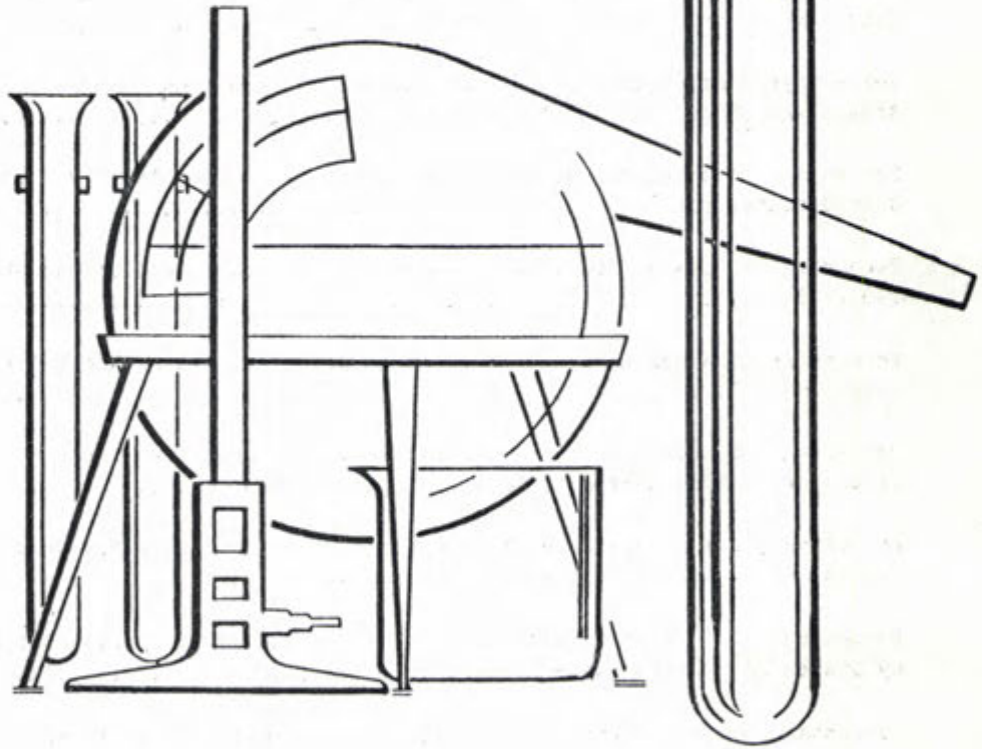


Cottonseed  
3.112b

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
COTTON DIVISION

# Cottonseed



COTTONSEED QUALITY IN THE UNITED STATES, 1952-1953

Memphis, Tennessee

November 1954

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COTTONSEED QUALITY IN THE UNITED STATES  
CROP OF 1953

Quality data for cottonseed produced from the 1953 crop are presented herein. Averages of cottonseed quality factors and grades are shown by states, districts, months, and specified frequencies, with comparative data for the preceding season. These data were compiled from official cottonseed grade certificates issued by licensed chemists. During the year ended July 31, 1954, licensed chemists under the supervision of the Department of Agriculture issued official certificates covering 166,916 samples of cottonseed. These samples were drawn from cottonseed delivered to crushing mills throughout the season.

There are five basic factors presently used in determining the grade of cottonseed in accordance with the United States Official Standards for Grades. These factors are (1) oil, (2) ammonia or protein (cake and meal), (3) moisture content, (4) free fatty acids (indicator of oil deterioration), and (5) foreign matter (trash in the seed). Of these five factors, the first two are combined to form an index for quantity and the last three an index for quality, and these in turn are used to determine the grade of cottonseed. In a few areas, linters have been included in determining the grade of cottonseed. The method of calculating the grade of cottonseed is presented in, "The Grading of Cottonseed," Agriculture Information Bulletin No. 39, May 1951.

The data in the table shown below indicate that cottonseed produced from the 1953 crop was the highest in grade for any season since 1944, when cottonseed quality information was first compiled from official grade certificates. The percentage of oil was higher than in the two preceding seasons but well below the record-high 1951 average. The percentage of ammonia averaged somewhat lower than last season's record but was higher than for any other season. Percentages of moisture, free fatty acids, and foreign matter in the 1953-54 season averaged below those of a year earlier and well below the tolerances prescribed for prime quality cottonseed in the United States Official Standards for Grades.

Cottonseed quality factors, indexes, and grades,  
United States, 1944-53

Year beginning August 1	Cottonseed quality factors					Quantity Index	Quality Index	Average grade
	Oil Percent	Ammonia Percent	Moisture Percent	Free fatty acids Percent	Foreign matter Percent			
1944	18.5	3.88	11.2	1.4	0.8	102.33	96.8	99.0
1945	18.6	3.62	12.2	2.6	1.1	101.02	93.0	93.5
1946	18.7	3.61	12.4	1.0	0.8	101.29	98.0	99.5
1947	18.3	3.88	11.3	1.4	0.8	101.38	96.9	98.0
1948	18.7	3.72	11.3	1.4	0.9	102.12	96.5	98.5
1949	19.1	3.68	11.6	1.9	1.1	103.12	95.1	98.0
1950	18.7	3.64	12.8	1.9	1.1	101.02	95.0	96.0
1951	18.5	3.88	11.0	1.5	1.0	101.56	96.5	98.0
1952	18.6	4.04	9.5	1.0	0.9	102.95	98.1	101.0
1953	18.7	4.00	9.0	0.7	0.8	103.46	99.0	102.5

The average quality factors of cottonseed are shown by states in Table 2. These averages as well as all others in this report are arithmetic means of quality factors and indexes tabulated and averaged from individual grade certificates. This table contains average quality factors, averages of quantity and quality indexes, and average grades of cottonseed for each of the major cotton-producing states and the United States. Similar data are shown by specified periods for each state in Table 4, and by crop reporting districts in Table 5.

Quantity Index Highest on Record

The average quantity index for the United States in 1953-54 was 103.46. This compares with 102.95 a year earlier and 101.56 two years ago. A distribution of quantity indexes by specified frequencies and by states is shown in Table 6, page 21. The quantity index is an index of the relative quantities of products contained in different lots of cottonseed, the differences in these quantities being due to differences in varieties of seed and to cultural and climatic conditions during the growth and maturity of the cotton plant. Some lots of cottonseed are found to be deficient in both

oil and protein, whereas other lots are found to be higher in both oil and protein than the average. Generally there is an inverse relationship between the content of oil and protein, so that seed that are extra high in oil content are usually deficient in protein, and seed that are low in oil generally have a high protein content.

#### Quality Index Also Record High

The average quality index of cottonseed in 1953-54 was 99.0 compared with 98.1 in 1952-53, the previous high. A distribution of quality indexes by specified frequencies and by states is shown in Table 7, page 22. The quality index measures the deterioration in oil and cake or meal and takes into account the excesses of moisture, free fatty acids, and foreign matter in the seed. The quality of cottonseed from the standpoint of the crusher is affected by those factors that increase the costs of processing, by the hazards of storage and processing, and by the quality of the products obtained. Among these factors are free fatty acids in the oil, excess moisture or foreign matter, heating in storage or in transit, fermentation, frosting of immature bolls, crushed or cracked or hulled seed, and exposure to chemicals. The effects of some of these factors, namely, free fatty acids in the seed, moisture, and foreign matter, may be measured, but no means of accurately measuring the effects of the other factors are known at this time.

#### Average Grade

With the average indexes of both quantity and quality the highest on record, the 1953-54 average grade also registered a new high. The average grade of cottonseed in 1953-54 was 102.5 against 101.0 in 1952, the previous high, and 98.0 two years ago. The grade of cottonseed is obtained by multiplying the quantity index by the quality index and dividing the result by 100. The result is rounded to the nearest whole or half number. A distribution of cottonseed grades by specified frequencies and by states is shown in Table 8, page 23.

#### Oil Content Slightly Higher

The average percentage of oil in the samples graded during 1953-54 was 18.7 compared with 18.6 a year earlier. The highest percentage of oil on record was the 1949-50 average of 19.1. The percentage of oil averaged higher than a year earlier in all major cotton-producing states except North Carolina, South Carolina, Texas, Oklahoma, and New Mexico. In South Carolina and Texas, 1953-54 averages were the same as a year ago. A distribution of percentages of oil, by specified frequencies and by states appears in Table 9, page 24.

#### Ammonia Content Down Slightly

The average percentage of ammonia in the samples graded during 1953-54 was slightly lower than a year earlier. The 1953-54 average was 4.00 against 4.04 in 1952-53. The percentage of ammonia was lower than last season in all major cotton-producing states with the exception of North Carolina, South Carolina, and Missouri. The 1953-54 average for South Carolina was the same as a year earlier. A distribution of percentages of ammonia by specified frequencies and by states is shown in Table 10, page 25.

#### Record Low Moisture Content

The average moisture content in the cottonseed samples graded in 1953-54 was 9.0 percent. This is the lowest average since quality data for cottonseed became available in 1944. Distributions of percentages of moisture by specified frequencies and by states are shown in Tables 11 and 12, page 26. Moisture content, one of the three quality index factors, is a primary cause of deterioration in cottonseed. Prime cottonseed of low moisture content may be stored for well over a year in an adequate place of storage, and produce normal yields of prime products. On the other hand, excessive moisture in seed, owing to weather or improper handling, may cause rapid deterioration. When the grading standards were developed, a moisture content of 12.0 percent was established as the critical point in the storage of cottonseed beyond which cooling or drying is necessary to preserve quality.

#### Foreign Matter Content

The average percentage of foreign matter in cottonseed in 1953-54 was 0.8 percent. This compares with 0.9 percent in the preceding season and equals the record low of 0.8 percent previously reported in 1944, 1946, and 1947. Distributions of percentages of foreign matter, by specified frequencies

and by states, are shown in Tables 15 and 16, page 28. The present standards require a reduction of 0.1 unit of the quality index for each 0.1 percent of foreign matter in excess of 1.0 percent.

Free Fatty Acids Drop to New Low

The average free fatty acid content of cottonseed oil averaged 0.7 percent in 1953-54. This compares with 1.0 percent, the previous low, set in 1952-53. The percentage of free fatty acid averaged lower than a year earlier in all major states except Georgia, Mississippi, Louisiana, Oklahoma, and Texas. In Louisiana and Oklahoma, the 1953-54 averages were unchanged from a year earlier. Cottonseed with free fatty acids in excess of 1.2 percent deteriorate more rapidly than seed with low free fatty acid content, especially if the moisture content is relatively high. Distributions of percentages of free fatty acids, by specified frequencies and by states, appear in Tables 13 and 14, page 27.

Number of Certificates by Qualities and Reductions

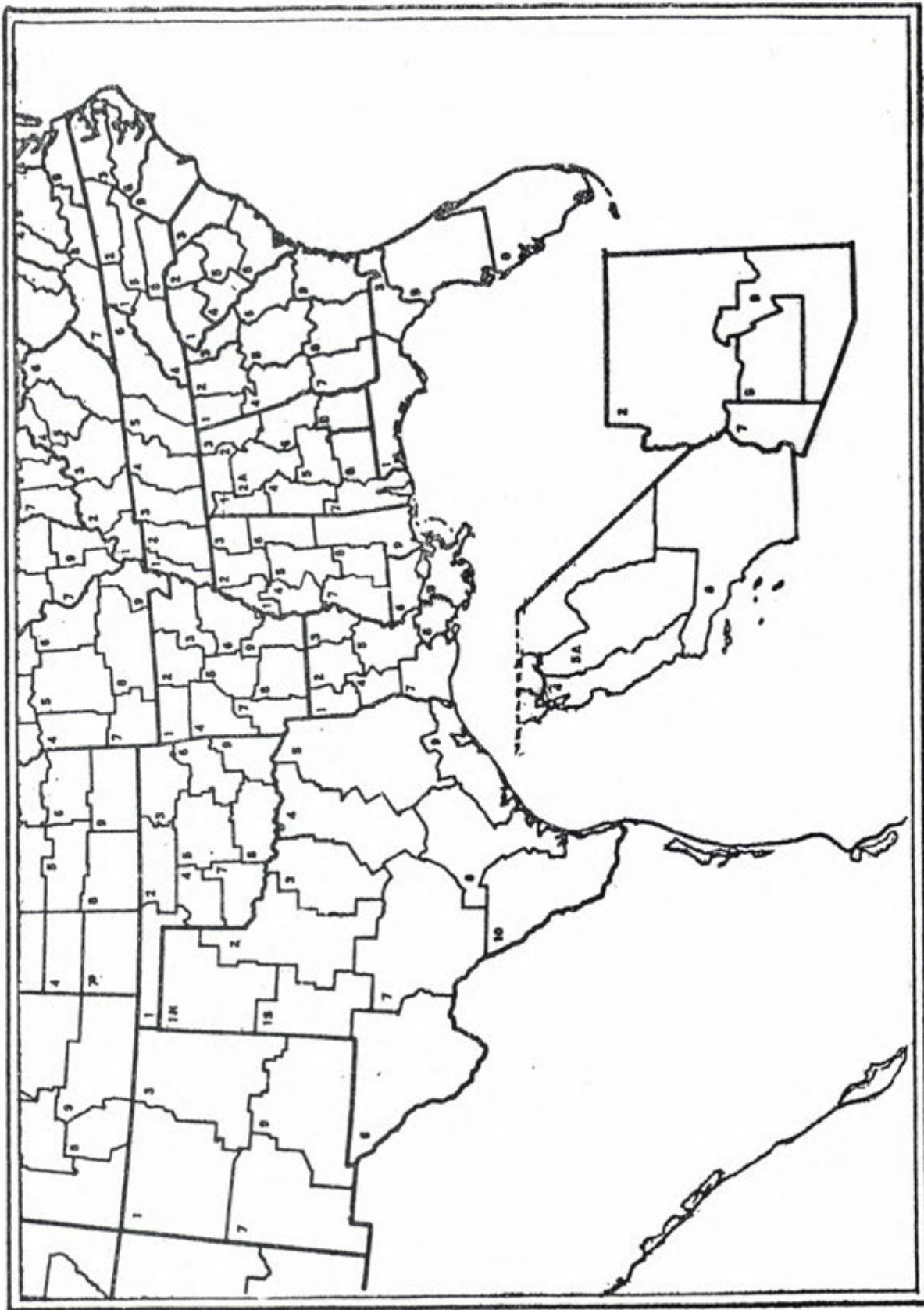
The total number of official cottonseed grade certificates issued in 1953-54 is stratified by specified quality groups and by states in Table 17, page 29. Included in this table is the number of samples reduced in grade due to excessive percentages of moisture, free fatty acids, and foreign matter. Some samples were reduced in grade for excessive percentages of more than one factor and the sum of the reductions for some states is greater than the total number of samples tested.

Table 1. Cottonseed: Production, deliveries to oil mills, and official certificates issued, by States and United States, 1952 and 1953

State	Production of cottonseed		Deliveries to oil mills		Certificates issued	
	1952 1,000 tons	1953 1,000 tons	1952 1,000 tons	1953 1,000 tons	1952 Number	1953 Number
Alabama	356	377	320	345	11,475	11,324
Arizona	394	442	370	420	4,664	6,452
Arkansas	543	620	465	560	20,641	23,382
California	741	721	705	690	7,861	9,098
Florida	13	11	12	10	241	186
Georgia	297	307	275	285	7,374	7,411
Illinois	1/	1/	1/	1/	34	43
Kentucky	1/	1/	1/	1/	101	114
Louisiana	297	332	270	305	9,377	10,626
Mississippi	755	876	640	770	23,854	26,899
Missouri	168	190	155	175	6,139	6,319
N. Mexico	132	137	125	130	1,468	1,852
N. Carolina	239	185	210	165	7,605	6,894
Oklahoma	104	175	87	150	3,395	5,877
S. Carolina	289	287	250	255	7,439	8,058
Tennessee	254	279	225	255	9,164	10,037
Texas	1,594	1,797	1,460	1,690	23,976	32,051
Virginia	10	7	9	6	338	293
Other States <sup>2/</sup>	4	5	3	5	-	-
<b>U. S.</b>	<b>6,190</b>	<b>6,748</b>	<b>5,581</b>	<b>6,216</b>	<b>145,146</b>	<b>166,916</b>

1/ Included in all other States.

2/ Illinois, Kansas, and Kentucky.



Crop-reporting districts of the U S. Department of Agriculture for cotton-producing states

Table 2. Cottonseed: Quality factors, indexes, and grades, by States and United States, 1952-1953

State	Cottonseed analysis														Average index				Average grade	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index				Average grade					
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	Quantity	Quality	1952	1953	1952	1953				
<u>Upland</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>										
Ala.	18.0	18.3	4.11	3.98	11.1	9.5	1.2	0.8	0.6	0.5	101.77	102.15	98.6	99.5	100.5	101.5				
Ariz.	19.3	19.7	3.97	3.96	7.8	6.5	1.0	.6	1.3	1.5	105.93	107.29	99.2	99.1	105.0	106.5				
Ark.	18.7	19.0	4.03	3.99	9.5	8.7	.6	.4	1.0	.8	104.12	105.10	99.3	99.7	103.5	105.0				
Calif.	18.6	18.8	3.81	3.80	10.6	10.0	.7	.6	.8	.8	102.23	103.05	98.5	99.3	100.5	102.5				
Fla.	16.7	16.7	3.99	3.55	13.6	13.5	2.6	3.3	.6	.7	95.26	93.95	93.2	90.4	89.0	85.0				
Ga.	18.0	18.4	4.14	3.87	11.0	10.9	1.9	2.4	.6	.7	101.79	101.68	96.4	94.8	98.0	96.5				
Ill.	18.0	18.6	3.61	3.87	11.0	8.9	1.0	.5	1.5	.6	98.34	102.68	98.5	99.7	97.0	102.5				
Ky.	17.6	18.3	3.83	3.92	11.5	8.5	.9	.4	1.6	.7	98.31	101.58	98.5	99.8	97.0	101.5				
La.	18.3	18.6	4.09	4.05	9.6	9.4	.8	.8	.7	.6	102.62	103.86	99.0	99.1	101.5	103.0				
Miss.	18.7	18.9	4.11	4.04	9.2	9.0	.5	.6	.6	.5	104.26	104.74	99.7	99.6	104.0	104.5				
Mo.	18.5	18.8	3.89	3.93	10.0	8.5	.7	.4	1.3	.8	102.21	103.61	98.8	99.6	101.0	103.0				
N. Mex.	20.4	19.9	3.73	3.70	7.4	7.7	.6	.5	1.4	2.2	108.84	106.96	99.3	98.6	108.0	105.5				
N. C.	19.1	18.6	3.77	4.03	10.9	10.1	2.2	.8	.7	.6	104.19	103.43	95.6	99.6	99.5	103.0				
Okla.	17.7	17.5	4.24	4.20	7.1	9.4	.5	.5	.9	.9	101.57	99.93	99.8	99.7	101.5	99.5				
S. C.	18.3	18.3	3.99	3.99	10.7	10.3	5.2	1.5	.6	.5	102.29	102.16	84.4	97.9	86.5	100.0				
Tenn.	18.8	19.3	4.03	3.91	10.2	8.8	.5	.4	.8	.6	104.33	105.80	99.3	99.8	103.5	105.5				
Tex.	18.6	18.6	4.12	4.09	7.6	8.3	.6	.8	1.3	1.3	101.07	101.63	99.2	98.5	100.5	100.0				
Va.	18.7	18.6	3.59	4.13	11.6	10.7	1.1	.7	.7	.7	101.44	104.13	98.6	100.0	100.0	104.0				
<u>American-</u>																				
<u>Egyptian</u>																				
Ariz.	22.0	22.2	3.88	3.92	8.9	7.0	.7	.6	4.2	4.4	93.30	94.72	96.7	96.6	90.5	91.5				
N. Mex.	21.9	22.2	3.86	3.63	7.3	7.6	.8	.8	1.4	3.4	99.41	92.18	99.3	97.6	98.5	90.0				
Tex.	23.1	22.3	3.83	3.65	8.1	8.8	.9	.9	2.2	4.1	99.83	92.58	98.5	96.8	98.5	89.5				
U. S.	18.6	18.7	4.04	4.00	9.5	9.0	1.0	0.7	0.9	0.8	102.95	103.46	98.1	99.0	101.0	102.5				

Table 3. Quality factors, indexes, and grades for American-Egyptian cottonseed by specified periods and States, 1952-1953.

ARIZONA

Month	Cottonseed analysis														Average index		Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity				Quality		No.			
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953		
Sept.	20.9	20.8	4.06	4.21	8.3	7.2	1.0	0.6	2.2	4.1	90.41	92.30	98.7	96.9	89.0	89.5	5	23		
Oct.	21.8	22.1	4.08	4.09	6.8	6.3	.9	.6	3.8	4.0	94.55	96.84	97.2	97.0	92.0	94.0	38	88		
Nov.	22.6	22.5	3.97	3.95	6.8	6.9	.7	.5	3.5	4.0	97.93	96.33	97.3	97.0	95.5	93.5	107	133		
Dec.	21.7	22.2	3.84	3.84	10.2	7.1	.6	.5	4.1	4.1	90.98	94.17	96.7	96.9	88.0	91.5	134	156		
Jan.	21.8	22.1	3.82	3.81	10.4	7.5	.7	.7	4.5	5.4	91.95	92.78	96.6	95.6	89.0	88.5	100	107		
Feb.	22.1	21.9	3.81	3.79	9.1	7.7	.9	.7	5.0	5.9	92.34	92.26	95.7	95.1	88.5	87.5	103	28		
Mar.-July	22.6	22.2	3.88	4.17	8.4	5.9	1.2	.9	3.0	4.0	95.33	99.06	97.6	97.1	93.0	96.0	10	4		
Season	22.0	22.2	3.88	3.92	8.9	7.0	0.7	0.6	4.2	4.4	93.30	94.72	96.7	96.6	90.0	91.5	497	539		

NEW MEXICO

Oct.	23.9	23.1	4.06	3.88	6.8	8.3	1.1	0.9	0.5	1.1	100.26	98.33	100.0	100.0	100.5	98.5	4	2
Nov.	20.2	23.3	3.93	3.70	6.7	8.0	.7	.9	1.4	1.9	102.26	96.77	99.3	99.1	101.5	96.0	22	8
Dec.	22.1	22.6	3.75	3.58	8.1	7.8	.8	.9	1.3	2.8	96.36	93.03	99.3	98.2	95.5	91.5	17	6
Jan.	23.9	21.6	3.80	3.58	7.9	6.9	.7	.8	1.2	4.4	98.61	89.93	99.5	96.6	98.0	87.0	11	11
Feb.	23.5	20.8	3.79	3.60	6.1	8.1	.8	.7	3.9	4.9	96.71	87.27	97.1	96.1	94.0	84.0	2	6
Season	21.9	22.2	3.86	3.63	7.3	7.6	0.8	0.8	1.4	3.4	99.41	92.18	99.3	97.6	98.5	90.0	56	33

TEXAS

Sept.	23.4	-	3.97	-	7.7	-	0.6	-	-	-	100.92	-	100.0	-	101.0	-	1	-
Oct.	23.9	23.5	3.99	3.85	8.1	8.3	1.0	1.1	1.6	3.6	101.40	98.16	98.9	97.3	100.5	95.5	58	35
Nov.	24.0	22.9	3.97	3.72	7.7	9.3	.9	.8	1.6	3.8	101.58	95.04	98.9	97.1	100.5	92.5	72	83
Dec.	23.8	22.6	3.78	3.61	8.8	8.4	.8	.9	2.3	2.6	98.11	93.23	98.4	98.3	96.5	91.5	68	65
Jan.	21.6	21.3	3.68	3.52	8.1	9.0	.8	.9	2.9	5.1	99.31	88.12	98.0	95.9	97.5	84.5	101	52
Feb.	22.8	20.0	3.70	3.49	6.8	9.0	.8	.8	1.7	8.0	94.25	82.17	99.2	93.0	93.5	76.5	9	18
Mar.-July	-	19.2	-	3.43	-	8.4	-	.7	-	12.9	-	80.90	-	88.2	-	71.5	-	2
Season	23.1	22.3	3.83	3.65	8.1	8.8	0.9	0.9	2.2	4.1	99.83	92.58	98.5	96.8	98.5	89.5	309	255



Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1952-1953.

ALABAMA

Month	Cottonseed analysis														Average index		Average grade		Samples					
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity				Quality		1952	1953	1952	1953	1952	1953	No.	No.
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	No.	No.		
Aug.	16.3	17.5	3.93	3.62	14.8	14.7	1.3	1.0	0.4	0.4	93.36	96.33	96.7	96.8	90.5	93.0	90.5	93.0	1,268	633				
Sept.	17.7	18.2	4.16	3.93	11.8	9.5	1.1	.8	.5	.5	100.77	101.23	99.1	99.5	100.0	100.5	100.0	100.5	3,353	4,371				
Oct.	18.5	18.5	4.13	4.04	10.5	9.1	1.1	.8	.5	.5	103.75	103.51	98.9	99.8	102.5	103.5	102.5	103.5	3,573	4,016				
Nov.	18.7	18.6	4.12	4.09	9.0	8.7	1.2	.7	.7	.7	104.59	103.97	98.8	99.6	103.5	103.5	103.5	103.5	1,945	1,475				
Dec.	18.4	18.3	4.13	4.02	10.2	9.2	1.5	.7	.8	.8	103.19	101.40	98.0	99.6	101.0	101.0	101.0	101.0	908	510				
Jan.	18.2	18.2	4.07	4.02	11.1	9.5	1.8	.9	1.0	.7	102.01	102.01	96.7	99.4	98.5	101.5	98.5	101.5	234	170				
Feb.	18.3	18.2	4.14	4.03	10.4	9.2	1.5	.8	.8	.7	103.03	102.11	97.7	99.7	100.5	102.0	100.5	102.0	111	94				
Mar.-July	18.1	17.8	4.12	4.06	10.5	9.0	1.8	.9	2.1	.9	101.70	101.13	96.2	99.4	98.0	100.5	98.0	100.5	83	55				
Season	18.0	18.3	4.11	3.98	11.1	9.5	1.2	0.8	0.6	0.5	101.77	102.15	98.6	99.5	100.5	101.5	100.5	101.5	11,475	11,324				

ARIZONA (Upland only)

Aug.	19.3	18.0	3.71	3.87	8.9	11.4	0.6	0.7	0.1	0.3	104.59	100.42	100.0	98.7	104.5	99.0	104.5	99.0	3	13
Sept.	18.9	19.0	3.99	3.95	7.7	8.2	1.2	.8	.5	.9	104.72	104.31	99.5	99.5	104.0	104.0	104.0	104.0	313	491
Oct.	19.6	20.1	3.99	3.95	6.9	6.3	1.0	.6	.8	.9	106.47	108.92	99.6	99.6	106.0	108.5	106.0	108.5	814	1,325
Nov.	19.8	20.1	3.99	3.97	6.9	6.5	.7	.5	1.1	1.0	108.02	109.03	99.6	99.6	107.5	108.5	107.5	108.5	704	1,544
Dec.	19.3	19.8	3.93	4.00	8.7	6.1	.8	.4	1.0	1.3	105.92	107.70	99.6	99.5	105.5	107.0	105.5	107.0	885	1,304
Jan.	19.2	19.2	3.96	3.94	8.8	6.3	.8	.8	1.5	2.6	105.54	105.43	99.3	98.2	105.0	103.5	105.0	103.5	688	731
Feb.	19.0	18.5	3.97	3.90	7.5	7.3	1.4	1.1	2.4	3.6	104.57	102.50	97.6	96.2	102.0	98.5	102.0	98.5	630	429
Mar.-July	18.8	18.5	3.90	3.89	8.0	6.7	1.6	1.6	3.2	5.2	102.77	102.34	96.7	94.2	99.5	96.5	99.5	96.5	130	76
Season	19.3	19.7	3.97	3.96	7.8	6.5	1.0	0.6	1.3	1.5	105.93	107.29	99.2	99.1	105.0	106.5	105.0	106.5	4,167	5,913

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1952-1953, (Continued)

ARKANSAS

Month	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index				Average grade		Samples			
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	No.	No.
Aug.	18.4	18.7	3.89	3.91	10.9	9.4	3.3	0.7	1.0	0.5	101.79	103.24	91.8	99.1	93.5	102.5	266	606		
Sept.	18.6	18.7	4.09	4.07	10.7	8.6	.5	.4	.4	.4	104.13	104.43	99.7	99.9	104.0	104.5	5,482	4,262		
Oct.	19.2	19.3	4.15	4.03	8.6	8.1	.4	.4	.5	.5	106.78	106.24	99.9	99.9	106.5	106.0	6,913	8,119		
Nov.	18.9	19.3	4.02	4.00	7.8	8.2	.4	.4	1.2	.7	104.84	106.16	99.5	99.9	104.5	106.0	4,515	5,768		
Dec.	17.9	18.8	3.74	3.86	11.4	10.2	.6	.4	2.2	1.3	98.63	103.30	98.4	99.4	97.0	102.5	1,463	2,507		
Jan.	17.6	18.5	3.69	3.73	11.9	11.3	.8	.5	2.5	2.1	97.45	101.12	97.9	98.3	95.5	99.5	1,066	976		
Feb.	17.5	18.5	3.68	3.78	12.2	10.9	1.2	.8	2.9	2.5	96.81	101.74	97.0	98.2	94.0	100.0	464	666		
Mar.-July	17.8	18.8	3.77	3.94	11.0	9.4	1.7	1.1	2.8	1.7	98.73	103.76	95.6	98.4	94.5	102.0	472	476		
Season	18.7	19.0	4.03	3.99	9.5	8.7	0.6	0.4	1.0	0.8	104.12	105.10	99.3	99.7	103.5	105.0	20,641	23,382		

CALIFORNIA

Aug.	17.8	18.2	4.05	4.15	8.9	8.6	0.4	0.4	0.2	0.3	100.68	102.87	100.0	99.9	100.5	103.0	5	14
Sept.	19.2	18.6	4.09	3.90	8.0	9.6	.4	.5	.2	.5	106.09	102.84	100.0	99.9	106.0	102.5	168	180
Oct.	19.3	19.5	3.90	3.93	8.2	8.0	.4	.5	.4	.7	105.72	106.92	99.9	99.8	105.5	106.5	2,049	1,482
Nov.	19.1	19.3	3.85	3.89	9.3	8.8	.4	.5	.5	.6	104.61	105.54	99.8	99.9	104.5	105.5	1,850	2,867
Dec.	18.2	18.7	3.71	3.73	12.5	11.7	.5	.6	.9	.7	99.94	102.02	98.5	99.2	98.5	101.0	1,680	2,535
Jan.	17.4	18.3	3.66	3.72	14.5	10.4	.9	.7	1.3	1.0	96.35	100.33	96.3	99.5	93.0	100.0	1,120	1,321
Feb.	18.0	17.0	3.81	3.54	11.5	13.0	1.8	1.1	1.5	1.9	100.05	93.86	97.0	96.9	97.0	91.0	772	439
Mar.-July	18.2	16.9	3.92	3.56	9.4	10.9	3.4	2.1	2.5	2.8	101.66	93.26	91.4	95.4	93.0	89.0	217	260
Season	18.6	18.8	3.81	3.80	10.6	10.0	0.7	0.6	0.8	0.8	102.23	103.05	98.5	99.3	100.5	102.5	7,861	9,098

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1952-1953, (continued)

FLORIDA

Month	Cottonseed analysis												Average index			Average grade		Samples		
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1952	1953	1952	1953	No.	No.
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953						
Aug.	16.2	16.4	3.91	3.36	15.8	17.5	1.4	1.7	0.4	0.5	92.48	90.99	95.4	93.6	88.0	85.0	105	51		
Sept.	17.0	16.9	4.05	3.61	12.6	12.4	2.6	3.3	.6	.7	97.03	94.68	94.9	92.2	92.0	87.5	87	99		
Oct.	17.3	16.4	4.13	3.57	10.6	11.0	5.0	4.9	.9	1.0	99.00	95.65	86.7	83.7	86.0	80.0	20	26		
Nov.	17.7	16.5	4.14	3.77	9.7	10.2	5.8	9.6	.7	.9	99.73	93.08	83.8	68.9	83.5	64.0	16	7		
Dec.	17.0	17.1	3.93	3.75	11.1	11.1	4.7	8.5	1.1	1.0	96.31	95.90	87.8	73.2	84.5	70.0	8	1		
Jan.	15.8	20.8	3.72	3.91	12.3	11.3	5.0	2.1	1.8	.2	88.79	111.66	85.7	98.8	76.0	110.5	3	1		
Feb.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Mar.-July	17.1	21.2	3.88	4.01	17.3	9.5	4.6	4.7	1.0	-	96.45	113.86	80.9	88.4	78.0	100.5	2	1		
Season	16.7	16.7	3.99	3.55	13.6	13.5	2.6	3.3	0.6	0.7	95.26	93.95	93.2	90.4	89.0	85.0	241	186		

GEORGIA

Aug.	17.0	18.1	3.98	3.63	13.3	13.5	1.1	1.3	0.5	0.5	96.60	99.02	98.0	97.5	94.5	96.5	1,127	978
Sept.	17.9	18.3	4.16	3.84	11.1	10.8	1.2	1.7	.5	.5	101.29	101.25	99.1	97.1	100.5	98.5	2,419	2,594
Oct.	18.3	18.4	4.17	3.93	10.6	10.5	2.1	3.0	.6	.7	103.39	102.37	95.9	92.9	99.0	95.0	1,898	2,367
Nov.	18.6	18.7	4.19	3.99	9.2	9.8	3.2	3.3	.8	.9	104.36	103.54	92.3	91.6	96.5	95.0	1,020	900
Dec.	18.4	18.5	4.13	3.94	10.2	10.4	3.1	3.3	.8	1.0	103.41	102.62	93.0	90.9	96.0	93.5	466	340
Jan.	18.5	18.3	4.16	3.96	10.7	10.4	2.7	2.9	.9	1.0	103.75	101.26	93.6	93.3	97.0	94.5	257	135
Feb.	18.2	18.5	4.15	4.00	10.7	9.7	2.8	2.6	.7	.7	102.63	102.91	94.0	94.9	96.5	97.5	91	82
Mar.-July	18.1	18.3	4.19	4.06	10.1	10.0	3.9	1.9	.9	.8	102.60	102.32	90.5	98.1	93.0	100.5	96	15
Season	18.0	18.4	4.14	3.87	11.0	10.9	1.9	2.4	0.6	0.7	101.79	101.68	96.4	94.8	98.0	96.5	7,374	7,411

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1952-1953, (continued)

ILLINOIS

Month	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality							
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	No.	No.		
Aug.	-	19.3	-	3.99	-	8.5	-	0.7	-	0.7	-	106.14	-	100.0	-	106.0	-	1		
Sept.	19.6	18.6	3.59	3.91	14.3	8.7	0.5	1.0	0.4	.7	104.94	102.66	97.7	98.7	102.5	101.5	1	7		
Oct.	19.5	18.9	3.84	3.92	10.9	8.7	.6	.4	.6	.3	105.98	104.36	99.9	100.0	106.0	104.5	10	17		
Nov.	18.7	18.7	3.70	3.84	8.9	9.1	.7	.4	1.6	.6	102.09	102.81	99.2	99.9	101.0	102.5	11	10		
Dec.	16.9	17.9	3.44	3.82	12.6	6.3	.8	.3	1.2	.8	92.91	99.41	90.9	99.9	92.0	99.5	4	3		
Jan.	15.4	17.5	3.38	3.64	13.7	11.9	.7	.5	2.1	1.3	84.68	96.84	97.2	99.4	82.5	96.5	1	3		
Feb.	15.4	18.1	3.21	3.70	13.2	10.3	1.5	.6	4.0	1.4	83.63	99.60	95.9	99.6	80.0	99.0	2	1		
Mar.-July	15.8	17.6	3.32	4.07	12.4	9.4	2.5	.5	2.2	.7	86.46	99.82	95.7	100.0	82.5	100.0	5	1		
Season	18.0	18.6	3.61	3.87	11.0	8.9	1.0	0.5	1.5	0.6	98.34	102.68	98.5	99.7	97.0	102.5	34	43		

KENTUCKY

Sept.	17.4	18.3	3.77	4.02	14.2	8.3	0.6	0.5	0.4	0.4	97.21	102.50	97.8	100.0	95.0	102.5	22	36
Oct.	18.3	18.3	3.94	3.93	10.4	8.2	.4	.4	.5	.5	102.04	101.93	99.8	100.0	102.0	102.0	41	45
Nov.	17.8	18.4	3.93	3.85	10.0	8.5	2.2	.3	3.1	.8	99.75	101.54	99.4	99.8	99.0	101.5	19	21
Dec.	16.6	17.7	3.66	3.69	11.8	10.2	.6	.3	3.6	2.5	92.79	97.99	97.0	98.4	90.0	96.5	11	11
Jan.	15.8	16.6	3.51	3.64	12.9	13.9	1.0	.3	3.9	2.7	87.87	93.24	96.0	96.4	84.5	90.0	6	1
Feb.	15.1	-	3.23	-	16.1	-	2.7	-	7.4	-	81.98	-	85.4	-	70.0	-	2	-
Mar.-July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Season	17.6	18.3	3.83	3.92	11.5	8.5	0.9	0.4	1.6	0.7	98.31	101.58	98.5	99.8	97.0	101.5	101	114

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1952-1953, (Continued)

LOUISIANA

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index				Average grade		Samples	
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953
Aug.	17.3	17.3	3.91	3.79	14.9	14.4	1.5	1.1	0.6	0.6	97.36	96.87	95.0	96.5	92.5	93.5	984	364
Sept.	18.2	18.4	4.06	3.98	10.1	10.6	.8	1.3	.5	.6	101.93	102.40	99.4	97.8	101.5	100.0	3,798	2,974
Oct.	18.7	19.1	4.18	4.08	7.8	8.0	.7	.6	.7	.5	104.99	105.96	99.7	99.8	104.5	105.5	2,893	3,503
Nov.	18.6	18.7	4.15	4.11	7.5	8.6	.6	.5	.9	.6	104.42	104.34	99.5	99.9	104.0	104.0	1,047	2,255
Dec.	18.2	18.4	4.08	4.06	9.7	9.8	.5	.5	.9	.7	102.09	103.03	99.7	99.8	102.0	103.0	399	959
Jan.	17.8	18.4	4.05	4.03	10.1	10.4	.7	.6	1.2	.9	100.55	102.67	99.3	99.6	100.0	102.5	143	364
Feb.	17.4	18.4	4.01	3.99	10.9	10.3	1.0	1.1	1.7	1.1	97.95	102.56	98.4	98.5	96.5	101.0	52	116
Mar.-July	17.7	18.0	4.07	4.11	9.8	9.0	1.2	1.2	1.8	1.2	99.96	101.57	97.7	97.5	97.5	99.0	61	91
Season	18.3	18.6	4.09	4.05	9.6	9.4	0.8	0.8	0.7	0.6	102.62	103.86	99.0	99.1	101.5	103.0	9,377	10,626

MISSISSIPPI

Aug.	17.7	17.7	3.93	3.86	12.1	13.7	0.8	1.0	0.5	0.5	99.16	99.10	98.5	97.6	97.5	96.5	1,532	540
Sept.	18.5	18.4	4.09	3.97	9.9	10.1	.5	.7	.4	.4	103.46	102.41	99.8	99.2	103.5	101.5	9,391	8,735
Oct.	19.0	19.3	4.18	4.08	8.1	8.1	.5	.5	.5	.5	105.89	106.67	99.9	99.9	106.0	106.5	6,965	9,587
Nov.	19.0	19.1	4.16	4.12	7.7	7.9	.5	.4	.7	.6	106.00	106.21	99.8	99.8	106.0	106.0	3,797	4,863
Dec.	18.6	18.8	4.02	4.04	9.6	9.2	.6	.5	1.0	.7	103.51	104.50	99.3	99.8	103.0	104.5	1,096	1,849
Jan.	18.4	18.6	3.93	4.00	10.8	10.1	.7	.5	1.3	1.2	102.04	103.33	99.2	99.4	101.0	102.5	496	622
Feb.	18.3	18.6	3.92	4.01	11.2	10.2	1.0	.8	1.7	1.4	101.58	103.03	98.4	98.6	100.0	101.5	185	356
Mar.-July	18.6	18.7	4.06	4.01	9.6	9.7	1.0	1.1	1.3	1.1	103.51	103.79	98.4	98.3	102.0	102.0	392	347
Season	18.7	18.9	4.11	4.04	9.2	9.0	0.5	0.6	0.6	0.5	104.26	104.74	99.7	99.6	104.0	104.5	23,854	26,899

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1952-1953, (Continued)

MISSOURI

Month	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1952		1953	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1952	1953	1952	1953	No.	No.	1952	1953
Aug.	18.4	17.7	3.80	3.81	10.0	9.3	10.1	2.6	3.1	4.9	102.60	97.99	80.3	90.3	82.5	88.5	22	18
Sept.	18.3	18.5	3.93	4.07	12.1	8.2	.8	.5	.6	.5	101.96	103.59	98.7	99.8	100.5	103.5	1,548	1,831
Oct.	19.3	18.9	4.06	3.96	8.8	8.1	.4	.4	.5	.5	106.52	104.52	99.9	99.9	106.5	104.5	2,269	2,466
Nov.	18.5	19.0	3.86	3.86	7.9	8.5	.5	.4	1.8	.9	102.34	104.29	99.1	99.8	101.5	104.0	1,338	1,212
Dec.	17.0	18.4	3.52	3.66	12.1	10.8	.7	.4	2.8	1.9	93.82	100.50	97.5	98.7	91.5	99.0	414	432
Jan.	16.5	18.0	3.43	3.55	12.9	11.8	1.0	.5	3.4	2.7	90.80	98.28	96.5	97.8	87.5	96.0	276	189
Feb.	16.1	18.1	3.39	3.59	13.2	11.4	1.5	.9	4.8	3.3	88.64	99.00	94.3	97.0	83.5	96.0	111	102
Mar.-July	17.0	18.6	3.54	3.76	11.7	9.8	1.8	1.2	3.8	3.5	93.46	101.68	94.2	96.2	88.0	98.0	161	69
Season	18.5	18.8	3.89	3.93	10.0	8.5	0.7	0.4	1.3	0.8	102.21	103.61	98.8	99.6	101.0	103.0	6,139	6,319

NEW MEXICO (Upland only)

Aug.	-	19.6	-	4.37	-	7.2	-	1.5	-	8.8	-	110.12	-	92.2	-	101.5	-	1
Sept.	21.0	21.2	3.83	3.75	8.3	7.0	0.6	.6	0.6	.7	110.82	113.40	99.8	99.9	110.5	113.5	96	72
Oct.	21.5	21.1	3.80	3.74	7.4	7.2	.5	.5	.5	.9	113.59	112.00	100.0	99.9	113.5	112.0	526	596
Nov.	21.1	19.7	3.74	3.69	6.7	8.3	.5	.4	.9	1.5	111.74	106.23	99.8	99.3	111.5	105.5	365	568
Dec.	18.9	19.3	3.62	3.70	7.7	7.6	.6	.5	2.5	3.4	102.26	103.93	98.5	97.4	100.5	101.0	216	320
Jan.	18.0	18.2	3.58	3.60	8.0	7.8	.8	.7	3.3	4.9	97.27	99.07	97.6	96.0	95.0	95.0	162	197
Feb.	18.3	17.8	3.62	3.58	7.4	7.4	.8	.8	5.1	6.4	98.30	97.44	95.8	92.8	94.0	90.5	37	51
Mar.-July	18.8	18.3	3.61	3.94	7.9	6.9	1.2	1.9	5.0	6.5	102.04	103.07	95.1	91.5	97.0	94.5	10	14
Season	20.4	19.9	3.73	3.70	7.4	7.7	0.6	0.5	1.4	2.2	108.84	106.96	99.3	98.6	103.0	105.5	1,412	1,819

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1952-1953, (continued)

NORTH CAROLINA

Month	Cottonseed analysis												Average index		Average grade		No.	No.		
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1952	1953			1952	1953
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953						
	<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>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>No.</u>	<u>No.</u>	
Aug.	17.2	17.3	3.64	3.79	15.9	12.0	3.2	3.0	0.4	0.5	95.58	96.57	92.6	92.0	85.5	89.0	22	37		
Sept.	18.7	18.6	3.72	4.03	13.0	9.6	1.1	.7	.5	.5	102.35	103.76	98.2	99.6	100.5	103.5	1,022	2,173		
Oct.	19.1	18.6	3.75	4.02	11.5	10.4	1.6	.7	.6	.5	104.07	103.46	97.5	99.8	101.5	103.5	2,280	2,802		
Nov.	19.5	18.5	3.85	4.05	9.1	9.9	2.4	.9	.7	.6	106.16	103.58	95.4	99.7	101.5	103.5	2,166	1,251		
Dec.	19.0	18.2	3.75	3.98	11.2	10.4	2.9	1.0	.8	.8	103.54	102.16	93.6	99.3	97.0	101.5	1,222	449		
Jan.	18.9	18.3	3.74	4.00	11.3	10.6	3.5	1.8	1.2	.9	103.05	102.31	91.7	98.1	94.5	100.5	455	81		
Feb.	18.8	18.0	3.75	4.02	11.2	10.3	4.3	1.3	1.2	1.3	102.87	101.88	88.8	98.5	91.5	100.5	250	52		
Mar.-July	18.9	18.5	3.76	4.00	10.5	10.2	3.6	1.7	1.3	1.3	102.77	103.16	91.2	96.2	93.5	99.0	188	49		
Season	19.1	18.6	3.77	4.03	10.9	10.1	2.2	0.8	0.7	0.6	104.19	103.43	95.6	99.6	99.5	103.0	7,605	6,894		

OKLAHOMA

Aug.	15.8	16.6	4.36	4.30	7.2	8.5	0.5	1.0	2.9	1.5	98.15	96.78	98.0	99.5	96.0	96.5	4	7
Sept.	17.1	17.9	4.22	4.29	7.8	8.0	.5	.4	.6	.7	99.91	102.28	99.9	100.0	100.0	102.5	445	507
Oct.	18.0	17.6	4.29	4.25	6.7	8.2	.4	.4	.8	.8	103.47	100.97	99.9	99.7	103.5	100.5	1,469	2,440
Nov.	17.9	17.1	4.23	4.12	6.9	11.1	.5	.5	1.1	.9	101.95	97.82	99.7	99.6	101.5	97.5	866	1,592
Dec.	17.2	17.5	4.14	4.17	7.8	10.2	.6	.5	1.2	1.2	98.26	99.86	99.7	99.7	98.0	99.5	396	900
Jan.	16.9	17.4	4.11	4.13	8.2	9.6	.8	.6	1.7	1.5	96.48	99.43	98.8	99.4	95.5	99.0	143	301
Feb.	16.9	17.1	4.20	4.23	8.2	9.2	.9	.7	1.3	1.8	96.80	99.11	99.1	99.2	96.0	98.5	56	77
Mar.-July	16.8	17.2	4.28	4.24	7.7	9.2	.7	1.0	2.0	2.0	97.41	98.55	98.9	98.7	96.5	97.5	16	53
Season	17.7	17.5	4.24	4.20	7.1	9.4	0.5	0.5	0.9	0.9	101.57	99.93	99.8	99.7	101.5	99.5	3,395	5,877

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1952-1953, (continued)

SOUTH CAROLINA

Month	Cottonseed analysis										Average Index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1952		1953	
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	No.	No.	1952	1953
Aug.	17.1	17.8	3.78	3.75	14.0	14.0	1.0	1.2	0.4	0.4	95.70	98.67	97.7	97.1	399	663	93.5	96.0
Sept.	18.0	18.4	3.91	3.98	11.9	10.1	1.4	.8	.5	.4	100.56	102.54	98.4	99.7	1,725	3,086	99.0	102.0
Oct.	18.5	18.3	3.99	4.02	10.7	10.0	4.9	1.7	.6	.5	103.11	102.60	86.2	98.0	2,065	2,452	89.0	100.5
Nov.	18.8	18.4	4.08	4.07	9.0	9.6	7.7	2.4	.8	.6	104.86	102.92	75.2	96.0	1,515	1,062	79.0	99.0
Dec.	18.4	18.1	4.03	4.00	10.4	10.1	8.5	2.8	.7	.7	102.71	101.04	72.1	94.1	936	477	74.0	95.0
Jan.	18.2	18.0	4.05	3.93	10.5	10.5	8.3	3.2	.8	.9	101.91	101.09	72.8	93.2	408	196	74.0	94.0
Feb.	18.1	18.1	4.04	4.04	10.3	10.0	8.2	3.0	.8	1.2	101.23	101.72	74.4	92.5	246	77	75.5	94.0
Mar.-July	18.4	18.3	4.03	4.09	10.2	9.3	6.7	2.5	.7	.7	102.65	102.54	79.7	94.4	145	45	82.0	97.0
Season	18.3	18.3	3.99	3.99	10.7	10.3	5.2	1.5	0.6	0.5	102.29	102.16	84.4	97.9	7,439	8,058	86.5	100.0

TENNESSEE

Aug.	18.7	18.2	3.87	3.89	12.4	8.9	6.4	2.9	0.8	1.9	101.09	101.04	78.8	92.7	26	13	79.5	93.5
Sept.	18.7	19.1	4.06	4.01	12.4	8.8	.5	.5	.4	.3	104.24	105.33	99.0	99.9	2,427	2,365	103.0	105.0
Oct.	19.1	19.5	4.11	3.95	9.5	8.4	.4	.4	.4	.4	106.09	106.61	99.9	100.0	3,561	3,908	106.0	106.5
Nov.	18.9	19.6	4.01	3.87	8.1	8.3	.5	.4	1.2	.7	104.48	106.69	99.6	99.8	2,060	2,324	104.0	106.5
Dec.	18.0	19.0	3.77	3.73	11.2	10.5	.6	.4	2.0	1.4	99.38	103.31	98.6	99.3	706	949	98.0	102.5
Jan.	17.4	18.6	3.69	3.65	12.0	11.5	.8	.4	2.6	1.9	96.59	101.41	97.7	98.7	224	281	94.5	100.0
Feb.	17.2	18.7	3.61	3.71	12.4	11.1	1.1	.8	2.8	1.9	95.12	102.12	97.0	98.4	82	109	92.5	100.5
Mar.-July	18.1	19.0	3.88	3.91	10.9	9.7	1.4	1.1	2.5	1.6	100.72	104.36	96.8	97.0	78	88	97.5	101.0
Season	18.8	19.3	4.03	3.91	10.2	8.8	0.5	0.4	0.8	0.6	104.33	105.80	99.3	99.8	9,164	10,037	103.5	105.5



Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1952-1953, (continued)

TEXAS (Upland only)

Month	Cottonseed analysis												Average index			Average grade		Samples		
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1952	1953	1952	1953	1952	1953
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	1952	1953	1952	1953	No.	No.	No.	No.		
Aug.	18.0	17.9	4.16	4.15	9.1	8.4	0.6	0.7	0.5	0.6	101.69	101.14	99.6	99.7	101.5	101.0	2,661	1,537		
Sept.	17.2	17.9	4.17	4.12	7.4	8.1	.6	1.9	.8	.8	97.66	101.08	99.6	95.3	97.5	96.5	3,631	3,653		
Oct.	19.1	18.9	4.21	4.13	7.0	7.3	.6	.7	.9	.9	103.84	104.45	99.7	98.7	103.5	103.0	5,893	8,523		
Nov.	19.6	18.4	4.11	4.03	6.8	9.5	.5	.5	1.4	1.1	103.63	101.19	99.4	99.5	103.0	100.5	5,203	7,213		
Dec.	18.6	18.9	4.01	4.07	7.6	8.2	.6	.6	2.1	2.2	97.98	99.84	98.7	98.5	96.5	98.5	3,432	6,642		
Jan.	18.1	18.5	3.99	4.06	7.8	8.0	.8	.9	2.9	2.6	96.54	98.97	97.6	98.1	94.5	97.0	1,410	1,976		
Feb.	17.9	18.2	4.02	4.04	7.5	8.1	.8	.9	3.7	2.3	97.13	99.46	97.1	98.3	94.5	98.0	428	648		
Mar.-July	18.2	18.4	4.04	4.10	11.4	8.6	.8	.7	1.4	1.0	100.91	101.89	97.8	99.2	99.0	101.0	1,009	1,604		
Season	18.6	18.6	4.12	4.09	7.6	8.3	0.6	0.8	1.3	1.3	101.07	101.63	99.2	98.5	100.5	100.0	23,667	31,796		
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VIRGINIA																				
Sept.	18.0	18.9	3.60	4.19	13.3	10.4	1.1	0.7	0.6	0.7	99.92	105.79	98.0	99.3	98.0	105.0	69	71		
Oct.	19.0	18.7	3.51	4.11	12.5	10.9	.8	.7	.5	.6	101.95	104.47	98.9	100.5	101.0	105.0	100	146		
Nov.	19.2	18.2	3.61	4.14	9.3	10.7	.8	.6	.6	.7	103.54	102.78	99.9	99.8	103.5	102.5	88	44		
Dec.	18.4	17.9	3.50	4.13	11.7	11.1	1.2	.7	.9	.8	99.79	101.41	98.7	99.8	98.5	101.0	38	16		
Jan.	18.4	17.6	3.54	4.04	12.0	11.8	1.3	1.0	1.2	1.1	99.87	99.77	97.9	99.3	98.0	99.0	20	6		
Feb.	18.0	17.7	3.48	4.04	11.7	10.5	2.6	1.0	1.2	1.2	98.10	99.89	95.7	99.6	94.0	99.5	6	5		
Mar.-July	18.6	17.9	3.51	4.06	11.2	9.3	3.1	1.2	1.3	1.1	100.50	101.06	93.3	98.8	94.0	100.0	17	5		
Season	18.7	18.6	3.59	4.13	11.6	10.7	1.1	0.7	0.7	0.7	101.44	104.13	98.6	100.0	100.0	104.0	338	293		

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1952-1953

ALABAMA

Dist. No.	Cottonseed analysis										Average index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1952		1953	
	1952	1953	Pct.	Pct.	1952	1953	Pct.	Pct.	1952	1953	Pct.	Pct.	1952	1953	No.	No.	1952	1953
1	18.5	18.6	4.20	4.05	9.7	8.3	0.6	0.5	0.7	0.6	104.38	103.56	99.9	99.9	104.5	103.5	584	695
2	18.8	18.7	4.12	4.11	10.3	8.4	.7	.5	.6	.5	105.14	104.55	99.7	99.9	105.0	104.5	3,766	4,310
3	19.1	18.8	4.03	4.04	10.7	9.5	.7	.5	.5	.5	105.79	104.35	99.6	99.9	105.5	104.0	1,139	1,139
4	17.5	18.5	4.21	3.87	10.2	9.4	.7	.6	.5	.5	100.45	102.41	99.9	99.8	100.5	102.0	920	1,083
5	17.5	17.7	4.25	3.95	10.6	9.9	1.5	.9	.6	.6	100.60	99.65	98.8	99.6	99.5	99.5	1,097	1,166
6	18.0	18.5	4.14	3.93	11.1	10.4	1.4	.7	.3	.3	101.82	102.13	98.5	99.7	100.5	102.0	790	653
7	17.1	17.9	4.05	3.76	11.5	11.3	1.3	1.4	.5	.4	97.56	99.18	98.7	98.5	96.5	97.5	171	171
8	16.9	17.5	4.05	3.76	12.5	11.7	1.7	1.5	.5	.7	96.57	97.50	97.5	98.0	94.0	95.5	1,304	1,019
9	16.9	17.3	4.02	3.75	13.3	11.8	2.3	1.4	.5	.6	96.58	96.71	94.8	97.8	91.5	94.5	1,704	1,088
State	18.0	18.3	4.11	3.98	11.1	9.5	1.2	0.8	0.6	0.5	101.77	102.15	98.6	99.5	100.5	101.5	11,475	11,324

ARKANSAS

1	15.7	19.4	3.61	3.84	11.1	8.2	0.9	0.5	3.0	-	87.60	105.64	97.4	100.0	85.5	105.5	7	1
2	18.6	18.7	4.21	4.16	9.2	8.9	.5	.4	1.1	1.2	104.75	105.17	99.6	99.1	104.5	104.0	43	165
3	18.6	19.0	3.98	3.93	9.9	8.7	.6	.4	1.2	.8	103.09	104.41	98.9	99.6	102.0	104.0	8,847	9,409
4	18.9	18.9	4.01	4.11	9.1	8.3	.4	.5	.8	.8	104.92	105.16	99.8	99.6	104.5	104.5	254	316
5	18.8	18.7	4.12	4.23	9.2	8.3	.5	.4	1.1	.7	104.96	105.07	99.3	99.9	104.0	105.0	401	410
6	18.9	19.1	4.04	4.00	9.4	8.8	.5	.4	.9	.7	104.79	105.48	99.5	99.7	104.5	105.0	7,668	8,738
7	18.8	19.4	4.12	3.89	8.3	8.8	.5	.4	.5	.6	104.82	106.35	99.7	99.9	104.5	106.0	476	445
8	18.3	19.0	4.13	3.99	8.3	8.1	.4	.4	.6	.5	103.11	104.73	99.9	100.0	103.0	104.5	395	424
9	19.0	19.1	4.12	4.07	9.0	8.5	.4	.4	.7	.8	105.52	105.92	99.8	99.8	105.5	105.5	2,550	3,474
State	18.7	19.0	4.03	3.99	9.5	8.7	0.6	0.4	1.0	0.8	104.12	105.10	99.3	99.7	103.5	105.0	20,641	23,382

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1952-1953, (Continued)

GEORGIA

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples							
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1952		1953		1952		1953		No.		No.	
			1952	1953	Pct.	Pct.	1952	1953	Pct.	Pct.																
1	19.5	19.0	4.00	3.96	10.9	9.9	0.7	0.6	0.7	0.6	106.89	104.96	99.5	99.8	106.5	105.0	733	681								
2	18.9	18.6	4.22	4.04	10.5	10.3	.8	.7	.4	.3	105.74	103.48	99.5	99.8	105.0	103.5	377	350								
3	18.7	18.6	4.24	4.09	10.1	9.8	.6	.6	.2	.2	105.32	103.79	99.9	99.9	105.0	103.5	407	393								
4	18.6	19.0	4.24	3.90	10.6	10.5	1.2	1.4	.3	.5	104.96	104.06	98.9	98.2	104.0	102.0	707	714								
5	17.9	18.2	4.19	3.88	10.5	10.7	1.9	2.1	.6	.7	101.96	101.07	97.0	96.2	99.0	97.0	1,248	1,383								
6	17.7	18.3	4.08	3.91	10.5	10.7	2.5	1.9	.9	.7	100.22	101.90	94.9	96.5	95.0	98.5	1,427	1,608								
7	17.2	17.7	4.16	3.75	12.1	11.6	2.5	2.4	.6	.8	98.66	98.04	94.6	95.2	93.5	93.5	750	624								
8	17.4	18.1	4.13	3.73	11.9	11.9	2.4	5.0	.6	1.0	99.37	99.96	94.9	85.3	94.5	85.5	1,261	1,308								
9	17.3	18.4	4.05	3.66	11.2	11.9	3.3	4.4	.6	.7	98.63	100.55	92.3	88.3	91.0	89.0	464	350								
State	18.0	18.4	4.14	3.87	11.0	10.9	1.9	2.4	0.6	0.7	101.79	101.68	96.4	94.8	98.0	96.5	7,374	7,411								

LOUISIANA

1	18.5	18.7	4.18	4.19	8.7	8.5	0.6	0.5	0.5	0.5	103.82	105.02	99.6	99.9	103.5	105.0	1,688	1,738
2	17.7	18.5	4.22	4.07	8.5	9.1	.5	.5	.8	.5	101.20	103.27	99.7	99.8	101.0	103.0	596	603
3	18.4	18.8	4.18	4.13	8.2	8.6	.4	.5	.6	.6	103.30	104.95	99.8	99.8	103.0	104.5	3,004	4,427
4	18.4	18.9	4.14	4.09	8.5	8.7	.7	.6	1.0	.7	103.39	105.33	99.4	99.7	103.0	105.0	668	738
5	18.4	18.4	3.95	3.85	11.3	11.0	1.1	1.3	.8	.7	102.38	101.74	98.4	98.1	100.5	100.0	2,497	2,505
6	17.5	18.6	3.86	3.64	12.1	11.9	1.1	2.2	.7	.5	98.30	100.81	98.4	95.3	96.5	96.0	390	339
7	17.5	16.2	3.89	3.86	13.5	14.3	1.9	2.6	.7	.7	98.21	92.87	95.9	92.0	94.0	85.5	171	37
8	17.9	18.0	3.99	3.93	13.1	11.4	2.3	2.3	.6	.6	100.56	100.58	94.6	94.0	95.0	94.5	322	213
9	18.4	18.1	3.83	3.72	11.2	11.1	1.7	2.9	.7	.7	102.38	98.02	97.9	94.3	100.0	92.5	41	26
State	18.3	18.6	4.09	4.05	9.6	9.4	0.8	0.8	0.7	0.6	102.62	103.86	99.0	99.1	101.5	103.0	9,377	10,626

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1952-1953 (Continued)

MISSISSIPPI

Dist. No.	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average Index				Average grade		Samples		
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	Quantity		Quality		1952	1953	1953	1953	
											1952	1953	1952	1953					
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.								No.	No.
1	19.0	18.8	4.08	4.10	9.1	8.8	0.5	0.4	0.8	0.7	105.24	104.91	99.6	99.8	105.0	104.5	5,079	4,757	
2	19.0	19.0	4.09	3.99	8.8	8.6	.5	.4	.5	.5	105.33	104.89	99.8	99.9	105.0	105.0	3,133	3,450	
3	19.1	19.2	4.12	3.99	9.3	8.6	.4	.4	.4	.4	106.14	105.89	99.9	100.0	106.0	106.0	1,895	1,994	
4	19.0	18.8	4.13	4.18	8.4	8.7	.5	.5	.6	.6	105.67	105.56	99.7	99.7	105.5	105.0	5,396	7,500	
5	18.3	18.8	4.19	4.02	9.1	9.1	.5	.5	.5	.4	103.41	104.35	99.9	99.6	103.5	104.0	2,748	3,418	
6	18.2	18.4	4.24	4.03	9.1	8.8	.4	.5	.5	.5	102.80	103.09	99.9	99.8	102.5	103.0	1,357	1,501	
7	18.0	19.1	4.07	3.89	9.8	9.8	.6	.8	.6	.5	101.40	104.66	99.7	99.1	101.0	103.5	1,423	1,528	
8	17.8	18.9	4.02	3.71	10.6	10.8	.7	1.5	.6	.5	100.38	102.78	99.3	97.7	99.5	100.5	2,012	1,895	
9	17.7	18.6	4.08	3.81	10.8	10.4	.8	1.2	.5	.5	100.13	102.31	99.4	98.8	99.5	101.0	811	856	
State	18.7	18.9	4.11	4.04	9.2	9.0	0.5	0.6	0.6	0.5	104.26	104.74	99.7	99.6	104.0	104.5	23,854	26,899	

NORTH CAROLINA

2	19.4	18.5	3.58	4.03	11.1	9.8	1.1	0.8	0.6	0.5	104.00	103.15	99.1	99.8	103.0	103.0	521	337
3	19.4	18.9	3.59	3.98	11.2	10.3	1.4	.8	.8	.7	104.15	104.34	98.5	99.5	102.5	104.0	1,706	1,481
4	19.5	19.3	3.82	4.08	10.1	9.5	.6	.5	.3	.4	105.74	106.46	99.5	100.0	105.0	106.5	138	104
5	19.0	18.4	3.82	4.16	10.7	9.9	1.0	.6	.5	.4	104.14	103.93	99.2	99.6	103.5	103.5	610	398
6	19.1	18.3	3.76	3.94	10.8	10.0	2.1	.8	1.0	.7	104.16	101.96	96.9	99.7	101.0	101.5	1,086	1,164
8	19.0	18.7	3.90	4.17	11.1	10.5	1.1	.6	.5	.3	104.47	104.66	98.5	99.6	103.0	104.0	1,648	1,345
9	18.9	18.4	3.87	3.98	10.6	9.8	4.7	1.0	.9	.6	103.96	102.59	87.3	99.5	91.0	102.0	1,896	2,065
State	19.1	18.6	3.77	4.03	10.9	10.1	2.2	0.8	0.7	0.6	104.19	103.43	95.6	99.6	99.5	103.0	7,605	6,894

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1952-1953 (continued)

OKLAHOMA

Dist. No.	Cottonseed analysis														Average index		Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index				Average grade		Samples			
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	Quantity	Quality	1952	1953	1952	1953	No.	No.		
2	17.8	16.7	4.29	4.25	7.4	15.0	0.6	2.0	1.7	3.8	101.82	97.01	99.3	86.0	101.0	83.5	13	14		
3	18.5	17.9	4.24	4.16	7.3	9.3	.5	.4	.9	1.0	104.32	101.89	99.7	99.7	104.0	101.5	108	176		
4	17.9	17.2	4.30	4.26	6.9	9.3	.5	.5	1.2	1.1	102.80	98.84	99.6	99.6	102.5	98.5	706	1,109		
5	17.5	17.5	4.32	4.19	6.9	9.5	.6	.4	1.1	1.0	101.25	99.86	99.7	99.7	101.0	99.5	342	612		
6	18.1	18.1	4.15	4.00	8.5	10.1	.4	.5	.8	1.0	102.22	101.60	99.8	99.8	102.0	101.5	467	841		
7	17.3	17.2	4.22	4.27	6.9	9.1	.5	.4	.9	.7	100.61	99.26	99.8	99.8	100.5	99.0	1,505	2,407		
8	17.5	17.8	4.31	4.14	6.7	9.3	.7	.5	.7	1.1	100.87	101.04	99.4	99.5	100.5	100.5	164	622		
9	18.6	19.0	4.08	3.89	8.2	9.3	.4	.4	.8	.8	103.73	104.59	99.9	99.9	103.5	104.5	90	96		
State	17.7	17.5	4.24	4.20	7.1	9.4	0.5	0.5	0.9	0.9	101.57	99.93	99.8	99.7	101.5	99.5	3,395	5,877		

SOUTH CAROLINA

1	19.0	18.4	4.02	4.11	9.9	9.7	0.7	0.5	0.3	0.3	105.29	103.35	99.7	99.8	105.0	103.0	863	725
2	18.9	18.5	3.91	4.17	11.0	10.2	1.9	.7	.4	.4	104.26	103.93	97.2	99.7	101.5	103.5	659	593
3	18.5	18.4	3.95	4.01	10.6	9.9	7.3	1.8	.7	.6	102.91	102.80	76.9	97.3	79.0	100.0	2,225	2,395
4	18.3	18.2	4.17	4.01	10.4	10.1	1.7	.9	.5	.4	103.18	102.06	97.6	99.6	100.5	101.5	477	948
5	18.1	18.2	3.99	3.93	10.9	10.6	7.1	1.8	.7	.5	101.34	101.22	77.7	97.0	78.5	98.0	2,392	2,502
8	17.3	18.2	4.00	3.85	11.4	11.5	3.6	1.7	.8	.6	98.13	101.02	90.1	97.3	88.5	98.5	823	895
State	18.3	18.3	3.99	3.99	10.7	10.3	5.2	1.5	0.6	0.5	102.29	102.16	84.4	97.9	86.5	100.0	7,439	8,058

Table 5. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1952-1953, (Continued)

TENNESSEE

Dist. No.	Cottonseed analysis												Average Index				Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average Index				Average grade		Samples			
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	Quantity	Quality	1952	1953	1952	1953	No.	No.		
1	18.6	19.2	3.95	3.84	10.4	9.1	0.5	0.4	0.8	0.6	103.22	105.01	99.2	99.7	102.5	104.5	3,839	4,209		
2	19.0	19.5	4.06	3.94	10.0	8.6	.5	.4	.8	.6	105.31	106.79	99.4	99.8	104.5	106.5	4,554	4,884		
3	18.7	18.9	4.19	4.16	10.0	8.3	.6	.4	.7	.6	104.94	105.02	99.8	99.9	104.5	105.0	389	382		
4	18.2	18.5	4.19	4.09	10.3	8.6	.6	.5	.7	.5	103.24	103.73	99.9	99.9	103.0	103.5	295	460		
5	18.4	18.5	4.08	4.03	10.4	9.1	.6	.5	.7	.5	102.80	103.27	98.3	99.9	101.0	103.0	67	77		
6	18.4	18.4	3.99	3.98	10.3	9.8	.7	.5	.9	.8	102.68	102.48	99.7	99.9	102.5	102.5	20	26		
State	18.8	19.3	4.03	3.91	10.2	8.8	0.5	0.4	0.8	0.6	104.33	105.80	99.3	99.8	103.5	105.5	9,164	10,037		

TEXAS (Upland only)

1	19.8	19.3	4.06	4.04	7.2	8.3	0.6	0.6	2.1	2.0	101.43	100.50	98.8	98.8	100.0	99.5	9,254	11,330
2	18.1	17.7	4.23	4.19	7.2	8.8	.5	.6	1.1	1.0	102.24	100.55	99.6	99.6	102.0	100.0	2,616	5,032
3	17.3	17.7	4.20	4.16	7.5	8.7	.5	.6	.8	.8	99.77	101.37	99.9	99.7	99.5	101.0	99	445
4	17.0	18.0	4.27	4.20	6.7	7.8	.5	.5	1.0	.9	97.33	101.97	99.7	99.6	97.0	101.5	3,897	7,033
5	17.7	18.7	4.16	3.96	7.2	8.2	.5	.9	.9	.9	100.56	103.50	99.7	98.7	100.5	102.0	1,324	2,066
6	20.8	21.0	3.80	3.64	7.0	7.1	.6	.5	1.2	1.7	110.39	110.86	99.1	97.7	109.5	108.5	1,255	1,747
7	16.7	17.3	4.28	4.26	7.6	8.4	.7	.7	.9	.8	100.10	100.75	99.6	99.6	99.5	100.5	109	372
8	16.8	17.1	4.20	4.16	7.9	8.2	.8	1.6	.6	.5	97.27	98.13	99.5	97.9	97.0	96.0	621	1,111
9	17.8	17.5	4.10	4.16	9.0	9.6	.8	5.8	.6	1.0	100.77	99.70	99.2	80.9	100.0	80.5	1,262	1,036
10	17.9	18.4	4.14	4.06	9.7	8.6	.6	.6	.6	.4	101.15	103.00	99.5	99.5	100.5	102.5	3,230	1,622
State	18.6	18.6	4.12	4.09	7.6	8.3	0.6	0.8	1.3	1.3	101.07	101.63	99.2	98.5	100.5	100.0	23,667	31,796

Table 6. Percentage distribution of quantity indexes by specified frequencies, by States and United States, 1952-1953

State	Quantity Index														Total						
	Under 65		65-69		70-74		75-79		80-84		85-89		90-94		95-99		100-104		105 and over		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
<u>Upland</u>	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	
Ala.	* 0.1	-	-	-	-	-	0.2	0.1	1.7	0.6	7.9	4.3	22.4	22.2	37.4	45.0	30.4	27.7	100.0	100.0	
Ariz.	* .2	-	-	-	-	-	-	-	.1	.1	.4	.4	3.6	3.1	30.7	15.9	65.2	80.2	100.0	100.0	
Ark.	0.1	* .1	* .1	* .1	* .1	* .1	.4	* .4	1.1	1.1	3.7	.5	9.6	5.3	32.6	35.2	52.4	58.8	100.0	100.0	
Calif.	* .1	* .1	* .1	* .1	* .1	* .1	.1	.5	1.3	1.6	6.8	3.8	20.6	15.6	37.7	37.8	33.3	40.5	100.0	100.0	
Fla.	-	-	-	-	-	-	1.7	4.8	10.0	15.1	31.9	36.1	43.1	36.0	10.8	4.8	2.1	2.7	100.0	100.0	
Ga.	* .1	-	-	-	-	-	.1	.1	.7	.2	4.5	3.0	27.7	26.0	40.7	52.6	26.2	17.9	100.0	100.0	
Ill.	-	-	-	-	-	-	2.9	-	2.9	-	17.6	2.3	11.8	18.6	26.5	60.5	29.5	18.6	100.0	100.0	
Ky.	-	-	-	-	-	-	-	-	9.9	.9	10.9	1.8	32.7	15.8	38.6	81.5	6.9	-	100.0	100.0	
La.	.1	.1	* .1	* .1	* .1	* .1	.2	.1	.6	.6	2.7	3.0	18.5	12.5	48.9	36.9	28.9	46.7	100.0	100.0	
Miss.	.1	.1	* .1	* .1	* .1	* .1	* .1	* .1	.1	.1	1.3	1.9	10.2	9.1	40.6	33.0	47.6	55.7	100.0	100.0	
Mo.	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	3.5	.3	7.5	1.5	14.9	9.8	35.3	52.9	36.9	35.4	100.0	100.0	
N. Mex.	.1	.1	0.1	0.1	.6	0.3	1.1	.2	1.0	.5	1.2	.5	3.7	2.3	5.9	8.0	6.8	20.8	79.5	67.2	
N. C.	* .1	-	-	-	-	-	-	-	-	-	* .1	.4	.7	6.3	10.0	53.1	58.7	40.2	30.4	100.0	100.0
Okla.	* .1	-	-	-	-	-	.4	-	.4	-	1.5	.5	4.9	7.5	23.8	41.5	47.5	42.4	21.7	8.0	
S. C.	.1	.1	* .1	* .1	-	-	.1	* .1	.3	.1	3.7	1.4	20.2	17.6	50.5	64.9	25.1	15.9	100.0	100.0	
Tenn.	* .1	* .1	* .1	* .1	-	-	.2	-	.6	* .6	2.1	.2	8.4	4.0	37.6	31.8	50.9	63.9	100.0	100.0	
Tex.	.1	.1	* .1	* .1	* .1	* .1	.6	.1	2.6	.7	11.0	6.5	26.0	29.5	33.6	39.8	25.7	23.2	100.0	100.0	
Va.	-	-	-	-	-	-	-	-	-	-	3.0	-	30.8	8.9	53.5	53.9	12.7	37.2	100.0	100.0	
American- Egyptian																					
Ariz.	.2	-	-	.2	-	-	1.0	1.5	15.9	7.0	53.2	42.7	23.9	40.6	4.0	7.6	1.8	.2	100.0	100.0	
N. Mex. <sup>1/</sup>	-	-	-	-	-	.3	.3	3.0	1.6	27.3	9.9	45.4	41.3	18.2	37.0	6.1	9.6	-	100.0	100.0	
Texas <sup>1/</sup>	-	-	-	-	.4	.3	2.0	.3	9.0	1.6	13.3	9.9	40.0	41.3	29.8	37.0	5.1	9.6	.4	100.0	
U. S.	0.1	0.1	* .1	* .1	* .1	* .1	* .1	* .1	1.2	0.4	5.0	3.2	16.4	15.9	38.6	39.6	38.3	40.6	100.0	100.0	

<sup>1/</sup> American-Egyptian data for New Mexico and Texas were combined in 1952.

\* Less than 0.05 percent.

Table 7. Percentage distribution of quality indexes by specified frequencies, by States and United States, 1952-1953

State	Quality Index														Prime quality 100		Total		
	Below grade		Below prime quality																
	1952	1953	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	1952	1953	1952	1953	1952	1953	1952	1953		
Upland	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
Ala.	*	*	*	0.2	-	0.7	*	0.7	0.1	1.3	0.3	4.6	2.4	34.5	17.4	58.0	79.8	100.0	
Ariz.	-	0.1	-	-	*	.2	0.1	.1	.2	.4	.2	3.3	2.3	40.7	43.4	55.3	53.7	100.0	
Ark.	0.1	*	*	.1	*	.1	*	.2	*	.3	.2	1.6	.7	29.1	15.2	68.5	83.8	100.0	
Calif.	.1	*	*	.1	*	.4	.1	.5	.1	1.1	.4	5.7	2.1	32.4	33.6	59.7	63.7	100.0	
Fla.	-	1.6	-	0.5	2.1	4.8	1.7	5.4	7.5	12.9	10.8	23.2	23.1	46.0	34.5	8.7	11.8	100.0	
Ga.	.1	1.1	0.2	.6	1.5	2.9	2.7	3.9	2.8	2.5	4.9	7.3	7.0	33.6	28.2	46.9	49.0	100.0	
Ill.	-	-	-	-	-	-	-	-	-	-	-	5.9	2.3	55.9	14.0	38.2	83.7	100.0	
Ky.	-	-	-	-	-	1.0	-	-	-	-	-	5.0	-	51.4	15.8	42.6	84.2	100.0	
La.	.1	*	-	.1	*	.2	.3	.3	.7	1.0	1.6	3.8	3.0	24.1	16.3	70.4	76.1	100.0	
Miss.	.1	*	*	*	*	.1	.1	*	.2	.1	.3	.5	1.4	16.0	14.6	83.2	83.4	100.0	
Mo.	.2	*	.1	*	*	.2	.1	.1	.1	.4	.2	3.2	.5	44.0	19.8	51.8	79.2	100.0	
N. Mex.	-	-	-	-	-	.2	.1	.2	.1	.5	.4	2.9	6.7	31.5	55.4	65.0	37.0	100.0	
N. C.	.2	.1	.5	*	2.9	.1	3.3	.1	1.9	.1	4.1	.2	7.9	.8	37.7	19.7	41.5	78.9	100.0
Okla.	*	.1	-	-	-	-	-	-	-	*	*	.1	.2	.1	30.3	30.4	69.5	69.3	100.0
S. C.	3.0	.2	5.1	*	16.6	.5	8.7	1.2	3.3	1.2	5.4	6.1	6.5	21.7	25.1	30.1	62.1	100.0	
Tenn.	.1	*	*	*	*	*	*	*	.1	*	.1	.9	.2	37.6	14.3	61.1	85.3	100.0	
Tex.	*	.4	*	.2	.1	.8	.1	.3	.1	.3	.3	1.4	1.2	45.4	43.0	52.5	53.3	100.0	
Va.	-	-	-	-	-	1.2	-	-	.9	-	.6	3.0	1.0	54.4	32.4	39.9	66.6	100.0	
American- Egyptian																			
Ariz.	.2	-	-	-	-	.2	.2	.8	-	3.4	.4	10.3	16.7	82.3	79.2	2.8	3.5	100.0	100.0
N. Mex. 1/	-	-	-	-	-	-	-	.3	-	-	-	3.8	21.2	50.7	75.8	45.2	3.0	100.0	100.0
Texas 1/	-	-	-	-	-	-	-	.3	.8	-	3.5	3.8	19.2	50.7	61.2	45.2	15.3	100.0	100.0
U. S.	0.2	0.2	0.3	0.1	1.2	0.3	0.9	0.4	0.6	0.3	1.1	0.7	3.0	2.0	32.1	25.4	60.6	70.6	100.0

1/ American-Egyptian data for New Mexico and Texas were combined in 1952.

\* Less than 0.05 percent.



Table 8. Percentage distribution of grades by specified frequencies, by States and United States, 1952-1953

State	Grade														110.0 and over							
	Below grade		40.0-74.9		75.0-79.9		80.0-84.9		85.0-89.9		90.0-94.9		95.0-99.9		100.0		105.0		110.0 and over			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953		
<u>Upland</u>																						
Ala.	* 0.1	0.5	0.1	0.8	0.2	1.6	0.7	5.2	2.1	10.2	5.7	17.7	18.1	33.4	43.0	29.3	29.3	1.3	0.7	100.0	100.0	
Ariz.	* .1	*	.1	.1	.3	.4	.3	1.5	1.1	7.0	6.1	30.2	16.8	51.9	51.4	8.7	23.8	100.0	100.0	100.0	100.0	
Ark.	0.2	.1	.4	.1	.4	*	.9	1.2	2.1	3.8	1.2	9.5	5.9	29.5	31.5	48.6	57.8	4.6	3.0	100.0	100.0	
Calif.	.1	*	.4	.3	.6	.5	1.5	1.2	4.7	2.0	10.1	4.7	15.8	15.2	32.5	34.6	31.9	38.2	2.4	3.3	100.0	100.0
Fla.	-	1.1	3.7	16.7	6.2	8.1	12.4	12.9	29.6	16.1	28.2	16.7	16.2	24.7	2.5	3.2	.8	-	.4	.5	100.0	100.0
Ga.	.1	1.0	2.4	5.3	1.8	2.2	3.4	2.9	5.9	4.8	11.0	9.5	23.1	20.5	27.2	35.9	23.9	17.3	1.2	.6	100.0	100.0
Ill.	-	-	5.9	-	2.9	-	5.9	-	8.8	2.3	14.7	2.3	5.9	16.3	29.4	53.5	26.5	25.6	-	-	100.0	100.0
Ky.	-	-	1.0	-	-	-	5.9	.9	8.9	.9	13.9	2.6	24.8	14.9	38.6	80.7	6.9	-	-	-	100.0	100.0
La.	.1	.1	.5	.3	.4	.5	.9	1.2	1.9	2.6	4.3	4.0	17.0	10.0	45.0	33.3	27.7	43.0	2.2	5.0	100.0	100.0
Miss.	.1	.1	.1	.1	.1	.2	.1	.3	.5	1.0	2.1	3.0	9.4	7.6	38.2	30.0	45.8	52.6	3.6	5.1	100.0	100.0
Mo.	.5	*	.8	.3	1.0	.1	2.6	.2	4.5	.4	7.2	2.6	14.9	9.5	31.3	48.4	30.8	36.9	6.4	1.6	100.0	100.0
N. Mex.	.1	1.4	1.3	.7	1.6	.4	1.2	.5	1.9	1.6	4.5	5.6	5.5	10.6	6.1	16.9	14.7	28.0	63.1	34.3	100.0	100.0
N. C.	.3	.1	3.8	.2	1.6	.1	1.9	.1	2.9	.3	5.8	1.4	13.3	10.1	39.4	55.7	29.7	30.7	1.3	1.3	100.0	100.0
Okla.	.1	.2	.1	.1	.2	.1	.4	.1	1.4	.5	5.0	8.3	23.4	40.2	47.2	41.5	20.9	8.8	1.3	.2	100.0	100.0
S. C.	2.9	.2	23.9	.7	4.1	.6	4.4	1.4	5.6	2.7	8.9	6.8	15.6	19.6	22.1	52.0	12.2	15.8	.3	.2	100.0	100.0
Tenn.	.1	.2	.1	.1	.2	-	.5	.1	1.2	.1	3.3	.7	9.3	4.4	34.5	29.1	47.4	56.6	3.4	8.7	100.0	100.0
Tex.	.1	.5	.4	1.3	.5	.2	1.0	.4	3.5	1.5	12.1	9.0	25.2	28.2	31.7	36.1	19.0	17.2	6.5	5.6	100.0	100.0
Va.	-	.7	-	-	.6	-	1.5	-	.6	-	8.0	1.0	32.2	8.9	43.8	51.9	13.0	35.5	.3	2.0	100.0	100.0
<u>American-Egyptian</u>																						
Ariz.	.2	-	.4	-	2.4	1.5	7.0	4.8	33.8	24.3	40.1	45.8	12.9	20.6	1.4	3.0	1.6	-	.2	-	100.0	100.0
N. Mex. 1/	-	-	-	-	.8	3.0	1.1	18.2	3.8	24.2	14.5	33.3	40.1	15.2	30.4	6.1	6.0	-	3.3	-	100.0	100.0
Texas 1/	-	-	-	-	.8	5.9	1.1	11.4	3.8	20.0	14.5	35.6	40.1	21.6	30.4	1.6	6.0	-	3.3	-	100.0	100.0
U. S.	0.3	0.2	1.9	0.7	0.7	0.3	1.3	0.6	3.0	1.5	6.8	4.8	15.3	14.9	33.3	35.4	33.2	36.9	4.2	4.7	100.0	100.0

1/ American-Egyptian data for New Mexico and Texas were combined in 1952.

\* Less than 0.05 percent.

Table 9. Percentage of oil by specified frequencies, by States and United States, 1952-1953

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			
	1952	Pct.	1953	Pct.	1952	Pct.	1953	Pct.	1952	Pct.	1953	Pct.	1952	Pct.	1953	Pct.	1952	Pct.	1953	Pct.		1952	Pct.	1953	Pct.
<u>Upland</u>	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
Ala.	0.4	0.2	3.1	0.4	5.5	1.4	9.3	4.5	13.2	9.6	14.1	13.7	19.9	15.8	24.7	23.0	24.4	1.9	0.8	*	100.0	100.0	100.0	100.0	
Ariz.	.1	.3	*	.2	.1	.1	.2	.4	.8	.8	2.7	2.5	8.5	5.0	17.5	8.1	50.2	41.2	17.2	36.5	2.7	4.9	100.0	100.0	
Ark.	.4	.2	1.0	.1	1.4	.2	2.3	.5	3.9	1.4	7.2	3.6	13.9	10.3	23.8	23.1	40.4	53.5	5.6	6.8	.1	.3	100.0	100.0	
Calif.	.2	.3	.9	1.3	2.3	1.4	4.2	2.2	7.6	4.0	10.2	8.2	14.4	13.0	18.4	18.9	33.8	40.4	7.7	9.7	.3	.6	100.0	100.0	
Fla.	.8	3.8	17.0	12.9	21.6	15.1	26.6	21.4	18.3	19.4	8.7	16.1	4.6	6.5	.8	2.2	1.2	.5	-	1.6	.4	.5	100.0	100.0	
Ga.	.2	.2	1.2	.2	2.9	.6	8.7	2.5	16.8	7.4	21.3	16.7	16.6	25.6	13.9	23.7	16.0	21.4	2.4	1.6	*	.1	100.0	100.0	
Ill.	8.8	-	2.9	-	14.7	-	2.9	2.3	2.9	7.0	11.8	9.3	-	14.0	11.8	25.6	32.4	41.8	11.8	-	-	-	-	100.0	100.0
Ky.	1.0	-	8.9	.9	9.9	.9	3.0	1.8	16.8	2.6	18.8	16.7	13.9	32.5	15.8	40.2	11.9	4.4	-	-	-	-	-	100.0	100.0
La.	.4	.5	.7	.8	1.5	1.7	4.4	2.9	10.6	5.5	18.0	9.8	21.9	16.3	18.9	20.2	20.7	34.1	2.8	7.7	.1	.5	100.0	100.0	
Miss.	.2	.3	.2	.2	.7	.7	2.3	2.0	4.9	4.1	10.0	6.8	17.8	11.8	23.8	21.6	36.8	44.8	3.1	7.5	.2	.2	100.0	100.0	
Mo.	.7	.2	3.1	.5	3.2	.5	4.3	1.6	7.2	2.9	10.4	8.4	15.8	17.4	17.2	28.0	27.8	34.0	9.6	6.1	.7	.4	100.0	100.0	
N. Mex.	2.7	1.3	1.3	.7	1.8	.4	1.6	.9	2.3	1.7	2.1	3.1	2.5	5.6	3.0	10.4	8.8	22.3	21.0	23.4	52.9	30.2	100.0	100.0	
N. C.	.1	.3	*	.1	.1	.2	.3	.7	.9	3.3	3.1	10.9	10.5	26.5	21.1	30.4	53.2	26.0	10.3	1.6	.4	*	100.0	100.0	
Okl.	1.6	.2	4.2	2.8	5.3	8.9	10.1	18.0	17.6	21.3	20.4	19.8	19.4	15.8	12.4	8.2	8.2	4.8	.7	.2	.1	-	100.0	100.0	
S. C.	.3	.5	.7	.2	1.7	.6	4.3	1.7	8.4	6.2	14.6	17.5	21.1	29.0	23.2	28.0	23.7	16.1	1.9	.2	.1	-	100.0	100.0	
Tenn.	.2	.3	.5	*	.9	*	1.3	.2	2.9	.7	6.0	2.6	14.6	8.5	26.8	16.8	42.8	49.8	4.0	20.2	*	.9	100.0	100.0	
Tex.	1.0	.4	4.9	1.7	6.6	2.8	8.2	6.2	9.5	10.5	10.2	13.4	10.0	14.3	8.7	13.2	14.9	20.9	12.7	10.5	13.3	6.1	100.0	100.0	
Va.	-	-	.3	-	1.5	-	4.4	.3	3.3	4.8	5.9	12.6	15.4	20.8	24.6	32.9	39.6	28.3	5.0	.3	-	-	100.0	100.0	
American-Egyptian																									
Ariz.	.2	.2	-	-	-	-	-	-	-	-	-	-	.2	.2	.2	1.4	1.1	13.9	6.9	84.3	91.4	100.0	100.0	100.0	
N. Mex. 1/	.3	-	.5	-	.8	-	.3	-	1.4	-	.5	-	1.6	-	1.9	-	3.8	3.0	4.4	9.1	84.5	87.9	100.0	100.0	
Texas 1/	.3	-	.5	-	.8	-	.3	-	1.4	-	.5	.4	1.6	-	1.9	-	3.8	4.7	4.4	9.0	84.5	85.9	100.0	100.0	
U. S.	0.4	0.3	1.7	0.7	2.7	1.4	4.5	3.2	7.4	5.8	10.6	9.6	14.7	14.8	18.5	19.7	29.8	33.8	6.3	8.4	3.4	2.3	100.0	100.0	

1/ American-Egyptian data for New Mexico and Texas were combined in 1952.

\* Less than 0.05 percent.

Table 10. Percentage of ammonia by specified frequencies, by States and United States, 1952-1953

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 and over						
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.					
<u>Upland</u>																							
Ala.	0.1	0.1	*	*	-	0.1	*	0.9	*	2.8	0.7	5.6	5.1	13.3	17.6	25.3	31.6	29.6	44.9	22.3	100.0	100.0	
Ariz.	.1	.1	-	0.1	-	.1	0.1	.5	0.5	1.6	3.4	3.7	14.7	16.3	37.5	34.6	32.5	30.0	11.2	13.0	100.0	100.0	
Ark.	.1	.1	*	*	0.1	.1	.7	3.5	1.7	3.5	5.4	5.4	8.2	15.3	16.1	26.0	30.2	27.9	35.2	22.8	100.0	100.0	
Calif.	.1	.2	*	.2	.4	.9	1.8	3.8	7.7	8.9	18.4	16.6	26.3	21.7	26.4	26.0	14.7	17.1	4.2	4.6	100.0	100.0	
Fla.	-	.5	-	.5	-	7.0	.4	15.6	-	19.9	4.1	23.7	10.4	25.3	33.2	7.0	37.8	.5	14.1	-	100.0	100.0	
Ga.	*	.1	*	*	*	.2	*	1.3	.2	5.6	1.5	12.9	4.7	21.3	13.1	30.5	28.2	20.9	52.2	7.2	100.0	100.0	
Ill.	-	-	-	-	11.8	-	11.8	-	11.8	2.3	20.6	11.6	23.5	32.6	17.6	30.2	2.9	9.3	-	14.0	100.0	100.0	
Ky.	-	-	-	-	1.0	-	2.0	.9	5.9	-	8.9	7.9	26.7	18.4	40.6	38.6	9.9	24.6	5.0	9.6	100.0	100.0	
La.	.1	.2	*	*	.1	.1	.2	.8	.9	1.4	3.3	4.7	9.0	11.1	17.9	17.6	23.5	24.7	45.0	39.4	100.0	100.0	
Miss.	.1	.1	*	*	-	.1	*	.8	.2	1.3	1.1	3.2	5.2	9.1	16.1	21.0	31.8	31.8	45.5	32.6	100.0	100.0	
Mo.	*	.2	0.2	*	1.6	.6	3.9	1.9	6.2	2.8	7.5	9.1	14.7	16.9	25.4	23.6	27.1	27.4	13.4	17.5	100.0	100.0	
N.Mex.	-	.3	-	-	.1	.8	3.2	5.6	12.5	12.6	23.2	30.4	36.7	27.9	19.3	14.6	4.2	5.6	.8	2.2	100.0	100.0	
N. C.	.1	.1	-	*	.1	-	3.3	.1	12.7	.6	21.2	3.2	25.7	11.3	21.9	26.2	9.6	33.3	5.4	25.2	100.0	100.0	
Okla.	.1	.2	-	*	-	-	-	.1	*	.1	.3	1.1	2.2	3.2	7.2	9.3	18.4	21.8	71.8	64.2	100.0	100.0	
S. C.	*	.1	*	.1	*	.1	.2	.7	1.3	2.1	6.3	6.5	15.8	14.9	27.3	24.0	26.3	26.8	22.7	24.7	100.0	100.0	
Tenn.	.1	.2	*	.1	.1	*	.5	1.9	2.7	4.0	7.1	8.7	22.0	19.8	33.4	35.9	24.5	28.8	9.5	10.0	100.0	100.0	
Tex.	.1	.2	*	*	*	.1	.2	.5	.9	1.5	3.0	3.7	8.2	8.1	14.2	17.3	21.6	24.6	51.8	44.0	100.0	100.0	
Va.	-	.3	-	-	1.8	-	17.2	-	31.3	-	27.8	-	8.6	3.4	2.7	14.0	4.4	29.7	6.2	52.6	100.0	100.0	
<u>American-Egyptian</u>																							
Ariz.	.2	-	.2	-	-	-	-	-	2.6	1.7	10.9	11.7	27.6	23.9	31.0	32.3	20.1	16.5	7.4	13.9	100.0	100.0	
N. Mex.	-	-	-	-	0.3	-	0.8	3.0	6.6	30.3	15.1	33.4	27.6	24.2	27.6	9.1	17.3	-	4.7	-	100.0	100.0	
Tex.	-	0.4	-	-	.3	0.8	.8	5.5	6.6	20.0	15.1	30.9	27.6	26.7	27.6	13.7	17.3	1.6	4.7	.4	100.0	100.0	
U. S.	0.1	0.1	*	*	0.1	0.2	0.8	0.9	2.5	2.4	5.3	6.0	10.4	13.2	18.5	23.0	26.1	26.3	36.2	27.9	100.0	100.0	

1/ American-Egyptian data for New Mexico and Texas were combined in 1952.  
\* Less than 0.05 percent.

Table 11. Percentage of moisture in cottonseed samples by specified frequencies, by States and United States, 1952.

State	Moisture														Total
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0-5.0	5.1-7.0	7.1-9.0	9.1-10.0	10.1-11.0	11.1-12.0	12.1-14.0	14.1-16.0	16.1-18.0	18.1-20.0	20.1 and over	
Upland	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	73.4	26.5	0.1	0.1	0.1	15.6	19.4	21.4	16.8	16.5	6.8	2.7	0.5	0.1	100.0
Ariz.	99.7	.3	*	.5	33.9	47.1	12.6	4.3	1.3	.3	-	-	-	*	100.0
Ark.	87.2	12.7	.1	*	9.2	37.4	17.8	11.9	10.9	11.4	1.3	*	*	.1	100.0
Calif.	70.4	29.3	.3	.1	3.4	38.2	13.0	7.2	8.5	14.5	9.2	4.4	1.2	.3	100.0
Fla.	32.4	66.8	.8	-	-	2.1	7.5	7.9	14.9	24.5	22.0	16.2	4.1	.8	100.0
Ga.	78.1	21.8	.1	-	.1	10.5	22.3	26.9	18.3	15.5	4.6	1.5	.2	.1	100.0
Ill.	64.7	35.3	-	-	-	14.7	23.5	11.8	14.7	32.4	2.9	-	-	-	100.0
Ky.	60.3	38.7	1.0	-	-	19.8	10.9	22.7	6.9	22.8	14.9	-	1.0	1.0	100.0
La.	84.7	14.3	1.0	.3	13.7	40.9	12.9	10.0	6.9	6.5	3.7	2.6	1.5	1.0	100.0
Miss.	93.0	7.0	*	.1	11.0	42.0	20.4	12.0	7.5	5.4	1.3	.2	.1	*	100.0
Mo.	77.0	23.0	*	.1	7.5	34.5	14.1	9.7	11.1	19.5	3.1	.3	.1	*	100.0
N. Mex.	99.8	.2	-	.1	45.0	46.2	6.9	1.3	.3	-	.1	.1	-	-	100.0
N. C.	75.9	24.0	.1	.1	.2	19.2	13.6	20.3	22.5	18.4	4.0	1.4	.2	.1	100.0
Okla.	99.8	.2	*	.1	54.7	39.1	4.0	1.3	.6	.2	-	-	-	*	100.0
S. C.	82.4	17.5	.1	.1	.2	15.9	19.3	26.5	20.4	12.3	4.1	.9	.2	.1	100.0
Tenn.	79.6	20.4	*	.1	5.3	26.7	19.6	15.7	12.2	15.1	5.0	.3	*	*	100.0
Tex.	97.2	2.8	*	.4	44.3	42.3	5.6	2.9	1.7	1.7	.7	.3	.1	*	100.0
Va.	55.7	44.3	-	-	.3	16.0	10.4	10.4	18.6	33.0	8.9	2.4	-	-	100.0
<u>American-Egyptian</u>															
Arizona	96.8	3.2	-	.8	20.5	26.3	20.9	20.7	7.6	2.8	.2	.2	-	-	100.0
Tex.-N.Mex.	100.0	-	-	-	24.4	55.1	15.3	4.1	1.1	-	-	-	-	-	100.0
U. S.	86.0	13.9	0.1	0.2	14.9	33.5	15.2	12.3	9.9	9.6	3.0	1.0	0.3	0.1	100.0

Table 12. Percentage of moisture in cottonseed samples by specified frequencies, by States and United States, 1953.

State	Moisture														Total
	Prime quality 0-12.0	Below prime quality 12.1-20.0	Off quality 20.1 and over	0.0-5.0	5.1-7.0	7.1-9.0	9.1-10.0	10.1-11.0	11.1-12.0	12.1-14.0	14.1-16.0	16.1-18.0	18.1-20.0	20.1 and over	
Upland	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	89.1	10.8	0.1	0.1	3.9	48.2	22.3	10.3	4.3	4.9	3.4	1.8	0.7	0.1	100.0
Ariz.	99.1	.9	-	2.1	75.9	17.8	2.0	.6	.7	.8	.1	*	-	-	100.0
Ark.	96.1	3.9	*	.1	5.6	65.1	13.0	7.1	5.2	3.4	.4	.1	*	*	100.0
Calif.	79.6	20.3	.1	.1	6.9	37.7	12.5	10.2	13.0	5.3	1.7	.3	.1	100.0	
Fla.	43.5	53.8	2.7	.5	-	3.8	17.7	9.7	11.8	16.1	12.4	15.6	9.7	2.7	100.0
Ga.	78.5	21.4	.1	.1	*	11.2	25.7	27.6	13.9	14.2	5.5	1.4	.3	.1	100.0
Ill.	97.7	2.3	-	2.3	-	53.6	30.2	9.3	2.3	2.3	-	-	-	-	100.0
Ky.	98.2	1.8	-	-	.9	80.7	9.6	6.1	.9	1.8	-	-	-	-	100.0
La.	88.4	11.2	.4	.3	8.7	47.8	16.1	9.4	6.1	6.0	2.8	1.5	.9	.4	100.0
Miss.	91.5	8.3	.2	.2	6.8	60.3	13.9	6.5	3.8	3.9	2.5	1.2	.7	.2	100.0
Mo.	96.3	3.7	*	.1	5.5	70.9	11.1	5.1	3.6	3.2	.5	-	-	*	100.0
N. Mex.	99.7	.3	-	.2	31.6	55.9	8.2	3.1	.7	.2	.1	-	-	-	100.0
N. C.	92.7	7.2	.1	.3	.3	22.4	30.1	26.8	12.8	6.1	.9	.2	*	.1	100.0
Okla.	94.5	5.4	.1	.3	10.0	34.1	17.9	18.6	13.6	5.1	.3	*	*	.1	100.0
S. C.	87.5	12.4	.1	.3	.2	21.4	33.3	21.8	10.5	7.8	3.1	1.1	.4	.1	100.0
Tenn.	96.1	3.8	*	.1	4.1	63.7	16.9	7.2	4.1	3.5	.3	*	*	*	100.0
Tex.	98.0	1.9	*	.3	20.7	52.9	14.0	6.9	3.2	1.6	.3	*	*	*	100.0
Va.	82.3	17.7	-	-	-	11.3	26.6	25.6	18.8	14.0	3.1	.3	.3	-	100.0
<u>American-Egyptian</u>															
Arizona	99.8	.2	-	2.4	52.9	40.8	3.3	.2	.2	.2	-	-	-	-	100.0
N. Mex.	100.0	-	-	3.0	39.4	39.4	9.1	9.1	-	-	-	-	-	-	100.0
Texas	98.8	1.2	-	-	6.7	51.7	25.1	13.3	2.0	1.2	-	-	-	-	100.0
U. S.	92.5	7.4	0.1	0.3	11.1	48.9	16.3	10.1	5.8	4.7	1.7	0.7	0.3	0.1	100.0

\*Less than 0.05 percent.

Table 13. Percentage of free fatty acid in cottonseed samples, by specified frequencies, by States and United States, 1952.

State	Free fatty acid														Total
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0-0.4	0.5	1.0	1.5	1.9	3.0	5.0	7.0	9.0	11.0	12.5 and over	
<u>Upland</u>	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	: 86.9	13.0	0.1	: 9.5	50.9	17.9	8.6	7.5	3.5	1.2	0.6	0.2	*	0.1	100.0
Ariz.	: 90.6	9.4	*	: 20.6	38.9	22.1	9.0	7.1	2.1	.1	.1	*	-	*	100.0
Ark.	: 98.6	1.2	.2	: 64.4	30.1	3.3	.8	.6	.4	.1	.1	*	-	*	100.0
Calif.	: 93.4	6.5	.1	: 58.8	24.7	7.2	2.7	3.5	2.1	.5	.2	.1	0.1	.1	100.0
Fla.	: 47.7	52.3	-	: -	13.7	23.2	10.8	22.4	16.2	10.0	1.7	1.2	.8	-	100.0
Ga.	: 70.7	28.8	.5	: 5.4	36.4	21.0	7.9	10.7	9.2	5.1	2.3	1.2	.3	.5	100.0
Ill.	: 82.4	17.6	-	: 17.6	50.1	11.8	2.9	14.7	2.9	-	-	-	-	-	100.0
Ky.	: 98.0	1.0	1.0	: 38.6	52.5	5.9	1.0	-	1.0	-	-	-	-	1.0	100.0
La.	: 93.2	6.7	.1	: 55.0	23.0	10.3	4.9	4.7	1.5	.2	.1	.1	.1	.1	100.0
Miss.	: 98.9	1.1	*	: 63.1	32.8	2.4	.6	.5	.3	.1	.1	.1	*	*	100.0
Mo.	: 97.9	1.7	.4	: 46.9	45.4	4.3	1.4	.8	.5	.2	.1	*	*	.4	100.0
N. Mex.	: 99.6	.4	-	: 41.0	52.5	5.5	.6	.2	.1	.1	-	-	-	-	100.0
N. C.	: 67.5	31.0	1.5	: 6.5	29.1	23.0	8.9	12.7	9.5	3.6	2.6	1.7	.9	1.5	100.0
Okla.	: 99.7	.2	.1	: 52.0	46.5	1.0	.2	.1	.1	-	-	-	-	.1	100.0
S. C.	: 44.0	42.7	13.3	: 5.5	18.9	13.2	6.4	7.7	8.6	6.2	6.9	7.4	5.9	13.3	100.0
Tenn.	: 99.1	.8	.1	: 55.7	41.3	1.7	.4	.5	.2	.1	*	-	-	.1	100.0
Tex.	: 99.0	1.0	*	: 31.8	59.9	6.2	1.1	.7	.2	.1	*	*	*	*	100.0
Va.	: 91.7	8.3	-	: 11.5	44.7	28.7	6.8	3.8	2.7	.9	.9	-	-	*	100.0
<u>American-Egyptian</u>															
Arizona	: 99.0	1.0	-	: 10.3	70.0	17.5	1.2	1.0	-	-	-	-	-	-	100.0
Tex.-N. Mex.	: 98.4	1.6	-	: 6.0	68.9	19.7	3.8	1.6	-	-	-	-	-	-	100.0
U. S.	: 90.9	8.2	0.9	: 40.8	38.5	8.5	3.1	3.3	2.2	1.0	0.7	0.6	0.4	0.9	100.0

\*Less than 0.05 percent.

Table 14. Percentage of free fatty acid in cottonseed samples by specified frequencies, by States and United States, 1953.

State	Free fatty acid														Total
	Prime quality 0-1.8	Below prime quality 1.9-12.4	Off quality 12.5 and over	0-0.4	0.5	1.0	1.5	1.9	3.0	5.0	7.0	9.0	11.0	12.5 and over	
<u>Upland</u>	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	: 95.8	4.2	*	: 25.8	53.2	12.2	4.6	2.9	1.1	0.1	0.1	*	-	*	100.0
Ariz.	: 96.7	3.2	*	: 48.2	35.0	10.7	2.8	2.5	.6	.1	*	*	-	*	100.0
Ark.	: 99.3	.6	*	: 85.0	12.9	1.0	.4	.3	.2	.1	*	*	-	*	100.0
Calif.	: 97.8	2.2	-	: 34.1	56.9	5.4	1.4	1.5	.5	.1	.1	*	-	-	100.0
Fla.	: 36.6	61.8	1.6	: .5	5.4	9.7	21.0	30.6	12.9	10.2	4.3	1.6	2.2	1.6	100.0
Ga.	: 68.1	29.7	2.2	: 6.6	38.2	16.5	6.8	9.9	9.0	4.8	3.3	1.9	.8	2.2	100.0
Ill.	: 100.0	-	-	: 67.4	32.6	-	-	-	-	-	-	-	-	-	100.0
Ky.	: 100.0	-	-	: 71.9	28.1	-	-	-	-	-	-	-	-	-	100.0
La.	: 91.7	8.2	.1	: 65.1	19.2	4.9	2.5	3.8	3.4	.7	.1	.1	.1	.1	100.0
Miss.	: 97.1	2.8	.1	: 65.4	25.8	4.0	1.9	1.8	.8	.1	*	.1	*	.1	100.0
Mo.	: 99.3	.7	-	: 79.6	18.9	.5	.3	.2	.3	.1	.1	*	-	-	100.0
N. Mex.	: 99.7	.3	-	: 57.3	38.8	3.1	.5	.1	.1	-	-	.1	-	-	100.0
N. C.	: 96.4	3.5	.1	: 24.3	56.7	12.2	3.2	2.3	.9	.1	.1	.1	*	.1	100.0
Okla.	: 99.7	.3	*	: 70.4	28.1	.9	.3	.1	.1	-	-	.1	-	*	100.0
S. C.	: 76.3	23.5	.2	: 15.3	34.6	17.6	8.8	11.1	8.0	2.8	1.0	.4	.2	.2	100.0
Tenn.	: 99.5	.5	-	: 84.1	14.9	.4	.1	.2	.2	.1	*	*	-	-	100.0
Tex.	: 96.4	2.9	.7	: 44.1	46.3	5.0	1.0	1.0	.6	.4	.3	.3	.3	.7	100.0
Va.	: 99.0	1.0	-	: 21.8	63.5	12.3	1.4	1.0	-	-	-	-	-	-	100.0
<u>American-Egyptian</u>															
Arizona	: 100.0	-	-	: 28.8	64.9	5.4	.9	-	-	-	-	-	-	-	100.0
N. Mex.	: 100.0	-	-	: 6.1	63.6	27.3	3.0	-	-	-	-	-	-	-	100.0
Texas	: 99.6	.4	-	: 8.6	51.0	36.5	3.5	.4	-	-	-	-	-	-	100.0
U. S.	: 94.8	4.9	0.3	: 53.7	33.1	5.9	2.1	2.3	1.5	0.5	0.3	0.2	0.1	0.3	100.0

\*Less than 0.05 percent.

Table 15. Percentage of foreign matter in cottonseed samples by specified frequencies, by States and United States, 1952.

State	Foreign Matter													Total
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0 - 0.5	0.6 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.5	5.6 - 7.0	7.1 - 8.5	8.6 - 10.0	10.1 and over	
<u>Upland</u>	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	: 91.1	8.8	0.1	: 61.6	29.5	7.4	0.9	0.3	0.1	*	*	*	0.1	100.0
Ariz.	: 58.8	41.1	.1	: 28.2	30.6	24.7	8.7	3.3	2.7	1.3	0.3	0.1	.1	100.0
Ark.	: 74.8	25.0	.2	: 44.9	29.9	13.6	5.9	2.7	1.7	.7	.3	.1	.2	100.0
Calif.	: 81.1	18.7	.2	: 50.9	30.2	12.4	3.6	1.1	.9	.4	.2	.1	.2	100.0
Fla.	: 91.4	8.2	.4	: 70.7	20.7	6.2	.8	.4	.4	-	.4	-	.4	100.0
Ga.	: 85.4	14.5	.1	: 65.3	20.1	10.9	1.9	.8	.6	.1	.1	.1	.1	100.0
Ill.	: 50.0	50.0	-	: 26.5	23.5	20.6	17.6	5.9	5.9	-	-	-	-	100.0
Ky.	: 68.3	30.7	1.0	: 53.4	14.9	9.9	5.0	5.9	5.9	2.0	2.0	-	1.0	100.0
La.	: 85.3	14.6	.1	: 51.8	33.5	12.0	1.7	.4	.3	.1	*	.1	.1	100.0
Miss.	: 89.7	10.2	.1	: 61.9	27.8	7.9	1.5	.5	.2	.1	*	*	.1	100.0
Mo.	: 64.3	35.3	.4	: 40.8	23.5	16.5	8.6	4.8	3.1	1.4	.6	.3	.4	100.0
N. Mex.	: 65.1	34.4	.5	: 37.2	27.9	15.2	7.8	4.0	4.0	2.1	.9	.4	.5	100.0
N. C.	: 78.1	21.9	*	: 57.0	21.1	15.9	4.9	.8	.2	*	*	-	*	100.0
Okla.	: 69.9	30.0	.1	: 30.3	39.6	24.4	4.4	.7	.3	.1	.1	-	.1	100.0
S. C.	: 85.8	14.2	*	: 55.9	29.9	10.8	2.1	.8	.4	.1	*	*	*	100.0
Tenn.	: 77.1	22.9	*	: 53.0	24.1	14.7	4.9	1.9	1.0	.2	.1	.1	*	100.0
Tex.	: 55.5	44.1	.4	: 30.2	25.3	27.1	9.1	4.3	2.3	.8	.3	.2	.4	100.0
Va.	: 77.6	22.4	-	: 61.3	16.3	18.3	3.8	.3	-	-	-	-	-	100.0
<u>American-Egyptian</u>														
Arizona	: 3.6	91.2	5.2	: .6	3.0	10.5	23.7	29.9	16.3	6.0	3.2	1.6	5.2	100.0
Tex.N. Mex.	: 46.2	53.5	.3	: 32.2	14.0	13.2	13.2	11.2	10.4	3.6	.5	1.4	.3	100.0
U. S.	: 76.4	23.4	0.2	: 48.9	27.5	14.8	4.7	2.0	1.2	0.4	0.2	0.1	0.2	100.0

\*Less than 0.05 percent.

Table 16. Percentage of foreign matter in cottonseed samples by specified frequencies, by States and United States, 1953.

State	Foreign Matter													Total
	Prime quality 0-1.0	Below prime quality 1.1-10.0	Off quality 10.1 and over	0 - 0.5	0.6 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.5	5.6 - 7.0	7.1 - 8.5	8.6 - 10.0	10.1 and over	
<u>Upland</u>	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	: 92.4	7.6	*	: 61.0	31.4	6.3	0.9	0.2	0.1	0.1	*	*	*	100.0
Ariz.	: 55.2	44.5	.3	: 26.9	28.3	21.0	12.3	5.7	3.5	1.4	0.4	0.2	0.3	100.0
Ark.	: 85.2	14.7	.1	: 53.6	31.6	8.7	3.1	1.4	.9	.3	.2	.1	.1	100.0
Calif.	: 78.6	21.3	.1	: 45.9	32.7	15.4	3.5	1.2	.7	.3	.2	*	.1	100.0
Fla.	: 81.8	18.2	-	: 43.6	38.2	17.7	.5	-	-	-	-	-	-	100.0
Ga.	: 83.4	16.5	.1	: 56.7	26.7	12.8	2.4	.7	.5	.1	*	*	.1	100.0
Ill.	: 86.1	13.9	-	: 62.8	23.3	11.6	2.3	-	-	-	-	-	-	100.0
Ky.	: 84.2	15.8	-	: 61.4	22.8	8.8	4.4	-	2.6	-	-	-	-	100.0
La.	: 88.9	11.1	*	: 58.2	30.7	9.5	1.1	.3	.2	*	*	*	*	100.0
Miss.	: 92.0	7.9	*	: 67.5	24.5	6.1	1.4	.3	.1	*	*	*	*	100.0
Mo.	: 80.0	19.8	.2	: 54.3	25.7	12.1	4.3	1.8	1.1	.3	.1	.1	.2	100.0
N. Mex.	: 37.1	62.1	.8	: 8.9	28.2	31.3	10.7	5.6	7.0	4.1	1.9	1.5	.8	100.0
N. C.	: 87.4	12.6	*	: 59.2	28.2	11.0	1.3	.2	.1	-	*	*	*	100.0
Okla.	: 72.9	27.0	.1	: 28.5	44.4	21.9	3.6	1.1	.4	*	*	*	.1	100.0
S. C.	: 92.6	7.3	*	: 65.5	27.1	6.5	.5	.2	.1	*	*	*	*	100.0
Tenn.	: 86.2	13.8	*	: 64.7	21.5	9.1	3.0	1.0	.4	.2	*	.1	*	100.0
Tex.	: 56.9	43.0	.1	: 27.2	29.7	24.9	9.7	4.5	2.8	.8	.2	.1	.1	100.0
Va.	: 83.0	17.0	-	: 45.1	37.9	15.4	1.0	.3	.3	-	-	-	-	100.0
<u>American-Egyptian</u>														
Arizona	: 3.9	95.7	.4	: .9	3.0	6.3	14.5	19.5	30.2	16.7	6.3	2.2	.4	100.0
N. Mex.	: 3.0	94.0	3.0	: -	3.0	30.3	27.3	9.1	9.1	15.2	3.0	-	3.0	100.0
Texas	: 16.1	77.6	6.3	: 5.5	10.6	16.1	19.9	9.0	13.3	6.7	5.9	6.7	6.3	100.0
U. S.	: 79.0	20.9	0.1	: 50.2	28.8	13.1	4.1	1.8	1.2	0.4	0.2	0.1	0.1	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, 1952-1953

State	Quality						Total samples graded			Reduced due to excess					
	Prime		Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acids		Foreign matter		
	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	
<u>Upland</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	
Ala.	6,652	9,033	4,822	2,286	1	5	11,475	11,324	3,068	1,230	1,507	478	1,024	860	
Ariz.	2,301	3,178	1,866	2,730	-	5	4,167	5,913	14	53	393	196	1,720	2,652	
Ark.	14,147	19,597	6,472	3,776	22	9	20,641	23,382	2,645	929	304	150	5,210	3,460	
Calif.	4,692	5,798	3,161	3,298	8	2	7,861	9,098	2,331	1,846	513	192	1,485	1,943	
Fla.	21	22	220	161	-	3	241	186	163	105	126	118	21	34	
Ga.	3,462	3,631	3,901	3,702	11	78	7,374	7,411	1,612	1,590	2,167	2,373	1,077	1,230	
Ill.	13	36	21	7	-	-	34	43	12	1	6	-	17	6	
Ky.	43	96	58	18	-	-	101	114	40	2	2	-	32	18	
La.	6,600	8,069	2,768	2,532	9	5	9,377	10,626	1,436	1,231	634	886	1,374	1,179	
Miss.	19,843	22,404	3,997	4,485	14	10	23,854	26,899	1,690	2,294	244	784	2,475	2,153	
Mo.	3,172	5,000	2,954	1,318	13	1	6,139	6,319	1,413	239	130	45	2,188	1,273	
N. Mex.	918	673	494	1,146	-	-	1,412	1,819	2	4	5	3	494	1,144	
N. C.	3,149	5,444	4,438	1,444	18	6	7,605	6,894	1,841	503	2,472	252	1,665	869	
Okla.	2,359	4,075	1,035	1,796	1	6	3,395	5,877	9	323	7	21	1,022	1,591	
S. C.	2,237	5,007	4,979	3,038	223	13	7,439	8,058	1,304	1,014	4,159	1,904	1,059	594	
Tenn.	5,600	8,563	3,556	1,472	8	2	9,164	10,037	1,871	396	75	52	2,103	1,385	
Tex.	12,434	16,938	11,226	14,744	7	114	23,667	31,796	651	620	247	1,168	10,542	13,741	
Va.	135	195	203	98	-	-	338	293	150	52	28	3	76	50	
<u>American-Egyptian</u>															
Arizona	14	19	482	520	1	-	497	539	2	1	5	-	479	518	
New Mex. 1/		1		32	-	-		33						32	
Texas 1/	165	39	200	216	-	-	365	255	-	3	6	1	196	214	
U. S.	87,957	117,838	56,853	48,819	336	259	145,146	166,916	20,254	12,436	13,030	8,626	34,259	34,946	

1/ American-Egyptian data for New Mexico and Texas were combined in 1952.

\* Less than 0.05 percent.