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**COTTONSEED
QUALITY**

CROP OF 1974



UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Marketing Service Cotton Division
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Cottonseed Quality - 1974 Crop

Cottonseed from the 1974 crop was lower in quality than a year earlier. The average grade was 95.5 compared with 98.0 for the 1973 crop and 94.0 in 1972. The average oil content of seed from the 1974 crop was slightly lower than a year earlier and the ammonia content was the lowest in 16 years. The percentage of moisture was the same as a year ago. Free fatty acids and foreign matter averaged higher than in the preceding season.

Data from grade certificates covering 61,100 samples of cottonseed were used to compile the information included in this report. Averages of cottonseed quality factors and grades are shown by states, districts, months and by specified frequencies. Average quality factors of cottonseed are shown by states in Table 3. These averages as well as others in this report are arithmetic means of quality factors and indexes tabulated and averaged from the individual grade certificates issued by chemists licensed by the U. S. Department of Agriculture.

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

Table 1. Cottonseed quality factors, indexes and grades,
1950-1974

Year beginning August 1	Cottonseed quantity and quality factors						Quantity	Quality	Average grade	Number of samples
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter				
	Percent	Percent	Percent	Percent	Percent	Percent	Index	Index		Number
1950	18.7	3.64	-	12.8	1.9	1.1	101.02	95.0	96.0	87,663
1951	18.5	3.88	-	11.0	1.5	1.0	101.56	96.5	98.0	124,398
1952	18.6	4.04	-	9.5	1.0	0.9	102.95	98.1	101.0	145,146
1953	18.7	4.00	-	9.0	0.7	0.8	103.46	99.0	102.5	166,916
1954	18.2	4.12	11.4	9.2	0.7	1.0	102.07	99.2	101.5	128,983
1955	18.9	3.95	10.4	10.4	0.7	0.9	102.96	98.9	102.0	101,174
1956	18.9	4.12	10.2	9.1	0.5	0.8	103.51	99.5	103.0	79,071
1957	18.8	3.78	10.0	12.5	2.5	1.3	100.81	92.9	93.5	74,016
1958	19.0	3.76	10.4	11.5	1.4	1.0	102.09	97.0	99.0	72,076
1959	18.8	3.89	10.2	11.4	1.3	0.9	102.10	97.1	100.0	87,772
1960	18.6	3.98	9.7	11.7	1.6	1.1	100.70	95.7	96.0	83,410
1961	18.8	3.83	10.1	10.9	0.9	1.2	101.16	98.0	99.5	92,251
1962	18.2	3.96	10.1	11.1	1.4	1.1	98.54	97.6	96.5	98,390
1963	18.7	4.05	10.3	9.3	0.7	1.1	103.55	99.2	103.0	86,035
1964	18.4	3.98	10.4	10.6	0.9	1.1	102.07	98.5	100.5	91,881
1965	18.0	4.00	10.3	11.1	1.2	1.2	100.49	97.9	98.5	108,828
1966	18.2	3.97	10.8	10.7	0.9	1.3	101.84	98.8	101.0	71,072
1967	18.4	3.89	10.7	10.1	0.9	1.3	101.97	98.5	100.5	45,838
1968	18.0	3.91	11.2	10.6	0.7	1.2	100.91	98.9	100.0	67,254
1969	17.9	3.97	11.1	10.6	0.9	1.3	101.03	98.3	99.5	62,522
1970	17.8	3.92	11.3	10.8	1.6	1.3	100.52	97.1	98.0	60,118
1971	17.7	3.84	11.0	11.1	1.5	1.5	99.29	96.2	95.5	57,960
1972	17.3	3.92	1/	11.9	1.6	1.6	97.67	95.7	94.0	71,210
1973	18.0	3.94	1/	11.0	1.3	1.4	100.81	96.7	98.0	62,504
1974	17.7	3.82	1/	11.0	1.6	1.6	98.42	96.5	95.5	61,114

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 ₂ O 5/		Total reduc- tions 6/	Qual- ity index	Oil		NH ₃ 8/		Sum of pro- ducts	Adjust- ment factors		Quan- tity index
	Total	Re- duction	Total	Re- duction	Total	Re- duction			Total	Pro- duct 7/	Total	Pro- duct 7/				
	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units	Pct.	Units		
<u>PRIME QUALITY SEED</u>																
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	97.60	+5	102.60	102.5
2	1.8	0.0	1.0	0.0	12.0	0.0	0.0	100.0	17.8	71.2	4.10	24.60	95.80	+5	100.80	101.0
3	1.2	0.0	0.8	0.0	9.6	0.0	0.0	100.0	16.2	64.8	3.97	23.82	88.62	+5	93.62	93.5
<u>BELOW PRIME QUALITY SEED</u>																
4	1.9	0.4	1.0	0.0	12.0	0.0	0.4	99.6	18.5	74.0	3.50	21.00	95.00	+5	100.00	99.5
5	1.8	0.0	1.1	0.1	12.0	0.0	0.1	99.9	19.7	78.8	3.75	22.50	101.30	+5	106.30	106.0
6	1.8	0.0	1.0	0.0	12.1	0.1	0.1	99.9	17.3	69.2	4.23	25.38	94.58	+5	99.58	99.5
7	1.9	0.4	1.1	0.1	12.1	0.1	0.6	99.4	15.8	63.2	2.98	17.88	81.08	+5	86.08	85.5
8	2.5	2.8	3.2	2.2	7.4	0.0	5.0	95.0	24.7	98.8	4.15	24.90	123.70	-10	113.70	108.0 AP
<u>OFF QUALITY SEED</u>																
Treated (other than usual), Fermented, Hot																
9	12.5	42.8	0.7	0.0	12.0	0.0	42.8	57.2	20.1	80.4	3.67	22.02	102.42	+5	107.42	61.5
10	1.8	0.0	10.1	9.1	12.0	0.0	9.1	90.9	16.9	67.6	4.13	24.78	92.38	+5	97.38	88.5
11	1.8	0.0	1.0	0.0	20.1	8.1	8.1	91.9	18.8	75.2	3.80	22.80	98.00	+5	103.00	94.5
12	1.8	0.0	15.8	14.8	11.1	0.0	14.8	85.2	19.3	77.2	4.08	24.48	101.68	+5	106.68	91.0
13	4.6	11.2	11.5	10.5	9.2	0.0	21.7	78.3	16.4	65.6	4.32	25.92	91.52	+5	96.52	75.5
<u>BELOW GRADE SEED</u>																
14	10.5	34.8	20.8	19.8	15.6	3.6	58.2	41.8	17.0	68.0	3.41	20.46	88.46	+5	93.46	80*
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	80*

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.



Figure 1. -- Crop-reporting districts of the U. S. Department of Agriculture for the cotton-producing States.

Table 3. Cottonseed: Quality factors, indexes and grades, by states and United States, 1973 and 1974

State	Cottonseed analysis														Average index				Average grade	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity				Quality		1973	1974		
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974						
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
N. C.	19.0	19.6	3.99	3.89	10.0	9.6	0.7	1.0	1.4	1.5	105.03	106.85	99.1	98.8	104.5	106.0				
S. C.	19.2	20.0	4.07	4.11	10.6	9.6	1.5	1.8	1.2	1.3	106.52	109.74	97.9	97.6	104.5	107.5				
Ga.	18.9	19.5	4.08	4.08	10.6	10.3	1.9	3.8	1.0	0.9	105.05	107.57	97.3	91.4	102.5	98.5				
Fla.	18.6	19.1	3.73	3.89	11.9	10.8	3.2	2.6	1.2	1.3	101.96	104.74	91.3	93.7	94.5	99.0				
Ala.	18.2	18.4	3.93	3.80	11.9	11.1	1.5	1.4	1.5	1.6	101.46	101.35	96.6	97.6	98.5	99.0				
Miss.	17.5	17.3	3.89	3.69	12.4	11.9	1.1	1.4	1.0	1.2	98.01	96.13	97.9	97.6	96.5	94.0				
Tenn.	17.6	18.1	3.76	3.56	13.1	12.2	0.9	0.7	1.4	1.5	97.57	98.43	97.8	98.5	96.0	97.5				
Mo.	16.5	17.1	3.73	3.66	13.2	12.3	1.0	0.7	1.3	1.5	93.40	95.36	97.0	98.4	91.0	94.0				
Ark.	16.9	17.2	3.81	3.67	13.3	12.4	1.1	1.1	1.0	1.1	95.44	95.68	97.4	97.9	93.5	94.0				
Ia.	17.6	18.0	3.83	3.77	12.8	12.0	4.0	3.0	0.8	0.8	98.56	99.68	88.1	93.6	87.5	93.5				
Okla.	18.6	17.8	4.10	4.09	9.5	10.3	0.6	1.1	1.7	2.1	103.86	100.52	98.8	98.2	103.0	99.0				
Tex.	18.8	17.1	4.07	3.97	8.4	9.4	1.1	1.7	2.1	2.7	104.71	96.79	96.7	94.8	102.0	92.5				
N. Mex.	19.3	19.2	4.00	3.83	7.3	9.5	0.4	0.6	2.3	2.1	100.36	104.53	98.7	98.6	105.0	103.5				
Ariz.	-	18.6	-	3.99	-	8.7	-	0.6	-	1.8	-	103.20	-	-	-	102.5				
All other	18.9	19.0	4.06	3.62	9.9	12.6	1.0	0.5	1.2	1.0	105.02	102.25	99.1	98.9	104.5	101.5				
U. S.	16.0	17.7	3.94	3.82	11.0	11.0	1.3	1.6	1.4	1.6	100.81	98.42	96.7	96.5	98.0	95.5				

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1973 and 1974

NORTH CAROLINA

Month	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1973		1974		No.			
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974		
Sept.	18.5	-	4.08	-	10.6	-	2.1	-	0.7	-	103.64	-	95.2	-	99.0	-	22	-				
Oct.	19.0	19.6	3.97	3.99	10.5	9.7	0.6	1.1	0.9	0.7	104.91	107.65	99.6	99.2	105.0	107.5	652	216				
Nov.	19.0	19.6	3.97	3.89	9.5	9.1	0.6	0.8	1.6	1.6	104.90	106.91	99.3	99.3	104.5	106.5	610	520				
Dec.	19.0	19.5	4.04	3.81	9.7	10.0	0.8	0.8	2.0	1.9	105.36	106.29	98.6	99.0	104.0	105.0	202	226				
Jan.	18.6	19.3	4.12	3.81	11.4	11.0	0.6	1.2	1.9	2.0	104.00	105.14	98.7	98.3	102.5	103.5	46	74				
Feb.	19.2	19.3	4.01	3.88	10.4	10.5	1.5	2.0	1.9	1.9	106.68	105.70	98.4	97.5	105.0	103.0	14	28				
Mar.-July	19.6	19.9	4.18	3.98	9.7	9.4	2.7	3.3	1.6	2.1	108.82	108.75	92.2	92.3	100.0	101.0	38	44				

Season	19.0	19.6	3.99	3.89	10.0	9.6	0.7	1.0	1.4	1.5	105.03	106.85	99.1	98.8	104.5	106.0	1,584	1,108		
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SOUTH CAROLINA

Sept.	18.8	19.5	4.11	4.11	12.0	11.3	1.9	3.9	1.3	1.4	104.68	107.75	96.5	88.5	101.0	94.5	50	8		
Oct.	19.1	19.8	4.02	4.13	11.4	10.4	1.1	1.9	0.8	0.7	105.95	109.34	99.1	98.4	105.0	108.0	618	554		
Nov.	19.3	20.1	4.06	4.12	10.1	8.7	1.1	1.5	1.4	1.4	106.62	110.48	99.1	98.6	106.0	109.0	532	600		
Dec.	19.4	20.0	4.07	4.08	10.0	9.3	1.4	1.5	1.5	1.7	106.96	109.75	98.8	98.2	106.0	108.0	288	284		
Jan.	19.1	19.7	4.08	4.04	11.2	10.2	1.6	1.9	1.3	1.7	106.04	108.20	97.9	97.2	104.0	105.5	180	204		
Feb.	19.3	20.0	4.13	4.12	10.6	9.8	2.3	2.4	1.4	1.4	106.88	110.40	96.1	96.1	103.0	106.5	194	126		
Mar.-July	19.4	20.0	4.19	4.09	9.6	9.2	3.3	4.2	1.6	2.3	107.97	110.12	92.2	86.9	100.0	97.0	192	80		

Season	19.2	20.0	4.07	4.11	10.6	9.6	1.5	1.8	1.2	1.3	106.52	109.74	97.9	97.6	104.5	107.5	2,054	1,856		
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GEORGIA

Sept.	18.5	19.4	4.09	4.09	11.4	12.4	1.1	3.6	1.0	0.7	103.79	107.34	98.9	90.3	103.0	96.5	70	114		
Oct.	18.9	19.7	4.10	4.14	10.2	10.1	1.5	3.7	0.8	0.7	105.34	108.85	98.9	92.3	104.5	100.5	972	1,040		
Nov.	18.9	19.5	4.09	4.04	10.7	10.2	1.6	3.8	1.0	1.0	105.15	107.04	98.5	91.3	104.0	98.0	850	1,026		
Dec.	18.9	19.5	4.04	4.04	11.0	10.1	2.0	3.7	1.0	1.2	104.75	107.42	97.8	91.9	102.5	99.0	360	536		
Jan.	18.8	19.1	4.00	4.02	11.5	11.0	2.6	3.9	1.1	1.2	104.28	105.40	95.6	89.3	100.0	95.5	212	228		
Feb.	18.8	19.1	4.09	4.02	11.2	11.3	4.1	4.7	1.1	1.2	104.92	105.99	90.5	86.9	95.0	92.0	154	70		
Mar.-July	18.9	19.3	4.15	4.05	10.0	10.2	4.5	4.3	1.3	1.8	105.28	106.41	86.0	89.7	91.5	95.5	120	60		

Season	18.9	19.5	4.08	4.08	10.6	10.3	1.9	3.8	1.0	0.9	105.05	107.57	97.3	91.4	102.5	98.5	2,738	3,074		
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Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1973 and 1974 (Continued)

FLORIDA

Month	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality							
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	No.	No.		
Oct.	19.1	19.7	3.75	3.95	11.2	10.2	2.9	3.7	0.5	0.9	104.03	107.44	96.6	93.1	100.0	99.5	16	34		
Nov.	18.9	19.0	3.69	3.81	11.9	11.3	2.8	2.2	0.9	1.3	102.73	103.98	94.6	97.7	97.0	101.5	26	22		
Dec.	18.7	19.1	3.79	3.82	12.3	10.7	1.6	1.4	1.4	1.7	102.50	104.17	98.8	99.1	101.5	103.0	20	26		
Jan.	18.7	17.7	3.67	3.96	11.9	12.3	2.9	2.3	1.3	1.9	101.83	99.44	93.5	95.4	95.0	94.5	6	8		
Feb.	16.3	17.7	3.62	4.15	13.6	12.1	6.7	3.8	3.1	2.7	91.88	100.38	76.8	38.7	71.0	56.0	4	4		
Mar.-July	17.2	-	3.77	-	11.6	-	13.2	-	3.1	-	96.25	-	22.5	-	47.5	-	4	-		

Season	18.6	19.1	3.73	3.89	11.9	10.8	3.2	2.6	1.2	1.3	101.96	104.74	91.3	93.7	94.5	99.0	76	94
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ALABAMA

Sept.	16.9	18.1	3.99	4.08	12.1	12.6	4.7	2.4	1.9	1.2	96.81	101.92	81.2	96.0	81.0	98.0	18	50
Oct.	18.0	18.6	3.96	3.77	11.7	10.7	1.2	1.4	1.1	1.1	100.64	102.56	97.6	98.3	99.0	101.0	958	1,252
Nov.	18.3	18.5	3.92	3.77	12.2	11.3	0.9	1.1	1.4	1.6	101.79	101.49	98.6	98.4	100.5	100.0	1,132	1,264
Dec.	18.5	18.3	3.91	3.74	11.8	10.8	1.3	1.0	1.9	1.9	102.56	100.63	98.0	98.2	100.5	99.0	558	684
Jan.	18.1	18.0	3.89	3.73	12.4	11.9	1.9	1.6	1.9	2.1	100.94	99.04	96.2	96.5	97.5	95.5	310	362
Feb.	18.2	17.8	3.91	3.69	12.1	11.8	3.4	1.6	2.0	2.1	101.38	98.17	90.5	94.5	91.5	92.5	188	118
Mar.-July	18.2	18.3	3.98	3.81	11.3	11.0	4.3	4.1	2.2	2.1	101.68	101.34	86.3	87.6	88.5	88.5	234	136

Season	18.2	18.4	3.93	3.80	11.9	11.1	1.5	1.4	1.5	1.6	101.46	101.35	96.6	97.6	98.5	99.0	3,398	3,866
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MISSISSIPPI

Sept.	16.8	16.4	4.01	4.06	12.0	12.7	3.3	3.6	1.1	0.9	96.34	94.98	89.7	90.9	88.5	86.5	80	94
Oct.	17.6	17.5	3.90	3.79	12.2	11.3	0.8	1.2	0.8	0.8	98.69	97.55	98.7	99.2	98.0	97.0	5,726	5,060
Nov.	17.5	17.3	3.87	3.62	12.8	12.6	1.0	0.9	1.0	1.1	98.10	95.83	98.4	96.7	97.0	95.0	4,242	3,840
Dec.	17.0	17.0	3.89	3.62	12.4	11.6	1.8	0.9	1.5	1.5	96.25	94.76	97.0	98.9	93.5	94.0	1,520	2,326
Jan.	16.9	16.7	3.86	3.58	12.7	12.9	2.7	1.6	1.9	1.9	95.03	93.15	93.6	96.7	89.0	90.0	288	484
Feb.	16.8	16.7	3.86	3.65	12.6	13.0	3.2	3.4	1.7	2.4	94.99	93.58	91.9	91.2	87.0	85.0	184	268
Mar.-July	17.3	17.1	3.94	3.69	11.7	11.7	4.5	7.0	1.4	2.5	97.79	95.08	84.5	76.8	85.0	72.5	214	598

Season	17.5	17.3	3.89	3.69	12.4	11.9	1.1	1.4	1.0	1.2	98.01	96.13	97.9	97.6	96.5	94.0	12,254	12,670
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Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1973 and 1974 (Continued)

TENNESSEE

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Grade		No.	
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974
Sept.	16.6	16.2	3.71	3.92	13.8	12.6	3.4	6.0	1.3	1.8	93.00	92.50	89.0	87.5	84.0	77.5	10	2
Oct.	17.3	17.9	3.73	3.63	13.5	11.8	0.8	0.6	1.1	1.1	96.24	98.22	97.7	99.2	94.5	98.0	1,638	904
Nov.	17.7	18.2	3.75	3.54	12.9	12.4	0.8	0.6	1.7	1.5	98.00	98.95	98.2	98.7	96.5	98.0	1,278	1,144
Dec.	18.1	18.1	3.82	3.53	12.4	12.2	1.0	0.5	1.8	1.7	100.43	98.13	98.3	98.7	99.0	97.5	454	730
Jan.	17.9	17.8	3.80	3.49	12.4	12.9	1.3	0.8	1.9	1.9	99.29	97.04	97.8	98.0	97.5	95.5	120	166
Feb.	17.9	17.8	3.76	3.58	12.3	12.8	1.5	2.4	1.8	1.6	99.26	97.39	97.2	94.2	96.5	92.5	46	56
Mar.-July	17.9	18.7	3.89	3.51	12.0	12.1	4.5	4.8	2.0	2.6	99.92	100.74	88.0	84.7	88.0	85.0	44	56

Season	17.6	18.1	3.76	3.56	13.1	12.2	0.9	0.7	1.4	1.5	97.57	98.43	97.8	98.5	96.0	97.5	3,590	3,060
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MISSOURI

Sept.	16.9	17.3	3.96	3.92	10.8	11.1	10.1	4.0	2.3	0.6	95.44	97.17	61.8	89.6	58.0	88.5	8	12
Oct.	16.3	17.3	3.73	3.74	13.8	11.7	1.0	0.6	1.1	1.2	92.72	96.51	96.2	98.9	89.5	96.0	718	916
Nov.	16.6	17.1	3.72	3.63	12.8	12.5	0.7	0.5	1.3	1.6	93.44	94.92	98.6	98.7	92.5	94.0	626	686
Dec.	16.7	16.9	3.76	3.59	13.0	12.6	0.8	0.5	1.6	1.7	94.08	94.06	98.4	98.4	92.5	93.0	144	402
Jan.	17.1	16.8	3.70	3.54	13.0	13.8	1.0	0.9	1.7	2.6	95.59	93.21	98.0	96.3	94.0	90.0	84	114
Feb.	17.1	17.1	3.76	3.62	12.7	12.6	2.6	1.7	1.8	2.2	95.93	95.21	94.1	97.2	90.5	93.0	22	100
Mar.-July	17.2	17.1	3.72	3.64	12.4	12.4	4.4	3.2	1.8	2.2	96.02	95.18	88.5	91.8	82.5	87.0	44	40

Season	16.5	17.1	3.73	3.66	13.2	12.3	1.0	0.7	1.3	1.5	93.40	95.36	97.0	98.4	91.0	94.0	1,646	2,270
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ARKANSAS

Sept.	16.7	15.8	3.92	3.81	13.4	13.7	3.8	4.8	1.2	0.9	96.02	90.00	83.6	86.0	63.5	81.5	22	16
Oct.	16.9	17.3	3.82	3.77	13.3	11.6	0.8	0.9	0.8	0.7	95.29	96.72	98.2	99.3	94.0	96.5	3,524	2,922
Nov.	17.1	17.3	3.60	3.66	13.5	12.8	0.9	0.8	1.0	1.0	95.88	95.89	98.1	98.6	94.5	95.0	3,440	2,966
Dec.	16.8	17.0	3.81	3.61	12.8	12.6	1.5	0.7	1.4	1.2	95.00	94.61	97.8	98.7	93.0	93.5	1,220	2,366
Jan.	16.7	16.9	3.78	3.60	13.2	13.0	2.3	1.2	1.6	1.5	94.27	94.27	95.0	98.0	90.0	92.5	328	620
Feb.	16.8	17.1	3.60	3.59	13.0	12.9	2.7	2.4	1.6	1.8	94.61	94.43	93.7	94.5	89.0	90.0	298	384
Mar.-July	17.0	17.5	3.65	3.63	12.2	12.0	4.6	5.7	1.9	2.2	95.93	96.53	84.4	82.1	82.0	78.5	268	406

Season	16.9	17.2	3.81	3.67	13.3	12.4	1.1	1.1	1.0	1.1	95.44	95.68	97.4	97.9	93.5	94.0	9,100	9,680
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Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1973 and 1974 (Continued)

LOUISIANA

Month	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality							
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	No.	No.
Sept.	17.0	17.2	4.14	3.91	10.5	13.4	7.0	5.4	1.2	0.7	97.82	97.39	74.7	83.7	75.0	80.5	44	210		
Oct.	17.7	18.1	3.79	3.82	12.9	11.5	2.3	3.2	0.6	0.7	98.74	100.39	94.8	93.6	93.5	94.0	1,390	2,278		
Nov.	17.9	18.0	3.84	3.70	13.0	13.1	3.7	2.2	0.7	0.7	99.65	98.99	90.6	96.1	90.0	95.5	1,668	1,146		
Dec.	17.1	18.2	3.84	3.71	12.5	11.5	5.3	2.0	1.0	1.1	96.44	99.83	85.1	96.9	81.0	97.0	740	744		
Jan.	17.3	17.6	3.95	3.64	12.1	12.6	9.3	4.1	1.2	1.4	97.99	97.01	50.8	89.2	60.5	87.0	232	142		
Feb.	17.3	18.1	3.86	3.69	12.0	11.7	7.3	5.9	1.5	1.1	96.74	99.57	76.8	82.2	72.5	82.5	62	76		
Mar.-July	16.6	18.0	3.85	3.68	12.0	11.3	8.8	9.3	2.2	1.7	94.52	98.81	65.1	61.4	66.5	67.5	58	60		
Season	17.6	18.0	3.83	3.77	12.8	12.0	4.0	3.0	0.8	0.8	98.56	99.68	88.1	93.6	87.5	93.5	4,194	4,656		

OKLAHOMA

Oct.	17.8	18.3	4.26	3.98	10.7	10.4	1.7	1.5	1.1	1.4	102.18	102.30	96.8	98.4	99.0	101.0	14	42		
Nov.	18.0	17.8	4.14	4.14	10.9	11.2	0.7	1.2	1.5	1.6	102.19	101.00	98.5	98.6	101.0	100.0	210	128		
Dec.	18.5	17.8	4.11	4.13	9.9	10.3	0.5	1.0	1.6	1.9	103.62	101.01	99.0	98.8	103.0	100.0	866	796		
Jan.	18.8	17.8	4.09	4.08	9.0	10.0	0.6	1.0	1.8	2.3	104.72	100.46	99.0	98.5	104.0	99.0	764	664		
Feb.	18.8	17.6	4.05	4.03	8.6	10.7	0.7	1.5	1.8	2.7	104.58	99.28	98.1	97.0	103.5	97.0	260	224		
Mar.-July	18.4	17.2	4.07	3.95	9.5	11.2	1.0	2.5	2.1	2.7	102.68	97.51	98.2	91.9	101.5	91.0	230	68		
Season	18.6	17.8	4.10	4.09	9.5	10.3	0.6	1.1	1.7	2.1	103.86	100.52	98.8	98.2	103.0	99.0	2,344	1,922		

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and states, 1973 and 1974 (Continued)

TEXAS

Month	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index				Average grade		Samples					
											Quantity		Quality				No.					
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974				
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.	No.					
Aug.	17.7	18.1	3.58	3.82	11.6	8.8	1.7	0.5	1.2	1.0	96.61	100.37	97.9	99.5	95.5	100.0	52	2,400				
Sept.	16.7	16.3	3.84	3.87	11.3	11.2	1.7	1.4	1.7	1.5	94.73	93.38	96.1	97.2	91.0	91.0	524	842				
Oct.	17.0	16.6	3.95	4.10	11.6	10.8	1.8	8.0	1.9	2.0	96.59	95.52	94.4	68.8	91.5	70.0	1,980	1,144				
Nov.	18.7	17.8	4.06	4.01	9.1	9.9	1.2	1.8	1.7	2.0	104.10	99.51	96.2	94.3	101.0	95.0	5,562	1,592				
Dec.	19.3	17.0	4.14	4.02	7.2	8.8	0.8	0.9	2.1	3.2	107.42	96.89	97.6	97.4	105.0	94.5	5,964	5,740				
Jan.	19.3	16.6	4.07	3.97	7.1	9.5	0.7	1.3	2.6	3.6	106.89	94.50	97.5	96.3	104.5	91.5	3,054	2,568				
Feb.	19.1	16.5	4.06	3.96	7.3	10.0	0.9	1.9	2.9	3.6	106.11	94.17	96.9	94.1	103.0	89.0	1,252	888				
Mar.-July	19.0	16.5	4.05	3.94	7.6	9.7	0.9	2.5	2.8	3.9	105.41	93.94	97.0	91.9	102.5	86.5	762	358				
Season	18.8	17.1	4.07	3.97	8.4	9.4	1.1	1.7	2.1	2.7	104.71	96.79	96.7	94.8	102.0	92.5	19,150	15,532				
	NEW MEXICO																					
Oct.	20.0	20.2	3.92	3.61	9.1	12.1	0.4	0.6	0.8	1.0	108.54	107.64	99.9	99.0	108.5	106.5	64	50				
Nov.	19.5	19.7	3.98	3.78	7.3	10.3	0.4	0.4	1.5	1.0	106.95	106.70	99.4	99.6	106.5	106.5	120	258				
Dec.	19.0	19.1	4.08	3.91	6.5	8.5	0.4	0.6	3.1	2.5	105.81	103.76	97.9	98.4	104.0	102.5	102	284				
Jan.	18.8	18.6	3.96	3.83	6.7	9.3	0.4	0.7	3.3	3.0	103.76	102.39	97.9	97.9	102.0	100.5	42	94				
Feb.	18.7	18.0	3.98	3.79	6.7	9.3	0.7	1.1	5.6	4.2	103.97	99.38	95.7	96.4	99.0	96.0	16	60				
Mar.-July	18.2	19.4	4.07	3.86	10.6	8.6	1.1	1.1	7.8	3.1	102.50	106.05	93.7	97.9	96.0	103.5	2	10				
Season	19.3	19.2	4.00	3.83	7.3	9.5	0.4	0.6	2.3	2.1	106.36	104.53	98.7	96.6	105.0	103.5	346	756				
	ARIZONA																					
Oct.	-	18.6	-	3.96	-	9.9	-	0.5	-	1.0	-	103.06	-	99.7	-	103.0	-	32				
Nov.	-	19.1	-	3.94	-	9.5	-	0.5	-	1.4	-	104.68	-	99.4	-	104.0	-	158				
Dec.	-	18.5	-	4.02	-	8.2	-	0.6	-	1.9	-	102.74	-	99.0	-	102.0	-	240				
Jan.	-	18.4	-	3.92	-	8.2	-	0.5	-	2.0	-	102.42	-	98.9	-	101.5	-	44				
Feb.	-	18.1	-	4.04	-	8.1	-	1.3	-	2.8	-	101.83	-	97.3	-	98.5	-	56				
Mar.-July	-	18.3	-	4.09	-	8.1	-	1.0	-	1.4	-	103.00	-	98.4	-	102.0	-	30				
Season	-	18.6	-	3.99	-	8.7	-	0.6	-	1.8	-	103.20	-	98.9	-	102.5	-	560				

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1973 and 1974

NORTH CAROLINA

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1973		1974		No.	
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974
2	Pct. 19.1	Pct. 19.2	Pct. 4.00	Pct. 3.92	Pct. 10.7	Pct. 9.6	Pct. 2.2	Pct. 1.7	Pct. 1.9	Pct. 1.3	105.58	104.50	94.5	99.5	97.5	104.5	12	2		
3	19.2	19.6	3.93	3.73	9.8	9.6	0.7	0.9	1.5	1.8	105.42	106.00	99.1	98.7	104.5	105.0	640	402		
4	19.9	20.1	4.23	3.97	10.2	9.2	0.9	0.8	0.7	1.0	109.66	109.72	99.3	99.4	109.5	109.5	22	18		
5	19.4	20.4	4.02	3.92	10.3	9.2	1.5	2.6	1.3	1.6	107.18	110.00	96.0	93.5	102.5	104.0	22	6		
6	19.3	19.5	4.00	3.71	9.9	9.2	0.7	1.2	1.4	1.8	106.33	105.27	99.5	98.2	106.0	103.0	36	30		
8	19.1	20.0	4.24	4.09	10.6	9.2	0.8	0.8	1.4	1.4	106.85	109.82	98.5	99.4	105.5	109.5	136	114		
9	18.8	19.4	3.99	3.97	10.1	9.7	0.7	1.2	1.2	1.4	104.05	106.83	99.3	98.9	103.5	106.0	716	536		
State	19.0	19.6	3.99	3.89	10.0	9.6	0.7	1.0	1.4	1.5	105.03	106.85	99.1	98.8	104.5	106.0	1,584	1,108		

SOUTH CAROLINA

1	19.1	20.0	4.26	4.09	10.9	9.0	1.0	0.8	0.7	1.1	107.13	109.79	99.1	99.6	106.5	109.5	148	144		
2	19.5	20.5	4.21	4.21	10.5	8.6	1.2	0.6	1.3	1.0	108.68	112.57	97.6	99.7	105.5	112.5	42	36		
3	19.1	19.6	3.98	4.04	10.9	9.8	1.5	1.6	1.4	1.3	105.55	108.05	97.8	98.2	103.5	106.5	674	482		
4	19.3	20.0	4.12	4.10	10.4	9.1	1.5	1.3	0.9	1.2	107.28	109.73	98.0	98.8	105.0	108.5	138	120		
5	19.3	20.1	4.10	4.13	10.4	9.7	1.5	2.1	1.3	1.3	107.06	110.56	98.4	97.2	105.5	107.5	906	926		
8	19.1	19.9	4.06	4.12	11.0	9.6	2.6	2.7	1.3	1.5	105.67	109.47	94.8	94.7	100.0	104.5	146	148		
State	19.2	20.0	4.07	4.11	10.6	9.6	1.5	1.8	1.2	1.3	106.52	109.74	97.9	97.6	104.5	107.5	2,054	1,856		

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1973 and 1974 (Continued)

GEORGIA

Dist. No.	Cottonseed analysis														Average index				Average grade		Samples		
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity				Quality		1973		1974		No.		
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	No.	No.	
1	18.9	19.7	3.91	3.72	11.8	9.8	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	104.17	106.15	98.1	97.3	103.0	104.0	160	184
2	18.8	19.5	4.19	3.96	11.4	10.2	2.4	1.6	1.2	1.1	1.05.03	107.19	93.3	97.9	99.5	105.03	107.19	93.3	97.9	99.5	105.5	60	56
3	18.9	20.0	4.20	4.08	10.8	9.3	1.2	1.0	0.8	1.2	1.05.58	108.70	99.0	99.1	104.5	108.0	104.5	108.0	99.1	104.5	108.0	60	62
4	18.9	19.2	4.12	4.03	10.6	10.5	2.1	3.4	0.8	0.8	1.05.29	105.72	97.0	92.9	102.5	99.0	105.29	105.72	97.0	92.9	102.5	196	192
5	18.6	19.5	4.15	4.12	10.4	10.2	1.6	3.3	1.0	0.9	1.04.42	107.85	98.6	93.5	103.0	101.0	104.42	107.85	98.6	93.5	103.0	668	694
6	19.1	19.8	4.02	4.15	10.8	9.8	2.5	2.5	1.0	1.2	1.05.55	109.26	95.3	96.1	100.5	105.0	1.05.55	109.26	95.3	96.1	100.5	346	320
7	18.9	19.4	4.08	4.03	10.8	10.3	2.9	3.9	1.1	0.9	1.05.24	106.82	95.0	91.2	100.0	97.5	1.05.24	106.82	95.0	91.2	100.0	350	400
8	19.0	19.5	4.06	4.12	10.3	10.7	1.7	5.0	0.8	0.8	1.05.35	107.66	98.3	87.2	104.0	94.0	1.05.35	107.66	98.3	87.2	104.0	886	1,148
9	19.3	20.2	3.67	3.87	11.7	11.0	5.2	5.9	1.2	0.6	1.04.58	109.31	88.0	82.1	89.0	90.0	1.04.58	109.31	88.0	82.1	89.0	12	18
State	18.9	19.5	4.08	4.08	10.6	10.3	1.9	3.8	1.0	0.9	105.05	107.57	97.3	91.4	102.5	98.5	105.05	107.57	97.3	91.4	102.5	2,738	3,074

ALABAMA

1	18.1	18.1	3.82	3.58	12.2	11.4	1.1	0.8	1.6	1.4	100.25	98.87	97.9	98.8	98.5	98.0	100.25	98.87	97.9	98.8	98.5	366	380
2	18.2	18.3	3.89	3.72	12.2	11.0	1.2	0.8	1.7	1.7	101.18	100.24	96.9	98.5	98.5	99.0	101.18	100.24	96.9	98.5	98.5	1,362	1,516
3	18.3	18.7	3.93	3.71	12.2	10.6	1.6	1.0	1.5	1.5	101.54	102.15	96.0	98.9	98.5	101.5	101.54	102.15	96.0	98.9	98.5	410	488
4	18.4	18.3	3.86	3.83	11.8	11.4	1.7	1.8	1.4	1.3	101.54	101.13	97.1	97.4	99.0	98.5	101.54	101.13	97.1	97.4	99.0	300	320
5	18.2	18.6	4.10	4.03	11.4	11.4	1.7	2.6	1.3	1.5	102.54	103.72	96.8	95.2	99.5	99.0	102.54	103.72	96.8	95.2	99.5	522	640
6	17.9	18.4	4.12	4.01	11.3	11.0	1.8	1.8	1.2	1.4	101.47	102.69	96.4	98.1	98.0	101.0	101.47	102.69	96.4	98.1	98.0	194	234
7	17.8	18.8	4.03	3.97	11.5	11.9	3.8	3.3	0.8	0.8	100.05	104.30	92.4	93.6	93.5	98.0	100.05	104.30	92.4	93.6	93.5	20	20
8	18.7	18.7	3.81	3.88	11.7	10.9	3.1	2.5	1.6	2.1	102.63	102.96	93.1	95.5	96.0	99.0	102.63	102.96	93.1	95.5	96.0	198	234
9	18.0	18.4	4.02	4.16	12.2	11.9	3.3	3.5	1.6	1.1	101.37	103.34	91.4	92.7	91.5	96.5	101.37	103.34	91.4	92.7	91.5	26	34
State	18.2	18.4	3.93	3.80	11.9	11.1	1.5	1.4	1.5	1.6	101.46	101.35	96.6	97.6	98.5	99.0	101.46	101.35	96.6	97.6	98.5	3,398	3,866

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1973 and 1974 (Continued)

MISSISSIPPI

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples			
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1973		1974		1973		1974	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1973	1974	1973	1974	1973	1974	No.	No.	1973	1974		
1	17.2	16.6	3.89	3.66	12.5	12.2	1.0	1.5	1.1	1.3	96.84	93.33	96.0	97.2	95.5	91.0	4,048	3,786				
2	17.6	17.6	3.77	3.55	12.5	12.0	0.9	0.8	1.3	1.3	97.69	96.73	96.5	98.6	96.5	95.5	1,530	1,624				
3	18.3	18.4	3.74	3.48	12.8	11.9	1.0	0.7	1.4	1.5	100.47	99.33	97.9	98.7	98.5	98.5	724	734				
4	17.4	17.3	3.94	3.75	12.4	11.8	1.1	1.7	0.9	1.1	98.06	96.69	98.1	97.1	96.5	94.0	4,046	4,352				
5	17.8	17.5	3.94	3.86	12.2	11.7	1.7	1.3	0.9	1.0	99.66	98.10	97.2	98.6	97.0	97.0	1,252	1,340				
6	18.0	17.9	3.84	3.69	12.2	11.4	1.3	1.0	1.1	0.9	100.15	98.65	97.4	99.0	98.0	98.0	334	352				
7	17.6	17.7	3.99	3.84	12.3	11.5	3.0	2.0	0.8	0.9	99.48	98.84	93.1	97.1	93.0	96.5	238	368				
8	17.6	17.5	3.99	3.88	12.6	11.6	3.6	2.6	1.3	1.2	98.93	98.16	90.2	96.1	89.5	93.5	60	80				
9	18.2	17.8	3.84	3.80	11.9	11.3	2.6	2.7	1.7	1.0	100.73	99.38	92.7	95.8	93.5	95.5	22	34				
State	17.5	17.3	3.89	3.69	12.4	11.9	1.1	1.4	1.0	1.2	98.01	96.13	97.9	97.6	96.5	94.0	12,254	12,670				

TENNESSEE

1	17.4	17.8	3.74	3.60	13.1	12.3	1.1	0.8	1.3	1.4	96.80	97.58	97.6	98.3	95.0	96.5	1,154	1,026		
2	17.6	18.2	3.76	3.53	13.1	12.2	0.8	0.6	1.5	1.5	97.69	98.83	97.9	98.6	96.0	97.5	2,312	1,896		
3	18.3	18.1	3.79	3.60	12.2	12.0	1.0	0.8	1.9	1.9	100.76	98.67	98.3	97.9	99.0	96.5	54	56		
4	18.7	18.0	3.86	3.70	12.0	10.9	0.9	0.6	1.3	1.4	103.29	99.35	98.5	99.0	102.0	99.0	54	68		
5	19.6	18.8	3.86	3.73	11.2	10.8	1.4	0.6	1.4	2.5	106.13	102.29	98.5	98.2	105.5	101.0	16	14		
State	17.6	18.1	3.76	3.56	13.1	12.2	0.9	0.7	1.4	1.5	97.57	98.43	97.8	98.5	96.0	97.5	3,590	3,060		

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1973 and 1974 (Continued)

ARKANSAS

Dist. No.	Cottonseed analysis												Average index		Average grade		Samples			
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1973	1974	1973	1974	No.	No.
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974						
2	Pct. 16.7	Pct. 3.77	Pct. 13.6	Pct. 2.7	Pct. -	Pct. 3.6	Pct. 92.50	Pct. -	Pct. 91.2	Pct. -	Pct. 87.5	Pct. -	Pct. 87.5							2
3	16.3	3.79	13.7	1.0	0.8	1.1	92.93	1.2	96.3	97.3	90.5	94.0	94.0	2,862	3,588					
4	17.6	3.69	12.5	1.0	0.9	1.1	97.73	1.7	98.7	99.0	97.0	97.5	97.5	44	40					
5	17.4	3.72	13.1	1.4	1.0	1.3	96.80	1.1	96.6	96.7	94.5	97.5	97.5	132	102					
6	16.9	3.85	13.1	1.1	1.1	1.0	95.69	1.0	96.1	97.7	94.0	93.5	93.5	3,570	3,430					
7	17.7	3.76	12.5	3.1	3.1	0.8	96.29	1.0	93.3	93.3	92.0	92.0	92.0	128	152					
8	18.1	3.74	13.0	2.6	2.2	0.7	99.82	0.5	90.2	97.2	93.0	95.5	95.5	28	22					
9	17.6	3.79	13.1	1.3	1.5	0.9	97.78	1.0	97.5	97.3	95.5	95.0	95.0	2,336	2,344					
State	16.9	3.81	13.3	1.1	1.1	1.0	95.44	1.1	97.4	97.4	93.5	94.0	94.0	9,100	9,680					

LOUISIANA

1	17.9	3.81	12.5	3.9	4.3	0.7	99.37	0.7	90.8	90.8	90.0	90.0	90.0	402	380					
2	17.8	3.99	12.0	7.7	3.0	0.9	100.33	0.9	64.0	64.0	71.0	95.5	95.5	366	276					
3	17.5	3.86	13.0	2.8	2.2	0.8	98.16	0.8	93.1	93.1	91.5	96.0	96.0	2,458	2,824					
4	18.0	3.76	13.0	5.6	5.5	1.1	99.65	0.8	84.5	84.5	83.0	86.0	86.0	154	182					
5	17.8	3.70	12.6	5.5	4.3	0.9	98.30	0.8	83.5	83.5	82.0	89.0	89.0	766	948					
7	17.8	3.70	13.5	6.9	5.8	0.6	98.34	0.9	78.6	84.7	74.5	86.0	86.0	22	18					
8	18.2	3.63	13.2	9.0	3.6	0.7	99.90	0.9	72.3	91.6	69.5	94.5	94.5	26	28					
State	17.6	3.83	12.8	4.0	3.0	0.8	98.56	0.8	88.1	93.6	87.5	93.5	93.5	4,194	4,656					

Table 5. Cottonseed: Quality factors, indexes and grades, by crop-reporting districts and states, 1973 and 1974 (Continued)

OKLAHOMA

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1973		1974		No.	
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	No.	No.
3	17.9	19.2	3.77	4.07	11.4	10.6	0.8	1.4	5.2	1.3	98.38	106.25	95.3	99.5	95.0	106.0	12	2		
4	18.2	17.2	4.12	4.13	9.7	10.4	0.5	1.0	1.9	2.8	102.42	98.19	99.0	98.1	101.5	97.0	534	436		
5	18.4	17.8	4.11	4.06	10.1	10.6	0.8	1.4	1.8	2.5	103.14	100.25	98.9	96.9	102.5	98.5	272	292		
6	18.3	19.1	3.70	3.75	12.8	11.6	1.3	1.5	1.5	1.4	100.30	104.40	96.7	99.1	98.0	103.5	28	24		
7	18.8	18.0	4.10	4.09	9.3	10.1	0.6	1.0	1.6	1.8	104.68	101.49	99.0	98.9	104.0	100.5	1,418	1,106		
8	18.6	17.3	3.98	4.15	9.4	11.3	2.1	3.3	2.0	1.8	103.25	99.03	95.1	92.4	98.5	91.5	78	56		
9	19.2	17.5	3.47	3.92	9.6	11.2	2.7	3.8	3.6	1.3	103.50	99.33	93.7	93.1	96.0	91.5	2	6		
State	18.6	17.8	4.10	4.09	9.5	10.3	0.6	1.1	1.7	2.1	103.86	100.52	98.8	98.2	103.0	99.0	2,344	1,922		

TEXAS

1	19.5	16.7	4.11	3.98	7.3	9.1	0.4	0.9	2.1	3.6	108.11	95.31	98.8	97.0	107.0	92.5	11,844	7,712			
2	18.4	17.2	4.06	4.06	8.3	9.4	0.6	1.5	2.1	2.1	102.96	97.93	98.8	97.8	102.0	96.0	3,746	2,356			
3	18.4	17.1	4.05	4.12	8.9	10.2	0.6	1.7	1.6	1.5	103.20	98.09	99.4	98.6	102.5	97.0	110	64			
4	16.5	16.0	3.99	4.15	11.5	10.0	3.0	5.3	2.5	2.1	94.72	93.57	91.3	79.3	86.0	77.5	2,358	1,492			
5	16.8	16.9	3.96	3.98	13.1	11.7	6.4	7.1	1.5	1.4	96.17	95.56	78.0	76.0	77.0	73.5	228	402			
6	-	19.7	-	3.86	-	9.6	-	1.6	-	2.6	-	104.88	-	95.8	-	101.0	-	592	-		
7	16.8	17.5	4.07	4.13	9.2	9.3	0.8	1.9	2.0	1.9	96.48	99.54	98.9	97.7	96.0	97.5	226	264			
8	16.9	17.9	3.69	3.82	12.9	9.1	5.7	1.4	2.2	1.1	94.38	99.63	73.4	96.4	75.0	96.5	242	684			
9	17.2	17.6	3.63	3.53	14.3	12.6	6.9	2.9	1.4	0.9	95.41	96.57	70.2	87.6	71.0	88.0	378	478			
10	16.6	18.3	3.77	3.83	14.1	8.7	4.3	4.3	2.0	0.9	93.28	101.20	83.6	99.7	81.5	101.0	18	1,488			
State	18.8	17.1	4.07	3.97	8.4	9.4	1.1	1.7	2.1	2.7	104.71	96.79	96.7	94.8	102.0	92.5	19,150	15,532			

NEW MEXICO

3	18.6	17.2	4.05	3.99	6.8	8.4	0.4	0.5	2.9	3.4	104.01	97.94	98.1	97.6	102.0	95.5	72	52			
7	-	20.0	-	3.85	-	8.9	-	0.5	-	1.9	-	106.87	-	98.9	-	106.0	-	46	-		
9	19.5	19.3	3.98	3.81	7.4	9.6	0.4	0.6	2.1	2.0	106.98	104.89	98.8	98.7	106.0	103.5	274	658			
State	19.3	19.2	4.00	3.83	7.3	9.5	0.4	0.6	2.3	2.1	106.36	104.53	98.7	98.6	105.0	103.5	346	756			

ARIZONA

5	-	18.1	-	4.01	-	8.4	-	0.6	-	1.8	-	101.47	-	98.9	-	100.5	-	340	-		
9	-	19.5	-	3.97	-	9.0	-	0.7	-	1.7	-	105.88	-	99.0	-	105.0	-	220	-		
State	-	18.6	-	3.99	-	8.7	-	0.6	-	1.8	-	103.20	-	98.9	-	102.5	-	560	-		

Table 6. Percentage distribution of quantity index by specified frequencies, by states and United States, 1973 and 1974

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		
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ala.	0.1	-	-	0.1	-	-	-	0.1	0.1	-	0.5	0.5	2.8	5.1	25.7	27.3	58.3	49.9	12.5	17.0	100.0
Miss.	-	0.1	-	*	0.1	0.1	0.1	0.1	0.6	0.9	2.7	7.8	17.1	26.9	45.2	43.5	31.0	18.7	3.3	1.9	100.0
Tenn.	-	-	-	-	-	-	-	0.1	0.1	-	2.3	0.9	23.2	13.9	45.1	50.5	26.3	31.3	3.0	3.3	100.0
Mo.	-	0.1	0.1	-	0.1	-	-	-	1.3	0.5	15.3	6.3	46.1	35.7	32.5	45.9	4.3	11.2	0.3	0.3	100.0
Ark.	-	-	*	-	0.1	*	0.2	0.2	1.5	1.2	9.1	7.5	31.8	30.8	40.8	43.9	15.4	15.8	1.1	0.6	100.0
Ia.	-	-	-	-	*	-	-	*	0.2	0.1	2.6	0.7	15.6	7.9	40.8	41.6	36.6	44.0	4.2	5.7	100.0
Okla.	-	-	-	-	-	0.1	-	-	0.2	0.2	1.1	1.1	1.5	5.5	7.0	29.9	55.4	55.2	35.9	8.0	100.0
Tex.	-	0.1	-	0.1	-	0.3	*	0.8	0.2	3.2	1.6	8.6	8.0	21.7	12.7	32.6	19.2	23.8	58.3	8.8	100.0
N. Mex.	-	-	-	-	-	-	-	0.3	0.6	0.5	-	1.1	0.6	4.0	4.7	14.0	23.7	28.3	70.4	51.8	100.0
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	-	22.9	-	46.0	-	29.3	100.0
All other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0	-	20.0	80.0	60.0	20.0	100.0
U. S.	*	0.1	*	*	0.1	0.1	0.3	0.5	1.2	3.1	5.4	14.2	19.1	26.8	34.7	27.7	25.1	27.6	14.0	100.0	100.0

* Less than 0.05 percent.

Table 7. Percentage distribution of quality index by specified frequencies, by states and United States, 1973 and 1974

State	Quality Index														Total					
	Below grade		Below prime quality										Prime quality 100		1973	1974				
	1973	1974	40.0-49.9	50.0-59.9	70.0-79.9	80.0-84.9	85.0-89.9	90.0-94.9	95.0-99.9	Pct.	Pct.	1973	1974	Pct.			Pct.			
N. C.	-	-	0.2	0.4	0.4	0.2	-	0.7	0.3	0.7	0.8	1.4	58.7	62.7	39.4	34.1	100.0	100.0		
S. C.	-	0.1	-	1.1	0.8	1.1	0.6	0.5	0.8	2.0	2.4	4.5	8.5	55.0	56.1	35.8	30.7	100.0	100.0	
Ga.	0.1	0.1	0.1	0.9	2.0	1.3	6.0	1.9	7.6	2.8	18.2	7.3	24.6	43.2	36.3	42.4	5.1	100.0	100.0	
Fla.	2.6	2.1	2.6	-	5.3	-	4.3	-	2.1	5.3	4.3	10.6	12.8	65.7	70.1	7.9	4.3	100.0	100.0	
Ala.	0.3	0.1	0.5	0.1	1.5	0.5	1.2	0.9	1.1	0.9	2.2	1.9	5.1	6.7	69.6	68.7	18.5	20.2	100.0	100.0
Miss.	0.2	0.1	0.1	0.3	0.6	1.3	0.7	1.3	0.7	0.9	1.1	1.0	4.2	3.0	65.2	57.9	27.2	34.2	100.0	100.0
Tenn.	-	-	0.1	0.1	0.2	0.2	0.3	0.4	0.2	0.4	0.6	0.3	2.9	1.6	86.1	78.6	9.6	18.4	100.0	100.0
Mo.	0.2	-	0.4	-	1.0	0.4	0.4	0.2	0.6	0.4	1.5	0.5	2.2	2.5	84.1	78.6	9.6	17.4	100.0	100.0
Ark.	0.1	*	*	0.4	0.8	0.8	0.8	0.8	0.6	0.8	1.5	1.2	5.8	3.7	75.1	62.5	15.7	30.2	100.0	100.0
La.	2.1	0.3	0.8	0.3	4.7	1.5	9.1	4.8	8.1	4.9	12.6	9.5	19.6	16.1	33.5	45.9	9.5	16.7	100.0	100.0
Okla.	0.1	0.1	-	0.3	0.2	0.3	0.4	0.3	0.1	0.3	0.9	1.4	2.7	72.9	77.8	24.4	17.8	100.0	100.0	
Tex.	0.5	1.0	0.3	0.4	1.3	3.1	1.6	1.9	1.3	1.2	2.0	1.6	3.6	8.3	71.8	66.1	17.6	16.4	100.0	100.0
N. Mex.	-	-	-	-	-	-	-	-	-	-	-	-	4.6	7.7	62.4	54.5	33.0	37.8	100.0	100.0
Ariz.	-	-	-	-	-	-	-	-	-	-	0.4	-	4.3	-	59.2	-	36.1	100.0	100.0	100.0
All other	-	-	-	-	-	-	-	-	-	-	-	-	6.7	-	60.0	100.0	33.3	-	100.0	100.0
U. S.	0.4	0.3	0.2	0.2	1.1	1.5	1.5	1.7	1.4	1.5	2.3	2.7	5.2	6.9	67.3	61.8	20.6	23.4	100.0	100.0

* Less than 0.05 percent.

Table 8. Percentage distribution of grades by specified frequencies, by states and United States, 1973 and 1974

State	Below grade		Grade												Total										
	00.0-39.9		40.0-74.9		75.0-79.9		80.0-84.9		85.0-89.9		90.0-94.9		95.0-99.9		100.0		105.0		110.0 and over						
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974			
N. C.	-	-	0.5	0.2	0.1	0.2	0.1	-	0.4	1.6	1.1	4.8	4.2	47.7	31.7	42.0	49.9	3.2	12.3	100.0	100.0				
S. C.	-	-	1.0	0.6	0.6	0.2	0.5	0.5	0.7	0.5	1.7	1.3	5.9	3.3	33.0	15.7	50.2	46.5	6.4	31.4	100.0	100.0			
Ga.	0.1	0.1	1.3	2.0	0.6	1.2	0.8	3.8	2.1	6.7	2.9	14.3	9.8	20.0	41.1	25.1	40.0	21.9	1.3	4.9	100.0	100.0			
Fla.	2.6	2.1	7.9	-	-	2.1	5.3	2.1	2.6	6.4	5.2	2.1	21.1	23.4	47.4	49.0	7.9	12.8	-	-	100.0	100.0			
Ala.	0.4	0.1	2.6	1.1	0.5	0.5	1.3	1.0	2.6	2.7	7.9	9.4	29.9	31.6	46.2	42.0	8.5	11.3	0.1	0.3	100.0	100.0			
Miss.	0.2	0.2	1.3	2.7	0.8	1.6	1.9	2.9	6.4	10.6	20.6	27.2	39.8	37.0	26.1	16.0	2.9	1.8	-	-	100.0	100.0			
Tenn.	-	-	0.6	0.6	0.2	0.2	1.3	0.4	9.7	3.5	27.6	18.6	38.8	48.6	19.6	26.0	2.2	2.0	-	0.1	100.0	100.0			
Mo.	0.7	-	1.7	0.6	1.7	0.5	5.0	2.2	24.4	12.6	39.6	35.6	24.1	39.0	2.6	9.2	0.2	0.1	-	0.2	100.0	100.0			
Ark.	0.1	*	1.3	1.5	1.5	1.0	4.9	3.4	15.8	11.3	30.6	31.3	33.1	38.2	11.6	12.7	1.1	0.6	-	*	100.0	100.0			
Ia.	2.1	0.3	11.5	3.6	6.0	3.6	10.6	5.8	15.2	9.3	18.8	21.3	20.0	34.1	14.1	19.7	1.7	2.3	-	-	100.0	100.0			
Okla.	-	-	0.4	0.5	0.3	0.4	0.2	0.7	0.8	2.4	1.2	10.6	12.1	32.7	53.6	46.6	30.4	6.1	1.0	-	-	100.0	100.0		
Tex.	0.5	1.1	2.7	5.8	1.4	3.2	2.2	6.1	3.7	11.3	6.9	20.8	9.1	26.8	21.8	18.1	38.2	5.6	13.5	1.2	100.0	100.0			
N. Mex.	-	-	-	0.3	0.6	0.5	-	0.8	1.2	4.0	1.2	7.6	11.0	13.5	27.7	24.6	46.1	32.8	12.2	15.9	100.0	100.0			
Ariz.	-	-	-	-	-	-	-	-	-	2.5	-	5.0	-	22.1	-	44.3	-	18.6	-	7.5	100.0	100.0			
All other	-	-	-	-	-	-	-	-	-	-	-	-	20.0	20.0	33.4	60.0	39.9	20.0	6.7	-	100.0	100.0			
U. S.	0.4	0.4	2.4	2.8	1.3	1.7	2.8	3.5	7.2	8.9	15.3	21.6	22.5	31.7	24.5	20.3	19.0	7.1	4.6	2.0	100.0	100.0			

* Less than 0.05 percent.

Table 9. Percentage distribution of oil by specified frequencies, by states and United States, 1973 and 1974

State	Oil																								Total	
	Under 15.0		15.0-15.9		16.0-16.4		16.5-16.9		17.0-17.4		17.5-17.9		18.0-18.4		18.5-18.9		19.0-19.9		20.0-20.9		21.0 and over		1973	1974		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.			Pct.	Pct.
N. C.	-	-	-	0.3	-	0.9	-	1.0	0.5	3.5	1.3	13.9	3.6	24.7	12.6	47.6	52.0	8.1	27.7	-	2.3	100.0	100.0			
S. C.	-	-	-	-	-	0.2	0.1	0.7	0.1	1.9	0.2	8.4	0.5	20.0	4.3	56.7	44.3	11.9	44.1	0.2	6.4	100.0	100.0			
Ga.	0.1	-	0.1	0.1	-	0.2	0.3	2.1	0.3	6.3	1.4	16.0	4.6	28.3	12.6	42.1	54.2	4.8	24.6	-	1.9	100.0	100.0			
Fla.	-	-	2.6	-	-	-	-	10.5	4.3	5.3	6.4	23.8	6.4	18.4	19.1	28.9	46.7	10.5	17.1	-	-	100.0	100.0			
Ala.	0.2	0.1	0.6	0.7	0.9	1.1	2.9	3.4	8.1	6.8	19.7	13.6	28.1	22.7	24.0	25.8	14.9	24.0	0.6	1.7	-	0.1	100.0	100.0		
Miss.	1.8	2.1	6.1	9.8	7.6	9.8	13.1	15.5	18.4	18.5	19.9	17.4	16.8	12.7	10.7	8.3	5.5	5.5	0.1	0.4	*	-	100.0	100.0		
Tenn.	0.7	0.1	3.0	1.1	7.7	1.8	14.4	6.2	19.5	12.5	21.1	21.3	16.1	25.1	10.3	18.4	6.9	12.8	0.3	0.6	-	0.1	100.0	100.0		
Mo.	4.0	0.8	19.9	6.1	18.6	12.2	25.5	20.9	17.9	25.7	8.9	18.2	3.8	10.7	1.0	4.2	0.4	1.1	-	-	-	0.1	100.0	100.0		
Ark.	4.3	1.8	13.7	8.2	14.0	9.8	16.9	17.5	17.4	20.7	15.6	18.4	11.2	13.4	4.6	7.1	2.2	3.0	0.1	0.1	-	*	100.0	100.0		
La.	1.1	0.2	5.3	1.9	6.8	2.4	9.7	7.1	17.1	14.4	18.5	18.3	18.2	21.1	14.3	18.4	8.3	15.4	0.7	0.8	-	*	100.0	100.0		
Okla.	0.1	0.7	0.7	2.1	0.6	4.0	1.4	7.4	3.4	13.9	11.3	27.2	23.4	27.8	28.2	12.7	28.6	4.2	2.1	-	0.2	-	100.0	100.0		
Tex.	0.9	9.7	3.9	13.6	4.4	9.9	5.6	11.9	5.4	14.3	4.9	13.9	7.3	9.5	10.3	6.8	36.7	7.1	18.9	2.1	1.7	1.2	100.0	100.0		
N. Mex.	0.6	1.6	0.6	2.4	-	1.1	-	2.6	2.3	5.8	4.0	5.8	11.6	6.6	11.0	10.3	47.9	29.4	16.8	21.4	5.2	13.0	100.0	100.0		
Ariz.	-	-	-	0.7	-	1.8	-	3.9	-	7.9	-	16.1	-	18.9	-	17.1	-	16.8	-	9.3	-	7.5	-	100.0		
All other	-	-	-	-	-	-	-	-	13.3	-	6.7	-	6.7	-	6.7	60.0	66.6	40.0	-	-	-	-	100.0	100.0		
U. S.	1.5	3.3	5.5	7.4	6.3	7.1	9.1	11.2	11.3	14.4	12.3	15.2	13.3	13.3	12.5	10.4	20.7	12.5	6.9	4.3	0.6	0.9	100.0	100.0		

* Less than 0.05 percent.

Table 10. Percentage distribution of ammonia by specified frequencies, by states and United States, 1973 and 1974

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.	Pct.	
N. C.	-	-	-	-	0.1	0.2	0.6	3.6	4.8	18.2	18.2	24.9	3.70-3.84	3.85-3.99	4.00-4.14	4.15 and over	20.7	15.5	100.0	100.0		
S. C.	-	-	-	-	-	0.1	-	0.2	1.7	1.0	10.7	4.0	25.8	17.2	26.7	37.3	35.1	40.2	100.0	100.0		
Ga.	-	-	0.1	-	0.1	-	0.3	0.1	1.1	2.3	4.3	7.1	9.5	21.3	18.5	33.3	25.8	35.8	40.4	100.0	100.0	
Fla.	-	-	-	-	-	-	-	13.2	4.3	36.8	8.5	26.3	40.3	15.8	21.3	5.3	12.8	2.6	12.8	100.0	100.0	
Ala.	-	-	0.1	-	0.3	0.1	3.1	1.3	9.2	9.0	22.8	25.1	27.0	30.2	17.6	20.8	11.0	13.5	8.9	100.0	100.0	
Miss.	-	*	0.1	-	1.0	0.2	6.8	2.1	15.5	10.4	28.3	25.4	24.6	34.7	15.2	22.8	6.6	4.4	1.9	100.0	100.0	
Tenn.	-	0.1	-	0.1	-	2.2	0.4	15.7	5.4	30.3	28.5	30.8	40.3	14.4	20.4	5.8	4.3	0.5	0.7	0.1	100.0	100.0
Mo.	-	-	-	-	0.7	0.4	2.8	7.0	18.1	33.5	38.1	40.5	29.0	16.9	8.5	1.3	2.5	0.4	0.3	100.0	100.0	
Ark.	*	-	0.1	-	0.4	0.4	4.0	3.5	16.9	18.4	35.3	36.9	27.2	29.9	13.6	10.0	2.4	0.9	0.1	100.0	100.0	
Ia.	-	*	0.2	0.1	0.2	1.6	1.7	4.6	10.1	15.9	24.9	28.8	30.1	28.3	20.7	16.0	8.2	4.4	4.0	100.0	100.0	
Okla.	-	0.1	-	-	-	0.2	-	0.8	0.2	0.7	1.0	2.6	4.9	16.1	16.9	43.7	38.4	35.9	38.5	100.0	100.0	
Tex.	*	-	*	0.1	0.3	0.2	0.8	0.9	2.2	2.3	5.7	7.4	15.2	20.7	27.5	33.2	29.7	35.2	18.6	100.0	100.0	
N. Mex.	-	-	0.3	-	0.3	-	0.3	1.2	4.0	3.5	18.0	14.5	29.9	31.7	31.9	28.3	11.6	20.8	3.7	100.0	100.0	
Ariz.	-	-	-	-	-	-	-	-	-	-	3.2	-	16.4	-	26.8	-	36.4	-	17.2	100.0	100.0	
All other	-	-	-	-	-	-	-	20.0	-	60.0	13.3	20.0	26.7	-	33.3	-	26.7	-	100.0	100.0		
U. S.	*	*	0.1	0.1	0.5	0.3	3.5	2.1	10.2	9.9	20.1	20.6	20.8	26.0	18.6	23.4	15.1	17.6	11.1	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, 1973

State	Moisture											Total			
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0	5.1	7.1	9.1	10.1	11.1	12.1	14.1		16.1	18.1	20.1 and over
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
N. C.	93.8	6.2	-	-	-	22.6	33.9	25.4	11.9	5.6	0.4	0.1	0.1	-	100.0
S. C.	85.9	14.1	-	-	-	9.5	26.6	32.3	17.5	12.1	1.8	0.2	-	-	100.0
Ga.	86.5	13.4	0.1	-	-	11.4	24.9	30.6	19.6	12.2	1.0	0.1	0.1	0.1	100.0
Fla.	55.3	44.7	-	-	-	-	10.5	21.1	23.7	36.8	5.3	2.6	-	-	100.0
Ala.	58.1	41.8	0.1	-	-	0.7	5.4	21.7	30.3	33.7	7.4	0.5	0.2	0.1	100.0
Miss.	45.1	54.7	0.2	-	-	0.2	3.4	15.3	26.2	41.3	10.4	2.5	0.5	0.2	100.0
Tenn.	29.9	70.1	-	-	-	-	0.8	7.4	21.7	43.8	22.1	4.0	0.2	-	100.0
Mo.	22.7	77.2	0.1	-	-	-	1.2	5.5	16.0	50.8	20.9	5.0	0.5	0.1	100.0
Ark.	23.8	76.2	*	-	-	*	0.4	5.0	18.4	49.6	20.4	5.4	0.8	*	100.0
La.	37.0	62.6	0.4	-	-	0.1	2.3	11.6	23.0	42.6	15.6	3.6	0.8	0.4	100.0
Okla.	96.0	3.9	0.1	-	-	1.0	38.5	32.1	18.0	6.4	3.2	0.2	-	0.1	100.0
Tex.	92.5	7.4	0.1	0.1	33.9	37.8	10.6	6.1	4.0	4.4	2.0	0.7	0.3	0.1	100.0
N. Mex.	100.0	-	-	-	52.7	35.2	9.2	2.9	-	-	-	-	-	-	100.0
All other	86.6	13.4	-	-	-	33.3	39.9	6.7	6.7	13.4	-	-	-	-	100.0
U. S.	61.9	38.0	0.1	*	10.7	14.7	8.6	11.9	16.0	26.5	9.0	2.1	0.4	0.1	100.0

* Less than 0.05 percent.

Table 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by states and United States, 1974

State	Moisture														
	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	Total
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
N. C.	97.8	2.2	-	-	-	33.9	37.6	20.9	5.4	1.6	0.6	-	-	-	100.0
S. C.	95.8	4.2	-	0.1	38.5	32.0	17.0	8.2	3.2	0.9	0.1	-	-	-	100.0
Ga.	89.8	10.2	-	-	15.3	34.3	25.8	14.4	8.4	1.4	0.3	0.1	-	-	100.0
Fla.	80.8	19.2	-	-	10.6	14.9	29.8	25.5	19.2	-	-	-	-	-	100.0
Ala.	80.8	19.2	-	0.1	1.7	17.7	36.0	25.3	16.6	2.0	0.5	0.1	-	-	100.0
Miss.	60.4	39.6	*	-	0.3	5.3	24.1	30.7	31.9	6.6	0.9	0.2	*	-	100.0
Tenn.	48.6	51.4	-	-	0.1	1.4	15.6	31.5	44.4	6.2	0.7	0.1	-	-	100.0
Mo.	47.6	52.4	-	0.1	0.3	3.1	16.9	27.2	41.9	9.0	1.1	0.4	-	-	100.0
Ark.	46.0	53.8	0.2	*	0.1	2.5	14.6	28.8	41.1	10.8	1.7	0.2	0.2	0.2	100.0
Ia.	58.5	41.4	0.1	-	0.3	6.7	23.5	28.0	29.7	10.1	1.4	0.2	0.1	0.1	100.0
Okla.	92.8	7.1	0.1	-	11.4	36.5	30.6	14.3	5.5	1.1	0.4	0.1	0.1	0.1	100.0
Tex.	93.1	6.7	0.2	0.1	1.5	25.9	11.0	5.7	4.5	1.6	0.4	0.2	0.2	0.2	100.0
N. Mex.	94.4	5.6	-	-	0.5	19.6	15.3	11.1	3.7	1.9	-	-	-	-	100.0
Ariz.	97.9	2.1	-	-	3.2	14.3	7.1	2.9	2.1	-	-	-	-	-	100.0
All other	40.0	60.0	-	-	-	-	20.0	20.0	40.0	20.0	-	-	-	-	100.0
U. S.	71.5	28.4	0.1	*	0.5	17.4	14.5	18.8	20.3	22.2	5.2	0.8	0.2	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, 1973

State	Free fatty acids													Total	
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0	0.5	1.0	1.5	1.9	3.0	5.0	7.0	9.0	11.0		12.5 and over
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
N. C.	97.2	2.7	0.1	23.0	67.5	4.9	1.8	1.2	0.7	-	0.3	0.5	-	0.1	100.0
S. C.	79.8	20.2	-	4.5	31.5	31.3	12.5	11.6	5.4	1.6	0.4	0.6	0.6	-	100.0
Ga.	66.5	33.1	0.4	0.8	23.9	27.0	14.8	19.0	9.0	3.3	0.9	0.6	0.3	0.4	100.0
Fla.	47.4	47.3	5.3	-	2.6	23.7	21.1	23.7	15.8	2.6	-	2.6	2.6	5.3	100.0
Ala.	80.3	18.8	0.9	9.0	46.9	18.5	5.9	9.3	5.7	1.3	0.9	1.2	0.4	0.9	100.0
Miss.	88.9	10.7	0.4	14.4	49.8	17.6	7.1	5.9	2.9	1.0	0.5	0.3	0.1	0.4	100.0
Tenn.	96.0	3.9	0.1	9.8	64.7	18.4	3.1	2.2	0.9	0.3	0.2	0.1	0.2	0.1	100.0
Mo.	93.8	5.3	0.9	12.0	66.8	11.8	3.2	2.2	1.1	0.9	0.6	0.5	-	0.9	100.0
Ark.	89.7	10.1	0.2	7.5	56.3	18.7	7.2	5.2	3.1	0.9	0.6	0.2	0.1	0.2	100.0
La.	29.2	67.3	3.5	0.6	10.2	10.5	7.9	17.6	25.0	13.0	7.2	3.4	1.1	3.5	100.0
Oklahoma	98.1	1.9	-	34.1	56.8	5.2	2.0	0.7	0.4	0.4	0.1	0.2	0.1	-	100.0
Texas	89.5	9.6	0.9	53.5	31.3	3.4	1.3	2.6	2.8	2.1	1.1	0.7	0.3	0.9	100.0
N. Mex.	100.0	-	-	76.4	21.9	1.7	-	-	-	-	-	-	-	-	100.0
All other	86.6	13.4	-	6.7	59.9	20.0	-	6.7	6.7	-	-	-	-	-	100.0
U. S.	84.5	14.8	0.7	24.1	42.3	13.0	5.1	5.9	4.6	2.2	1.1	0.7	0.3	0.7	100.0

* Less than 0.05 percent.

Table 14. Percentage distribution of free fatty acids in cottonseed samples by specified frequencies, by states and United States, 1974

State	Free fatty acids												Total		
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0	0.5	1.0	1.5	1.9	3.0	5.0	7.0	9.0		11.0	12.5 and over
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		Pct.	Pct.
N. C.	93.3	6.5	0.2	2.2	67.8	18.6	4.7	3.8	1.4	0.9	0.2	0.2	-	0.2	100.0
S. C.	63.9	36.0	0.1	2.9	18.9	25.9	16.2	24.1	9.4	1.3	0.6	0.5	0.1	0.1	100.0
Ga.	18.9	80.6	0.5	1.1	6.0	6.6	5.2	21.0	36.6	15.2	5.8	1.9	0.1	0.5	100.0
Fla.	40.4	59.6	-	-	14.9	6.4	19.1	31.9	19.2	6.4	2.1	-	-	-	100.0
Ala.	74.3	25.5	0.2	18.6	34.8	13.2	7.7	16.6	6.7	1.2	0.7	0.2	0.1	0.2	100.0
Miss.	86.5	12.8	0.7	5.8	41.8	28.6	10.3	7.2	2.4	1.3	1.0	0.6	0.3	0.7	100.0
Tenn.	96.5	3.4	0.1	37.0	54.7	3.6	1.2	1.7	0.8	0.3	0.4	0.1	0.1	0.1	100.0
Mo.	95.0	4.9	0.1	49.3	38.5	5.1	2.1	3.0	1.1	0.4	0.2	0.1	0.1	0.1	100.0
Ark.	90.2	9.6	0.2	16.8	46.5	20.2	6.7	5.0	2.4	1.0	0.6	0.3	0.3	0.2	100.0
La.	38.1	61.2	0.7	0.2	6.6	18.0	13.3	25.9	20.3	9.2	4.1	1.4	0.3	0.7	100.0
Okla.	93.2	6.7	0.1	0.1	58.2	26.3	8.6	4.4	1.6	0.4	0.3	-	-	0.1	100.0
Tex.	83.9	14.0	2.1	16.6	42.4	19.1	5.8	5.4	3.0	1.6	1.5	1.5	1.0	2.1	100.0
N. Mex.	98.1	1.9	-	49.7	39.7	6.1	2.6	1.6	0.3	-	-	-	-	-	100.0
Ariz.	96.0	4.0	-	44.6	43.6	5.7	2.1	2.5	1.5	-	-	-	-	-	100.0
All other	100.0	-	-	40.0	60.0	-	-	-	-	-	-	-	-	-	100.0
U. S.	79.1	20.1	0.8	14.2	38.5	18.9	7.5	9.0	6.0	2.5	1.4	0.8	0.4	-0.8	100.0

* Less than 0.05 percent.

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

State	Foreign matter											Total	
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0	0.6	1.1	2.1	3.1	4.1	5.6	7.1		8.6
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
N. C.	44.2	55.8	-	12.1	32.1	39.1	12.8	2.9	0.6	0.4	-	-	100.0
S. C.	53.3	46.7	-	21.8	31.5	31.9	9.6	3.4	1.1	0.7	-	-	100.0
Ga.	67.4	32.6	-	17.5	49.9	30.1	1.8	0.4	0.2	0.1	-	-	100.0
Fla.	52.6	47.4	-	13.2	39.4	34.2	7.9	5.3	-	-	-	-	100.0
Ala.	35.2	64.7	0.1	8.1	27.1	43.1	15.7	3.4	1.9	0.3	0.2	0.1	100.0
Miss.	63.8	36.2	-	24.9	38.9	28.5	5.8	1.3	0.4	0.1	0.1	*	100.0
Tenn.	39.6	60.4	-	10.2	29.4	42.1	13.4	3.3	1.2	0.2	0.1	0.1	100.0
Mo.	46.2	53.7	0.1	11.1	35.1	41.5	9.2	2.4	0.6	-	-	0.1	100.0
Ark.	68.2	31.8	*	27.1	41.1	23.1	6.2	1.6	0.7	0.1	-	0.1	100.0
La.	81.6	18.4	-	37.4	44.2	14.8	2.8	0.6	0.2	*	-	-	100.0
Okla.	26.5	73.3	0.2	3.2	23.3	47.3	17.0	5.8	2.0	0.7	0.2	0.3	100.0
Tex.	20.1	79.6	0.3	3.4	16.7	40.1	23.3	9.3	4.8	1.3	0.6	0.2	100.0
N. Mex.	32.9	65.9	1.2	8.1	24.8	26.6	17.9	8.1	6.9	4.6	1.2	0.6	100.0
All other	53.3	46.7	-	-	53.3	46.7	-	-	-	-	-	-	100.0
U. S.	46.6	53.3	0.1	15.7	30.9	33.4	12.7	4.3	2.0	0.6	0.2	0.1	100.0

* Less than 0.05 percent.

Table 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by states and United States, 1974

State	Foreign matter													Total
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0	0.6	1.1	2.1	3.1	4.1	5.6	7.1	8.6	10.1 and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
N. C.	36.0	64.0	-	9.9	26.1	41.3	16.4	5.1	0.7	0.5	-	-	-	100.0
S. C.	49.2	50.7	0.1	21.8	27.4	35.2	11.1	2.8	1.2	0.1	0.3	-	0.1	100.0
Ga.	64.3	35.6	0.1	29.5	34.8	32.3	2.5	0.5	0.3	-	-	-	0.1	100.0
Fla.	36.1	63.9	-	10.6	25.5	55.4	6.4	2.1	-	-	-	-	-	100.0
Ala.	33.9	65.9	0.2	9.3	24.6	43.7	15.5	4.2	1.8	0.4	0.2	0.1	0.2	100.0
Miss.	58.7	41.3	*	23.3	35.4	29.3	8.1	2.5	0.9	0.3	0.1	0.1	*	100.0
Tenn.	40.6	59.3	0.1	8.9	31.7	41.1	13.5	2.9	1.4	0.3	0.1	-	0.1	100.0
Mo.	33.2	66.5	0.3	5.5	27.7	50.0	12.2	3.3	0.6	0.3	0.1	-	0.3	100.0
Ark.	65.0	35.0	*	25.2	39.8	25.7	5.9	2.1	1.0	0.2	0.1	-	*	100.0
La.	83.4	16.6	*	34.7	48.7	13.9	2.0	0.6	0.1	*	-	-	*	100.0
Okla.	20.4	79.5	0.1	1.9	18.5	37.8	25.1	10.1	5.3	1.0	0.2	-	0.1	100.0
Tex.	21.2	78.0	0.8	7.6	13.6	26.2	19.8	13.0	11.8	4.4	2.0	0.8	0.8	100.0
N. Mex.	42.2	57.5	0.3	10.6	31.6	24.9	11.4	6.1	6.3	5.3	2.4	1.1	0.3	100.0
Ariz.	37.5	62.5	-	10.0	27.5	36.0	13.6	6.4	3.2	1.1	1.8	0.4	-	100.0
All other	60.0	40.0	-	20.0	40.0	40.0	-	-	-	-	-	-	-	100.0
U. S.	46.6	53.1	0.3	17.3	29.3	29.8	11.8	5.4	3.9	1.4	0.6	0.2	0.3	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, 1973 and 1974

State	Quality						Reduced due to excess							
	Prime		Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acids		Foreign matter	
	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974
Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
N. C.	624	378	960	730	-	-	1,584	1,108	100	8	42	74	884	708
S. C.	736	572	1,318	1,282	-	2	2,054	1,856	288	76	412	672	958	944
Ga.	1,160	158	1,574	2,912	4	4	2,738	3,074	372	316	920	2,494	892	1,098
Fla.	6	4	68	88	2	2	76	94	34	18	40	56	36	60
Ala.	630	782	2,758	3,082	10	2	3,398	3,866	1,428	744	670	992	2,200	2,552
Miss.	3,332	4,344	8,902	8,314	20	12	12,254	12,670	6,724	5,022	1,360	1,720	4,442	5,236
Tenn.	344	564	3,246	2,496	-	-	3,590	3,060	2,514	1,572	144	104	2,168	1,820
Mo.	158	396	1,484	1,874	4	-	1,646	2,270	1,272	1,188	100	110	886	1,516
Ark.	1,430	2,918	7,658	6,758	12	4	9,100	9,680	6,934	5,230	940	950	2,890	3,386
Ia.	398	776	3,706	3,868	90	12	4,194	4,656	2,640	1,932	2,972	2,882	774	780
Okla.	572	342	1,770	1,578	2	2	2,344	1,922	92	138	44	132	1,724	1,532
Tex.	3,362	2,552	15,700	12,830	88	150	19,150	15,532	1,452	1,068	2,022	2,498	15,294	12,252
N. Mex.	114	286	232	470	-	-	346	756	-	42	-	14	232	436
Ariz.	-	202	-	358	-	-	-	560	-	12	-	22	-	350
All other	10	-	20	10	-	-	30	10	4	6	4	-	14	4
U. S.	12,876	14,274	49,396	46,650	232	190	62,504	61,114	23,854	17,372	9,670	12,720	33,394	32,674