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COTTONSEED QUALITY IN THE UNITED STATES
1950

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COTTONSEED QUALITY IN THE UNITED STATES
CROP OF 1950

This publication contains information on the quality of cottonseed graded from the 1950 crop. The quality information was obtained from cottonseed grade certificates issued by approved testing laboratories and is broken down to show the detailed quality information by states, crop reporting districts and by months. To facilitate comparison, the data for the 1949 crop are included. During the year ending July 31, 1951, licensed chemists under the supervision of the Department of Agriculture, issued certificates covering 87,663 samples of cottonseed. These samples were drawn at random from most of the cottonseed delivered to crushing mills during the season except in Arizona, California and a portion of Texas south of Austin. Although the sample data may not fully represent the quality of cottonseed produced in every district, the sample for the most part adequately reflects the quality of cottonseed sold to oil mills in the major portion of the Cotton Belt. The production of cottonseed, deliveries to oil mills, number of samples graded, and the tons delivered per sample graded, by states, are shown in table 1.

Table 1. Cottonseed: Production, deliveries to oil mills, and certificates included, by States and United States, 1949 and 1950 ^{1/}

State	Production of cottonseed		Deliveries to oil mills		Certificates included	
	1949	1950	1949	1950	1949	1950
	1,000 tons	1,000 tons	1,000 tons	1,000 tons	Number	Number
Alabama	351	226	305	200	10,126	6,724
Arizona	220	190	190	170	-	-
Arkansas	674	448	590	380	24,583	17,323
California	479	374	430	340	-	-
Florida	7	6	6	5	54	26
Georgia	252	205	230	185	6,854	2,133
Illinois	2/	2/	2/	2/	2/	2/
Kentucky	2/	2/	2/	2/	2/	2/
Louisiana	264	189	240	140	7,404	6,039
Mississippi	612	534	525	445	20,100	19,048
Missouri	201	110	185	95	7,676	4,782
N. Mexico	109	76	100	70	1,253	852
N. Carolina	197	75	180	65	8,105	3,478
Oklahoma	246	98	220	85	5,978	2,504
S. Carolina	233	165	210	140	9,509	6,024
Tennessee	261	165	235	145	8,978	6,278
Texas	2,438	1,232	2,175	1,050	25,137	12,214
Virginia	9	2	8	1	326	94
Other States	3/ 6	3	5	2	252	144
U. S.	6,559	4,078	5,834	3,518	136,335	87,663

- ^{1/} Season beginning August 1.
^{2/} Included in all other States.
^{3/} Illinois, Kansas, and Kentucky.

Quality Determination

There are five basic quality factors involved in the determination of the quality of cottonseed in accordance with the United States Official Standards for Grades. These factors are (1) oil; (2) ammonia or protein (meal and cake); (3) moisture; (4) free fatty acids in the oil (indicator of oil deterioration); and (5) foreign matter (trash, shale, sand, etc., in the seed). These five basic factors are combined to form indices of quantity and quality which in turn are used to determine the official grade of cottonseed.

A complete outline of the method of calculating the grade of cottonseed was published in COTTONSEED QUALITY IN THE UNITED STATES, CROPS OF 1944 AND 1945, issued in March 1947. This outline includes a discussion of the quality factor tolerances and the description of the various qualities of cottonseed.

The average quality factors 1/ of cottonseed by states and for the United States for 1949 and 1950 are shown in table 2. Average percentages of oil and ammonia are shown along with the average percentages of moisture, free fatty acids in the oil, and foreign matter. In addition to these basic elements of quality the table also shows the average quantity and quality indices and the average grade for the United States and for each state except Arizona and California. This information is also shown by specified periods for each state in table 3 and by districts within each state as shown in table 4. The regular crop reporting districts are used and figure 1 shows these districts for each state.

GRADE LOWER

The average grade of cottonseed for the samples included was 96.0 in 1950 compared with 98.0 in 1949. The average grade in 1950 was higher than in 1949 in Florida, Georgia, Louisiana, New Mexico, North Carolina, Oklahoma, South Carolina and Texas, but lower in all other states. The greatest improvement occurred in Louisiana, South Carolina and Georgia.

QUANTITY INDEX LOWER

The average quantity index for the United States for 1950 is 2.10 percent lower than in 1949. The average quantity index for the United States was 101.02 in 1950 compared with 103.12 in 1949. The index was lower in 1950 than in 1949 in all states except for Florida, New Mexico, Oklahoma and Texas. The proportions of all cottonseed samples graded having specified quantity indices are shown in table 5 page 19.

QUALITY INDEX SLIGHTLY LOWER

The average quality index was slightly lower in 1950 than in 1949. The quality index for the United States was 95.0 in 1950 as compared with 95.1 in 1949. The sharpest decline in the quality indices occurred in Missouri, Mississippi and Tennessee. The proportion of prime quality seed was substantially lower in 1950 compared with a year earlier. About 17.7 percent of the samples graded in 1950 were prime seed against 30.9 in 1949. The proportions of all cottonseed samples graded containing specified quality indices are shown in table 6 page 20.

1/ Averages for quality index, quantity index, and grade are not calculated on the basis of average quality factors and the formulas for computing indices and grades for individual certificates. In each case averages are the arithmetic means of indices and grades for individual certificates.

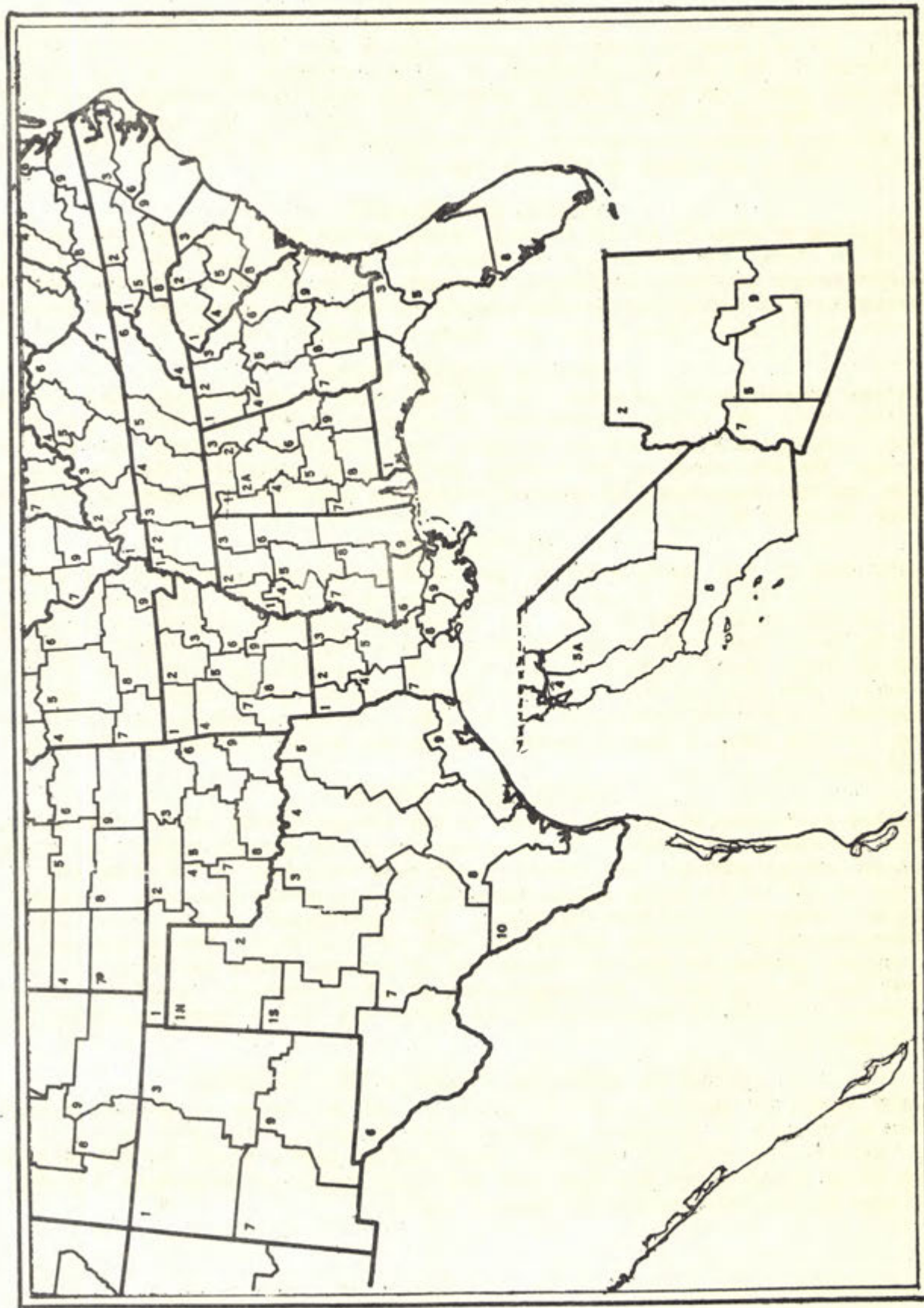


Figure 1.—Crop-reporting districts of the U. S. Department of Agriculture for the cotton-producing States.

Oil Content Down

The average percentage of oil in the samples graded in 1950 was slightly lower than for 1949. For all samples graded the percentage in 1950 was 18.7 compared with 19.1 a year earlier. The average percentage of oil was slightly higher in New Mexico, Oklahoma and Texas, but much lower in most of the other major cottonseed producing states. The sharpest decline was in Missouri and Arkansas. The proportions of total cottonseed samples containing specified percentages of oil, by States and for the United States, are shown in table 9 page 22.

Ammonia Content Lower

The percentage of ammonia in all samples graded during 1950 averaged 3.64 compared with 3.68 in 1949. The percentage of ammonia was slightly lower than last year in all states except Arkansas, Louisiana, Missouri, South Carolina, Tennessee and Texas. The proportions of cottonseed samples containing specified percentages of ammonia, by states and for the United States are shown in table 10 page 23.

Moisture Slightly Higher

The average percentage of moisture for 1950 was 12.8, slightly higher than the 11.6 percent in 1949. The average percentage of moisture in 1950 was larger than the previous year in all states except Georgia, North Carolina, Oklahoma, South Carolina and Texas. The percentage of the various qualities of cottonseed with respect to moisture and the proportions of samples containing specified percentages of moisture are shown in table 12 page 25.

Free Fatty Acid

The percentage of free fatty acids in the oil from the 1950 crop was 1.9 percent, the same as for 1949. The tolerance allowed for prime quality cottonseed is 1.8 percent of free fatty acids in oil. The percentage of prime quality cottonseed with respect to free fatty acids decreased sharply from 74.6 percent in 1949 to 65.9 percent in 1950. Sample data indicate that the percentage of free fatty acids was lower than a year earlier in all states except Georgia, North Carolina, South Carolina and Texas. The percentage of the total samples containing specified percentages of free fatty acids, by states and for the United States, are shown in table 14 page 27.

Foreign Matter Content

The average percentage of foreign matter in the samples tested during 1950 was 1.1 percent, the same as for 1949. The tolerance for prime quality cottonseed is one percent of foreign matter. The average percentage was equal to less than the tolerance in all of the major cotton-producing states except Arkansas, Missouri, New Mexico, Oklahoma, Tennessee and Texas. The Southeastern states showed the smallest percentage of foreign matter for both 1949 and 1950. The percentages of prime quality cottonseed from the standpoint of foreign matter was 71.5 in 1950 compared with 75.3 in 1949. The proportions of total cottonseed samples containing specified percentages of foreign matter by states and United States are shown in table 16 page 29.

Number of Samples by Qualities and Reductions

The total number of samples graded by qualities and the number of samples reduced in grade on account of excessive percentages of moisture, free fatty acids, or foreign matter, are shown in table 17. Some samples were reduced for two or more reasons which accounts for the fact that the total number of reductions for some states exceeds the total number of samples tested.

Table 2. Average qualities of cottonseed, by States and United States 1/, 1949 and 1950 2/

State	Cottonseed analysis										Average index		Average grade			
	Oil	Ammonia	Moisture	Free fatty acids	Foreign matter	Quantity	Quality	Quantity	Quality	Quantity	Quality					
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
Ala.	19.1	18.8	3.55	3.56	12.8	13.3	1.1	1.6	0.6	0.7	102.84	101.78	97.5	97.0	100.5	99.0
Ark.	19.5	18.4	3.54	3.44	11.6	14.2	1.7	1.6	1.1	1.3	104.24	99.18	96.3	95.4	100.5	95.0
Fla.	16.9	17.2	3.36	3.78	16.3	16.3	4.0	3.0	.4	2.2	92.18	96.02	86.7	96.0	80.0	92.0
Ga.	18.7	18.2	3.64	3.75	13.2	13.0	3.6	1.9	.5	.8	101.85	100.31	89.7	95.5	91.5	96.0
Ill.	19.1	18.0	3.35	3.27	12.7	15.0	1.7	4.6	1.6	3.1	101.60	96.63	94.2	82.0	95.0	77.5
Ky.	18.4	17.5	3.53	3.29	13.1	17.0	1.6	2.1	1.3	2.9	99.75	94.63	94.9	91.4	94.5	86.5
La.	19.2	18.7	3.65	3.60	12.2	13.5	4.7	2.4	.8	.7	104.23	101.68	86.0	94.9	89.0	96.5
Miss.	19.3	18.7	3.63	3.70	12.3	13.8	1.8	2.9	.7	.8	104.04	101.84	96.1	92.4	100.0	94.0
Mo.	19.2	17.1	3.44	3.31	12.3	15.3	1.3	1.9	1.3	2.0	102.53	92.80	96.1	92.0	98.5	85.0
N. Mex.	19.1	19.4	3.87	3.91	8.0	8.2	.5	.6	2.0	1.8	104.59	105.92	98.7	98.8	103.0	104.5
N. C.	19.4	18.6	3.50	3.67	12.3	12.2	2.5	1.8	.5	.5	103.45	101.41	94.7	97.1	98.0	98.5
Okl.	18.2	19.6	3.93	3.94	10.4	8.8	.5	.5	.8	1.3	101.43	105.73	99.6	99.4	101.0	105.0
S. C.	18.6	18.4	3.76	3.77	12.8	12.7	5.2	3.5	.5	.5	101.89	101.12	84.5	90.8	85.5	92.0
Tenn.	19.3	18.7	3.49	3.40	12.9	15.3	.8	1.2	.8	1.1	103.08	99.77	98.0	95.1	101.0	95.5
Tex.	18.8	19.8	4.04	3.96	8.9	7.9	.8	.7	2.2	2.0	102.40	104.19	98.0	98.7	100.5	103.0
Va.	19.5	18.8	3.28	3.59	13.2	13.5	1.3	3.0	.4	1.1	102.52	101.41	97.7	95.3	100.0	96.0
U. S. 1/	19.1	18.7	3.68	3.64	11.6	12.8	1.9	1.9	1.1	1.1	103.12	101.02	95.1	95.0	98.0	96.0

1/ Quality information not available for cottonseed produced in Arizona and California.

2/ Season beginning August 1.

Table 3. Average qualities of cottonseed, by specified periods and States, 1949 and 1950

ALABAMA

Month	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index		Average grade		Samples			
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950		
Aug.	17.0	17.8	3.22	3.72	18.9	13.3	3.0	0.9	0.5	0.5	92.03	98.71	89.4	98.0	82.0	96.5	190.5	131
Sept.	18.7	17.5	3.42	3.56	13.9	15.6	1.6	1.9	.4	.6	100.29	96.44	96.5	94.5	97.0	91.0	2,912	1,444
Oct.	19.4	18.9	3.57	3.54	12.4	13.1	1.2	1.5	.5	.5	103.97	101.84	98.1	97.4	102.0	99.0	3,388	2,416
Nov.	19.4	19.6	3.65	3.60	12.0	12.3	1.2	1.4	.6	.7	104.46	104.80	98.6	98.3	103.0	103.0	2,214	1,264
Dec.	19.4	19.7	3.67	3.58	11.5	12.2	1.4	1.4	.8	.8	104.61	105.18	98.8	98.6	103.5	104.0	888	907
Jan.	19.2	19.4	3.64	3.56	12.4	12.8	1.9	1.6	1.0	1.3	103.62	104.03	96.9	97.8	101.0	102.0	238	352
Feb.	19.1	19.4	3.65	3.49	12.7	13.2	2.7	2.0	1.2	1.6	103.18	103.43	94.1	96.5	97.0	100.0	84	124
Mar.-Jul.	19.2	19.0	3.67	3.65	11.2	11.7	2.7	3.5	1.4	1.5	103.66	102.97	94.8	91.8	98.5	94.5	222	86
Season	19.1	18.8	3.55	3.56	12.8	13.3	1.4	1.6	0.6	0.7	102.84	101.78	97.5	97.0	100.5	99.0	10,126	6,724

ARKANSAS

Aug.	19.0	-	3.48	-	12.4	-	7.3	-	2.5	-	101.82	-	73.5	-	70.0	-	53	-
Sept.	19.4	17.6	3.36	3.34	13.1	18.8	.7	2.6	.5	0.9	103.06	95.10	98.2	89.1	101.0	84.5	6,528	1,755
Oct.	19.7	18.6	3.54	3.39	11.6	14.7	.8	1.5	.6	.7	105.04	99.64	99.2	95.9	104.5	95.5	6,344	6,382
Nov.	19.6	18.9	3.64	3.50	10.6	12.9	2.1	1.1	1.2	.9	105.32	101.38	96.1	98.3	101.0	99.5	7,222	4,129
Dec.	19.4	18.3	3.67	3.49	9.9	12.7	2.5	1.2	2.0	2.0	104.58	99.09	94.4	97.4	98.5	96.5	2,555	2,766
Jan.	18.5	18.0	3.53	3.46	13.0	13.4	3.5	1.7	2.9	2.8	100.32	97.63	89.2	95.3	89.5	93.0	534	1,131
Feb.	18.2	17.8	3.50	3.47	14.2	13.8	5.7	2.7	3.4	3.2	98.68	96.59	79.7	91.9	78.0	89.0	371	402
Mar.-Jul.	19.0	17.8	3.60	3.50	11.6	12.6	5.7	4.5	2.9	3.1	102.34	96.81	81.3	85.8	82.5	83.0	974	758
Season	19.5	18.4	3.54	3.44	11.6	14.2	1.7	1.6	1.1	1.3	104.24	99.18	96.3	95.4	100.5	95.0	24,581	17,323

Table 3. Average qualities of cottonseed, by specified periods and States, 1949 and 1950--continued

FLORIDA

Month	Cottonseed analysis												Average index		Samples			
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality			Average grade		
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	No.	No.
Aug.	16.1	17.1	3.17	3.61	19.8	16.2	3.1	0.9	0.4	0.3	87.16	94.90	86.9	95.8	80.0	91.0	21	10
Sept.	17.1	16.8	3.39	3.76	15.2	14.7	4.2	2.4	.2	.3	93.70	94.33	87.0	94.8	81.5	89.5	23	12
Oct.	18.0	19.2	3.69	4.26	12.0	21.3	4.3	10.2	.8	1.3	99.21	103.88	89.3	100.0	88.5	103.5	8	4
Nov.	17.8	-	3.54	-	11.7	-	6.5	-	.5	-	97.44	-	81.2	-	79.0	-	1	-
Dec.	18.4	-	3.74	-	10.6	-	11.5	-	.9	-	101.40	-	61.2	-	62.0	-	1	-
Jan.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Feb.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mar.-Jul.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Season	16.9	17.2	3.36	3.78	16.3	16.3	4.0	3.0	0.4	2.2	92.18	96.02	86.7	96.0	80.0	92.0	54	26

GEORGIA

Aug.	17.4	17.5	3.38	3.68	16.7	14.0	2.8	1.0	0.5	0.5	94.58	97.07	90.7	97.4	85.5	94.5	723	238
Sept.	18.3	17.3	3.60	3.72	13.7	14.8	4.4	1.9	.5	.8	99.84	96.60	86.9	94.4	87.0	91.0	1,891	578
Oct.	19.1	18.6	3.65	3.77	12.7	12.1	3.4	1.9	.5	.7	103.16	102.09	90.0	95.9	93.0	98.0	1,723	690
Nov.	19.2	18.9	3.73	3.77	12.3	12.1	2.7	1.8	.5	.8	104.50	103.03	92.1	96.6	97.0	99.5	1,160	378
Dec.	19.3	19.0	3.76	3.83	11.6	11.5	3.7	2.6	.6	.8	104.90	104.07	90.9	94.8	94.5	99.0	757	157
Jan.	19.1	18.5	3.74	3.84	12.3	10.9	4.0	3.2	.8	1.0	103.82	101.83	89.6	93.2	92.0	94.5	267	56
Feb.	19.3	18.0	3.73	3.74	12.2	12.1	3.9	4.4	.7	2.0	104.47	99.47	90.5	87.6	94.5	86.0	156	22
Mar.-Jul.	19.3	18.0	3.73	3.88	11.3	11.3	4.1	4.4	.9	1.2	104.54	100.23	89.9	89.1	93.5	89.5	177	14
Season	18.7	18.2	3.64	3.75	13.2	13.0	3.6	1.9	0.5	0.8	101.85	100.31	89.7	95.5	91.5	96.0	6,854	2,133

Table 3. Average qualities of cottonseed, by specified periods and States, 1949 and 1950-continued

ILLINOIS

Month	Cottonseed analysis										Average index		Average grade		Samples			
	Oil	Ammonia	Moisture	Free fatty acids	Foreign matter	Quantity	Quality	Quantity	Quality	Quantity	Quality	Quantity	Quality					
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950		
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.	No.		
Aug.	19.5	20.8	3.23	3.38	14.7	10.2	2.1	3.5	1.4	1.5	102.45	108.45	91.9	91.1	94.0	99.0	5	2
Sept.	19.8	18.8	3.29	3.23	14.0	16.9	.5	2.1	6.2	.5	103.81	99.74	97.9	92.1	101.5	92.0	17	5
Oct.	19.7	18.6	3.41	3.26	11.0	16.4	.5	.6	.8	.5	104.45	98.96	99.8	95.6	104.0	94.5	19	7
Nov.	18.6	18.1	3.44	3.19	10.7	18.0	.7	1.1	1.9	2.1	100.07	96.49	98.7	92.9	98.5	89.5	11	7
Dec.	17.1	17.9	3.20	3.22	16.6	15.7	1.7	1.4	3.1	4.4	91.91	95.75	92.8	92.5	85.5	88.5	3	6
Jan.	16.4	17.7	3.22	3.06	16.9	16.7	2.4	5.1	4.9	5.9	89.42	94.23	88.3	77.3	79.0	73.0	2	4
Feb.	17.3	17.3	3.35	3.39	13.4	12.3	9.9	9.7	4.6	4.4	97.32	94.15	62.5	64.2	53.5	54.5	6	16
Mar.-Jul.	18.1	18.1	3.35	3.39	13.4	12.3	9.9	9.7	4.6	4.4	97.32	94.15	62.5	64.2	53.5	54.5	6	16
Season	19.1	18.0	3.35	3.27	12.7	15.0	1.7	4.6	1.6	3.1	101.60	96.63	94.2	82.0	95.0	77.5	63	47

KENTUCKY

Aug.	18.5	17.8	3.33	3.12	16.0	17.7	2.5	1.2	0.5	0.5	98.84	94.75	93.1	93.8	91.0	89.0	26	25
Sept.	18.8	18.0	3.52	3.32	13.9	16.4	.8	.7	.5	0.4	101.45	97.17	97.5	95.8	99.0	92.5	50	26
Oct.	18.6	18.0	3.59	3.35	12.0	16.4	.6	.7	.8	.6	100.88	94.77	99.2	95.8	100.0	92.5	59	26
Nov.	18.0	17.5	3.62	3.31	11.0	16.4	.7	1.0	2.3	2.7	98.60	91.79	98.5	93.9	97.0	89.0	33	20
Dec.	17.3	16.8	3.45	3.31	15.2	16.1	1.8	2.4	3.0	4.6	95.03	91.79	93.4	89.2	88.5	82.0	7	13
Jan.	17.2	16.1	3.49	3.24	15.1	16.6	5.3	4.3	3.6	8.8	94.31	87.76	80.4	77.6	76.0	68.0	4	7
Feb.	17.5	18.1	3.54	3.68	12.8	20.7	11.1	12.2	6.0	13.4	96.31	96.77	56.5	73.9	49.5	70.5	10	6
Mar.-Jul.	17.5	18.1	3.54	3.68	12.8	20.7	11.1	12.2	6.0	13.4	96.31	96.77	56.5	73.9	49.5	70.5	10	6
Season	18.4	17.5	3.53	3.29	13.1	17.0	1.6	2.1	1.3	2.9	99.75	94.63	94.9	91.4	94.5	86.5	189	97

Table 3. Average qualities of cottonseed, by specified periods and States, 1949 and 1950 - continued

LOUISIANA

Month	Cottonseed analysis						Average index		Average grade		Samples							
	Oil	Ammonia	Moisture	Free fatty acids	Foreign matter	Quantity	Quality	Quantity	Quality									
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	No.	No.						
Aug.	19.0	17.7	3.35	3.37	15.5	15.7	2.7	1.6	0.8	0.7	101.19	96.48	90.9	94.3	92.0	90.5	456	390
Sept.	19.4	18.4	3.52	3.52	12.1	15.2	.8	2.1	.6	.7	104.41	99.68	99.0	94.6	103.5	94.5	2,063	2,202
Oct.	19.0	19.1	3.62	3.66	12.8	12.5	3.5	2.4	.6	.7	103.36	103.55	90.8	96.1	94.0	99.5	2,074	2,003
Nov.	19.3	19.1	3.80	3.70	11.4	12.0	8.1	2.8	.9	.9	105.06	103.81	74.3	95.2	77.0	98.5	1,871	941
Dec.	19.5	19.1	3.88	3.76	10.2	11.3	10.0	3.3	1.0	1.0	106.40	103.78	67.4	93.5	69.0	97.0	629	352
Jan.	19.1	18.9	3.78	3.84	11.4	11.3	9.1	4.8	.9	1.0	104.48	103.68	71.2	87.5	70.5	90.5	131	49
Feb.	18.9	17.3	3.84	3.75	11.8	12.1	10.1	5.1	1.4	1.4	103.86	90.65	66.3	86.0	61.5	82.0	70	22
Mar-Jul.	18.8	18.7	3.88	3.85	10.8	10.7	9.8	6.3	1.7	1.0	103.16	102.50	68.4	83.0	66.0	83.5	107	80
Season	19.2	18.7	3.65	3.60	12.2	13.5	4.7	2.4	0.8	0.7	104.23	101.68	86.0	94.9	89.0	96.5	7,401	6,039

MISSISSIPPI

Aug.	19.2	18.1	3.29	3.69	15.2	15.3	2.7	2.3	1.6	0.6	101.47	99.38	90.8	92.2	91.5	91.5	296	241
Sept.	19.1	18.0	3.47	3.60	13.5	16.5	1.0	2.4	.5	.6	102.46	98.51	97.8	92.2	100.0	91.0	6,782	5,250
Oct.	19.3	18.9	3.65	3.69	12.0	13.3	1.3	2.7	.5	.6	104.47	102.77	98.0	93.8	102.5	96.5	5,641	7,274
Nov.	19.3	19.1	3.76	3.80	11.4	12.0	2.7	3.2	.8	.9	105.24	104.13	94.6	92.9	99.5	97.0	4,898	3,547
Dec.	19.5	19.0	3.81	3.80	10.4	11.8	3.3	3.3	1.3	1.1	105.89	103.66	92.8	92.4	98.0	96.0	1,494	1,379
Jan.	19.0	18.6	3.72	3.76	11.9	12.9	3.5	4.1	1.2	1.8	103.61	101.82	92.1	88.4	95.0	90.0	260	443
Feb.	19.0	18.3	3.73	3.76	12.5	13.2	5.4	4.6	1.5	2.6	103.36	100.67	83.3	85.6	85.5	85.5	145	196
Mar-Jul.	19.3	18.7	3.80	3.88	10.9	11.4	4.4	6.2	1.4	1.8	104.96	103.03	88.2	81.0	92.0	83.0	584	718
Season	19.3	18.7	3.63	3.70	12.3	13.6	1.8	2.9	0.7	0.8	104.04	101.84	96.1	92.4	100.0	94.0	20,100	19,048

Table 3. Average qualities of cottonseed, by specified periods and States, 1949 and 1950 - continued

MISSOURI

Month	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index		Average grade		Samples			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Quantity	Quality	Quantity	Quality				
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	No.	No.		
Aug.	18.3	19.2	3.84	3.50	10.6	10.7	8.6	7.7	3.1	1.8	101.31	102.94	69.2	87.7	62.5	76.5	4	9
Sept.	19.1	17.0	3.32	3.13	14.3	19.5	1.0	4.6	.5	1.5	101.16	91.29	96.3	80.2	97.0	70.5	1,490	180
Oct.	19.5	17.4	3.44	3.23	12.8	16.8	.5	1.0	.5	.6	103.73	93.66	98.8	94.9	102.5	89.0	2,152	1,455
Nov.	19.5	17.5	3.52	3.38	10.7	14.3	.6	.6	1.1	.8	104.20	94.74	99.5	97.5	103.5	92.5	2,375	966
Dec.	18.9	16.7	3.50	3.34	10.2	15.0	.8	.9	2.6	2.8	101.44	91.03	98.1	95.1	99.5	86.5	-	901
Jan.	17.7	16.9	3.31	3.34	15.1	14.4	1.7	1.5	3.5	4.2	95.48	91.92	92.7	93.7	89.0	86.0	214	568
Feb.	17.7	16.9	3.28	3.32	16.2	14.4	4.6	2.7	4.4	4.4	95.53	91.89	80.9	90.2	77.5	83.0	120	218
Mar-Jul.	18.6	16.8	3.41	3.38	12.7	13.4	9.4	7.9	5.1	4.1	99.83	91.40	64.6	71.7	61.5	63.0	420	520
Season	19.2	17.1	3.44	3.31	12.3	15.3	1.3	1.9	1.3	2.0	102.53	92.80	96.1	92.0	98.5	85.0	7,676	4,782

NEW MEXICO

Aug.	18.9	19.4	3.75	3.77	12.6	12.2	0.6	0.8	0.7	0.7	103.86	105.32	99.1	99.3	103.0	104.5	21	18
Sept.	20.2	19.8	3.86	3.88	9.0	9.9	.5	.4	.7	.5	109.15	107.13	99.9	99.7	109.0	107.0	269	317
Oct.	20.1	19.7	3.98	3.99	7.5	7.0	.4	.5	.9	1.2	109.31	107.65	99.7	99.6	109.0	107.0	438	292
Nov.	18.3	18.7	3.82	3.91	7.6	6.7	.5	.8	2.4	3.7	101.07	102.99	98.5	97.3	96.0	100.5	172	160
Dec.	17.4	17.8	3.70	3.83	8.1	7.4	.6	.9	3.8	6.0	96.03	99.15	97.2	94.9	93.5	93.5	137	53
Jan.	17.7	18.0	3.81	3.89	7.4	6.7	.7	.8	4.5	6.0	97.74	100.28	96.4	95.0	94.0	95.5	113	5
Feb.	17.7	18.0	3.81	3.89	7.4	6.7	.7	.8	4.5	6.0	97.74	100.28	96.4	95.0	94.0	95.5	113	5
Mar-Jul.	17.5	17.7	3.83	3.58	7.4	7.8	.9	2.8	4.9	11.7	97.52	102.20	96.1	87.2	93.5	89.5	103	7
Season	19.1	19.4	3.87	3.91	8.0	8.2	0.5	0.6	2.0	1.8	104.59	105.92	98.7	98.8	103.0	104.5	1,253	852

Table 3. Average qualities of cottonseed, by specified periods and States, 1949 and 1950-continued

NORTH CAROLINA

Month	Cottonseed analysis										Average index		Average grade		Samples			
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950		
Aug.	17.0	18.1	3.63	3.55	14.3	14.7	4.1	5.6	0.8	0.7	94.25	98.38	86.7	80.6	76.5	79.0	7	5
Sept.	18.3	18.4	3.48	3.54	14.7	14.0	2.9	1.9	.5	.4	99.08	99.76	91.8	95.7	91.0	95.5	806	403
Oct.	19.3	18.5	3.45	3.63	12.9	12.5	2.3	1.6	.5	.4	102.72	100.39	94.8	97.7	97.5	98.5	3,043	1,358
Nov.	19.7	18.8	3.51	3.72	11.6	11.8	2.5	1.8	.5	.6	104.68	102.40	95.2	97.4	99.5	100.0	2,236	884
Dec.	19.8	18.8	3.57	3.77	11.0	11.3	2.4	1.7	.6	.5	105.46	102.94	95.9	98.0	101.5	101.0	1,189	436
Jan.	19.5	18.9	3.53	3.75	12.2	11.5	2.3	2.0	.8	.6	104.09	103.34	95.9	96.9	100.0	100.0	366	134
Feb.	19.3	18.7	3.49	3.68	12.5	11.6	2.7	2.4	1.1	.9	103.16	101.83	94.8	95.9	97.5	98.0	146	53
Mar.-Jul.	19.6	18.8	3.59	3.73	10.9	10.2	3.6	3.2	1.0	.9	105.08	102.66	91.4	93.7	96.5	96.5	312	205
Season	19.4	18.6	3.50	3.67	12.3	12.2	2.5	1.8	0.5	0.5	103.45	101.41	94.7	97.1	98.0	98.5	8,105	3,478

OKLAHOMA

Aug.	17.3	18.9	4.10	3.85	9.0	9.9	0.7	1.8	1.5	1.4	98.67	103.65	99.2	98.7	98.0	102.5	3	2
Sept.	14.6	18.1	3.98	3.77	12.2	14.1	.6	.9	.6	.7	99.00	100.08	99.1	97.2	98.5	97.5	346	26
Oct.	18.3	19.8	3.98	3.87	11.0	10.0	.5	.4	.5	.7	102.00	106.90	99.7	99.6	101.5	106.5	1,945	743
Nov.	18.8	19.8	3.94	3.97	10.2	8.2	.5	.4	.6	1.0	103.71	106.38	99.6	99.8	103.5	106.0	2,236	944
Dec.	18.0	19.3	3.89	3.99	9.0	7.9	.5	.6	1.0	1.9	100.35	104.91	99.7	99.0	100.0	104.0	809	529
Jan.	16.9	18.9	3.76	3.96	10.4	8.5	.7	1.0	1.3	2.5	94.78	103.39	99.4	98.4	94.0	101.5	262	164
Feb.	16.6	18.7	3.68	3.96	10.1	8.5	.9	1.0	1.8	2.4	92.26	102.78	99.1	98.4	91.5	101.0	145	51
Mar.-Jul.	17.2	17.9	3.75	3.88	9.5	9.2	.9	1.3	1.9	3.4	95.47	97.64	98.8	97.2	94.5	95.0	232	45
Season	18.2	19.6	3.93	3.94	10.4	8.8	0.5	0.5	0.8	1.3	101.43	105.73	99.6	99.4	101.0	105.0	5,978	2,504

Table 3. Average qualities of cottonseed, by specified periods and States, 1949 and 1950 - continued

SOUTH CAROLINA

Month	Cottonseed analysis										Average index		Samples				
	Oil	Ammonia	Moisture	Free fatty acids	Foreign matter	Quantity	Quality	Average grade	Quantity	Quality	No.	No.					
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950			
Aug.	17.0	16.7	3.54	3.47	17.1	18.3	2.1	1.5	0.5	0.4	93.99	92.29	92.3	86.5	85.5	443	315
Sept.	18.1	18.0	3.72	3.71	14.3	13.9	3.9	2.8	.5	.4	99.73	99.40	92.7	88.5	92.0	2,791	2,442
Oct.	18.8	18.8	3.79	3.85	12.1	11.3	5.0	4.4	.5	.5	103.03	103.16	85.5	88.5	91.5	3,047	2,176
Nov.	19.1	18.8	3.78	3.84	11.8	11.2	4.3	3.8	.5	.5	103.98	103.44	88.2	90.2	93.0	1,195	732
Dec.	18.9	18.9	3.85	3.82	11.1	11.1	1.0	3.0	.7	.5	103.56	103.53	66.0	93.2	96.5	1,330	248
Jan.	18.9	18.9	3.77	3.80	11.9	11.2	5.2	3.2	.8	.6	103.39	103.24	86.3	93.0	97.0	272	46
Feb.	19.1	18.4	3.75	3.91	11.6	10.9	5.1	7.0	.7	1.1	103.23	102.10	87.3	78.4	79.0	151	24
Mar-Jul.	19.1	19.0	3.85	3.86	10.5	10.0	5.6	3.7	.7	.8	104.63	104.19	84.3	91.7	95.5	280	41
Season	18.6	18.4	3.76	3.77	12.8	12.7	5.2	3.5	0.5	0.5	101.89	101.12	84.5	90.8	92.0	9,509	6,024

TENNESSEE

Aug.	18.0	18.6	3.71	3.63	10.6	10.9	8.9	4.6	6.3	1.8	99.15	101.13	65.3	86.6	87.5	4	3
Sept.	19.3	17.6	3.34	3.16	14.7	20.3	.8	2.1	.5	.8	102.17	94.49	96.5	88.2	83.5	1,933	385
Oct.	19.6	18.8	3.48	3.32	13.2	16.2	.6	1.0	.4	.5	104.19	99.53	98.5	95.5	95.5	2,930	2,569
Nov.	19.3	19.1	3.57	3.49	11.9	13.8	.6	.7	.7	.6	103.56	102.31	99.2	97.8	100.0	2,683	1,533
Dec.	18.9	18.5	3.60	3.51	10.7	14.0	.8	.9	1.8	1.8	102.34	99.95	98.9	96.9	97.0	1,012	994
Jan.	18.0	18.1	3.44	3.47	13.9	14.5	1.6	1.5	2.3	2.9	97.82	97.92	95.9	94.9	93.0	210	470
Feb.	18.1	18.3	3.46	3.44	14.3	14.7	2.7	2.5	2.4	3.1	98.08	98.47	91.7	91.6	90.5	77	126
Mar-Jul.	18.4	18.1	3.53	3.49	12.2	13.3	4.6	6.9	3.0	3.8	99.22	97.73	85.2	76.2	74.5	129	198
Season	19.3	18.7	3.49	3.40	12.9	15.3	0.8	1.2	0.8	1.1	103.08	99.77	98.0	95.1	95.5	8,978	6,278

Table 3. Average qualities of cottonseed, by specified periods and States, 1949 and 1950 - continued

TEXAS

Month	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index		Average grade		Samples			
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Quantity	Quality	1949	1950	No.	No.		
Aug.	18.8	19.2	3.96	4.13	9.2	8.8	0.9	1.7	0.6	2.1	103.76	103.70	99.2	97.2	103.0	100.5	309	100
Sept.	18.2	18.2	4.00	3.99	9.9	11.2	.6	1.0	.6	1.4	101.46	100.17	99.6	98.3	101.5	98.5	2,506	331
Oct.	18.8	19.6	4.08	3.97	9.6	9.7	.6	.6	.6	.8	103.47	104.98	99.6	99.6	103.0	104.5	5,265	3,129
Nov.	19.7	20.5	4.08	3.98	9.0	7.3	.8	.6	.7	1.2	106.07	106.22	98.7	99.6	104.5	106.5	4,259	4,284
Dec.	19.1	19.7	4.02	3.95	8.0	6.7	1.2	.7	1.5	2.8	103.36	103.34	97.1	98.1	100.0	101.5	1,658	2,758
Jan.	18.6	18.6	3.99	3.86	8.7	7.4	.8	1.0	2.0	4.0	101.03	99.51	97.9	96.9	99.0	96.5	1,067	847
Feb.	18.9	18.5	4.02	3.84	8.4	7.3	.8	1.0	3.9	5.2	102.07	99.74	96.9	95.7	99.0	95.5	1,913	321
Mar-Jul.	18.5	18.5	4.02	3.86	8.5	8.4	1.0	1.6	4.2	5.9	100.10	99.38	96.4	94.6	96.5	94.0	8,160	444
Season	18.8	19.8	4.04	3.96	8.9	7.9	0.8	0.7	2.2	2.0	102.40	104.19	98.0	98.7	100.5	103.0	25,137	12,214

VIRGINIA

Aug.	17.8	18.6	3.08	3.41	18.9	13.6	1.9	8.5	0.5	0.8	94.45	99.80	90.5	70.7	86.0	71.5	12	2
Sept.	19.1	16.9	3.16	3.30	15.3	18.4	1.3	3.9	.3	.7	100.15	92.14	96.2	85.3	96.5	74.5	121	16
Oct.	19.8	18.9	3.33	3.61	11.9	12.7	1.1	3.0	.4	.6	104.07	102.04	99.3	97.3	103.5	99.5	107	30
Nov.	20.0	19.3	3.43	3.62	10.9	11.7	1.2	1.6	.5	.6	105.57	104.00	99.5	99.0	105.0	103.0	52	24
Dec.	19.7	19.1	3.42	3.70	11.7	12.1	2.1	1.9	.5	.5	104.42	103.30	97.2	98.6	101.5	102.0	20	4
Jan.	19.6	19.4	3.42	3.66	11.9	11.4	1.7	1.1	.6	.5	103.78	104.64	98.8	100.0	102.5	104.5	7	8
Feb.	19.6	19.6	3.49	3.83	11.5	14.3	2.3	6.0	.7	5.7	104.26	105.12	96.8	96.4	101.0	101.5	7	10
Mar-Jul.	19.5	18.8	3.28	3.59	13.2	13.5	1.3	3.0	0.4	1.1	102.52	101.41	97.7	95.3	100.0	96.0	326	94

Table 4. Average qualities of cottonseed, by crop-reporting districts, 1949 and 1950 ^{1/}

ALABAMA

Dist. No.	Cottonseed analysis						Average index		Average grade	Samples								
	Oil	Ammonia	Moisture	Free fatty acids	Foreign matter	Average index	Quality											
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950								
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.			No.	No.								
1	19.8	19.0	3.48	3.51	12.5	14.0	1.0	1.2	0.6	0.8	104.88	102.16	98.6	97.3	103.5	99.5	891	522
2	19.6	19.6	3.53	3.45	12.6	13.3	.9	1.1	.7	.8	104.59	104.06	98.6	98.0	103.0	102.0	4,052	2,861
3	19.5	19.6	3.63	3.41	13.0	13.7	.9	1.2	.7	1.0	104.63	103.75	98.4	97.2	103.0	101.0	1,157	600
4	18.3	18.2	3.66	3.70	12.7	13.7	2.0	3.0	.4	.5	100.09	100.03	97.5	93.1	97.5	93.0	1,107	982
5	18.6	17.7	3.58	3.78	12.2	12.6	2.4	1.8	.4	.5	100.97	98.36	95.8	97.6	97.0	96.0	1,118	794
6	18.8	18.2	3.63	3.68	12.1	12.7	1.0	1.4	.3	.4	102.04	99.92	99.1	98.1	101.0	98.0	816	523
7	18.2	17.2	3.41	3.76	13.6	13.2	2.8	2.6	.4	.4	98.08	96.47	93.8	95.0	92.0	91.5	143	99
8	18.0	17.2	3.42	3.77	14.5	13.3	3.4	1.8	.5	.5	97.60	96.21	90.9	96.9	88.5	93.0	729	278
9	17.8	17.1	3.34	3.76	13.9	13.1	2.9	1.6	.5	.5	96.59	95.67	94.6	97.5	91.5	93.5	113	65
State	19.1	18.8	3.55	3.56	12.8	13.3	1.4	1.6	0.6	0.7	102.84	101.78	97.5	97.0	100.5	99.0	10,126	6,724

ARKANSAS

1	19.1	19.3	3.69	3.51	10.9	13.3	1.2	1.1	1.1	1.9	103.79	103.38	99.2	98.0	103.0	101.5	262	81
2	19.3	17.9	3.50	3.31	11.9	14.7	1.2	1.2	1.2	1.6	103.35	96.19	97.3	95.3	100.5	91.5	10,271	6,632
3	19.4	20.3	3.59	3.29	10.4	12.3	1.5	1.8	1.0	1.0	104.35	106.10	98.3	97.4	102.5	103.5	439	159
4	19.7	19.6	3.60	3.40	10.6	12.7	2.4	1.9	1.4	1.5	105.41	103.75	94.9	95.8	99.5	99.5	767	515
5	19.5	18.5	3.55	3.52	11.6	14.1	1.6	1.6	.9	1.1	104.63	99.88	96.8	96.2	101.5	96.0	8,542	6,709
6	19.2	19.2	3.77	3.59	10.4	12.9	2.8	2.2	1.1	1.1	104.68	103.19	93.2	95.2	98.0	98.5	456	263
7	19.3	19.0	3.51	3.50	11.1	13.3	2.1	2.9	1.1	1.0	103.32	102.20	95.7	93.7	99.0	96.0	922	378
8	20.0	19.1	3.55	3.56	11.5	13.6	3.2	2.7	1.0	1.0	106.15	102.73	91.3	94.1	97.0	97.0	2,922	2,586
State	19.5	18.4	3.54	3.44	11.6	14.2	1.7	1.6	1.1	1.3	104.24	99.18	96.3	95.4	100.5	95.0	24,581	17,323

^{1/} Season beginning August 1.

Table 4. Average qualities of cottonseed, by crop-reporting districts, 1949 and 1950 1/

GEORGIA

Dist. No.	Cottonseed analysis				Free fatty acids		Foreign matter		Average index		Average grade		Samples		
	Oil	Ammonia	Moisture	Free fatty acids	Pct.	Pct.	1949	1950	1949	1950	Quantity	Quality	1949	1950	No.
1	19.7	3.60	12.9	1.3	0.8	0.7	105.43	103.81	97.7	96.8	103.0	100.5	868	210	
2	19.3	3.72	13.0	1.6	.5	.5	104.96	102.13	97.2	98.2	102.0	100.5	596	123	
3	19.6	3.65	12.7	1.3	.2	.3	105.44	103.25	96.2	98.4	103.5	101.5	570	278	
4	19.3	3.66	12.5	1.6	.4	.5	104.15	101.84	97.0	98.3	101.0	100.0	800	268	
5	18.6	3.62	13.4	4.4	.5	1.0	101.01	99.27	87.2	96.7	87.5	96.0	1,505	392	
6	18.0	3.73	13.0	4.6	.6	1.1	99.46	98.31	86.9	92.0	86.0	90.5	1,450	731	
7	17.3	3.49	15.6	4.4	.3	.2	94.73	101.00	85.5	96.8	80.5	98.0	67	10	
8	18.1	3.52	14.0	7.2	.6	.2	98.41	98.79	76.1	99.1	74.0	98.0	707	58	
9	17.8	3.56	14.2	6.6	.5	.4	97.64	96.64	78.2	91.4	75.5	88.0	291	63	
State	18.7	3.64	13.2	3.6	0.5	0.8	101.85	100.31	89.7	95.5	91.5	96.0	6,854	2,133	

LOUISIANA

1	19.3	3.82	11.4	6.9	0.7	0.5	105.56	102.82	77.9	92.8	80.0	95.0	1,584	1,119
2	19.1	3.55	12.1	2.7	.8	.9	103.19	100.82	92.7	95.1	96.0	96.0	1,057	526
3	19.3	3.64	11.8	3.0	.8	.6	104.56	103.06	92.1	94.8	96.5	97.5	3,056	2,397
4	19.1	3.68	12.5	6.3	.8	1.4	104.30	100.62	80.0	95.1	82.0	95.5	488	348
5	19.0	3.60	13.6	7.0	.7	.9	103.47	100.18	77.4	96.2	78.5	96.5	938	1,256
6	18.8	3.40	14.3	6.9	.7	.7	101.21	97.94	77.0	97.3	76.5	95.5	115	185
7	18.1	3.43	16.7	4.8	.6	.6	97.71	95.89	83.2	97.2	81.5	93.5	71	102
8	18.3	3.40	16.7	5.3	.7	.4	98.51	95.85	81.2	94.5	79.5	91.5	90	102
9	17.5	3.87	14.6	11.3	1.5	1.3	102.02	95.20	59.1	95.3	60.0	91.0	2	4
State	19.2	3.65	12.2	4.7	0.8	0.7	104.23	101.68	86.0	84.9	89.0	96.5	7,401	6,039

1/ Season beginning August 1.

Table 4. Average qualities of cottonseed, by crop-reporting districts, 1949 and 1950 1/

MISSISSIPPI

Dist. No.	Cottonseed analysis												Average index		Average grade		Samples	
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.		No.	
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950
1	19.4	18.4	3.74	3.75	12.6	14.0	1.5	2.9	0.9	1.0	105.04	101.05	97.4	92.6	102.5	93.5	5,381	4,493
2	19.3	18.8	3.64	3.57	11.9	14.1	.9	1.5	.6	.7	103.90	101.58	98.8	96.3	102.5	98.0	2,261	2,138
3	19.6	19.3	3.55	3.44	12.4	14.3	.7	1.3	.5	.5	104.78	102.92	99.0	97.1	103.5	100.0	1,609	1,070
4	19.5	19.0	3.69	3.76	12.1	13.5	2.5	4.4	.8	.8	105.22	103.71	93.8	87.5	98.5	90.5	4,724	5,193
5	18.8	18.6	3.59	3.70	12.8	13.6	1.8	3.4	.7	.8	102.39	101.84	96.6	91.4	99.0	93.0	1,922	2,220
6	18.7	18.4	3.61	3.65	12.6	13.9	1.4	2.7	.5	.7	101.83	100.20	98.5	94.0	100.5	94.5	1,074	1,059
7	18.9	18.7	3.52	3.69	13.2	13.5	2.7	1.7	.6	.7	102.43	101.75	93.0	96.9	95.0	98.5	943	904
8	19.1	17.9	3.35	3.80	13.3	13.7	3.0	1.8	.7	.7	102.26	99.31	92.1	97.0	94.0	96.5	1,386	1,317
9	18.8	18.0	3.41	3.70	13.3	13.9	2.5	2.5	.6	.6	101.04	99.34	94.6	94.9	96.0	94.5	800	654
State	19.3	18.7	3.63	3.70	12.3	13.8	1.8	2.9	0.7	0.8	104.04	101.84	96.1	92.4	100.0	94.0	20,100	19,018

NORTH CAROLINA

1	20.2	19.1	3.34	3.64	11.9	11.7	1.4	1.6	0.4	0.5	105.72	103.22	98.6	98.8	104.5	102.0	581	196
2	19.7	18.5	3.36	3.50	12.0	12.7	2.3	2.9	.5	.6	103.82	99.78	96.2	94.3	100.0	94.0	1,528	504
3	19.7	19.6	3.55	3.67	12.9	11.9	1.4	.7	.4	.3	104.94	104.78	97.4	99.5	102.5	104.5	183	53
4	19.6	18.9	3.44	3.73	12.5	12.2	1.2	1.0	.6	.5	103.93	102.84	98.0	98.5	102.0	101.5	912	398
5	19.3	18.1	3.40	3.58	11.7	12.1	3.4	1.7	.6	.7	102.75	98.89	93.1	97.6	95.5	96.5	773	321
6	19.3	18.7	3.57	3.85	13.1	12.3	1.4	1.0	.5	.4	103.70	102.61	97.3	98.5	101.0	101.5	2,543	929
7	18.7	18.6	3.64	3.61	11.7	11.9	5.1	2.4	.7	.5	101.77	100.88	86.2	96.2	87.5	97.0	1,585	1,077
State	19.4	18.6	3.50	3.67	12.3	12.2	2.5	1.8	0.5	0.5	103.45	101.41	94.7	97.1	98.0	98.5	8,105	3,478

1/ Season beginning August 1.

Table 4. Average qualities of cottonseed, by crop-reporting districts, 1949 and 1950 1/

OKLAHOMA

Dist. No.	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average index		Average grade		Samples
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	Quantity	Quality	1949	1950	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.	No.	No.	No.	
1	18.3	20.5	3.91	3.92	11.0	10.0	0.5	0.4	1.6	0.5	101.66	110.00	99.0	100.0	26
2	17.7	19.5	3.88	3.79	11.2	10.2	.6	.8	.8	1.5	98.81	105.91	99.4	98.7	229
3	18.5	19.2	3.94	3.91	10.5	8.8	.5	.5	.8	1.6	102.80	104.01	99.6	99.1	997
4	17.9	19.4	3.96	3.97	10.7	9.0	.5	.5	.9	1.8	100.32	105.64	99.3	99.0	663
5	17.3	18.8	3.88	3.63	11.2	11.9	.7	.9	.8	1.3	97.13	102.04	99.3	98.2	792
6	18.6	19.7	3.92	3.97	10.0	8.6	.5	.5	.7	1.1	102.78	106.50	99.8	99.5	2,603
7	18.0	20.3	4.02	3.83	10.3	8.7	.5	.6	.7	1.2	100.95	108.26	99.8	99.5	529
8	18.6	19.6	3.85	3.67	10.8	11.8	1.5	1.3	1.1	2.9	102.36	105.30	97.6	97.1	139
State	18.2	19.6	3.93	3.94	10.4	8.8	0.5	0.5	0.8	1.3	101.43	105.73	99.6	99.4	5,978

SOUTH CAROLINA

1	19.5	19.1	3.60	3.72	12.8	12.2	1.5	0.9	0.4	0.4	104.51	103.61	97.6	98.8	1,224
2	19.1	18.7	3.66	3.83	12.8	12.5	2.2	1.4	.5	.4	103.39	102.68	95.9	97.8	1,088
3	18.5	18.7	3.81	3.79	12.1	11.9	8.4	4.4	.6	.5	101.85	102.52	72.4	88.1	2,405
4	18.8	18.3	3.75	3.75	12.7	13.0	2.7	2.1	.5	.5	102.68	100.86	94.3	96.3	1,029
5	18.2	18.2	3.85	3.77	13.1	12.9	6.1	4.1	.5	.5	100.85	100.55	81.4	88.4	2,931
8	17.8	17.4	3.75	3.76	13.2	13.9	5.4	4.1	.6	.6	98.91	97.23	83.9	88.1	832
State	18.6	18.4	3.76	3.77	12.8	12.7	5.2	3.5	0.5	0.5	101.89	101.12	84.5	90.8	9,509

1/ Season beginning August 1.

Table 4. Average qualities of cottonseed, by crop-reporting districts, 1949 and 1950 1/

TENNESSEE

Dist. No.	Cottonseed analysis												Average index		Samples			
	Oil		Ammonia		Moisture		Free fatty acids		Foreign matter		Average grade		No.	No.				
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950			1949	1950		
1	19.1	18.4	3.49	3.39	12.8	15.5	0.8	1.4	0.8	1.4	102.49	98.46	97.8	94.4	100.0	93.5	3,966	2,996
2	19.4	18.8	3.48	3.40	12.9	15.3	.7	1.1	.8	1.0	103.44	100.58	98.2	95.7	101.5	96.5	4,348	2,909
3	19.8	19.6	3.49	3.51	12.8	13.5	.8	1.5	.7	.9	105.09	104.01	98.5	96.6	103.5	100.5	285	174
4	19.5	19.5	3.47	3.43	12.5	13.3	.8	1.3	.7	.9	103.95	103.75	98.7	97.1	102.5	101.0	253	169
5	19.7	19.8	3.42	3.41	12.2	12.7	.6	1.1	.7	1.1	104.19	104.83	99.1	98.2	103.5	103.0	62	23
6	19.0	19.4	3.48	3.57	13.9	12.7	2.0	1.3	1.4	.6	102.41	104.07	97.2	98.9	99.5	103.0	64	7
State	19.3	18.7	3.49	3.40	12.9	15.3	0.8	1.2	0.8	1.1	103.08	99.77	98.0	95.1	101.0	95.5	8,978	6,278

TEXAS

1	19.0	20.1	4.07	3.93	8.5	7.6	0.7	0.7	3.2	2.5	102.25	103.76	97.4	98.2	99.5	102.5	12,959	7,074
2	18.7	19.5	4.03	4.00	9.3	8.2	.6	.6	1.3	1.2	102.56	105.05	99.2	99.4	102.0	104.5	7,229	4,122
3	18.4	19.4	4.08	3.98	9.4	7.8	.5	.6	.5	.9	103.12	106.45	99.0	99.8	103.0	106.0	254	162
4	18.2	18.7	4.02	3.76	8.8	9.9	.6	.8	.7	.8	102.16	102.12	99.7	99.4	102.0	101.5	2,432	319
5	19.0	18.8	3.68	3.64	10.7	11.7	2.6	1.6	.8	.7	102.99	102.37	93.4	98.0	96.5	100.5	986	98
6	20.6	20.3	3.92	3.96	8.1	7.7	.5	.7	.6	1.4	111.45	109.91	99.8	99.3	111.0	109.0	189	81
7	17.5	18.3	4.23	4.22	9.3	8.5	1.0	.6	.9	.6	100.20	102.58	99.4	99.9	99.5	102.5	571	335
8	18.4	18.1	4.05	3.98	9.9	9.1	6.4	.8	1.0	.3	102.81	101.25	80.4	100.0	80.0	101.5	72	2
9	18.6	18.9	3.77	3.66	10.6	10.5	5.4	1.9	1.0	1.0	102.43	102.25	85.3	96.3	84.0	98.5	220	18
10	18.4	18.5	4.09	3.78	9.6	10.5	.8	.7	.5	.7	103.30	101.63	99.9	100.0	103.0	101.5	225	3
State	18.8	19.8	4.04	3.96	8.9	7.9	0.8	0.7	2.2	2.0	102.40	104.19	98.0	98.7	100.0	103.0	25,137	12,214

1/ Season beginning August 1.

Table 5. Proportions of total cottonseed samples having specified quantity indices, by States and United States 1/, 1949 and 1950 2/

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.				
Ala.	* 0.1	* 0.2	*	*	* 0.1	* 0.4	* 0.7	3.3	7.5	17.2	26.4	46.3	36.8	32.7	28.6	100
Ark.	-	-	-	-	1.3	1.3	5.1	.9	15.6	7.8	27.8	47.2	32.5	43.9	16.9	100
Fla.	*	.1	*	1.9	-	16.7	3.8	37.0	42.3	29.5	50.1	5.6	-	-	3.8	100
Ga.	-	-	-	-	.1	.2	1.0	.7	6.8	10.7	23.4	34.8	40.7	35.9	27.9	100
Ill.	-	-	-	-	-	1.6	1.6	8.5	11.1	27.7	44.3	42.5	39.7	17.0	31.7	100
Ky.	-	-	-	-	3.1	-	1.6	17.5	7.4	24.7	39.7	48.5	47.1	5.2	4.2	100
L.a.	* .2	*	*	*	.1	.1	.2	.6	.8	5.7	6.9	25.5	49.3	44.6	42.7	100
Miss.	.1	.1	*	-	.2	*	.1	.9	.5	5.4	10.0	24.7	49.7	43.3	39.6	100
Mo.	* .4	*	.4	.1	2.2	.1	7.7	.4	15.7	3.1	31.9	16.7	29.7	54.2	10.2	100
N. C.	* .2	*	*	-	.1	*	.1	.2	.3	1.4	2.2	10.5	26.5	55.0	55.9	100
N. Mex.	-	-	-	.2	1.0	.1	2.2	.6	.6	7.3	1.6	16.7	7.3	15.9	25.4	100
Okla.	.1	.1	*	.3	.1	.9	* .2	2.1	.6	6.7	.6	24.7	6.5	38.2	32.1	100
S. C.	* .2	* .4	*	*	.1	.1	.1	.6	1.8	5.0	8.3	18.1	20.8	58.0	53.4	100
Tenn.	.2	.4	* .1	*	.2	*	.2	.1	1.9	1.2	12.3	13.6	32.4	55.1	36.4	100
Tex.	.1	.3	* .1	.2	.4	.2	.9	.7	4.2	3.6	19.0	13.7	45.3	29.3	29.8	100
Va.	-	-	-	-	1.1	.6	1.1	.6	1.1	5.5	14.9	20.6	13.8	39.6	38.2	100
U. S. 1/	0.1	0.2	*	* 0.1	0.2	0.2	0.8	0.5	2.6	2.7	9.4	14.3	24.2	48.3	37.0	100

1/ Quality information not available for cottonseed produced in Arizona and California.

2/ Season beginning August 1.

* Less than 0.05 percent.

Table 6. Proportions of total cottonseed samples having specified quality indices, by States and United States 1/, 1949 and 1950 2/

State	Prime		Quality index		Below prime quality		Below Grade		Total									
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.										
Ala.	28.0	19.7	*	0.2	0.1	0.7	0.2	1.2	1.0	3.3	4.2	8.2	14.7	58.3	60.1	0.1	*	100
Ark.	32.6	12.7	0.2	0.1	.5	2.8	1.4	2.7	2.0	3.8	7.3	6.5	21.3	49.8	54.6	.3	0.1	100
Fla.	-	7.7	-	7.4	-	11.1	-	14.8	-	22.2	7.7	22.2	23.1	22.3	61.5	-	-	100
Ga.	12.2	22.4	1.2	.4	7.2	7.0	3.1	5.4	2.7	9.4	3.4	13.9	11.1	41.4	55.1	2.3	-	100
Ill.	19.0	-	-	2.1	1.6	17.0	3.2	-	4.3	1.6	6.4	12.7	38.3	58.7	19.1	3.2	4.3	100
Ky.	14.8	3.0	.5	1.0	3.0	2.6	3.0	.5	6.2	1.1	11.3	9.5	33.1	67.3	39.4	1.6	-	100
La.	20.4	6.9	3.1	.4	12.1	8.5	.8	6.7	2.1	8.8	6.4	10.4	26.1	27.3	56.7	2.7	-	100
Miss.	25.5	8.0	.2	1.4	1.8	2.1	5.0	2.1	7.0	3.8	12.7	8.5	26.2	56.1	39.1	.3	-	100
Mo.	27.2	3.3	.6	1.8	2.7	4.0	2.8	.7	2.2	1.1	8.2	3.5	24.5	61.5	53.1	.6	.1	100
N. Mex.	48.6	50.9	-	.1	-	-	.4	-	.1	.3	.4	5.1	4.7	45.9	43.5	-	-	100
N. C.	19.3	34.0	.3	.2	2.0	3.5	1.0	2.9	1.1	6.9	3.4	15.1	12.2	49.9	47.8	.1	*	100
Okla.	67.2	51.8	-	.1	-	.1	.1	.1	-	.2	.2	.6	1.1	31.6	46.8	.1	-	100
S. C.	7.5	14.8	3.2	.5	10.5	9.9	8.5	6.7	6.2	13.5	12.3	17.8	19.4	27.4	33.2	3.5	.1	100
Tenn.	28.6	5.6	.1	.5	1.0	.5	1.1	.3	1.4	.6	5.4	5.4	23.5	64.1	61.5	.1	-	100
Tex.	48.3	42.6	.2	.5	.1	.4	.3	.5	.4	1.7	.6	7.6	4.2	40.6	51.8	.2	*	100
Va.	36.5	41.5	-	-	2.1	.6	1.1	-	6.4	2.8	8.5	13.2	11.7	46.9	28.7	-	-	100
U. S. 1/	30.9	17.7	0.6	0.3	2.6	1.3	2.8	2.3	2.9	4.2	7.0	8.5	18.7	47.4	49.7	0.7	*	100

1/ Quality information not available for cottonseed produced in Arizona and California.

2/ Season beginning August 1.

* Less than 0.05 percent.

Table 7. Proportions of total cottonseed samples, having specified grades, by States and United States 1/, 1949 and 1950 2/

State	Below Grade		Grade		100.0		105.0		110.0		Total										
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.											
Ala.	0.1	0.5	0.2	0.7	0.5	1.8	2.6	4.1	7.8	8.7	15.8	17.6	23.6	39.8	25.7	25.6	21.8	1.1	2.0	100	
Ark.	.3	2.2	2.6	1.3	3.2	1.7	7.5	2.7	12.1	5.6	16.8	15.1	22.8	39.3	23.0	30.4	10.5	1.4	.7	100	
Fla.	5.6	35.0	-	11.1	3.8	5.6	11.5	27.8	15.4	13.0	38.6	1.9	26.9	-	-	-	-	-	3.8	100	
Ga.	1.5	12.1	3.6	4.8	1.9	7.4	3.6	11.5	9.7	10.0	18.7	9.0	23.0	24.8	23.5	18.4	15.4	.5	.5	100	
Ill.	3.2	3.2	25.5	4.8	-	1.6	6.4	4.8	25.5	3.2	12.8	17.5	19.2	41.0	2.1	15.9	-	4.8	2.1	100	
Ky.	9.5	4.2	12.4	1.6	8.2	1.1	9.3	4.2	18.7	11.6	30.9	40.3	17.5	24.3	1.0	3.2	-	-	1.0	100	
La.	2.5	.4	16.8	1.0	4.2	1.0	2.2	7.2	7.0	9.9	20.3	13.2	33.8	21.8	26.1	17.6	7.7	1.2	.5	100	
Miss.	.4	1.1	1.8	3.2	.9	3.4	7.2	2.6	13.1	6.6	18.9	21.5	23.7	38.0	21.3	24.7	8.8	2.0	.3	100	
Mo.	.9	1.5	4.4	13.2	1.2	8.3	1.2	13.9	1.7	18.7	5.5	22.0	20.2	16.5	41.9	5.2	22.4	.6	.1	100	
N. C.	.2	3.0	1.0	2.0	.8	3.2	1.3	5.4	4.4	10.2	11.9	21.5	28.4	33.6	40.1	20.3	11.9	.6	.1	100	
N. Mex.	.6	-	.1	.6	.9	1.8	.2	3.6	1.3	12.8	4.7	13.2	10.6	10.9	21.7	28.4	42.3	27.7	18.2	100	
Okla.	.1	.2	.1	.3	*	1.2	.2	2.5	.4	7.4	1.6	23.7	8.7	37.0	31.6	24.7	43.0	2.9	14.4	100	
S. C.	3.3	.2	16.9	7.2	5.4	8.9	8.6	14.1	14.4	14.6	18.3	11.6	18.9	16.8	21.0	8.1	6.3	.3	.1	100	
Tenn.	.3	1.0	.7	2.9	.4	1.8	.6	5.5	1.3	10.2	5.8	19.6	21.3	23.6	44.1	24.2	24.2	10.7	1.3	.5	100
Tex.	.2	*	1.2	.6	.5	1.2	.7	3.0	2.2	8.1	6.7	20.9	14.2	37.8	26.2	24.0	37.7	3.1	11.4	100	
Va.	1.8	1.0	.6	4.3	1.2	5.3	4.3	4.6	10.6	12.9	6.4	16.9	12.8	28.8	25.5	30.8	27.7	1.2	2.1	100	
U. S. <u>1/</u>	0.7	0.2	4.1	3.0	1.6	2.6	2.5	5.4	4.3	9.9	8.0	15.9	18.1	21.7	35.5	23.4	15.3	1.8	2.6	100	

1/ Quality information not available for cottonseed produced in Arizona and California.

2/ Season beginning August 1.

* Less than 0.05 percent.

Table 8. Proportions of total cottonseed samples containing specified percentages of oil, by States and United States 1/, 1949 2/

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 :& over:	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	0.2	0.3	0.4	1.1	2.7	6.1	12.4	17.8	38.3	19.8	0.9	100
Ark.	.3	.1	.1	.3	.8	1.8	4.7	12.3	51.2	26.8	1.6	100
Fla.	1.9	20.4	9.3	11.1	25.7	16.7	13.0	-	1.9	-	-	100
Ga.	.1	.5	1.0	3.0	6.3	12.0	15.1	14.6	36.5	10.8	.1	100
Ill.	-	1.6	1.6	7.9	3.2	4.8	4.8	12.7	33.2	25.4	4.8	100
Ky.	-	.5	1.6	4.2	6.3	11.6	23.8	29.2	21.2	1.6	-	100
La.	1.6	.1	.2	.4	.7	2.1	6.8	17.7	50.7	18.3	1.4	100
Miss.	.7	.1	.1	.2	.6	2.0	7.9	19.0	50.0	17.9	1.5	100
Mo.	.2	.2	.4	1.0	2.1	4.5	8.1	15.6	48.5	18.6	.8	100
N. C.	.1	.2	.3	.5	1.1	2.6	6.3	14.7	50.6	22.7	.9	100
N. Mex.	1.0	2.6	2.5	5.1	6.5	7.0	7.3	7.1	21.1	30.6	9.2	100
Okla.	.8	2.6	3.6	5.5	11.1	13.9	16.7	16.7	23.2	5.8	.1	100
S. C.	.1	.5	1.0	3.0	6.4	10.7	19.3	24.5	29.0	5.4	.1	100
Tenn.	.3	*	.1	.3	1.2	2.5	7.9	17.9	49.7	18.8	1.3	100
Tex.	.6	.7	1.0	2.5	5.9	10.5	13.8	17.0	34.4	12.1	1.5	100
Va.	-	-	.6	.3	1.8	4.3	6.7	12.6	39.7	31.9	2.1	100
U. S. 1/	0.5	0.4	0.6	1.4	3.2	5.8	10.1	16.7	42.7	17.4	1.2	100

1/ Quality information not available for cottonseed produced in Arizona and Calif.

2/ Season beginning August 1. * Less than 0.05 percent.

Table 9. Proportions of total cottonseed samples containing specified percentages of oil, by States and United States 1/, 1950 2/

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 :& over:	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	0.1	0.3	1.5	4.9	9.0	11.2	11.5	11.4	27.8	20.0	2.3	100
Ark.	.9	2.9	4.1	6.4	8.7	11.6	13.7	14.7	23.8	11.6	1.6	100
Fla.	-	3.8	15.4	38.6	26.9	3.8	7.7	-	-	-	3.8	100
Ga.	.2	.9	3.5	7.4	14.0	18.8	16.0	11.3	20.9	6.8	.2	100
Ill.	-	2.1	8.5	8.5	8.5	19.2	19.2	19.2	10.6	2.1	2.1	100
Ky.	-	6.2	13.4	9.3	9.3	26.8	24.7	7.2	2.1	-	1.0	100
La.	.6	.3	.7	1.9	5.9	11.1	15.0	19.8	33.2	10.5	1.0	100
Miss.	.3	.7	1.3	3.1	6.3	11.8	16.9	18.6	31.0	9.0	1.0	100
Mo.	5.3	12.1	10.9	14.1	15.9	14.7	11.5	8.8	6.0	.6	.1	100
N. C.	.2	.3	.2	.7	3.3	10.2	22.6	29.0	30.7	2.7	.1	100
N. Mex.	.1	.7	.6	1.5	2.7	4.0	7.2	11.3	38.6	28.4	4.9	100
Okla.	.2	.2	.2	.6	1.6	3.1	6.6	12.0	38.1	31.1	6.3	100
S. C.	.1	1.2	2.8	5.1	6.7	11.7	19.2	24.9	26.6	1.6	.1	100
Tenn.	.4	.4	1.2	3.2	7.1	11.2	16.4	18.6	31.5	9.6	.4	100
Tex.	.3	.4	.6	1.4	2.8	4.4	7.0	9.5	24.9	28.3	20.4	100
Va.	1.1	1.1	1.1	3.2	12.7	3.2	9.6	18.1	41.4	6.4	2.1	100
U. S. 1/	0.7	1.7	2.3	4.2	7.0	10.5	14.0	16.0	27.0	12.7	3.9	100

1/ Quality information not available for cottonseed produced in Arizona and Calif.

2/ Season beginning August 1. * Less than 0.05 percent.

Table 10. Proportions of total cottonseed samples containing specified percentages of ammonia, by States and United States ^{1/}, 1949 and 1950 ^{2/}

State	Ammonia																				
	Under 2.95	2.95-3.09	3.10-3.24	3.25-3.39	3.40-3.54	3.55-3.69	3.70-3.84	3.85-3.99	4.00-4.14	4.15 and over	Total										
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.									
Ala.	0.4	1.4	1.6	5.1	6.1	11.8	13.2	26.1	26.3	31.9	24.4	18.5	17.5	4.3	8.8	0.5	1.6	*	0.2	100	
Ark.	.3	1.6	4.5	6.3	11.1	14.1	23.3	25.3	27.7	30.9	20.6	17.1	8.9	3.9	2.1	.4	.2	0.1	.1	100	
Fla.	1.9	-	9.3	-	24.0	-	22.2	11.5	13.0	38.6	7.4	26.9	-	15.4	-	-	3.8	-	3.8	100	
Ga.	*	.3	.5	1.9	1.3	8.0	3.4	19.0	7.7	30.2	19.1	26.1	34.4	12.2	24.9	2.1	7.5	.2	1.0	100	
Ill.	-	2.1	1.6	4.3	19.0	40.4	39.8	31.9	31.7	17.0	7.9	4.3	-	-	-	-	-	-	-	100	
Ky.	-	6.2	-	3.1	3.7	27.8	16.4	48.5	25.4	12.4	44.5	1.0	9.5	-	-	-	-	-	-	100	
La.	.3	.2	1.1	1.1	3.2	4.9	9.8	11.6	18.5	20.8	24.8	26.1	19.8	21.9	12.6	10.3	6.5	2.5	3.4	100	
Miss.	.2	.1	1.1	.3	4.6	1.7	9.9	5.5	17.7	14.3	25.5	24.8	23.8	27.6	12.9	18.3	3.8	6.2	.5	100	
Mo.	.2	3.1	1.8	7.0	8.9	20.0	24.7	38.5	38.5	25.8	21.6	4.6	3.9	.7	.3	.1	.1	.1	*	100	
N.C.	.2	.1	1.3	.7	7.8	1.2	23.5	5.6	29.8	19.3	21.0	30.8	10.5	22.3	4.2	12.7	1.4	6.0	.3	100	
N.Mex.	.1	.2	-	-	-	.5	.4	2.6	.8	10.5	5.2	25.8	21.0	38.0	42.2	19.1	27.3	3.4	2.9	100	
Okla.	.1	.1	-	.2	*	.4	.2	2.1	1.2	7.0	6.0	20.8	18.4	34.4	33.3	23.3	30.3	11.9	10.1	100	
S.C.	.1	-	.1	1.1	.5	4.1	2.9	11.6	8.7	21.4	18.6	24.3	31.9	20.7	26.3	12.5	9.6	4.1	1.5	100	
Tenn.	.7	2.4	2.4	5.4	7.7	14.3	18.5	24.2	30.3	28.0	27.0	20.2	11.3	5.0	.4	.1	.1	*	100		
Tex.	.1	*	.1	*	.1	.7	.5	1.3	2.8	4.0	10.0	10.7	18.4	20.0	24.1	29.6	22.2	33.4	21.9	100	
Va.	3.1	-	14.1	2.1	25.5	3.2	26.7	13.8	23.9	22.3	5.5	34.2	.6	20.2	-	-	-	-	2.1	100	
U. S. ^{1/}	0.2	0.7	1.0	2.0	4.1	5.7	10.4	12.1	18.3	17.5	21.5	19.4	16.8	18.2	11.6	13.5	8.8	7.0	7.3	3.9	100

^{1/} Quality information not available for cottonseed produced in Arizona and California.

^{2/} Season beginning August 1.

* Less than 0.05 percent.

Table 11. Proportions of total cottonseed samples containing specified percentages of moisture, by States and United States ^{1/}, 1949 ^{2/}

State	Prime quality: 0-12.0		Below prime quality: 12.1-20.0		Off quality: 20.1 and over		Moisture										Total	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	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	Pct.
Ala.	40.0	59.3	0.7	0.1	2.1	12.4	25.4	41.5	13.3	3.3	1.2	0.7	100					
Ark.	63.3	36.6	.1	4.7	20.5	21.3	16.8	24.5	9.9	1.9	.3	.1	100					
Fla.	11.1	66.7	22.2	-	-	3.7	7.4	24.1	16.7	14.8	11.1	22.2	100					
Ga.	36.0	63.1	.9	.2	1.5	11.5	22.8	36.8	16.8	6.6	2.9	.9	100					
Ill.	44.4	55.6	*	3.2	12.7	19.0	9.5	22.3	22.2	9.5	1.6	*	100					
Ky.	36.5	63.5	-	.5	8.5	14.8	12.7	28.6	24.3	8.5	2.1	-	100					
La.	52.3	46.8	.9	4.1	11.9	17.9	18.2	31.4	12.0	2.2	1.2	.9	100					
Miss.	46.4	53.5	.1	2.3	11.1	16.4	16.6	36.3	14.5	2.3	.4	.1	100					
Mo.	50.4	49.4	.2	2.0	16.6	18.5	13.2	28.2	15.4	5.0	.8	.2	100					
N. Mex.	97.8	2.1	.1	56.4	9.8	4.2	.8	1.7	.3	.1	*	.1	100					
N. C.	53.9	45.7	.4	.4	6.1	23.1	24.3	28.0	12.3	4.3	1.1	.4	100					
Okla.	85.4	14.6	-	21.1	22.6	26.4	15.2	12.3	2.0	.2	.1	-	100					
S. C.	50.1	49.2	.7	.6	2.9	18.2	28.4	27.3	11.7	7.3	2.9	.7	100					
Tenn.	41.7	57.9	.4	.5	6.8	17.6	16.8	30.6	18.8	6.8	1.7	.4	100					
Tex.	96.4	3.6	*	48.0	22.5	11.1	5.2	2.8	.6	.1	.1	*	100					
Va.	42.5	54.7	2.8	-	3.4	18.7	20.4	27.0	16.6	7.4	3.7	2.8	100					
U. S. ^{1/}	60.8	38.9	0.3	0.1	2.0	11.9	13.4	16.9	16.5	24.7	10.4	2.9	0.3	100				

^{1/} Quality information not available for cottonseed produced in Arizona and California.

^{2/} Season beginning August 1.

* Less than 0.05 percent.

Table 12. Proportions of total cottonseed samples containing specified percentages of moisture, by States and United States ^{1/}, 1950 ^{2/}

State	Moisture												Total	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		Pct.
Ala.	31.6	66.9	1.5	0.2	1.6	8.5	21.3	38.9	18.9	6.1	3.0	18.1	20.1	100
Ark.	26.2	67.4	6.4	*	1.6	7.7	16.8	34.9	17.3	8.7	6.5	16.1	6.4	100
Fla.	19.2	77.0	3.8	-	-	-	19.2	19.2	23.2	23.1	11.5	18.0	3.8	100
Ga.	41.8	57.8	.4	.3	3.3	15.8	22.4	29.7	18.8	7.8	1.5	14.1	.4	100
Ill.	19.2	76.5	4.3	-	4.3	4.3	10.6	17.0	21.2	31.9	6.4	16.0	4.3	100
Ky.	2.1	87.6	10.3	-	-	-	2.1	11.3	36.1	21.6	18.6	18.6	10.3	100
La.	33.2	65.5	1.3	0.1	4.7	11.0	16.3	28.1	22.0	11.4	4.0	16.1	1.3	100
Miss.	32.4	65.4	2.2	-	3.3	10.9	17.9	28.2	17.3	13.5	6.4	18.0	2.2	100
Mo.	9.0	81.2	9.8	*	.3	1.7	6.9	31.2	31.1	12.5	6.4	18.0	9.8	100
N. Mex.	92.6	7.4	-	.2	8.9	5.4	3.8	5.0	1.9	.5	-	18.0	-	100
N. C.	59.9	39.8	.3	*	4.6	21.5	33.2	27.1	8.3	3.5	.9	16.1	.3	100
Okla.	94.6	5.4	*	.1	16.8	7.0	2.4	3.6	1.4	.2	.2	16.1	*	100
S. C.	55.1	43.4	1.5	-	6.5	23.8	24.5	20.5	12.3	7.4	3.2	18.0	1.5	100
Tenn.	9.1	82.2	8.7	*	.1	1.2	7.8	33.6	25.3	14.5	8.8	18.0	8.7	100
Tex.	95.2	4.8	*	.1	8.1	3.6	2.9	3.4	1.2	.2	*	18.0	*	100
Va.	55.4	39.3	5.3	1.1	3.2	17.0	34.1	19.1	4.3	13.8	2.1	18.0	5.3	100
U. S. ^{1/}	42.1	54.6	3.3	*	3.9	9.1	15.0	26.0	15.5	8.6	4.5	18.0	3.3	100

^{1/} Quality information not available for cottonseed produced in Arizona and California.

^{2/} Season beginning August 1.

* Less than 0.05 percent.

Table 15. Proportions of total cottonseed samples containing specified percentages of foreign matter, by States and United States ^{1/}, 1949 ^{2/}

State	Foreign matter														
	Prime quality: 90.5-98.2	Below prime quality: 81.0-90.0	Off quality: 70.0-80.0	0	0.5	1.0	2.0	3.0	4.0	5.5	7.0	8.5	10.0	and over	Total
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	90.5	9.4	0.1	62.6	27.9	7.9	1.1	2.1	3.1	4.1	5.6	7.1	8.6	10.1	100
Ark.	69.4	30.5	.1	38.2	31.2	17.5	1.8	3.1	3.1	1.8	.7	0.3	0.1	.1	100
Fla.	94.4	5.6	-	87.0	7.4	3.7	1.9	-	-	1.9	-	-	-	-	100
Ga.	90.2	9.8	*	69.4	20.8	8.0	.2	1.2	.3	.2	.1	*	-	*	100
Ill.	55.6	44.4	*	27.0	28.6	19.0	3.2	7.9	7.9	3.2	1.6	*	1.6	*	100
Ky.	64.4	35.6	-	46.4	18.0	14.3	2.1	5.3	5.3	2.1	1.1	1.1	1.6	-	100
La.	81.9	18.0	.1	47.8	34.1	13.3	.5	.6	.6	.5	.2	.1	.1	.1	100
Miss.	83.3	16.6	.1	53.3	30.0	12.0	.9	.9	.9	.6	.2	.1	.1	.1	100
Mo.	66.9	32.5	.6	44.9	22.0	14.1	7.1	4.9	4.9	3.3	1.7	.9	.5	.6	100
N. Mex.	50.3	49.4	.3	27.2	23.1	14.2	10.7	7.8	7.8	9.7	4.5	1.8	.7	.3	100
N. C.	91.6	8.4	*	66.4	25.2	6.7	1.0	.5	.5	.1	.1	*	-	*	100
Okla.	80.0	19.9	.1	48.5	31.5	16.0	2.6	.8	.8	.3	.1	.1	*	.1	100
S. C.	92.5	7.5	*	59.5	33.0	6.6	.6	.2	.2	.1	-	*	-	*	100
Tenn.	79.5	20.4	.1	57.4	22.1	12.7	4.7	1.6	1.6	.8	.3	.2	.1	.1	100
-Tex.	51.7	45.5	2.8	29.3	22.4	17.9	9.6	6.0	6.0	4.7	3.2	2.4	1.7	2.8	100
Va.	98.2	1.8	-	77.6	20.6	1.8	-	-	-	-	-	-	-	-	100
U. S. ^{1/}	75.3	24.1	0.6	48.0	27.3	13.3	4.8	2.4	2.4	1.7	0.9	0.6	0.4	0.6	100

^{1/} Quality information not available for cottonseed produced in Arizona and California.

^{2/} Season beginning August 1.

* Less than 0.05 percent.

Table 16. Proportions of total cottonseed samples containing specified percentages of foreign matter, by States and United States ^{1/}, 1950 ^{2/}

State	Prime quality: 0-1.0		Below prime quality: 1.1-10.0		Off quality: 10.1 and over		Foreign matter											
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	85.6	14.3	0.1	55.1	11.2	1.8	0.6	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	100
Ark.	67.3	32.3	.4	28.1	18.2	6.2	3.6	2.5	1.0	.6	.2	.4	.2	.4	.2	.4	.2	100
Fla.	96.2	-	3.8	77.0	19.2	-	-	-	-	-	-	-	-	-	-	-	-	100
Ga.	79.3	20.7	*	51.3	28.0	4.6	1.5	1.5	.1	-	-	-	-	*	-	*	-	100
Ill.	31.9	68.1	-	17.0	14.9	6.4	12.8	17.0	14.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	100
Ky.	52.5	45.4	2.1	28.7	23.8	5.2	10.3	8.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	100
La.	83.2	16.7	.1	46.6	36.6	2.5	.5	.3	.1	-	-	-	-	.1	.1	.1	.1	100
Miss.	80.0	19.9	.1	47.4	32.6	3.4	1.2	.5	.2	.2	.2	.2	.2	.2	.2	.2	.2	100
Mo.	47.7	51.2	1.1	28.4	19.3	11.8	8.4	7.0	4.1	1.5	1.0	1.0	1.0	1.1	1.1	1.1	1.1	100
N. Mex.	57.4	41.9	.7	36.3	21.1	9.3	7.5	5.3	3.1	1.9	.6	.7	.6	.7	.7	.7	.7	100
N. G.	93.0	6.9	.1	71.0	22.0	7.7	.3	.3	.6	.1	.1	.1	.1	.1	.1	.1	.1	100
Okla.	56.0	43.8	.2	24.0	32.0	10.0	3.1	2.0	.6	*	*	*	*	.2	.2	.2	.2	100
S. C.	94.5	5.5	*	67.2	27.3	4.4	.1	-	-	-	-	-	-	*	*	*	*	100
Tenn.	71.0	28.8	.2	50.0	21.0	6.0	4.1	2.1	1.0	.4	.2	.2	.2	.2	.2	.2	.2	100
Tex.	46.2	52.5	1.3	19.2	27.0	10.3	6.6	5.1	2.6	1.3	.6	.6	.6	1.3	1.3	1.3	1.3	100
Va.	90.4	8.5	1.1	55.3	35.1	2.1	-	-	-	-	-	-	-	-	-	-	-	100
U. S. ^{1/}	71.5	28.1	0.4	40.8	30.7	5.4	3.0	2.1	1.0	0.5	0.2	0.2	0.2	0.4	0.4	0.4	0.4	100

^{1/} Quality information not available for cottonseed produced in Arizona and California.

^{2/} Season beginning August 1.

* Less than 0.05 percent.

Table 17. Number of samples graded, by qualities and number reduced in grade for specified causes, by States and United States 1/ 1949 and 1950 2/

State	Prime		Quality Below prime and off quality		Below grade		Total samples graded		Reduced for specified causes					
	1949	1950	1949	1950	1949	1950	1949	1950	Moisture	Free fatty acids	Foreign matter			
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number		
Ala.	2,839	1,327	7,280	5,396	7	1	10,126	6,724	6,066	4,596	2,179	1,675	957	963
Ark.	8,018	2,197	16,499	15,111	66	15	24,583	17,323	9,009	12,794	5,678	4,929	7,532	5,666
Fla.	-	2	54	24	-	-	54	26	48	21	45	12	3	1
Ga.	833	477	5,862	1,656	159	-	6,854	2,133	4,382	1,243	3,667	549	676	445
Ill.	12	-	49	45	2	2	63	47	35	38	9	23	28	32
Ky.	28	3	158	94	3	-	189	97	120	95	22	24	67	46
La.	1,513	418	5,691	5,621	200	-	7,404	6,039	3,528	4,034	4,290	3,711	1,337	1,012
Miss.	5,126	1,525	14,905	17,523	69	-	20,100	19,048	10,766	12,881	5,597	12,364	3,324	3,773
Mo.	2,089	157	5,538	4,621	49	4	7,676	4,782	3,813	4,350	698	962	2,544	2,501
N. Mex.	609	434	644	418	-	-	1,253	852	27	63	4	5	623	363
N. C.	1,561	1,181	6,534	2,296	10	1	8,105	3,478	3,745	1,394	3,911	1,257	684	246
Okla.	4,015	1,298	1,960	1,206	3	-	5,978	2,504	873	135	53	29	1,198	1,102
S. C.	714	889	8,465	5,126	330	9	9,509	6,024	4,750	2,706	6,980	3,519	716	332
Tenn.	2,569	349	6,399	5,929	10	-	8,978	6,278	5,238	5,701	309	602	1,844	1,846
Tex.	12,122	5,209	12,960	7,004	55	1	25,137	12,214	906	599	1,107	219	12,108	6,577
Va.	119	39	207	55	-	-	326	94	187	42	63	48	6	9
U. S.	42,167	15,505	93,205	72,125	963	33	136,335	87,663	53,495	50,692	34,612	29,928	33,647	24,914

1/ Quality information not available for cottonseed produced in Arizona and California.

2/ Season beginning August 1.