	8.8	0.7	0.8	2.2	2.3	98.71	100.11	98.0	98.0	97.0	98.5
NM	17.7	19.0	4.09	4.09	7.8	8.0	0.4	0.6	3.2	3.4	100.37	105.69	97.7	97.4	98.5	103.0
AZ	18.7	18.8	4.26	4.16	6.8	7.3	0.3	0.5	3.2	1.5	104.90	104.56	97.9	99.2	103.0	104.0
Other	18.6	17.7	3.58	4.15	11.7	8.7	1.7	1.0	0.6	0.6	99.81	100.61	98.4	99.5	99.5	100.5
U. S.	17.6	16.9	3.92	4.08	10.3	10.4	1.0	0.9	1.7	1.7	98.92	97.17	97.7	98.0	97.0	95.5

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1979 and 1980

NORTH CAROLINA

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Aug.	-	19.7	-	4.37	-	9.6	-	1.7	-	0.4	-	112.50	-	100.0	-	112.5	-	2
Sept.	17.7	17.2	3.77	4.45	14.6	11.2	2.7	0.6	0.4	0.6	98.75	100.37	93.7	99.6	93.5	100.0	2	68
Oct.	18.4	17.3	4.13	4.41	11.3	12.2	3.7	3.5	0.7	0.7	103.53	100.63	92.3	90.8	95.5	91.5	102	174
Nov.	18.6	17.2	4.03	4.40	11.8	12.8	3.1	6.1	0.9	1.1	103.56	100.47	94.8	80.9	98.5	81.5	136	114
Dec.	18.8	17.4	4.01	4.43	10.7	12.1	2.7	6.2	1.4	1.4	104.30	100.81	95.9	77.8	99.5	79.5	80	54
Jan.	18.1	17.4	3.91	4.37	12.1	11.6	3.6	6.0	1.0	2.3	100.48	101.92	91.6	64.6	91.0	78.5	30	6
Feb.	20.1	19.0	3.88	4.22	9.8	9.1	2.1	1.9	0.9	0.9	108.94	106.13	96.2	99.0	105.0	105.0	8	4
Mar. and later	18.7	19.2	3.86	4.37	11.0	9.1	4.7	2.6	2.0	0.4	103.18	107.00	87.1	96.9	91.0	103.0	14	4
Season	18.6	17.3	4.04	4.41	11.4	12.1	3.2	4.1	1.0	0.9	103.54	100.75	93.8	87.7	97.0	89.0	372	426
SOUTH CAROLINA																		
Aug.	-	20.2	-	4.07	-	9.6	-	3.5	-	0.4	-	108.75	-	93.7	-	101.5	-	2
Sept.	17.7	17.2	4.15	4.45	13.8	10.9	3.3	0.8	0.3	0.6	100.46	100.96	91.6	98.9	91.5	100.5	26	106
Oct.	18.4	17.3	4.13	4.45	12.1	12.0	4.4	3.0	0.7	0.9	103.54	101.01	89.1	93.5	92.0	94.5	358	302
Nov.	18.6	17.0	4.11	4.45	11.4	12.8	4.1	7.3	0.8	1.2	104.37	99.37	90.5	76.9	94.5	75.0	260	140
Dec.	18.6	17.4	4.13	4.50	10.4	10.8	4.1	8.7	1.0	1.6	104.23	102.32	91.1	65.9	94.0	72.5	128	74
Jan.	18.8	17.7	4.18	4.41	10.4	10.9	4.1	6.5	1.0	1.5	105.71	102.34	90.4	79.1	94.5	81.0	60	22
Feb.	19.3	17.8	4.12	4.45	9.8	10.5	4.8	6.4	0.8	1.5	107.67	103.34	87.6	80.1	94.0	83.5	50	28
Mar. and later	19.4	16.8	4.20	4.52	10.0	10.8	6.1	6.9	0.7	1.4	107.48	99.06	81.2	77.8	88.0	75.5	66	8
Season	18.6	17.3	4.13	4.45	11.4	11.7	4.3	4.5	0.8	1.1	104.41	100.95	89.3	86.7	93.0	88.0	948	682
GEORGIA																		
Sept.	19.1	16.7	4.03	4.38	12.7	11.1	1.2	1.0	0.6	0.7	104.79	98.10	98.7	99.2	103.5	97.5	14	154
Oct.	19.3	16.9	4.13	4.32	10.8	12.0	9.9	2.5	0.9	0.7	107.09	98.33	64.1	95.0	69.0	93.5	420	208
Nov.	19.2	17.1	4.05	4.31	11.3	11.8	10.1	5.3	1.1	1.0	106.15	99.59	64.6	83.6	67.0	84.0	470	114
Dec.	19.1	17.0	3.97	4.26	10.8	11.3	7.2	4.8	1.4	1.8	105.45	98.57	69.5	84.7	78.0	84.0	168	60
Jan.	19.0	18.0	3.96	4.42	10.8	10.6	6.0	5.1	1.5	1.3	105.34	103.58	79.0	87.7	84.5	91.0	56	12
Feb.	19.0	20.0	4.15	4.45	11.1	10.6	6.6	4.3	1.4	1.5	106.56	109.38	81.1	89.0	88.0	100.0	18	4
Mar. and later	19.6	16.2	4.00	4.07	9.7	10.6	5.4	3.5	1.4	4.8	107.25	92.50	87.3	87.5	91.0	82.5	12	2
Season	19.2	16.9	4.06	4.33	11.0	11.6	9.2	3.0	1.1	0.9	106.35	98.72	66.7	92.5	71.0	91.5	1,158	554

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1979 and 1980 (Continued)

ALABAMA

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Aug.	16.6	-	4.22	-	9.8	-	2.2	-	0.6	-	96.56	-	98.7	-	95.5	-	8	-
Sept.	16.6	16.0	4.12	4.05	10.6	10.9	0.8	0.7	0.6	1.0	95.83	93.50	99.8	99.0	96.5	92.5	6	298
Oct.	18.2	16.4	3.79	4.12	11.9	11.1	2.0	0.7	1.0	1.1	100.56	95.05	96.8	99.2	97.5	94.5	508	816
Nov.	18.2	16.2	3.70	4.10	11.9	11.8	1.3	1.7	1.2	1.7	100.21	94.45	98.3	97.0	98.5	92.0	892	418
Dec.	18.0	16.3	3.69	4.10	11.1	11.8	1.1	3.0	1.4	1.8	98.87	94.86	98.8	92.7	98.0	88.0	472	146
Jan.	17.7	16.2	3.69	4.11	11.4	10.8	1.4	4.2	1.7	2.1	97.67	94.02	97.6	88.0	95.5	82.0	158	58
Feb.	18.3	16.0	3.73	4.13	10.9	11.1	1.7	3.5	1.8	3.0	100.51	93.23	97.4	80.2	98.0	80.5	50	24
Mar. and later	18.4	16.8	3.68	4.01	10.9	9.4	1.7	1.4	1.3	0.6	100.75	95.87	98.3	99.6	99.0	96.0	74	38
Season	18.1	16.3	3.72	4.10	11.6	11.2	1.4	1.3	1.3	1.3	99.82	94.60	98.0	97.5	98.0	92.5	2,168	1,798
MISSISSIPPI																		
Aug.	17.8	18.2	4.21	3.92	10.5	9.6	2.0	1.0	0.7	1.0	101.18	100.83	98.6	99.8	100.5	101.0	52	6
Sept.	16.0	16.2	4.12	4.01	11.2	11.5	6.5	0.5	3.6	0.8	95.00	93.86	79.5	99.1	76.5	93.5	6	902
Oct.	18.1	16.7	3.80	4.05	11.4	11.1	0.7	0.4	1.0	1.0	100.28	95.94	99.4	99.3	100.0	95.5	2,792	4,102
Nov.	17.8	16.3	3.72	4.01	12.0	11.8	0.6	0.7	1.3	1.8	98.51	94.09	99.1	98.5	98.0	93.0	3,898	1,610
Dec.	16.8	16.0	3.75	3.97	11.2	12.3	0.6	1.4	1.8	2.7	94.46	92.87	98.8	97.0	93.5	90.0	1,996	336
Jan.	16.9	16.2	3.73	3.98	12.1	11.9	0.9	2.2	2.1	3.2	94.41	93.45	98.0	95.5	93.0	89.5	352	50
Feb.	16.5	16.6	3.76	4.04	12.1	11.5	1.1	2.2	2.7	3.2	93.20	95.55	97.4	92.8	90.5	89.5	82	32
Mar. and later	17.5	16.0	3.84	4.07	11.2	11.1	1.3	1.6	2.4	2.2	97.67	92.81	97.4	97.4	95.5	89.5	156	24
Season	17.6	16.5	3.76	4.03	11.6	11.4	0.7	0.6	1.4	1.3	97.97	95.08	99.0	99.0	97.5	94.5	9,334	7,062
TENNESSEE																		
Aug.	16.2	-	3.62	-	10.6	-	1.7	-	2.6	-	92.50	-	98.5	-	91.0	-	2	-
Sept.	16.2	15.9	3.92	3.96	11.6	12.0	4.5	0.6	0.9	0.6	92.50	92.15	87.5	99.0	82.5	91.5	2	320
Oct.	18.4	16.1	3.58	3.95	12.2	12.9	0.8	0.6	0.9	1.0	99.97	92.92	99.2	98.5	97.5	92.0	310	794
Nov.	18.2	16.0	3.55	4.02	12.4	11.7	0.6	1.1	1.4	2.6	99.07	93.07	98.7	97.8	98.0	91.5	780	374
Dec.	17.8	15.9	3.55	4.01	11.4	12.0	0.6	1.7	1.8	3.1	97.13	92.77	98.6	95.9	96.0	89.5	430	150
Jan.	17.5	16.2	3.53	4.06	11.9	12.1	0.9	2.0	2.1	3.3	95.70	93.68	98.0	94.6	94.0	88.0	74	28
Feb.	17.2	16.6	3.45	4.15	12.6	11.1	1.4	1.2	2.3	4.9	94.00	97.00	97.3	95.6	91.5	92.0	12	4
Mar. and later	17.5	16.2	3.47	3.77	11.5	12.6	2.7	2.7	3.0	6.3	95.33	92.50	93.0	91.2	88.5	82.5	24	2
Season	18.1	16.0	3.55	3.98	12.1	12.3	0.7	0.9	1.5	1.5	98.47	92.82	98.6	98.1	97.5	91.5	1,634	1,672

Table 4. Cottonseed: Quality factors, indexes and grades by specified periods and states, 1979 and 1980 (Continued)

MISSOURI

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Aug.	15.5	-	4.22	-	12.6	-	10.0	-	0.9	-	92.50	-	60.0	-	60.0	-	2	-
Sept.	16.8	16.0	3.73	4.04	14.1	12.9	1.4	0.5	1.0	0.8	94.59	93.30	95.7	98.3	89.5	92.0	16	410
Oct.	17.6	16.3	3.78	4.04	11.9	13.3	0.5	0.4	0.8	0.8	98.01	94.11	99.4	98.2	97.5	93.0	742	762
Nov.	17.2	16.1	3.65	4.01	12.3	12.3	0.5	0.5	1.1	1.4	95.11	93.50	99.2	98.5	95.0	92.5	394	384
Dec.	16.5	16.2	3.57	3.96	11.7	12.1	0.4	0.9	2.1	2.2	92.02	93.38	98.4	96.9	90.5	89.5	88	54
Jan.	16.1	16.3	3.58	3.97	12.1	11.6	0.4	0.7	1.7	2.7	90.63	94.20	99.1	97.9	90.5	92.5	8	22
Feb.	17.9	15.8	3.65	3.88	11.4	12.3	0.5	1.0	1.7	3.4	98.00	91.25	98.9	97.2	97.5	89.0	12	8
Mar. and later	17.4	16.5	3.62	4.07	11.6	11.3	0.8	2.4	1.3	1.9	96.03	93.44	99.2	94.2	96.0	89.5	30	8
Season	17.4	16.2	3.72	4.03	12.0	12.9	0.5	0.5	1.0	1.0	96.58	93.73	99.1	98.3	96.0	92.5	1,292	1,648
ARKANSAS																		
Aug.	19.0	-	4.07	-	10.1	-	3.3	-	0.4	-	105.38	-	93.7	-	98.5	-	4	-
Sept.	16.0	15.9	3.72	3.97	13.7	12.0	1.4	0.5	0.6	0.6	91.11	92.36	96.8	99.1	87.5	91.5	18	670
Oct.	17.9	16.1	3.77	4.01	11.5	12.0	0.5	0.4	0.7	0.7	98.92	93.55	99.6	99.1	99.0	93.0	1,776	2,102
Nov.	17.8	15.9	3.68	3.95	12.0	12.6	0.5	0.7	1.0	1.2	98.12	92.34	99.3	98.5	97.5	91.5	2,088	1,058
Dec.	17.1	15.7	3.68	3.90	11.0	12.8	0.5	1.1	1.4	2.2	95.45	91.36	99.2	97.2	95.0	89.0	958	298
Jan.	16.7	15.8	3.69	3.99	11.8	12.2	0.7	1.6	1.4	3.0	93.58	92.42	98.9	95.2	93.0	86.5	168	64
Feb.	16.7	15.7	3.75	3.96	12.1	12.1	0.9	1.8	1.6	3.6	95.50	91.43	98.1	96.0	93.5	88.0	30	28
Mar. and later	17.4	16.2	3.72	4.05	11.5	10.7	1.4	0.9	2.3	1.3	97.35	94.18	96.6	99.3	94.0	93.5	40	14
Season	17.6	16.0	3.71	3.98	11.6	12.2	0.5	0.6	1.0	1.0	97.71	92.88	99.3	98.7	97.5	92.0	5,082	4,234
LOUISIANA																		
Aug.	16.6	18.2	4.15	3.77	10.9	9.6	3.6	1.1	0.7	0.7	95.97	101.50	93.5	100.0	89.5	101.5	18	2
Sept.	16.9	16.2	4.13	4.09	11.1	10.9	2.7	0.5	0.8	0.8	97.45	94.12	96.1	99.6	93.5	94.0	28	648
Oct.	18.1	16.7	3.90	4.06	10.8	10.7	0.9	0.4	0.7	0.9	101.12	96.05	99.7	99.5	100.5	96.0	1,548	1,622
Nov.	17.8	16.3	3.79	3.97	12.0	12.2	0.7	0.6	1.1	1.6	98.82	94.03	99.2	98.5	98.5	93.0	1,650	468
Dec.	17.3	16.0	3.82	3.91	11.2	12.6	0.8	1.0	1.5	2.1	96.93	92.55	98.9	97.6	96.0	90.0	610	92
Jan.	17.3	16.0	3.83	3.96	12.3	12.1	1.4	1.4	1.5	2.8	96.75	93.13	97.3	96.5	94.5	90.0	136	28
Feb.	18.0	16.2	3.70	4.07	11.4	11.7	0.9	1.7	1.4	2.4	98.84	94.06	99.0	96.1	98.5	91.5	22	16
Mar. and later	17.8	16.8	3.80	4.19	10.9	9.1	1.1	0.6	1.3	1.2	99.03	97.24	99.4	99.6	98.5	97.0	34	44
Season	17.8	16.5	3.84	4.05	11.4	11.0	0.8	0.5	1.0	1.0	99.32	95.17	99.2	99.3	98.5	95.0	4,046	2,920

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1979 and 1980 (Continued)

OKLAHOMA

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Sept.	-	18.7	-	3.55	-	10.6	-	0.4	-	0.7	-	100.94	-	99.9	-	101.0	-	8
Oct.	18.9	17.9	4.03	3.98	8.4	8.4	0.7	0.4	0.8	0.9	104.75	100.42	99.7	99.7	104.5	100.5	130	122
Nov.	17.8	17.5	4.22	4.20	9.0	7.8	0.4	0.4	1.7	1.4	101.38	99.98	99.2	99.4	101.0	99.5	770	364
Dec.	17.7	17.0	4.15	4.18	9.0	9.6	0.4	0.5	1.9	1.8	100.69	98.05	98.9	99.1	100.0	97.5	1,028	304
Jan.	17.3	16.8	4.10	4.13	9.7	9.4	0.5	0.6	1.9	2.0	98.84	96.79	99.0	98.9	98.0	96.5	910	154
Feb.	17.1	16.9	4.17	4.09	11.1	9.4	0.8	0.8	2.0	2.4	98.46	97.18	98.5	98.7	97.5	95.5	188	14
Mar. and later	17.2	16.2	3.97	3.92	10.0	9.6	1.1	1.1	1.9	4.8	97.94	92.50	99.0	96.5	97.0	91.0	56	2
Season	17.6	17.3	4.14	4.15	9.3	8.7	0.5	0.5	1.8	1.6	100.30	98.87	99.0	99.3	99.5	98.5	3,082	968
TEXAS																		
Aug.	17.7	16.9	3.90	3.95	11.3	11.0	0.5	1.1	1.0	1.2	99.06	96.37	99.4	97.7	99.0	94.5	2,238	2,256
Sept.	17.2	16.6	3.90	4.08	12.2	9.9	1.3	1.5	1.3	1.3	97.03	95.81	97.3	96.7	94.5	92.5	1,624	1,306
Oct.	17.6	17.3	4.08	4.13	9.1	9.8	1.7	0.7	1.6	1.9	99.96	99.08	95.2	98.4	96.0	98.0	2,616	1,644
Nov.	17.6	18.1	4.09	4.17	8.5	7.3	0.4	0.6	1.9	2.2	99.77	102.03	98.8	98.7	99.0	101.0	6,540	3,502
Dec.	17.5	18.0	4.09	4.10	7.9	8.5	0.4	0.6	2.5	2.8	99.52	101.40	98.4	98.2	98.5	100.0	6,602	3,682
Jan.	17.1	17.9	3.98	4.14	9.7	8.4	0.5	0.8	2.8	3.2	96.94	101.28	98.0	97.6	95.5	99.0	5,010	2,778
Feb.	16.9	17.7	3.95	4.08	11.0	8.9	1.0	1.3	3.0	3.9	95.98	100.23	97.3	96.4	93.5	96.5	1,656	488
Mar. and later	17.3	17.8	4.09	4.08	9.1	9.0	1.5	1.5	2.7	3.9	98.56	100.76	96.7	95.9	95.0	96.5	1,032	118
Season	17.4	17.6	4.03	4.10	9.3	8.8	0.7	0.8	2.2	2.3	98.71	100.11	98.0	98.0	97.0	98.5	27,318	15,774
NEW MEXICO																		
Oct.	19.2	19.5	4.19	4.07	7.1	9.2	0.2	0.4	2.1	1.9	106.78	106.81	99.1	99.1	106.5	107.5	18	16
Nov.	18.1	19.6	4.13	4.12	7.4	7.2	0.3	0.5	2.3	2.8	102.27	108.55	98.6	98.3	101.0	106.5	80	50
Dec.	17.6	18.5	4.13	4.08	7.4	8.7	0.4	0.6	3.6	3.1	100.34	104.21	97.3	97.9	98.0	102.0	76	38
Jan.	17.1	18.5	3.99	4.04	8.5	7.6	0.5	0.6	3.1	3.7	97.41	103.46	97.9	97.0	95.5	100.5	54	40
Feb.	16.6	18.4	3.94	4.11	9.9	8.6	0.7	1.3	5.9	6.0	95.59	103.31	94.8	94.4	91.0	98.0	16	16
Mar. and later	15.9	19.5	3.85	4.18	10.1	7.6	2.2	1.1	8.6	6.7	93.13	108.56	92.5	94.2	84.5	102.5	4	8
Season	17.7	19.0	4.09	4.09	7.8	8.0	0.4	0.6	3.2	3.4	100.37	105.69	97.7	97.4	98.5	103.0	248	168
ARIZONA																		
Oct.	18.7	18.9	4.07	4.17	7.6	7.7	0.1	0.4	2.6	0.8	104.50	105.77	98.5	99.8	103.5	106.0	2	68
Nov.	18.8	18.9	4.27	4.18	6.8	6.5	0.3	0.4	3.0	1.5	105.26	104.49	98.2	99.3	103.5	104.0	48	52
Dec.	18.5	18.5	4.26	4.16	6.5	7.2	0.4	0.5	3.4	1.8	104.66	103.09	97.5	99.1	102.0	102.0	22	46
Jan.	18.4	18.9	4.22	4.12	7.6	8.3	0.4	0.8	4.0	3.1	104.33	104.58	97.1	97.6	102.0	102.0	6	20
Feb.	-	17.7	-	3.92	-	6.6	-	0.6	-	2.6	-	98.75	-	98.5	-	96.0	-	2
Season	18.7	18.8	4.26	4.16	6.8	7.3	0.3	0.5	3.2	1.5	104.90	104.56	97.9	99.2	103.0	104.0	78	188

Table 5. Cottonseed: Quality factors, indexes and grades by marketing services office areas, by states, 1979 and 1980

SOUTHEASTERN

Marketing Services Office	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Florence	18.6	17.3	4.11	4.44	11.4	11.9	4.0	4.3	0.9	1.0	104.16	100.87	90.6	87.1	94.0	88.5	1,320	1,108
NC	18.6	17.3	4.04	4.41	11.4	12.1	3.2	4.1	1.0	0.9	103.54	100.75	93.8	87.7	97.0	89.0	372	426
SC	18.6	17.3	4.13	4.45	11.4	11.7	4.3	4.5	0.8	1.1	104.41	100.95	89.3	86.7	93.0	88.0	948	682
Macon GA	19.2	16.9	4.06	4.33	11.0	11.6	9.2	3.0	1.1	0.9	106.35	98.72	66.7	92.5	71.0	91.5	1,158	554
Birmingham AL	18.0	16.2	3.64	4.04	11.7	11.2	1.0	1.0	1.5	1.6	98.73	93.95	98.7	98.3	97.5	92.5	1,306	1,238
Montgomery AL	18.4	16.5	3.84	4.21	11.5	11.4	2.1	1.9	0.9	0.8	101.41	96.16	97.0	95.9	98.5	93.0	894 1/	600 1/

SOUTH CENTRAL

Greenwood MS	17.6	16.6	3.79	4.03	11.6	11.3	0.7	0.6	1.3	1.2	97.87	95.45	99.0	99.1	97.0	95.0	8,064	5,800
Memphis	18.0	16.0	3.56	4.00	12.0	12.1	0.6	0.8	1.5	1.5	98.23	92.95	98.7	98.3	97.5	91.5	3,098	3,108
TN	18.1	16.0	3.55	3.98	12.1	12.3	0.7	0.9	1.5	1.5	98.47	92.82	98.6	98.1	97.5	91.5	1,634	1,672
AR	16.7	15.5	3.64	4.01	12.2	12.1	0.5	0.5	1.0	1.1	93.65	91.01	99.2	98.9	93.0	90.0	194	174
MS	18.1	16.1	3.56	4.02	11.8	11.8	0.6	0.7	1.6	1.6	98.62	93.39	98.8	98.5	97.5	92.5	1,270	1,262
Hayti MO	17.4	16.2	3.72	4.03	12.0	12.9	0.5	0.5	1.0	1.0	96.58	93.73	99.1	98.3	96.0	92.5	1,292	1,648
Blytheville AR	17.2	15.8	3.76	3.95	11.9	13.2	0.5	0.7	1.0	1.0	96.15	91.67	99.2	97.9	95.5	90.0	1,542	1,306
Little Rock AR	17.9	16.2	3.69	3.99	11.5	11.7	0.5	0.5	1.0	0.9	98.66	93.57	99.4	99.1	98.5	93.0	3,346	2,754
Winnsboro LA	17.8	16.5	3.84	4.05	11.4	11.0	0.8	0.5	1.0	1.0	99.32	95.17	99.2	99.3	98.5	95.0	4,046	2,920

Table 5. Cottonseed: Quality factors, indexes and grades by marketing services office areas, by states, 1979 and 1980 (Continued)

SOUTHWESTERN

Marketing Services Office	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality					
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.							No.	No.
Altus	17.3	17.3	4.10	4.15	9.2	8.5	0.6	0.6	2.2	2.0	98.72	99.07	98.6	98.8	97.5	98.5	5,070	2,066
OK	17.6	17.3	4.16	4.14	9.3	8.7	0.5	0.5	1.9	1.6	100.28	98.95	99.0	99.3	99.5	98.5	2,606	932
TX	17.0	17.3	4.03	4.16	9.1	8.3	0.6	0.7	2.5	2.3	97.06	99.16	98.2	98.4	95.5	98.0	2,464	1,134
Dallas	17.5	15.9	4.05	4.22	9.6	7.9	0.6	0.6	1.9	1.2	99.31	93.85	98.8	99.6	98.5	94.0	1,576	438
TX	17.4	15.8	4.05	4.22	9.7	7.7	0.7	0.6	2.0	1.2	98.83	93.56	98.6	99.6	98.0	93.5	1,100	402
OK	17.8	16.7	4.04	4.21	9.2	9.9	0.5	0.5	1.6	1.0	100.38	97.00	99.3	99.8	100.0	97.0	476	36
Austin																		
TX	17.5	16.6	3.90	4.05	10.6	10.5	1.0	0.7	1.5	1.1	98.11	95.71	98.1	98.9	96.5	95.0	1,806	952
Corpus Christi																		
TX	17.3	16.3	3.92	3.99	12.2	11.9	2.1	1.5	1.5	1.6	97.38	93.74	94.1	95.8	92.0	89.5	1,658	1,152
Harlingen																		
TX	17.3	17.6	3.88	3.88	11.5	10.8	0.9	1.5	1.0	0.9	97.60	98.59	97.8	96.7	96.0	95.5	2,168	1,122
Abilene																		
TX	17.9	17.7	4.14	4.25	8.9	9.1	0.6	1.2	1.7	2.1	101.24	101.15	98.8	98.4	100.5	100.0	5,428	1,814
Lubbock	17.3	18.0	4.04	4.10	8.4	8.0	0.5	0.6	2.7	2.7	98.36	101.70	98.1	98.1	97.0	100.0	12,742	7,228
TX	17.3	18.0	4.04	4.10	8.4	8.0	0.5	0.6	2.7	2.7	98.36	101.70	98.1	98.1	97.0	100.0	12,584	7,216
NM	17.3	17.7	4.09	4.15	8.1	8.9	0.5	0.6	3.0	1.6	98.78	100.71	97.9	99.3	97.0	100.5	158	12
Lamesa	-	18.0	-	4.11	-	8.3	-	0.6	-	3.1	-	101.69	-	97.8	-	99.5	-	1,892
TX	-	18.0	-	4.11	-	8.3	-	0.6	-	3.1	-	101.67	-	97.8	-	99.5	-	1,824
NM	-	18.0	-	4.11	-	8.0	-	0.6	-	3.8	-	101.97	-	97.2	-	99.0	-	68
El Paso	18.3	18.9	4.19	4.15	7.8	7.9	0.6	0.8	3.0	2.6	103.28	105.49	97.6	98.0	101.0	103.5	278	434
TX	18.0	18.6	4.22	4.17	9.0	8.7	1.0	1.2	2.6	3.5	102.15	104.51	97.5	97.0	100.0	101.5	110	158
NM	18.4	19.9	4.08	4.06	7.3	7.8	0.4	0.7	3.5	3.5	103.16	109.25	97.5	97.3	101.0	106.5	90	88
AZ	18.7	18.8	4.26	4.16	6.8	7.3	0.3	0.5	3.2	1.5	105.00	104.56	97.9	99.2	103.0	104.0	78	188
WESTERN																		
Bakersfield																		
CA	-	17.9	-	4.23	-	7.3	-	0.8	-	0.6	-	101.74	-	100.0	-	102.0	-	90

1/ Includes 32 certificates in 1979 and 40 certificates in 1980 for Florida.

Table 6. Percentage distribution of quantity index by specified frequencies, by states and United States, 1979 and 1980

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	
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	-	-	-	-	-	-	-	-	-	-	1.1	-	2.2	1.4	11.3	35.7	52.1	57.8	33.3	5.1	100.0	100.0
SC	-	-	-	-	-	0.3	-	0.3	-	-	0.2	-	2.1	3.5	10.1	34.0	42.0	48.1	45.6	13.8	100.0	100.0
GA	0.2	-	-	-	-	-	-	-	-	-	-	0.7	0.7	17.3	5.0	43.4	25.8	33.9	68.3	4.7	100.0	100.0
AL	-	-	-	-	-	-	0.1	-	0.4	0.2	2.7	9.3	10.0	41.0	34.8	42.9	40.9	6.3	11.1	0.3	100.0	100.0
MS	-	-	-	-	*	-	0.1	0.1	0.6	0.7	3.8	7.8	15.7	34.6	44.6	48.7	32.9	7.9	2.3	0.2	100.0	100.0
TN	-	-	-	-	-	-	0.1	0.2	0.2	0.4	1.6	18.2	12.7	53.6	50.4	25.5	31.2	2.1	3.8	-	100.0	100.0
MO	-	-	-	-	-	-	-	-	0.9	0.6	3.9	13.5	24.0	44.8	52.8	38.4	17.3	2.7	1.1	-	100.0	100.0
AR	-	-	-	-	-	-	0.2	0.1	0.5	1.9	4.0	19.3	18.3	48.8	43.0	25.7	32.3	4.1	1.7	0.1	100.0	100.0
LA	-	-	-	-	0.1	-	-	-	0.2	0.1	0.7	6.6	9.4	38.9	46.5	44.1	38.0	10.0	5.1	0.3	100.0	100.0
OK	-	-	-	-	-	-	-	-	-	-	0.2	0.2	3.2	11.8	41.4	53.1	49.7	29.4	5.5	5.5	100.0	100.0
TX	*	*	*	*	*	*	*	0.1	0.3	0.5	1.4	1.9	12.0	9.6	48.1	28.0	33.8	51.0	4.4	8.9	100.0	100.0
NM	-	-	-	-	-	-	-	-	-	-	0.8	-	8.9	-	33.8	8.3	45.2	41.6	11.3	50.1	100.0	100.0
AZ	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	2.6	11.7	38.5	45.7	58.9	41.5	100.0	100.0
Other	-	-	-	-	-	-	-	-	-	-	-	-	12.5	3.1	37.3	32.2	37.6	63.2	12.6	1.5	100.0	100.0
U. S.	*	*	*	*	*	*	0.1	0.1	0.3	0.6	2.0	6.7	12.2	25.6	44.5	34.7	34.6	27.6	6.3	4.7	100.0	100.0

* Less than 0.05 percent.

Table 7. Percentage distribution of quality index by specified frequencies, by states and United States, 1979 and 1980

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					
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	-	0.9	-	2.3	0.5	9.4	3.3	11.3	1.1	6.6	10.8	8.5	38.6	11.8	38.2	27.2	7.5	22.0	100.0	100.0
SC	-	0.9	0.2	2.1	3.8	10.0	8.2	12.3	8.0	7.6	20.8	10.0	32.3	14.0	22.3	24.0	4.4	19.1	100.0	100.0
GA	3.5	0.4	9.3	0.4	44.3	5.8	19.3	4.3	4.5	5.1	7.3	8.7	1.9	12.6	6.8	35.0	3.1	27.7	100.0	100.0
AL	-	0.2	-	0.1	0.6	0.7	0.7	0.8	0.8	1.7	1.5	2.3	4.5	5.8	67.4	53.9	24.5	34.5	100.0	100.0
MS	-	-	-	-	0.1	0.1	0.1	0.1	*	0.1	0.2	0.3	1.3	2.3	68.5	58.2	29.8	38.9	100.0	100.0
TN	-	-	-	-	-	0.1	0.2	0.2	0.1	0.1	0.4	0.7	3.3	4.3	77.0	72.6	19.0	22.0	100.0	100.0
MO	-	-	-	-	0.2	-	0.2	0.1	0.2	0.2	0.3	0.2	1.2	4.0	57.0	72.7	40.9	22.8	100.0	100.0
AR	-	-	-	-	-	-	*	*	*	0.2	0.2	0.3	0.8	3.6	51.4	55.9	47.6	40.0	100.0	100.0
LA	-	-	-	-	*	-	0.1	-	*	0.2	0.1	-	1.1	1.2	54.8	47.1	43.9	51.5	100.0	100.0
OK	-	-	-	-	-	-	-	-	0.1	-	0.1	-	1.2	0.6	71.9	62.6	26.7	36.8	100.0	100.0
TX	0.1	*	0.1	*	0.3	0.2	0.4	0.5	0.4	0.6	0.9	0.9	4.1	4.9	75.2	75.2	18.5	17.7	100.0	100.0
NM	-	-	-	-	-	-	-	-	-	-	0.8	1.2	10.5	13.1	83.1	78.6	5.6	7.1	100.0	100.0
AZ	-	-	-	-	-	-	-	-	-	-	-	-	2.6	2.1	97.4	41.5	-	56.4	100.0	100.0
Other	-	-	-	-	-	-	-	-	-	-	-	-	12.6	3.0	56.3	18.4	31.1	78.6	100.0	100.0
U. S.	0.1	0.1	0.2	0.1	1.2	0.5	0.8	0.7	0.5	0.7	1.1	1.0	3.6	4.2	67.2	63.8	25.3	28.9	100.0	100.0

* Less than 0.05 percent.

Table 8. Percentage distribution of grades by specified frequencies, by states and United States, 1979 and 1980

State	Grade																					
	Below grade 0.00-39.9		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 - over		Total	
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	-	1.4	2.2	15.1	0.5	6.6	4.3	8.5	7.0	7.0	18.3	10.8	28.4	20.1	23.7	26.8	12.4	2.8	3.2	0.9	100.0	100.0
SC	-	0.9	5.9	17.8	4.2	5.9	6.1	6.5	13.3	10.3	20.2	12.6	24.7	18.4	15.3	23.8	8.2	3.8	2.1	-	100.0	100.0
GA	5.0	0.4	51.5	7.6	10.5	1.8	8.6	7.9	6.0	11.6	6.4	18.7	4.5	33.4	4.2	17.8	3.1	0.4	0.2	0.4	100.0	100.0
AL	-	0.2	0.8	1.7	0.6	1.4	0.9	3.6	5.4	14.5	14.5	40.2	38.2	33.8	30.9	4.5	8.1	0.1	0.6	-	100.0	100.0
MS	-	-	0.3	0.2	0.3	0.4	1.1	2.5	5.7	11.4	18.4	32.9	41.8	43.9	30.7	8.4	1.7	0.3	*	-	100.0	100.0
TN	-	-	0.2	0.7	0.6	0.5	0.9	4.7	4.0	26.0	18.0	46.7	47.4	19.4	25.2	2.0	3.6	-	0.1	-	100.0	100.0
MO	-	-	0.6	0.5	0.3	0.2	1.5	4.7	4.5	19.8	26.3	42.8	47.8	29.5	17.9	2.5	1.1	-	-	-	100.0	100.0
AR	-	-	0.1	0.3	0.2	0.9	1.4	5.5	5.0	24.2	19.6	41.0	40.9	23.6	30.9	4.4	1.9	0.1	-	*	100.0	100.0
LA	-	-	0.3	0.1	0.1	0.2	0.3	1.0	2.0	10.6	12.3	35.5	43.0	41.6	38.5	10.7	3.5	0.3	-	-	100.0	100.0
OK	-	-	-	-	0.1	-	-	-	0.8	1.0	7.4	14.0	45.7	51.7	41.4	28.0	4.4	4.9	0.2	0.4	100.0	100.0
TX	0.1	0.1	0.9	1.0	0.5	0.7	1.2	1.4	3.9	3.1	18.4	11.6	44.7	36.0	26.5	40.7	3.7	5.3	0.1	0.1	100.0	100.0
NM	-	-	-	-	0.8	-	0.8	-	3.2	-	13.7	6.0	41.9	25.0	30.7	32.2	8.1	23.7	0.8	13.1	100.0	100.0
AZ	-	-	-	-	-	-	-	-	-	2.1	2.6	1.1	10.3	14.9	69.2	39.5	17.9	32.8	-	9.6	100.0	100.0
Other	-	-	-	-	-	-	-	-	-	3.1	18.8	7.7	37.2	23.1	31.4	63.0	12.6	3.1	-	-	100.0	100.0
U. S.	0.2	0.1	1.7	1.2	0.6	0.8	1.3	2.6	4.3	10.0	17.3	25.0	42.4	35.0	28.6	22.3	3.5	2.8	0.1	0.2	100.0	100.0

* Less than 0.05 percent.

Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1979 and 1980

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	
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	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	-	0.5	2.2	1.4	1.1	3.3	1.6	23.0	6.5	38.0	9.1	20.2	18.8	8.5	26.8	2.3	28.5	1.9	2.2	0.9	3.2	-	100.0	100.0
SC	-	-	0.6	3.5	1.7	12.6	2.3	22.3	6.8	22.6	10.8	17.0	20.5	12.6	20.8	7.0	28.5	1.8	7.6	0.6	0.4	-	100.0	100.0
GA	0.3	0.4	-	13.7	0.5	15.9	0.9	24.9	1.9	17.3	5.5	11.9	9.5	9.7	19.0	4.7	40.9	1.1	18.4	-	3.1	0.4	100.0	100.0
AL	0.6	4.7	3.2	28.2	3.3	25.3	5.8	24.4	9.7	10.2	15.8	4.7	20.8	1.8	19.3	0.3	20.1	0.3	1.3	0.1	0.1	-	100.0	100.0
MS	1.8	4.2	5.2	21.2	6.3	20.1	9.4	23.3	14.3	19.0	20.7	8.3	21.7	3.0	13.9	0.6	6.6	0.3	0.1	-	*	-	100.0	100.0
TN	0.4	5.4	1.3	40.7	2.1	27.0	5.4	17.6	12.4	6.0	19.8	2.4	26.9	0.8	17.9	-	12.5	0.1	1.3	-	-	-	100.0	100.0
MO	1.4	5.9	4.6	29.5	7.0	26.3	17.6	24.3	21.9	10.3	20.3	3.2	16.1	0.4	7.4	0.1	3.7	-	-	-	-	-	100.0	100.0
AR	1.3	10.5	4.6	37.6	5.9	22.6	11.6	14.3	15.8	8.7	19.7	3.9	18.9	1.8	14.9	0.5	7.1	0.1	0.2	*	-	-	100.0	100.0
LA	0.3	3.9	2.5	25.0	3.5	18.9	7.7	20.8	16.5	16.2	24.9	9.2	22.7	4.5	13.4	1.3	8.2	0.2	0.3	-	-	-	100.0	100.0
OK	0.1	-	0.5	4.5	3.0	14.3	12.1	22.1	25.5	22.2	30.3	13.2	18.4	11.2	6.2	6.6	3.4	5.3	0.4	0.2	0.1	0.4	100.0	100.0
TX	0.9	1.4	3.1	5.8	6.9	5.6	15.5	8.3	24.6	13.1	24.1	21.1	15.8	26.2	6.9	13.5	2.1	4.9	0.1	0.1	-	-	100.0	100.0
NM	0.8	-	3.2	-	5.6	1.2	10.5	1.2	18.5	8.3	21.0	7.1	22.7	27.5	9.7	4.8	6.4	25.0	1.6	17.8	-	7.1	100.0	100.0
AZ	-	-	-	-	-	1.1	-	2.1	-	6.4	10.3	11.7	10.3	21.3	64.0	17.0	12.8	25.5	2.6	7.5	-	7.4	100.0	100.0
Other	-	-	-	-	-	3.1	6.3	6.2	6.3	18.5	18.7	39.9	6.3	27.7	31.0	4.6	18.8	-	12.6	-	-	-	100.0	100.0
U. S.	0.9	3.5	3.3	17.1	5.7	14.3	12.2	15.5	19.6	14.1	22.2	13.1	18.2	13.1	10.7	6.4	6.3	2.6	0.8	0.2	0.1	0.1	100.0	100.0

* Less than 0.05 percent.

Table 10. Percentage distribution of ammonia by specified frequencies, by states and United States, 1979 and 1980

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	
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	-	-	-	-	-	-	0.5	-	0.5	-	1.6	-	11.8	0.5	24.2	-	35.6	2.8	25.8	96.7	100.0	100.0
SC	-	-	-	-	-	-	0.2	-	0.6	-	0.8	-	4.2	-	15.0	0.3	30.0	2.9	49.2	96.8	100.0	100.0
GA	-	-	-	-	-	-	0.5	0.4	1.4	-	1.6	0.4	8.5	1.1	22.6	2.2	31.9	8.7	33.5	87.2	100.0	100.0
AL	0.2	-	0.1	-	0.6	0.1	4.1	0.1	17.2	-	27.7	1.0	22.0	5.5	15.0	19.9	8.3	34.8	4.8	38.6	100.0	100.0
MS	*	-	*	-	0.2	-	2.1	-	7.9	0.1	23.8	1.2	36.5	7.5	23.2	28.7	5.2	42.0	1.1	20.5	100.0	100.0
TN	-	-	0.1	-	1.3	-	8.8	0.1	39.6	0.1	36.1	1.6	11.5	13.0	2.2	37.8	0.4	40.1	-	7.3	100.0	100.0
MO	-	-	-	-	0.2	-	2.0	-	9.6	0.2	28.6	0.5	38.8	8.1	18.0	29.0	2.6	43.2	0.2	19.0	100.0	100.0
AR	-	-	*	-	0.2	-	1.2	*	8.1	0.7	37.7	2.3	37.0	13.7	12.8	35.9	2.6	34.4	0.4	13.0	100.0	100.0
LA	*	-	*	-	0.2	0.1	1.5	0.2	4.9	1.0	15.8	2.4	25.4	11.0	31.1	20.4	16.3	32.2	4.8	32.7	100.0	100.0
OK	-	-	0.1	-	-	-	-	0.4	0.2	1.0	1.0	2.5	4.8	4.1	13.0	8.3	31.2	26.7	49.7	57.0	100.0	100.0
TX	*	*	0.1	0.1	0.1	0.1	0.2	0.1	0.8	0.4	3.5	1.7	10.7	5.9	24.9	17.2	32.1	33.4	27.6	41.1	100.0	100.0
NM	-	-	0.8	1.2	-	-	-	-	-	2.4	0.8	-	4.0	4.8	16.1	11.9	41.2	34.5	37.1	45.2	100.0	100.0
AZ	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	8.5	12.8	29.8	87.2	59.6	100.0	100.0
Other	-	-	-	-	-	-	18.8	-	25.0	-	37.3	1.5	6.3	9.2	6.3	6.2	6.3	15.4	-	67.7	100.0	100.0
U. S.	*	*	0.1	*	0.1	*	1.2	0.1	4.8	0.4	13.0	1.6	18.9	7.5	21.8	22.1	21.4	34.5	18.7	33.8	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, 1979

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	73.1	26.4	0.5	-	-	2.1	11.8	28.0	31.2	22.6	3.8	-	-	0.5	100.0
SC	77.4	22.0	0.6	-	-	4.0	17.1	30.4	25.9	15.0	3.8	2.1	1.1	0.6	100.0
GA	79.5	20.5	-	-	-	4.8	21.8	27.5	25.4	17.6	2.4	0.2	0.3	-	100.0
AL	68.3	31.5	0.2	-	-	0.9	8.2	26.5	32.7	26.6	4.2	0.6	0.1	0.2	100.0
MS	66.8	33.1	0.1	-	*	1.1	8.4	26.4	30.9	28.2	4.2	0.5	0.2	0.1	100.0
TN	54.9	45.0	0.1	-	-	0.4	6.5	17.9	30.1	36.1	6.7	1.8	0.4	0.1	100.0
MO	57.4	42.6	-	-	-	0.3	2.0	15.2	39.9	37.9	4.4	0.3	-	-	100.0
AR	67.6	32.4	-	-	-	1.3	8.2	24.8	33.3	27.9	3.9	0.5	0.1	-	100.0
LA	71.1	28.7	0.2	-	-	3.0	14.2	26.3	27.6	24.0	3.7	0.8	0.2	0.2	100.0
OK	95.0	5.0	-	0.3	0.7	48.6	26.5	13.3	5.6	4.1	0.8	0.1	-	-	100.0
TX	89.7	10.2	0.1	0.2	10.7	44.1	14.2	11.6	8.9	7.6	1.8	0.6	0.2	0.1	100.0
NM	99.2	0.8	-	-	29.8	58.2	5.6	3.2	2.4	0.8	-	-	-	-	100.0
AZ	100.0	-	-	-	69.2	30.8	-	-	-	-	-	-	-	-	100.0
Other	62.5	37.5	-	-	-	-	6.3	25.0	31.2	31.2	6.3	-	-	-	100.0
U. S.	79.9	20.0	0.1	0.1	5.4	24.9	12.8	17.9	18.8	16.4	2.8	0.6	0.2	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, 1980

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	51.6	48.4	-	-	-	3.2	6.6	15.0	26.8	34.3	13.2	0.9	-	-	100.0
SC	60.0	40.0	-	-	-	2.9	15.5	19.4	22.2	29.7	8.8	1.5	-	-	100.0
GA	66.4	33.6	-	-	-	4.0	15.2	25.5	21.7	22.7	10.5	-	0.4	-	100.0
AL	72.2	27.8	-	-	-	5.4	17.4	27.0	22.4	22.9	4.7	0.2	-	-	100.0
MS	67.2	32.7	0.1	0.1	0.1	7.9	13.7	23.3	22.1	26.2	5.7	0.7	0.1	0.1	100.0
TN	48.3	51.3	0.4	-	-	1.8	6.9	17.1	22.5	33.9	14.1	3.1	0.2	0.4	100.0
MO	38.4	61.5	0.1	-	-	1.4	6.4	12.3	18.3	32.0	22.0	6.8	0.7	0.1	100.0
AR	50.4	49.4	0.2	-	*	2.5	8.9	17.0	22.0	34.0	12.8	2.0	0.6	0.2	100.0
LA	71.8	28.1	0.1	0.1	-	16.0	16.7	19.8	19.2	22.7	5.0	0.3	0.1	0.1	100.0
OK	99.2	0.8	-	-	12.4	44.8	26.7	11.0	4.3	0.8	-	-	-	-	100.0
TX	90.8	8.8	0.4	*	15.9	52.0	12.3	6.4	4.2	5.5	2.3	0.7	0.3	0.4	100.0
NM	100.0	-	-	1.2	20.3	58.2	13.1	6.0	1.2	-	-	-	-	-	100.0
AZ	100.0	-	-	2.1	37.2	55.4	5.3	-	-	-	-	-	-	-	100.0
Other	86.1	13.9	-	1.5	16.9	52.3	1.5	7.7	6.2	9.3	4.6	-	-	-	100.0
U. S.	74.5	25.3	0.2	0.1	7.3	26.8	12.6	14.0	13.7	17.8	6.0	1.2	0.3	0.2	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, 1979

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	20.1	79.4	0.5	-	4.4	3.3	12.4	27.9	42.4	5.9	3.2	-	-	0.5	100.0
SC	9.9	88.6	1.5	-	2.3	3.4	4.2	18.0	43.8	16.9	6.5	3.2	0.2	1.5	100.0
GA	7.3	68.3	24.4	1.0	3.4	1.9	1.0	2.8	5.3	8.6	13.8	22.1	15.7	24.4	100.0
AL	78.8	21.1	0.1	3.8	37.8	25.4	11.8	14.3	4.7	1.0	0.6	0.4	0.1	0.1	100.0
MS	98.6	1.4	-	28.1	59.7	9.5	1.3	1.1	0.2	*	0.1	*	*	-	100.0
TN	98.0	2.0	-	6.5	78.7	11.3	1.5	0.8	0.8	0.4	-	-	-	-	100.0
MO	98.4	1.6	-	76.7	14.6	5.6	1.5	0.6	0.5	0.3	-	0.2	-	-	100.0
AR	99.3	0.7	-	45.5	50.7	2.5	0.6	0.3	0.2	0.2	-	-	-	-	100.0
LA	96.4	3.6	-	11.4	62.2	18.5	4.3	2.9	0.6	0.1	*	-	-	-	100.0
OK	99.7	0.3	-	51.5	45.1	2.4	0.7	0.1	0.1	0.1	-	-	-	-	100.0
TX	94.6	5.2	0.2	60.4	26.6	5.5	2.1	2.6	1.7	0.5	0.2	0.1	0.1	0.2	100.0
NM	98.4	1.6	-	81.5	14.5	1.6	0.8	1.6	-	-	-	-	-	-	100.0
AZ	100.0	-	-	92.3	7.7	-	-	-	-	-	-	-	-	-	100.0
Other	68.7	31.3	-	-	12.5	31.3	24.9	18.8	12.5	-	-	-	-	-	100.0
U. S.	92.0	7.4	0.6	43.9	38.2	7.5	2.4	2.8	2.2	0.8	0.6	0.6	0.4	0.6	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, 1980

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	39.9	55.9	4.2	7.5	19.7	8.5	4.2	9.8	17.4	9.9	9.4	8.0	1.4	4.2	100.0
SC	31.4	64.2	4.4	4.7	17.0	4.7	5.0	10.9	21.4	11.7	10.3	7.0	2.9	4.4	100.0
GA	47.9	49.9	2.2	3.2	26.7	8.6	9.4	17.3	16.6	7.6	4.0	4.0	0.4	2.2	100.0
AL	84.7	15.0	0.3	20.4	40.4	17.3	6.6	6.5	5.2	2.1	0.6	0.4	0.2	0.3	100.0
MS	97.6	2.4	-	50.3	38.6	6.7	2.0	1.8	0.3	0.2	0.1	-	*	-	100.0
TN	94.5	5.5	-	8.1	61.0	19.3	6.1	4.3	0.9	-	0.2	-	0.1	-	100.0
MO	99.5	0.5	-	66.9	30.6	1.6	0.4	0.1	0.1	0.2	0.1	-	-	-	100.0
AR	98.5	1.5	-	42.5	48.5	5.8	1.7	1.3	0.2	*	*	-	-	-	100.0
LA	98.6	1.4	-	57.6	36.4	3.8	0.8	0.8	0.5	0.1	-	-	-	-	100.0
OK	100.0	-	-	50.0	49.2	0.8	-	-	-	-	-	-	-	-	100.0
TX	94.2	5.7	0.1	26.1	56.8	7.3	4.0	3.1	1.8	0.5	0.2	0.1	*	0.1	100.0
NM	100.0	-	-	28.6	59.4	7.2	4.8	-	-	-	-	-	-	-	100.0
AZ	100.0	-	-	55.3	40.4	3.2	1.1	-	-	-	-	-	-	-	100.0
Other	93.9	6.1	-	-	76.9	10.8	6.2	1.5	4.6	-	-	-	-	-	100.0
U. S.	93.2	6.6	0.2	35.2	47.5	7.3	3.2	2.9	2.0	0.8	0.5	0.3	0.1	0.2	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, 1979

State	Foreign matter													
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.0 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	65.1	34.9	-	29.6	35.5	25.3	7.5	1.6	0.5	-	-	-	-	100.0
SC	73.2	26.8	-	37.7	35.5	23.0	3.2	0.6	-	-	-	-	-	100.0
GA	59.4	40.6	-	18.2	41.2	29.9	9.5	1.0	0.2	-	-	-	-	100.0
AL	53.2	46.8	-	21.9	31.3	30.3	11.8	3.1	1.3	-	0.1	0.2	-	100.0
MS	44.2	55.7	0.1	7.7	36.5	42.6	8.5	2.9	1.1	0.4	0.1	0.1	0.1	100.0
TN	39.3	60.5	0.2	11.1	28.2	42.7	11.5	4.3	1.3	0.6	0.1	-	0.2	100.0
MO	69.8	29.9	0.3	28.3	41.5	24.2	4.3	0.5	0.2	0.3	0.2	0.2	0.3	100.0
AR	71.0	29.0	*	30.9	40.1	21.9	5.4	0.9	0.4	0.3	0.1	-	*	100.0
LA	64.9	35.1	-	21.9	43.0	28.3	5.0	1.4	0.4	*	-	-	-	100.0
OK	28.3	71.6	0.1	6.5	21.8	40.8	19.6	7.7	2.3	1.0	0.1	0.1	0.1	100.0
TX	23.5	76.1	0.4	5.5	18.0	34.6	21.9	10.2	6.1	2.2	0.8	0.3	0.4	100.0
NM	6.4	92.0	1.6	0.8	5.6	25.9	26.6	18.5	9.7	8.9	2.4	-	1.6	100.0
AZ	-	100.0	-	-	-	20.5	43.6	12.8	15.4	5.1	2.6	-	-	100.0
Other	93.7	6.3	-	56.2	37.5	-	6.3	-	-	-	-	-	-	100.0
U. S.	38.7	61.1	0.2	11.6	27.1	34.0	15.3	6.4	3.5	1.3	0.4	0.2	0.2	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, 1980

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	71.9	28.1	-	29.5	42.4	23.4	3.3	0.9	0.5	-	-	-	-	100.0
SC	60.1	39.6	0.3	27.3	32.8	30.2	7.3	1.8	0.3	-	-	-	0.3	100.0
GA	71.0	29.0	-	32.4	38.6	23.2	4.0	0.7	0.7	-	0.4	-	-	100.0
AL	53.8	45.9	0.3	27.1	26.7	28.6	10.7	4.0	1.6	0.3	0.6	0.1	0.3	100.0
MS	56.0	43.9	0.1	16.0	40.0	31.5	6.7	3.0	1.4	0.7	0.3	0.3	0.1	100.0
TN	54.9	44.7	0.4	28.5	26.4	20.4	12.0	6.6	3.7	1.3	0.7	-	0.4	100.0
MO	68.2	31.7	0.1	29.8	38.4	22.0	7.2	1.7	0.6	0.2	-	-	0.1	100.0
AR	75.2	24.6	0.2	45.2	30.0	15.6	5.2	1.5	1.5	0.4	0.3	0.1	0.2	100.0
LA	67.0	33.0	-	20.9	46.1	23.9	6.6	1.6	0.5	0.3	0.1	-	-	100.0
OK	36.9	63.1	-	11.5	25.4	39.1	15.7	5.8	1.9	0.2	0.4	-	-	100.0
TX	22.0	77.5	0.5	6.5	15.5	31.4	22.0	12.5	8.1	2.2	0.8	0.5	0.5	100.0
NM	7.2	90.4	2.4	3.6	3.6	20.3	30.8	10.7	15.5	8.3	2.4	2.4	2.4	100.0
AZ	56.3	43.7	-	28.7	27.6	20.2	12.8	2.1	6.4	1.1	1.1	-	-	100.0
Other	93.8	6.2	-	52.3	41.5	6.2	-	-	-	-	-	-	-	100.0
U. S.	45.2	54.5	0.3	18.0	27.2	27.9	13.6	6.8	4.2	1.2	0.5	0.3	0.3	100.0

Table 17. Number of cottonseed samples by specified groups, by qualities, and number reduced in grade for specified causes, by states and United States, 1979 and 1980

State	Quality						Total Samples graded		Reduced due to excess					
	Prime		Below prime and off quality		Below grade				Moisture		Free fatty acids		Foreign matter	
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
NC	28	94	344	328	-	4	372	426	100	206	298	256	130	120
SC	42	130	906	546	-	6	948	682	214	272	854	468	254	272
GA	36	154	1,082	398	40	2	1,158	554	238	186	1,072	288	470	160
AL	532	620	1,636	1,174	-	4	2,168	1,798	684	500	460	278	1,014	830
MS	2,784	2,750	6,550	4,312	-	-	9,334	7,062	3,096	2,316	138	176	5,206	3,108
TN	310	368	1,324	1,304	-	-	1,634	1,672	738	864	32	94	992	752
MO	530	376	762	1,272	-	-	1,292	1,648	550	1,016	20	10	388	524
AR	2,418	1,694	2,664	2,540	-	-	5,082	4,234	1,650	2,098	32	72	1,478	1,052
LA	1,770	1,502	2,276	1,418	-	-	4,046	2,920	1,172	824	148	40	1,422	960
OK	824	356	2,258	612	-	-	3,082	968	152	8	6	-	2,206	610
TX	5,056	2,796	22,238	12,974	24	4	27,318	15,774	2,798	1,442	1,480	930	20,914	12,292
NM	14	12	234	156	-	-	248	168	2	-	4	-	232	156
AZ	-	106	78	82	-	-	78	188	-	-	-	-	78	82
Other	10	102	22	28	-	-	32	130	12	18	10	8	2	8
U. S.	14,354	11,060	42,374	27,144	64	20	56,792	38,224	11,406	9,750	4,554	2,620	34,786	20,926