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# COTTONSEED QUALITY

## CROP OF 1981

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**Agricultural Marketing Service    Cotton Division**  
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Cottonseed Quality - 1981 Crop

Cottonseed from the 1981 crop was higher in grade than a year earlier, according to the Cotton Division, Agricultural Marketing Service, USDA. The average grade was 96.0 compared to 95.5 in 1980 and 97.0 in 1979. The quality index was 98.1 against 98.0 last year and 97.7 two years ago. Moisture content at 10.1 was the smallest percentage since 1963. In 1967, moisture content was also 10.1. The percentage of free fatty acid in cottonseed was down slightly from last year. Foreign matter content at 2.0 was the highest percentage since comparable records began in 1944. Average oil content of seed from the 1981 crop was slightly higher than the previous year while ammonia content was lower.

The 1981 cottonseed production at 6.40 million tons exceeded 1980 production of 4.47 million tons by 43 percent.

Data from grade certificates covering 50,636 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 table 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 quality factors, indexes and grades,  
1955-1981

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	43,838
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	$\frac{1}{1}$	11.9	1.6	1.6	97.67	95.7	94.0	71,210
1973	18.0	3.94	$\frac{1}{1}$	11.0	1.3	1.4	100.81	96.7	98.0	62,504
1974	17.7	3.82	$\frac{1}{1}$	11.0	1.6	1.6	98.42	96.5	95.5	61,114
1975	18.0	3.75	$\frac{1}{1}$	10.6	1.4	1.6	99.50	97.0	96.5	44,250
1976	17.7	3.88	$\frac{1}{1}$	10.6	0.7	1.8	98.93	98.4	97.5	52,048
1977	17.5	3.99	$\frac{1}{1}$	10.8	1.8	1.4	98.85	95.6	94.5	61,466
1978	17.4	4.08	$\frac{1}{1}$	10.5	0.9	1.5	98.97	98.5	98.0	50,418
1979	17.6	3.92	$\frac{1}{1}$	10.3	1.0	1.7	98.92	97.7	97.0	56,792
1980	16.9	4.08	$\frac{1}{1}$	10.4	0.9	1.7	97.17	98.0	95.5	38,224
1981	17.2	3.97	$\frac{1}{1}$	10.1	0.8	2.0	97.69	98.1	96.0	50,636

$\frac{1}{1}$  The linters factor was eliminated from official grade standards effective September 4, 1972.

Standards for Grades of Cottonseed Sold or Offered for Sale  
for Crushing Purposes Within the United States

Determination of grade. The grade of cottonseed shall be determined from the analysis of samples, and it shall be the result, stated in the nearest whole or half number, obtained by multiplying a quantity index by a quality index and dividing the result by 100. The quantity index and the quality index shall be determined as hereinafter provided.

- (a) The basis grade of cottonseed shall be grade 100.
- (b) High grades of cottonseed shall be those grades above 100.
- (c) Low grades of cottonseed shall be those grades below 100.

Determination of quantity index. The quantity index of cottonseed shall be determined as follows:

- (a) For upland cottonseed the quantity index shall equal 4 times the percentage of oil plus 6 times the percentage of ammonia plus 5.
- (b) For American Pima cottonseed the quantity index shall equal 4 times the percentage of oil plus 6 times the percentage of ammonia minus 10.

Determination of quality index. The quality index of cottonseed shall be an index of purity and soundness, and shall be determined as follows:

- (a) Prime quality cottonseed. Cottonseed that by analysis contain not more than 1.0 percent of foreign matter, not more than 12.0 percent of moisture, and not more than 1.8 percent free fatty acids in the oil in the seed, shall be known as prime quality cottonseed and shall have a quality index of 100.
- (b) Below prime quality cottonseed. The quality index of cottonseed that by analysis contain foreign matter, moisture, or free fatty acids in the oil in the seed, in excess of the percentage prescribed in (a) above shall be found by reducing the quality index of prime quality cottonseed as follows:
  - (1) Four-tenths of a unit for each 0.1 percent of free fatty acids in the oil in the seed in excess of 1.8 percent.
  - (2) One-tenth of a unit for each 0.1 percent of foreign matter in excess of 1.0 percent.
  - (3) One-tenth of a unit for each 0.1 percent of moisture in excess of 12.0 percent.
- (c) Off quality cottonseed. Cottonseed that has been treated by either mechanical or chemical process other than the usual cleaning, drying, and ginning (except sterilization required by the United States Department of Agriculture for quarantine purposes) or that are fermented or hot, or that upon analysis are found to contain 12.5 percent or more of free fatty acids in the oil in the seed, or more than 10.0 percent of foreign matter, or more than 20.0 percent of moisture, or more than 25.0 percent of moisture and foreign matter combined, shall be designated as "off quality cottonseed".
- (d) Below grade cottonseed. Cottonseed the grade of which when calculated according to the foregoing is below grade 40.0 shall be designated as "below grade cottonseed" and a numerical grade shall not be indicated.

Table 2. Examples of the computation of cottonseed quality and quantity indexes and grades, by qualities in accordance with the Official Standards of the United States 1/

Ex-ample 2/	Quality Factors										Quantity Factors					Grade
	FFA 3/		FM 4/		H <sub>2</sub> O 5/		Total reduc- tions 6/	Qual- ity Index	Oil		NH <sub>3</sub> 8/		Sum of pro- ducts	Adjust- ment factors	Quan- tity Index	
	Total	Re- duc-tion	Total	Re- duc-tion	Total	Re- duc-tion			Total	Product 7/	Total	Product 7/				
	Pct.	Units	Pct.	Units	Pct.	Units	Units	Pct.	Pct.	Pct.	Pct.	Units	Pct.	Units		
<u>PRIME QUALITY SEED</u>																
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	97.60	+5	102.60	
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	
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	
<u>BELOW PRIME QUALITY SEED</u>																
4	1.9	0.4	1.0	0.0	12.0	0.0	0.4	99.6	18.5	74.0	3.50	21.00	95.00	+5	100.00	
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	
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	
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	
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	
<u>OFF QUALITY SEED</u>																
Treated (other than usual), Fermented, Hot																
9	12.5	42.8	0.7	0.0	12.0	0.0	42.8	57.2	20.1	80.4	3.67	22.02	102.42	+5	107.42	
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	
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	
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	
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	
<u>BELOW GRADE SEED</u>																
14	10.5	34.8	20.8	19.8	15.6	3.6	58.2	41.8	17.0	68.0	3.41	20.46	88.46	+5	93.46	
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	

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.

9/ Below grade 40. No numerical grade is indicated.

Table 3. Cottonseed: Quality factors, indexes and grades, by states and United States, 1980 and 1981

State	Cottonseed analysis												Average index				Average grade	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1980	1981		
	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981						
	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>					
NC	17.3	19.3	4.41	4.09	12.1	9.8	4.1	0.5	0.9	1.1	100.75	106.91	87.7	99.5	89.0	106.5		
SC	17.3	18.8	4.45	4.05	11.7	9.5	4.5	0.8	1.1	1.1	100.95	104.62	86.7	99.4	88.0	104.5		
GA	16.9	18.1	4.33	4.20	11.6	10.5	3.0	1.5	0.9	1.2	98.72	102.52	92.5	98.1	91.5	101.0		
AL	16.3	17.4	4.10	4.05	11.2	11.2	1.3	1.0	1.3	1.4	94.60	99.03	97.5	98.4	92.5	97.5		
MS	16.5	16.3	4.03	4.08	11.4	11.8	0.6	1.1	1.3	1.4	95.08	94.37	99.0	98.3	94.5	93.0		
TN	16.0	17.2	3.98	3.75	12.3	11.6	0.9	0.6	1.5	1.6	92.82	95.99	98.1	98.6	91.5	95.0		
MO	16.2	16.3	4.03	3.74	12.9	12.0	0.5	0.5	1.0	1.0	93.73	92.38	98.3	98.9	92.5	91.5		
AR	16.0	16.1	3.98	3.89	12.2	12.0	0.6	0.8	1.0	1.0	92.88	92.71	98.7	98.9	92.0	92.0		
LA	16.5	16.2	4.05	4.02	11.0	12.1	0.5	1.5	1.0	1.2	95.17	94.00	99.3	97.4	95.0	92.0		
OK	17.3	16.9	4.15	4.09	8.7	9.4	0.5	0.6	1.6	2.8	98.87	97.18	99.3	98.1	98.5	96.0		
TX	17.6	17.9	4.10	3.94	8.8	8.5	0.8	0.7	2.3	2.7	100.11	100.36	98.0	97.7	98.5	98.5		
NM	19.0	18.2	4.09	3.95	8.0	8.1	0.6	0.4	3.4	2.5	105.69	101.64	97.4	98.5	103.0	100.5		
AZ	18.8	18.5	4.16	4.16	7.3	7.2	0.5	0.4	1.5	1.6	104.56	103.98	99.2	99.2	104.0	103.5		
Other	17.7	17.5	4.15	3.76	8.7	11.3	1.0	1.4	0.6	1.0	100.61	96.97	99.5	98.2	100.5	95.5		
U. S.	16.9	17.2	4.08	3.97	10.4	10.1	0.9	0.8	1.7	2.0	97.17	97.69	98.0	98.1	95.5	96.0		

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1980 and 1981

NORTH CAROLINA

Month	Oil		Cottonseed analysis						Average index				Average grade		Samples			
	1980	1981	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Quantity		Quality		1980	1981	No.	No.
											1980	1981	1980	1981				
Aug.	19.7	-	4.37	-	9.6	-	1.7	-	0.4	-	112.50	-	100.0	-	112.5	-	2	-
Sept.	17.2	18.5	4.45	4.17	11.2	12.9	0.6	0.6	0.7	0.7	100.37	104.08	99.6	99.1	100.0	102.5	68	6
Oct.	17.3	19.7	4.41	4.14	12.2	9.3	3.5	0.5	0.7	0.8	100.63	108.82	90.8	99.7	91.5	108.5	174	194
Nov.	17.2	19.2	4.40	4.04	12.8	10.0	6.1	0.4	1.1	1.2	100.47	105.94	80.9	99.5	81.5	105.5	114	178
Dec.	17.4	19.2	4.43	4.08	12.1	9.8	6.2	0.5	1.4	1.6	100.81	106.33	77.8	99.2	79.5	106.0	54	88
Jan.	17.4	18.6	4.37	4.01	11.6	10.4	6.0	0.5	2.3	1.4	101.92	103.13	64.6	99.4	78.5	103.0	6	20
Feb.	19.0	18.4	4.22	4.02	9.1	10.6	1.9	0.8	0.9	1.1	106.13	102.83	99.0	99.7	105.0	103.0	4	12
Mar. and later	19.2	18.9	4.37	4.12	9.1	9.2	2.6	1.1	0.4	0.4	107.00	105.83	96.9	99.8	103.0	106.0	4	6
Season	17.3	19.3	4.41	4.09	12.1	9.8	4.1	0.5	0.9	1.1	100.75	106.81	87.7	99.5	89.0	106.5	426	504

SOUTH CAROLINA

Aug.	20.2	-	4.07	-	9.6	-	3.5	-	0.4	-	108.75	-	93.7	-	101.5	-	2	-
Sept.	17.2	19.5	4.45	4.08	10.9	10.5	0.8	1.3	0.6	0.7	100.96	107.63	98.9	98.7	100.5	106.5	106	72
Oct.	17.3	19.3	4.45	4.09	12.0	9.0	3.0	0.7	0.9	0.8	101.01	107.05	93.5	99.8	94.5	107.0	302	514
Nov.	17.0	18.4	4.45	4.00	12.8	10.2	7.3	0.7	1.2	1.1	99.37	102.71	76.9	99.6	75.0	102.5	140	294
Dec.	17.4	17.7	4.50	4.01	10.8	9.6	8.7	0.8	1.6	2.1	102.32	99.78	65.9	98.5	72.5	98.5	74	126
Jan.	17.7	18.1	4.41	4.01	10.9	9.4	6.5	0.9	1.5	1.3	102.34	101.04	79.1	99.5	81.0	101.0	22	48
Feb.	17.8	18.5	4.45	4.01	10.5	9.9	6.4	1.2	1.5	1.0	103.34	103.21	80.1	99.4	83.5	103.0	28	36
Mar. and later	16.8	18.3	4.52	4.04	10.8	9.6	6.9	0.9	1.4	2.6	99.06	102.60	77.8	98.2	75.5	101.0	8	34
Season	17.3	18.8	4.45	4.05	11.7	9.5	4.5	0.8	1.1	1.1	100.95	104.62	86.7	99.4	88.0	104.5	682	1,124

GEORGIA

Sept.	16.7	17.2	4.38	4.37	11.1	10.5	1.0	1.2	0.7	0.4	98.10	99.78	99.2	99.7	97.5	100.0	154	20
Oct.	16.9	18.3	4.32	4.25	12.0	9.5	2.5	1.4	0.7	0.7	98.33	104.15	95.0	98.6	93.5	102.5	208	72
Nov.	17.1	18.1	4.31	4.20	11.8	11.3	5.3	1.3	1.0	1.3	99.59	102.57	83.6	98.6	84.0	101.5	114	92
Dec.	17.0	17.8	4.26	4.12	11.3	10.3	4.8	1.8	1.7	1.8	98.57	101.33	84.7	96.4	84.0	98.0	60	46
Jan.	18.0	18.5	4.42	4.04	10.6	10.2	5.1	1.3	1.3	1.8	103.58	102.90	87.7	98.1	91.0	101.0	12	10
Feb.	20.0	18.0	4.45	4.15	10.6	10.6	4.3	2.6	1.5	1.3	109.38	101.50	89.0	96.6	100.0	98.5	4	4
Mar. and later	16.2	17.9	4.07	4.02	10.6	11.9	3.5	2.6	4.8	1.9	92.50	100.58	87.5	93.0	82.5	94.5	2	6
Season	16.9	18.1	4.33	4.20	11.6	10.5	3.0	1.5	0.9	1.2	98.72	102.52	92.5	98.1	91.5	101.0	554	250

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1980 and 1981 (Continued)

ALABAMA

Month	Cottonseed analysis										Average Index		Average grade		Samples			
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1980		1981	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1980	1981	1980	1981	No.	No.	1980	1981
Sept.	16.0	17.1	4.05	4.09	10.9	11.8	0.7	1.3	1.0	1.1	93.50	97.91	99.0	97.7	92.5	95.5	298	188
Oct.	16.4	17.7	4.12	4.08	11.1	10.8	0.7	0.8	1.1	1.1	95.05	100.36	99.2	99.0	94.5	99.5	816	966
Nov.	16.2	17.3	4.10	4.01	11.8	11.8	1.7	1.0	1.7	1.8	94.45	98.13	97.0	98.1	92.0	96.5	418	612
Dec.	16.3	17.0	4.10	3.98	11.8	10.9	3.0	1.3	1.8	1.9	94.86	96.78	92.7	97.8	88.0	95.0	146	230
Jan.	16.2	17.0	4.11	4.08	11.3	11.3	4.2	1.7	2.1	1.2	94.02	97.02	88.0	96.6	82.0	94.5	58	26
Feb.	16.0	17.6	4.13	4.08	11.1	10.4	3.5	1.0	3.0	1.4	93.23	99.81	80.2	99.1	80.5	99.0	24	36
Mar. and later	16.8	17.6	4.01	4.07	9.4	9.9	1.4	2.2	0.6	2.2	95.87	99.58	99.6	94.3	96.0	93.0	38	32
Season	16.3	17.4	4.10	4.05	11.2	11.2	1.3	1.0	1.3	1.4	94.60	99.03	97.5	98.4	92.5	97.5	1,798	2,090

MISSISSIPPI

Aug.	18.2	-	3.92	-	9.6	-	1.0	-	1.0	-	100.83	-	99.8	-	101.0	-	6	-
Sept.	16.2	16.1	4.01	4.22	11.5	11.2	0.5	0.7	0.8	0.8	93.66	94.76	99.1	99.5	93.5	94.5	902	1,758
Oct.	16.7	16.4	4.05	4.09	11.1	11.8	0.4	0.9	1.0	1.1	95.94	94.87	99.3	98.9	95.5	94.0	4,102	4,474
Nov.	16.3	16.2	4.01	3.98	11.8	12.4	0.7	1.4	1.8	2.0	94.09	93.43	98.5	97.0	93.0	91.0	1,610	2,104
Dec.	16.0	16.0	3.97	3.95	12.3	11.8	1.4	2.2	2.7	2.7	92.87	92.42	97.0	94.9	90.0	87.5	336	372
Jan.	16.2	16.4	3.98	3.94	11.9	11.2	2.2	2.4	3.2	4.1	93.45	92.93	95.5	92.4	89.5	86.5	50	46
Feb.	16.6	16.4	4.04	3.93	11.5	12.1	2.2	2.5	3.2	2.4	95.55	93.44	92.8	93.1	89.5	88.0	32	48
Mar. and later	16.0	16.2	4.07	4.06	11.1	11.1	1.6	1.7	2.2	1.9	92.81	92.77	97.4	96.9	89.5	90.5	24	84
Season	16.5	16.3	4.03	4.08	11.4	11.8	0.6	1.1	1.3	1.4	95.08	94.37	99.0	98.3	94.5	93.0	7,062	8,886

TENNESSEE

Sept.	15.9	17.1	3.96	3.86	12.0	11.4	0.6	0.7	0.6	0.6	92.15	96.38	99.0	99.4	91.5	96.0	320	120
Oct.	16.1	17.4	3.95	3.78	12.9	11.9	0.6	0.5	1.0	1.0	92.92	97.24	98.5	99.0	92.0	96.5	794	862
Nov.	16.0	17.1	4.02	3.74	11.7	11.3	1.1	0.5	2.6	2.1	93.07	95.74	97.8	98.7	91.5	95.0	374	960
Dec.	15.9	16.6	4.01	3.69	12.0	11.7	1.7	0.7	3.1	2.7	92.77	93.62	95.9	97.7	89.5	91.5	150	312
Jan.	16.2	16.3	4.06	3.68	12.1	13.8	2.0	2.0	3.3	1.4	93.68	91.69	94.6	93.7	88.0	85.0	28	40
Feb.	16.6	17.7	4.15	3.92	11.1	11.6	1.2	0.8	4.9	1.8	97.00	98.75	95.6	99.5	92.0	98.5	4	2
Mar. and later	16.2	18.3	3.77	3.82	12.6	11.9	2.7	2.8	6.3	1.1	92.50	100.83	91.2	93.0	82.5	94.5	2	6
Season	16.0	17.2	3.98	3.75	12.3	11.6	0.9	0.6	1.5	1.6	92.82	95.99	98.1	98.6	91.5	95.0	1,672	2,302



Table 4. Cottonseed: Quality factors, indexes and grades by specified periods and states, 1980 and 1981 (Continued)

MISSOURI

Month	Cottonseed analysis												Average Index		Average Grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1980		1981	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1980	1981	1980	1981	No.	No.	1980	1981
Sept.	16.0	15.9	4.04	4.02	12.9	11.6	0.5	0.6	0.8	0.7	93.30	92.48	98.3	99.3	92.0	92.0	410	190
Oct.	16.3	16.2	4.04	3.70	13.3	12.3	0.4	0.4	0.8	0.8	94.11	91.72	98.2	98.9	93.0	91.0	762	548
Nov.	16.1	16.4	4.01	3.69	12.3	11.9	0.5	0.5	1.4	1.1	93.50	92.66	98.5	99.1	92.5	92.0	384	582
Dec.	16.2	16.7	3.96	3.69	12.1	11.3	0.9	0.6	2.2	1.8	93.38	93.47	96.9	98.8	89.5	92.5	54	124
Jan.	16.3	17.5	3.97	3.70	11.6	11.7	0.7	0.7	2.7	1.6	94.20	96.94	97.9	98.7	92.5	96.0	22	16
Feb.	15.8	15.3	3.88	3.57	12.3	12.2	1.0	0.9	3.4	3.5	91.25	89.17	97.2	96.7	89.0	86.0	8	6
Mar. and later	16.5	16.4	4.07	3.70	11.3	11.8	2.4	4.1	1.9	2.6	93.44	90.31	94.2	85.3	89.5	78.0	8	8
Season	16.2	16.3	4.03	3.74	12.9	12.0	0.5	0.5	1.0	1.0	93.73	92.38	98.3	98.9	92.5	91.5	1,648	1,474

ARKANSAS

Sept.	15.9	16.2	3.97	4.13	12.0	11.0	0.5	0.6	0.6	0.6	92.36	94.70	99.1	99.7	91.5	94.5	670	296
Oct.	16.1	16.2	4.01	3.92	12.0	12.1	0.4	0.6	0.7	0.7	93.55	93.35	99.1	99.0	93.0	92.5	2,102	1,888
Nov.	15.9	16.2	3.95	3.85	12.6	12.2	0.7	1.0	1.2	1.1	92.34	92.39	98.5	98.8	91.5	91.5	1,058	1,642
Dec.	15.7	15.7	3.90	3.77	12.8	11.7	1.1	1.0	2.2	1.8	91.36	90.20	97.2	98.5	89.0	89.0	298	422
Jan.	15.8	15.9	3.99	3.78	12.2	12.1	1.6	1.4	3.0	2.4	92.42	90.30	95.2	97.3	86.5	87.5	64	74
Feb.	15.7	15.9	3.96	3.89	12.1	11.8	1.8	1.7	3.6	1.8	91.43	92.50	96.0	97.3	88.0	88.5	28	22
Mar. and later	16.2	15.9	4.05	3.85	10.7	11.3	0.9	1.3	1.3	2.1	94.18	91.18	99.3	97.2	93.5	88.5	14	28
Season	16.0	16.1	3.98	3.89	12.2	12.0	0.6	0.8	1.0	1.0	92.88	92.71	98.7	98.9	92.0	92.0	4,234	4,372

LOUISIANA

Aug.	18.2	-	3.77	-	9.6	-	1.1	-	0.7	-	101.50	-	100.0	-	101.5	-	2	-
Sept.	16.2	16.2	4.09	4.16	10.9	11.0	0.5	0.7	0.8	0.9	94.12	94.64	99.6	99.5	94.0	94.5	648	916
Oct.	16.7	16.4	4.06	4.02	10.7	11.9	0.4	1.0	0.9	1.1	96.05	94.65	99.5	98.7	96.0	93.5	1,622	1,884
Nov.	16.3	16.1	3.97	3.92	12.2	13.4	0.6	2.2	1.6	1.5	94.03	92.71	98.5	95.5	93.0	88.5	468	1,028
Dec.	16.0	16.0	3.91	3.93	12.6	12.2	1.0	3.3	2.1	2.0	92.55	92.41	97.6	91.9	90.0	84.5	92	334
Jan.	16.0	15.5	3.96	3.92	12.1	12.6	1.4	6.8	2.8	4.1	93.13	89.89	96.5	77.5	90.0	68.5	28	22
Feb.	16.2	16.2	4.07	4.03	11.7	11.9	1.7	3.3	2.4	1.4	94.06	94.20	96.1	92.1	91.5	88.0	16	22
Mar. and later	16.8	17.0	4.19	3.99	9.1	10.9	0.6	2.0	1.2	0.8	97.24	96.58	99.6	97.8	97.0	95.0	44	44
Season	16.5	16.2	4.05	4.02	11.0	12.1	0.5	1.5	1.0	1.2	95.17	94.00	99.3	97.4	95.0	92.0	2,920	4,250

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1980 and 1981 (Continued)

OKLAHOMA

Month	Oil		Cottonseed analysis								Average index				Average grade		Samples		
	1980	1981	Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1980	1981	1980	1981	
			Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1980	1981	1980	1981					
Sept.	18.7	16.3	3.55	4.04	10.6	9.6	0.4	1.3	0.7	1.1	100.94	94.00	99.9	98.6	101.0	93.5	8	10	
Oct.	17.9	16.4	3.98	3.98	8.4	10.9	0.4	0.5	0.9	1.2	100.42	93.80	99.7	99.3	100.5	94.0	122	66	
Nov.	17.5	16.6	4.20	4.11	7.8	10.4	0.4	0.5	1.4	2.2	99.98	96.24	99.4	98.6	99.5	95.0	364	292	
Dec.	17.0	17.1	4.18	4.13	9.6	8.8	0.5	0.5	1.8	2.7	98.05	97.96	99.1	98.3	97.5	96.5	304	694	
Jan.	16.8	17.1	4.13	4.07	9.4	9.5	0.6	0.6	2.0	3.0	97.79	97.54	98.9	97.9	96.5	96.0	154	608	
Feb.	16.9	16.8	4.09	4.04	9.4	9.4	0.8	0.8	2.4	3.7	97.18	96.36	98.7	97.3	95.5	94.5	14	186	
Mar. and later	16.2	16.4	3.92	4.03	9.6	10.4	1.1	1.3	4.8	3.7	92.50	94.82	96.5	96.9	91.0	92.0	2	34	
Season	17.3	16.9	4.15	4.09	8.7	9.4	0.5	0.6	1.6	2.8	98.87	97.18	99.3	98.1	98.5	96.0	968	1,890	
TEXAS																			
Aug.	16.9	17.8	3.95	3.78	11.0	10.4	1.1	0.9	1.2	1.0	96.37	98.70	97.7	99.3	94.5	98.5	2,256	1,736	
Sept.	16.6	17.0	4.08	3.90	9.9	11.3	1.5	2.2	1.3	1.6	95.81	96.07	96.7	94.6	92.5	91.0	1,306	1,318	
Oct.	17.3	16.9	4.13	4.06	9.8	10.6	0.7	1.5	1.9	1.7	99.08	96.92	98.4	96.8	98.0	93.5	1,644	848	
Nov.	18.1	17.9	4.17	3.98	7.3	8.6	0.6	0.5	2.2	2.4	102.03	100.40	98.7	98.3	101.0	99.0	3,502	5,414	
Dec.	18.0	18.2	4.10	3.97	8.5	7.9	0.6	0.5	2.8	2.9	101.44	101.44	98.2	97.8	100.0	99.5	3,682	7,578	
Jan.	17.9	18.1	4.14	3.93	8.4	7.8	0.8	0.5	3.2	3.4	101.28	101.05	97.6	97.6	99.0	99.0	2,778	4,270	
Feb.	17.7	18.1	4.08	3.88	8.9	8.2	1.3	0.6	3.9	3.7	100.23	100.57	96.4	97.2	96.5	98.0	488	1,516	
Mar. and later	17.8	18.0	4.08	3.86	9.0	8.1	1.5	1.1	3.9	4.0	100.76	99.91	95.9	95.7	96.5	96.5	118	412	
Season	17.6	17.9	4.10	3.94	8.8	8.5	0.8	0.7	2.3	2.7	100.11	100.36	98.0	97.7	98.5	98.5	15,774	23,092	
NEW MEXICO																			
Oct.	19.5	18.2	4.07	3.83	9.2	11.1	0.4	0.4	1.9	1.2	106.81	100.94	99.1	99.5	107.5	100.5	16	24	
Nov.	19.6	18.4	4.12	3.96	7.2	7.6	0.5	0.4	2.8	2.2	108.55	102.14	98.3	98.8	106.5	101.0	50	64	
Dec.	18.5	18.3	4.08	3.98	8.7	7.2	0.6	0.4	3.1	2.8	104.21	101.86	97.9	98.3	102.0	100.5	38	50	
Jan.	18.5	18.2	4.04	3.92	7.6	7.9	0.6	0.5	3.7	3.3	103.46	101.27	97.0	97.7	100.5	99.0	40	32	
Feb.	18.4	17.9	4.11	3.98	8.6	8.0	1.3	0.5	6.0	2.9	103.31	101.00	94.4	98.0	98.0	99.5	16	14	
Mar. and later	19.5	17.7	4.18	4.15	7.6	8.1	1.1	1.1	6.7	2.7	108.56	100.38	94.2	98.5	102.5	99.5	8	4	
Season	19.0	18.2	4.09	3.95	8.0	8.1	0.6	0.4	3.4	2.5	105.69	101.64	97.4	98.5	103.0	100.5	168	188	
ARIZONA																			
Oct.	18.9	18.7	4.17	4.14	7.7	8.3	0.4	0.5	0.8	0.6	105.77	105.37	99.8	99.9	106.0	105.5	68	26	
Nov.	18.9	18.9	4.18	4.23	6.5	6.6	0.4	0.4	1.5	1.1	104.49	106.15	99.3	99.6	104.0	106.0	52	62	
Dec.	18.5	18.3	4.16	4.13	7.2	6.4	0.5	0.4	1.8	1.7	103.09	102.63	99.1	99.0	102.0	102.0	46	24	
Jan.	18.9	17.7	4.12	4.04	8.3	7.9	0.8	0.4	3.1	2.5	104.58	100.06	97.6	98.5	102.0	99.0	20	18	
Feb.	17.7	18.0	3.92	4.12	6.6	8.6	0.6	0.5	2.6	3.8	98.75	99.29	98.5	97.1	96.0	97.0	2	12	
Mar. and later	17.7	17.7	-	4.07	-	7.6	-	1.1	-	3.6	-	101.13	-	97.5	-	99.0	-	4	
Season	18.8	18.5	4.16	4.16	7.3	7.2	0.5	0.4	1.5	1.6	104.56	103.98	99.2	99.2	104.0	103.5	188	146	

Table 5. Cottonseed: Quality factors, indexes and grades by marketing services office areas, by states, 1980 and 1981

SOUTHEASTERN

Marketing Services Office	Cottonseed analysis														Average Index		Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1980	1981	1980	1981	No.	No.
	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	No.	No.
Florence	17.3	19.0	4.44	4.06	11.9	9.6	4.3	0.7	1.0	1.1	100.87	105.33	87.1	99.5	88.5	105.0	1,108	1,628		
NC	17.3	19.3	4.41	4.09	12.1	9.8	4.1	0.5	0.9	1.1	100.75	106.91	87.7	99.5	89.0	106.5	426	504		
SC	17.3	18.8	4.45	4.05	11.7	9.5	4.5	0.8	1.1	1.1	100.75	104.62	86.7	99.4	88.0	104.5	682	1,124		
Macon																				
GA	16.9	18.1	4.33	4.20	11.6	10.5	3.0	1.5	0.9	1.2	98.72	102.52	92.5	98.1	91.5	101.0	554	250		
Birmingham																				
AL	16.2	17.4	4.04	4.04	11.2	11.2	1.0	1.0	1.6	1.4	93.95	98.97	98.3	98.4	92.5	97.5	1,238	2,158	1/	1/

SOUTH CENTRAL

Greenwood																				
MS	16.6	16.1	4.03	4.12	11.3	11.9	0.6	1.2	1.2	1.3	95.45	94.07	99.1	98.2	95.0	92.5	5,800	7,220		
Memphis																				
TN	16.0	17.0	4.00	3.84	12.1	11.6	0.8	0.6	1.5	1.6	92.95	95.71	98.3	98.7	91.5	95.0	3,108	4,092		
AR	15.5	15.5	4.01	4.05	12.1	11.8	0.5	0.5	1.1	0.8	91.01	91.16	98.9	99.2	90.0	91.0	1,672	2,302		
MS	16.1	16.8	4.02	3.94	11.8	11.5	0.7	0.7	1.6	1.6	93.39	95.66	98.5	98.7	92.5	95.0	1,174	1,666		
Hayti																				
MO	16.2	16.3	4.03	3.74	12.9	12.0	0.5	0.5	1.0	1.0	93.73	92.38	98.3	98.9	92.5	91.5	1,648	1,474		
AR	15.8	16.0	3.95	3.83	13.2	11.9	0.7	0.6	1.0	1.1	91.67	91.78	97.9	98.9	90.0	91.0	1,306	1,436		
Little Rock																				
AR	16.2	16.2	3.99	3.91	11.7	12.1	0.5	0.9	0.9	1.0	93.57	93.25	99.1	98.8	93.0	92.5	2,754	2,812		
Winnboro																				
LA	16.5	16.2	4.05	4.02	11.0	12.1	0.5	1.5	1.0	1.2	95.17	94.00	99.3	97.4	95.0	92.0	2,920	4,250		

Table 5. Cottonseed: Quality factors, indexes and grades by marketing services office areas, by states, 1980 and 1981 (Continued)

SOUTHWESTERN

Marketing Services Office	Oil		Cottonseed analysis								Average index				Average grade		Samples	
	1980	1981	Ammonia		Moisture		Free fatty acids		Foreign matter		1980	1981	1980	1981	1980	1981	1980	1981
			Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Quantity	Quality								
Altus	17.3	17.2	4.15	4.06	8.5	9.0	0.6	0.5	2.0	2.9	99.07	97.99	98.8	98.0	98.5	95.5	2,066	3,578
OK	17.3	16.9	4.14	4.09	8.7	9.4	0.5	0.6	1.6	2.8	98.95	97.20	99.3	98.1	98.5	96.0	932	1,834
TX	17.3	17.4	4.16	4.03	8.3	8.6	0.7	0.5	2.3	3.0	99.16	98.82	98.4	97.9	98.0	95.0	1,134	1,744
Dallas																		
TX	15.8	16.4	4.22	4.17	7.7	9.8	0.6	1.5	1.2	2.1	93.56	95.40	99.6	96.7	93.5	92.5	402	462
Austin																		
TX	16.6	16.9	4.05	3.98	10.5	10.8	0.7	2.2	1.1	1.5	95.71	96.40	98.6	94.0	95.0	91.0	952	1,174
Corpus Christi																		
TX	16.3	18.0	3.99	3.71	11.9	11.3	1.5	2.2	1.6	1.6	93.74	99.06	95.8	95.2	89.5	94.5	1,152	1,146
Harlingen																		
TX	17.6	17.3	3.88	3.90	10.8	10.5	1.5	0.8	0.9	0.8	98.59	97.38	96.7	99.5	95.5	97.0	1,122	1,264
Abilene																		
TX	17.7	17.8	4.25	4.09	9.1	8.4	1.2	0.4	2.1	2.0	101.15	100.93	98.4	98.8	100.0	100.0	1,814	3,690
Lubbock																		
TX	18.0	18.1	4.10	3.89	8.0	8.0	0.6	0.4	2.7	3.3	101.70	100.76	98.1	97.7	100.0	98.5	7,228	9,552
NM	17.7	17.9	4.15	3.92	8.9	8.4	0.6	0.6	1.6	2.7	100.71	99.86	99.3	98.3	100.5	98.5	7,216	9,534
Lamesa																		
TX	18.0	18.5	4.11	3.92	8.3	7.8	0.6	0.4	3.1	3.0	101.69	102.48	97.8	98.0	99.5	100.5	1,892	3,946
NH	18.0	18.2	4.11	3.93	8.0	7.7	0.6	0.4	3.8	2.6	101.97	101.51	97.2	98.3	99.0	100.0	1,824	3,876
El Paso																		
TX	18.9	18.3	4.15	4.10	7.9	7.8	0.8	0.5	2.6	2.4	105.49	102.64	98.0	98.5	103.5	101.5	434	504
NH	19.9	18.3	4.06	3.96	7.8	8.2	0.7	0.4	3.5	2.3	109.25	102.06	97.3	98.6	106.5	101.0	158	258
AZ	18.8	18.5	4.16	4.16	7.3	7.2	0.5	0.4	1.5	1.6	104.56	103.98	99.2	99.2	104.0	103.5	88	100
Bakersfield																		
CA	17.9	-	4.23	-	7.3	-	0.8	-	0.6	-	101.74	-	100.0	-	102.0	-	90	-

WESTERN

1/ Includes 40 certificates in 1980 and 68 certificates in 1981 for Florida.

Table 6. Percentage distribution of quantity index by specified frequencies, by states and United States, 1980 and 1981

State	Quantity Index														Total						
	Under 65		65-69		70-74		75-79		80-84		85-89		90-94		95-99		100-104		105 and over		
	1980	Pct.	1981	Pct.	1980	Pct.	1981	Pct.	1980	Pct.	1981	Pct.	1980	Pct.	1981	Pct.	1980	Pct.	1981	Pct.	
NC	-	-	-	-	-	-	-	-	-	-	-	1.4	0.4	35.7	3.6	57.8	20.8	5.1	75.2	100.0	100.0
SC	-	-	-	0.3	-	0.3	-	0.2	-	0.2	-	0.5	3.5	34.0	13.7	48.1	29.5	13.8	53.6	100.0	100.0
GA	-	-	-	-	-	-	-	-	-	0.7	-	17.3	1.6	43.4	19.2	33.9	55.2	4.7	24.0	100.0	100.0
AL	-	-	-	-	-	-	-	0.2	-	9.3	0.8	41.0	10.7	42.9	47.9	6.3	37.2	0.3	3.4	100.0	100.0
MS	-	-	*	-	0.1	0.2	0.7	1.3	7.8	9.6	34.6	39.1	48.7	44.5	7.9	5.2	0.2	0.1	100.0	100.0	100.0
TN	-	-	-	-	0.2	0.1	0.4	0.2	18.2	4.5	53.6	29.3	25.5	52.0	2.1	13.5	-	0.4	100.0	100.0	100.0
MO	-	-	-	-	-	0.4	0.6	3.0	13.5	20.8	44.8	51.1	38.4	21.3	2.7	3.3	-	0.1	100.0	100.0	100.0
AR	-	-	-	-	0.1	0.1	0.9	1.9	3.7	19.3	20.4	48.8	39.9	25.7	31.6	4.1	3.3	0.1	0.1	100.0	100.0
LA	-	-	-	-	-	0.1	0.1	0.8	6.6	13.5	38.9	37.6	44.1	45.0	10.0	2.9	0.3	0.1	100.0	100.0	100.0
OK	-	-	-	-	-	-	-	0.2	0.2	1.5	11.8	17.5	53.1	63.1	29.4	17.1	5.5	0.6	100.0	100.0	100.0
TX	*	-	*	*	*	0.1	0.1	0.5	0.2	1.9	0.7	9.6	6.3	28.0	33.6	51.0	51.3	8.9	7.8	100.0	100.0
NH	-	-	-	-	-	-	-	-	-	-	-	-	1.1	8.3	30.9	41.6	55.3	50.1	12.7	100.0	100.0
AZ	-	-	-	-	-	-	-	-	-	-	-	1.1	2.7	11.7	12.3	45.7	42.3	41.5	42.7	100.0	100.0
Other	-	-	-	-	-	-	-	-	-	-	-	3.1	29.5	32.2	47.0	63.2	23.5	1.5	-	100.0	100.0
U. S.	*	-	*	*	*	0.1	0.2	0.6	0.8	6.7	5.8	25.6	20.4	34.7	37.6	27.6	29.2	4.7	6.0	100.0	100.0

\* Less than 0.05 percent.

Table 7. Percentage distribution of quality index by specified frequencies, by states and United States, 1980 and 1981

State	Quality Index														Total					
	Below grade		Below prime quality										Prime quality 100		1980	1981				
	1980	1981	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	1980	1981	1980	1981							
NC	0.9	-	2.3	-	9.4	-	11.3	-	6.6	-	8.5	-	11.8	0.8	27.2	40.1	22.0	59.1	100.0	100.0
SC	0.9	-	2.1	-	10.0	-	12.3	0.2	7.6	-	10.0	0.2	14.0	1.8	24.0	33.8	19.1	64.0	100.0	100.0
GA	0.4	-	0.4	-	5.8	-	4.3	-	5.1	0.8	8.7	2.4	12.6	12.8	35.0	45.6	27.7	38.4	100.0	100.0
AL	0.2	-	0.1	-	0.7	0.1	0.8	0.6	1.7	0.2	2.3	2.0	5.8	3.8	53.9	63.1	34.5	30.2	100.0	100.0
MS	-	-	-	-	0.1	0.1	0.1	0.3	0.1	0.5	0.3	1.6	2.3	5.1	58.2	59.6	38.9	32.8	100.0	100.0
TN	-	-	-	-	0.1	-	0.2	-	0.1	0.4	0.7	0.8	4.3	2.3	72.6	68.4	22.0	28.1	100.0	100.0
MO	-	-	-	-	0.1	-	0.1	-	0.2	0.1	0.2	0.3	4.0	1.7	72.7	63.4	22.8	34.4	100.0	100.0
AR	-	-	-	-	-	-	*	-	0.2	0.2	0.3	0.5	3.6	2.2	55.9	59.2	40.0	37.9	100.0	100.0
LA	-	-	-	*	-	0.4	-	1.0	0.2	1.6	-	3.2	1.2	8.3	47.1	52.7	51.5	32.8	100.0	100.0
OK	-	-	-	-	-	-	-	-	-	-	-	0.2	0.6	2.5	62.6	88.2	36.8	9.1	100.0	100.0
TX	*	0.1	*	0.1	0.2	0.2	0.5	0.5	0.6	0.4	0.9	0.6	4.9	4.9	75.2	80.7	17.7	12.5	100.0	100.0
NM	-	-	-	-	-	-	-	-	-	-	1.2	-	13.1	1.1	78.6	92.5	7.1	6.4	100.0	100.0
AZ	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	41.5	56.2	56.4	43.8	100.0	100.0
Other	-	-	-	-	-	-	-	2.9	-	-	-	2.9	3.0	2.9	18.4	49.9	78.6	41.4	100.0	100.0
U. S.	0.1	*	0.1	*	0.5	0.2	0.7	0.5	0.7	0.5	1.0	1.0	4.2	4.6	63.8	69.5	28.9	23.7	100.0	100.0

\* Less than 0.05 percent.

Table 8. Percentage distribution of grades by specified frequencies, by states and United States, 1980 and 1981

State	Grade														Total							
	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 and over		110.0 and over					
	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981				
NC	1.4	-	15.1	-	6.6	-	8.5	-	7.0	-	10.8	0.4	20.1	6.4	26.8	23.5	2.8	52.2	0.9	17.5	100.0	100.0
SC	0.9	-	17.8	-	5.9	0.2	6.5	0.2	10.3	0.9	12.6	4.0	18.4	14.2	23.8	27.2	3.8	44.2	-	9.1	100.0	100.0
GA	0.4	-	7.6	-	1.8	-	7.9	0.8	11.6	1.6	18.7	10.4	33.4	26.4	17.8	40.0	0.4	19.2	0.4	1.6	100.0	100.0
AL	0.2	-	1.7	0.6	1.4	0.6	3.6	1.2	14.5	3.8	40.2	16.7	33.8	42.0	4.5	31.5	0.1	3.4	-	0.2	100.0	100.0
MS	-	-	0.2	0.9	0.4	1.5	2.5	4.7	11.4	12.5	32.9	38.4	43.9	37.5	8.4	4.4	0.3	0.1	-	-	100.0	100.0
TN	-	-	0.7	0.3	0.5	0.6	4.7	1.1	26.0	8.7	46.7	33.6	19.4	44.0	2.0	11.3	-	0.4	-	-	100.0	100.0
MO	-	-	0.5	0.4	0.2	0.7	4.7	4.6	19.8	25.0	42.8	47.6	29.5	18.4	2.5	3.2	-	0.1	-	-	100.0	100.0
AR	-	-	0.3	0.5	0.9	1.6	5.5	6.9	24.2	22.4	41.0	37.1	23.6	27.9	4.4	3.5	0.1	0.1	*	-	100.0	100.0
LA	-	-	0.1	2.3	0.2	2.6	1.0	5.7	10.6	18.3	35.5	33.0	41.6	35.2	10.7	2.8	0.3	0.1	-	-	100.0	100.0
OK	-	-	-	-	-	-	-	0.4	1.0	4.4	14.0	33.2	51.7	51.3	28.0	10.4	4.9	0.3	0.4	-	100.0	100.0
TX	0.1	0.1	1.0	0.8	0.7	0.5	1.4	0.7	3.1	2.3	11.6	11.4	36.0	42.6	40.7	37.7	5.3	3.8	0.1	0.1	100.0	100.0
NM	-	-	-	-	-	-	-	-	-	-	6.0	4.3	25.0	42.5	32.2	42.6	23.7	10.6	13.1	-	100.0	100.0
AZ	-	-	-	-	-	-	-	-	2.1	-	1.1	4.1	14.9	12.3	39.5	38.3	32.8	42.6	9.6	2.7	100.0	100.0
Other	-	-	-	-	-	-	2.9	-	3.1	2.9	7.7	23.5	23.1	50.2	63.0	17.6	3.1	-	-	-	100.0	100.0
U. S.	0.1	*	1.2	0.8	0.8	1.0	2.6	2.6	10.0	8.2	25.0	23.8	35.0	37.7	22.3	21.8	2.8	3.7	0.2	0.4	100.0	100.0

\* Less than 0.05 percent.

Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1980 and 1981

State	Oil														Total										
	15.0-15.9		16.0-16.4		16.5-16.9		17.0-17.4		17.5-17.9		18.0-18.4		18.5-18.9		19.0-19.9		20.0-20.9		21.0 and over						
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.					
NC	0.5	-	1.4	-	3.3	-	23.0	0.8	38.0	2.8	20.2	2.0	8.5	7.5	2.3	13.5	1.9	53.9	0.9	19.5	-	-	100.0	100.0	
SC	-	0.2	3.5	2.0	12.6	0.9	22.3	1.6	22.6	6.0	17.0	10.3	12.6	11.7	7.0	13.9	1.8	42.5	0.6	10.4	-	0.5	100.0	100.0	
GA	0.4	-	13.7	-	15.9	3.2	24.9	7.2	17.3	16.0	11.9	16.0	9.7	22.4	4.7	22.4	1.1	11.2	-	1.6	0.4	-	100.0	100.0	
AL	4.7	0.3	28.2	4.5	25.3	4.6	24.4	14.2	10.2	24.8	4.7	26.1	1.8	16.6	0.3	6.4	0.3	2.3	0.1	0.2	-	-	100.0	100.0	
MS	4.2	7.5	21.2	25.5	20.1	25.3	23.3	22.4	19.0	10.9	8.3	5.2	3.0	2.4	0.6	0.7	0.3	0.1	-	-	-	-	100.0	100.0	
TN	5.4	1.0	40.7	6.8	27.0	9.5	17.6	21.0	6.0	23.4	2.4	20.8	0.8	12.6	-	4.2	0.1	0.7	-	-	-	-	100.0	100.0	
MO	5.9	8.4	29.5	23.7	26.3	24.2	24.3	20.2	10.3	14.0	3.2	4.7	0.4	3.4	0.1	0.8	-	0.6	-	-	-	-	100.0	100.0	
AR	10.5	13.1	37.6	28.3	22.6	19.7	14.3	17.4	8.7	13.3	3.9	5.6	1.8	1.9	0.5	0.5	0.1	0.2	*	-	-	-	100.0	100.0	
LA	3.9	6.5	25.0	26.6	18.9	23.7	20.8	25.2	16.2	12.5	9.2	3.9	4.5	1.2	1.3	0.4	0.2	*	-	-	-	-	100.0	100.0	
OK	-	1.0	4.5	6.1	14.3	14.5	22.1	28.3	22.2	26.8	13.2	17.2	11.2	4.3	6.6	1.7	5.3	0.1	0.2	-	0.4	-	100.0	100.0	
TX	1.4	0.5	5.8	2.1	5.6	3.3	8.3	7.3	13.1	12.9	21.1	19.7	26.2	24.0	13.5	20.0	4.9	9.5	0.1	0.7	-	-	100.0	100.0	
NH	-	-	-	-	1.2	1.1	1.2	3.2	8.3	11.7	7.1	19.1	27.5	24.4	4.8	23.4	25.0	16.0	17.8	1.1	7.1	-	100.0	100.0	
AZ	-	-	-	-	1.1	1.4	2.1	2.7	6.4	5.5	11.7	12.3	21.3	21.9	17.0	20.5	25.5	34.3	7.5	1.4	7.4	-	100.0	100.0	
Other	-	-	2.9	3.1	11.8	6.2	11.8	18.5	20.6	39.9	23.5	27.7	14.7	4.6	11.8	-	2.9	-	-	-	-	-	-	100.0	100.0
U. S.	3.5	3.6	17.1	11.6	14.3	11.5	15.5	14.3	14.1	13.8	13.1	14.0	13.1	13.7	6.4	10.6	2.6	6.2	0.2	0.7	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, 1980 and 1981

State	Ammonia														Total							
	Under 2.95		2.95-3.09		3.10-3.24		3.25-3.39		3.40-3.54		3.55-3.69		3.70-3.84		3.85-3.99		4.00-4.14		4.15 and over			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
NC	-	-	-	-	-	-	-	-	-	-	-	0.5	8.3	-	20.2	2.8	34.6	96.7	36.9	100.0		
SC	-	-	-	-	-	-	-	-	-	-	1.2	-	7.8	0.3	28.3	2.9	36.1	96.8	26.6	100.0		
GA	-	-	-	-	-	-	0.4	-	-	-	0.4	3.2	1.1	3.2	2.2	8.0	8.7	19.2	87.2	100.0		
AL	-	-	0.1	-	0.1	-	0.1	0.1	-	0.4	1.0	2.8	5.5	10.7	19.9	21.6	34.8	32.6	38.6	31.8	100.0	
MS	-	-	-	-	-	-	-	-	0.1	0.3	1.2	2.1	7.5	8.8	28.7	20.5	42.0	29.6	20.5	38.7	100.0	
TN	0.1	-	-	-	-	-	0.1	0.6	0.1	5.0	1.6	27.5	13.0	44.3	37.8	17.2	40.1	4.4	7.3	0.9	100.0	
MO	-	-	-	-	0.3	-	0.3	-	0.9	0.2	7.6	0.5	37.7	8.1	33.0	29.0	10.4	43.2	6.5	19.0	3.6	100.0
AR	-	-	-	-	-	*	0.3	0.7	2.6	2.6	2.3	11.3	13.7	28.8	35.9	29.1	34.4	17.3	13.0	10.6	100.0	
LA	*	-	-	0.1	-	0.1	-	0.2	-	1.0	0.2	2.4	2.8	11.0	16.9	20.4	27.8	32.2	25.8	32.7	26.5	100.0
OK	-	-	-	-	-	-	0.4	-	-	1.0	0.1	2.5	1.4	4.1	7.2	8.3	21.0	26.7	32.1	57.0	38.2	100.0
TX	*	0.1	0.1	0.1	0.3	0.1	0.6	0.4	1.5	1.7	5.8	5.9	20.2	17.2	32.8	33.4	25.1	41.1	13.6	100.0	100.0	
NM	-	-	-	-	-	-	-	-	2.4	2.1	-	3.2	4.8	17.0	11.9	37.3	34.5	33.0	45.2	7.4	100.0	
AZ	-	-	-	-	-	-	-	-	-	-	-	-	2.1	1.4	8.5	13.7	29.8	26.0	59.6	58.9	100.0	
Other	-	-	-	-	-	-	-	-	-	-	1.5	26.5	9.2	55.9	6.2	17.6	15.4	-	67.7	-	100.0	
U. S.	*	*	0.1	*	0.1	0.1	0.4	1.4	1.6	6.8	7.5	18.8	22.1	27.2	34.5	24.7	33.8	20.5	100.0	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, 1980

State	Moisture														Total
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0	5.1	7.1	9.1	10.1	11.1	12.1	14.1	16.1	18.1	20.1 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
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	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
NH	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 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1981

State	Moisture																	
	Pct.	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	Pct.	0.0	5.1	7.1	9.1	10.1	11.1	12.1	14.1	16.1	18.1	20.1 and over	Total	
		Pct.	Pct.	Pct.		Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	95.2	4.8	-	-	-	25.4	42.0	22.6	5.2	4.8	-	-	-	-	-	-	100.0	
SC	96.6	3.4	-	-	0.2	35.4	35.9	18.9	6.2	3.2	0.2	-	-	-	-	-	100.0	
GA	84.8	15.2	-	-	16.8	27.2	21.6	19.2	13.6	1.6	-	-	-	-	-	-	100.0	
AL	74.1	25.9	-	-	6.1	16.5	25.6	25.9	22.9	2.6	0.2	-	-	-	-	-	100.0	
MS	60.4	39.6	*	*	3.4	13.1	21.1	22.8	28.3	9.5	1.6	0.2	*	*	*	*	100.0	
TN	63.9	36.1	-	-	1.8	11.1	26.3	24.7	30.2	5.3	0.4	-	-	-	-	-	100.0	
MO	56.3	43.6	0.1	-	1.7	8.1	23.2	23.3	33.6	8.6	1.4	-	-	-	-	-	100.0	
AR	54.9	45.0	0.1	-	2.4	8.5	17.5	26.5	33.7	10.0	1.1	0.2	0.1	0.2	0.1	0.1	100.0	
LA	53.2	46.8	*	-	3.3	11.8	18.2	19.9	31.8	12.9	1.9	0.2	*	*	*	*	100.0	
OK	95.3	4.7	-	-	4.6	35.7	29.5	17.0	8.5	4.4	0.1	0.2	-	-	-	-	100.0	
TX	95.7	4.3	*	*	13.0	59.6	11.9	7.1	4.1	3.3	0.7	0.2	0.1	0.1	0.1	*	100.0	
RRH	93.6	6.4	-	-	27.7	54.3	7.4	2.1	2.1	6.4	-	-	-	-	-	-	100.0	
AZ	100.0	-	-	-	47.9	41.1	9.6	1.4	-	-	-	-	-	-	-	-	100.0	
Other	67.7	32.3	-	-	-	17.6	26.6	23.5	32.3	-	-	-	-	-	-	-	100.0	
U. S.	78.8	21.2	*	*	6.3	31.4	13.4	14.4	13.3	15.8	4.6	0.7	0.1	0.1	*	*	100.0	

\* Less than 0.05 percent.

Table 13. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1980

State	Free fatty acids											Total			
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0	0.5	1.0	1.5	1.9	3.0	5.0	7.0		9.0	11.0 and 12.4	12.5 and over
	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
NH	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 14. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1981

State	Free fatty acids											Total		
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0	0.5	1.0	1.5	1.9	3.0	5.0	7.0		9.0	11.0 and 12.4
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	98.8	1.2	-	61.9	32.9	3.2	0.8	0.8	0.4	-	-	-	-	100.0
SC	97.5	2.5	-	18.0	60.3	16.0	3.2	1.8	0.5	-	-	0.2	-	100.0
GA	74.4	25.6	-	10.4	36.0	16.8	11.2	10.4	14.4	0.8	-	-	-	100.0
AL	86.8	13.2	-	28.3	43.5	10.7	4.3	8.0	3.6	1.0	0.5	0.1	-	100.0
MS	87.9	12.1	-	19.0	39.7	21.2	8.0	8.2	3.0	0.7	0.1	0.1	*	100.0
TN	98.6	1.4	-	36.0	59.6	2.6	0.4	0.6	0.7	0.1	-	-	-	100.0
MO	98.5	1.5	-	54.1	42.6	1.5	0.3	1.2	0.2	-	-	0.1	-	100.0
AR	95.9	4.1	-	27.5	45.5	16.7	6.2	2.9	1.1	0.1	-	-	*	100.0
LA	76.8	23.2	*	8.8	36.4	20.9	10.7	13.1	7.2	2.1	0.4	0.3	0.1	100.0
OK	99.5	0.5	-	28.0	67.4	3.6	0.5	0.4	0.1	-	-	-	-	100.0
TX	95.9	4.0	0.1	62.8	28.2	3.4	1.5	1.6	1.1	0.6	0.4	0.2	0.1	100.0
NH	100.0	-	-	84.0	12.8	3.2	-	-	-	-	-	-	-	100.0
AZ	100.0	-	-	84.9	12.3	1.4	1.4	-	-	-	-	-	-	100.0
Other	85.4	14.6	-	-	59.0	17.6	8.8	2.9	8.8	-	2.9	-	-	100.0
U. S.	92.8	7.1	0.1	42.0	37.1	9.8	3.9	4.0	2.0	0.6	0.2	0.2	0.1	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, 1980

State	Foreign Matter											Total	
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0	0.6	1.1	2.1	3.1	4.1	5.6	7.1		8.6
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
NC	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	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	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	-	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	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	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	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	100.0

Table 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1981

State	Foreign matter														Total
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0	0.6	1.1	2.1	3.1	4.1	5.6	7.1	8.6	10.1 and over	Pct.	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
NC	63.9	36.1	-	19.9	44.0	24.6	6.7	2.8	1.6	0.4	-	-	-	100.0	
SC	66.1	33.9	-	26.6	39.5	23.6	4.8	2.5	1.4	0.9	0.5	0.2	-	100.0	
GA	54.4	45.6	-	24.0	30.4	33.6	8.0	3.2	-	0.8	-	-	-	100.0	
AL	46.4	53.5	0.1	19.8	26.6	35.2	11.2	4.6	2.1	0.1	0.2	0.1	0.1	100.0	
MS	49.7	50.3	*	11.2	38.5	35.2	9.7	2.9	1.6	0.6	0.2	0.1	*	100.0	
TN	43.6	55.8	0.6	19.3	24.3	30.6	13.6	6.7	3.0	1.2	0.5	0.2	0.6	100.0	
MO	65.0	34.9	0.1	25.8	39.2	27.7	5.8	0.9	0.3	0.1	0.1	-	0.1	100.0	
AR	70.1	29.9	*	34.4	35.7	21.8	5.4	1.2	0.8	0.4	0.1	0.2	*	100.0	
LA	55.5	44.5	-	15.8	39.7	32.7	8.6	2.0	0.8	0.1	0.2	0.1	-	100.0	
OK	10.3	89.7	-	2.4	7.9	24.0	30.2	18.4	13.1	3.5	0.2	0.3	-	100.0	
TX	15.1	84.6	0.3	4.6	10.5	27.5	24.3	15.6	11.7	3.7	1.4	0.4	0.3	100.0	
NH	9.6	90.4	-	-	9.6	31.9	30.8	18.1	8.5	1.1	-	-	-	100.0	
AZ	43.8	56.2	-	24.6	19.2	27.4	12.3	11.0	5.5	-	-	-	-	100.0	
Other	70.6	29.4	-	8.8	61.8	26.5	2.9	-	-	-	-	-	-	100.0	
U. S.	35.1	64.7	0.2	11.9	23.2	29.1	16.7	9.3	6.6	2.0	0.7	0.3	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, 1980 and 1981

State	Quality				Reduced due to excess									
	Prime		Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acids		Foreign matter	
	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981
NC	94	298	328	206	4	-	426	504	206	24	256	6	120	182
SC	130	720	546	404	6	-	682	1,124	272	38	468	28	272	382
GA	154	96	398	154	2	-	554	250	186	38	288	64	160	114
AL	620	632	1,174	1,458	4	-	1,798	2,090	500	540	278	276	830	1,120
MS	2,750	2,918	4,312	5,968	-	-	7,062	8,886	2,316	3,526	176	1,072	3,108	4,462
TN	368	646	1,304	1,656	-	-	1,672	2,302	864	832	94	32	752	1,300
MO	376	506	1,272	968	-	-	1,648	1,474	1,016	642	10	24	524	518
AR	1,694	1,654	2,540	2,718	-	-	4,234	4,372	2,098	1,972	72	186	1,052	1,306
LA	1,502	1,394	1,418	2,856	-	-	2,920	4,250	824	1,994	40	986	960	1,896
OK	356	172	612	1,718	-	-	968	1,890	8	90	-	10	610	1,694
TX	2,796	2,876	12,974	20,198	4	18	15,774	23,092	1,442	1,024	930	974	12,292	19,598
NM	12	12	156	176	-	-	168	188	-	12	-	-	156	170
AZ	106	64	82	82	-	-	188	146	-	-	-	-	82	82
Other	102	28	28	40	-	-	130	68	18	22	8	10	8	20
U. S.	11,060	12,016	27,144	38,602	20	18	38,224	50,636	9,750	10,754	2,620	3,668	20,926	32,844

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