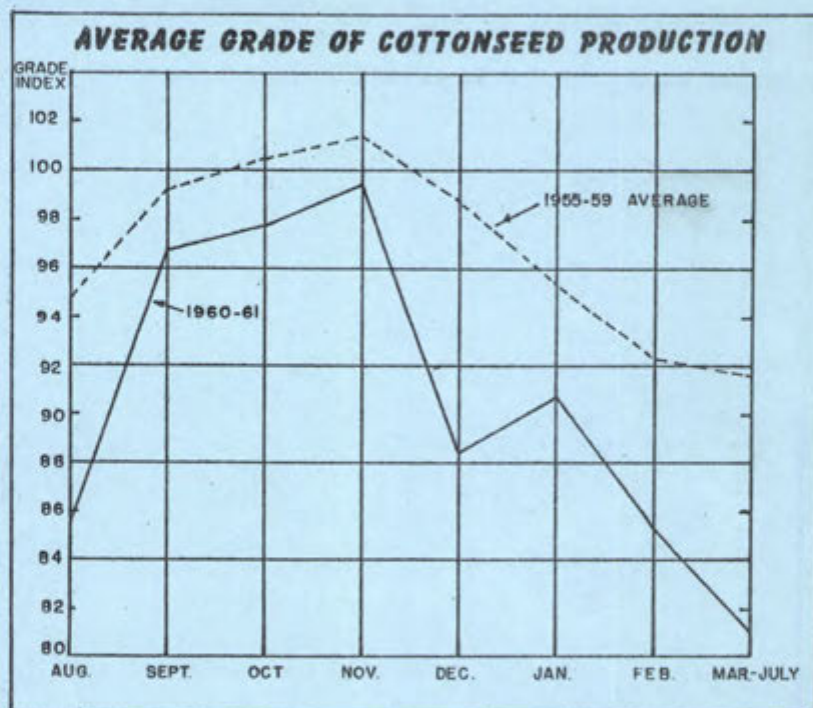


COTTONSEED QUALITY

1960-61



UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Marketing Service Cotton Division
Memphis, Tennessee

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Cottonseed Quality - Crop of 1960

This publication contains statistical data on the quality of cottonseed graded from the 1960 crop. Averages of cottonseed quality factors and grades are shown by states, districts, months and specified frequencies. Data were compiled from official cottonseed grade certificates issued by licensed chemists under the supervision of the Department of Agriculture.

Official grade certificates covering 83,410 samples of cottonseed were issued during the 1960-61 season. These samples were drawn from cottonseed delivered to crushing mills located principally in the south central and southwestern areas of the Cotton Belt. Averages shown for the United States are not fully representative of the entire crop because of the relatively small volume of seed graded in most of the southeastern and far western states.

A summary of cottonseed quality factors and grades is shown below in Table 1 for the fifteen-year period 1946-60. These data indicate that the 1960 average grade was the lowest since 1957. The oil content of the seed averaged the lowest since 1954, and the ammonia content was the highest since 1956. The average linters content in samples graded decreased for the second consecutive year and was the lowest since this factor has been included in the quantity analysis. The percentage of each of the three quality factors averaged slightly higher in 1960 than in the previous year and the quality index was the lowest since 1957.

Average quality factors of cottonseed are shown for specified states in Table 3. 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 by states. Participation in the cottonseed grading program continued limited in parts of the belt during the 1960-61 season and there were very few official cottonseed grade certificates issued in a number of major producing states.

Table 1. Cottonseed quality factors, indexes, and grades,
1946-60 ^{1/}

Year beginning August 1	Cottonseed quantity and quality factors						Quantity Index	Quality Index	Average grade	Number of samples Number
	Oil	Ammonia	Linters	Moisture	Free fatty acids	Foreign matter				
	Percent	Percent	Percent	Percent	Percent	Percent				
1946	18.7	3.61	-	12.4	1.0	0.8	101.29	98.0	99.5	111,237
1947	18.3	3.88	-	11.3	1.4	.8	101.38	96.9	98.0	129,207
1948	18.7	3.72	-	11.3	1.4	.9	102.12	96.5	98.5	155,679
1949	19.1	3.68	-	11.6	1.9	1.1	103.12	95.1	98.0	136,335
1950	18.7	3.64	-	12.8	1.9	1.1	101.02	95.0	96.0	87,663
1951	18.5	3.88	-	11.0	1.5	1.0	101.56	96.5	98.0	124,398
1952	18.6	4.04	-	9.5	1.0	.9	102.95	98.1	101.0	145,146
1953	18.7	4.00	-	9.0	.7	.8	103.46	99.0	102.5	166,916
1954	18.2	4.12	11.4	9.2	.7	1.0	102.07	99.2	101.5	128,983
1955	18.9	3.95	10.4	10.4	.7	.9	102.96	98.9	102.0	101,174
1956	18.9	4.12	10.2	9.1	.5	.8	103.51	99.5	103.0	79,071
1957	18.8	3.78	10.0	12.5	2.5	1.3	100.81	92.9	93.6	74,016
1958	19.0	3.76	10.4	11.5	1.4	1.0	102.09	97.0	99.0	72,076
1959	18.8	3.89	10.2	11.4	1.3	.9	102.10	97.1	100.0	87,772
1960	18.6	3.98	9.7	11.7	1.6	1.1	100.70	95.7	96.0	83,410

^{1/} National averages appearing in this table and presented in all other tables are based on state quality factors and grades weighted by number of official cottonseed grade certificates.

Standards for Grades of Cottonseed Sold or Offered for Sale
for Crushing Purposes Within the United States
(As Amended Effective July 18, 1955)

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

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

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

- (a) For cottonseed that by analysis contain 16.5 percent or more of oil, the quantity index shall equal the result of 4 times (percentage of oil), plus 6 times (percentage of ammonia), plus the applicable linters premium and discount calculated on the basis of the formula shown below, plus 5.
- (b) For cottonseed that by analysis contain less than 16.5 percent of oil, the quantity index shall equal the result of 6 times (percentage of oil), plus 6 times (percentage of ammonia), plus the applicable linters premium or discount, minus 28.
- (c) Formulas for determining linters premiums and discounts (total linters content to the nearest 0.1 percent) are as follows:

Percent Linters on Cottonseed	Premium or Discount Factor
11.6 and over	Premium = (percent linters minus 11.5) x 1.0
11.5	None
11.4-10.0	Discount = (11.5 minus percent linters) x 1.0
9.9-5.0	Discount = (10.0 minus percent linters) x 2.0 + 1.5
4.9-0	Discount = (5.0 minus percent linters) x 2.5 + 11.5

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

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

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

Ex-ample 2/	Quality Factors										Quantity Factors					Grade				
	FFA 3/		FM 4/		H2O 5/		Total Reduc-tions 6/		Qual-ity index		O11		NH3 8/		Linters		Sum of Pro-ducts 7/	Adjust-ment Fac-tors	Quan-tity Index	
	Total	Re-duction	Total	Re-duction	Total	Re-duction	Units	Pct.	Total	Re-duction	Units	Pct.	Total	Re-duction	Units					Pct.
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	12.0	+0.5	98.10	+5	103.10	103.0	
2	1.8	0.0	1.0	0.0	12.0	0.0	0.0	0.0	100.0	17.8	71.2	4.10	24.60	10.0	-1.5	94.30	+5	99.30	99.5	
3	1.2	0.0	0.8	0.0	9.6	0.0	0.0	0.0	100.0	16.2	97.2	3.97	23.82	9.5	-2.5	116.52	-28	90.52	90.5	
4	1.9	0.4	1.0	0.0	12.0	0.0	0.0	0.4	99.6	18.5	74.0	3.50	21.00	12.0	+0.5	95.50	+5	100.50	100.0	
5	1.8	0.0	1.1	0.1	12.0	0.0	0.0	0.1	99.9	19.7	78.8	3.75	22.50	11.0	-0.5	100.80	+5	105.80	105.5	
6	1.8	0.0	1.0	0.0	12.1	0.1	0.1	0.1	99.9	17.3	69.2	4.23	25.38	8.7	-4.1	90.48	+5	95.48	95.5	
7	1.9	0.4	1.1	0.1	12.1	0.1	0.6	0.6	99.4	15.8	94.8	2.98	17.88	14.0	+2.5	115.18	-28	87.18	86.5	
8	2.5	2.8	3.2	2.2	7.4	0.0	5.0	5.0	95.0	24.7	98.8	4.15	24.90	1.7	-19.8	103.90	+5	108.90	103.5	
PRIME QUALITY SEED																				
9	12.5	42.8	0.7	0.0	12.0	0.0	42.8	57.2	20.1	80.4	3.67	22.02	11.5	0.0	102.42	+5	107.42	61.5		
10	1.8	0.0	10.1	9.1	12.0	0.0	9.1	90.9	16.9	67.6	4.13	24.78	8.9	-3.7	88.68	+5	93.68	85.0		
11	1.8	0.0	1.0	0.0	20.1	8.1	8.1	91.9	18.8	75.2	3.80	22.80	13.2	+1.7	99.70	+5	104.70	96.0		
12	1.8	0.0	15.8	14.8	11.1	0.0	14.8	85.2	19.3	77.2	4.08	24.48	12.1	+6	102.28	+5	107.28	91.5		
13	4.6	11.2	11.5	10.5	9.2	0.0	21.7	78.3	16.4	98.4	4.32	25.92	10.6	-9	123.42	-28	95.42	74.5		
BELOW PRIME QUALITY SEED																				
OFF QUALITY SEED																				
Treated (other than usual), Fermented, Hot																				
14	10.5	34.8	20.8	19.8	15.6	3.6	58.2	41.8	17.0	68.0	3.41	20.46	11.5	0.0	88.46	+5	93.46	BG*		
15	17.5	62.8	0.5	0.0	14.1	2.1	64.9	35.1	19.5	78.0	3.94	23.64	13.9	+2.4	104.04	+5	109.04	BG*		

1/ Important key figures that determine the range of various qualities of cottonseed are underscored.

2/ Example "8", demonstration of application of grading system on American-Egyptian seed; all others relate primarily to upland cottonseed.

3/ Free fatty acids in the oil in the seed.

4/ Foreign matter in the seed.

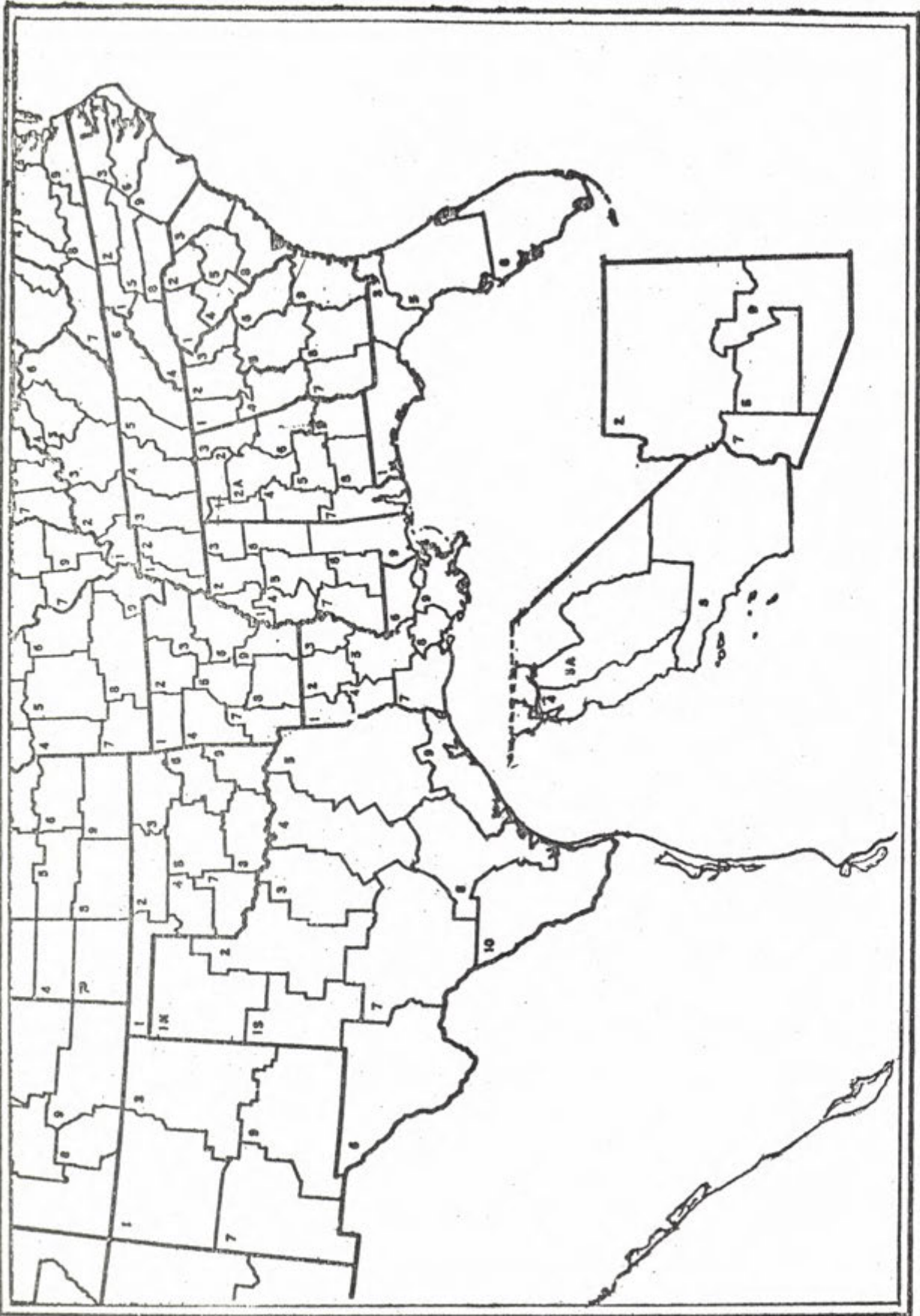
5/ Moisture in the seed.

6/ Reductions are the adjustments made in the quality index for excesses of free fatty acids, foreign matter, and moisture above or below tolerances.

7/ "Products" are percentages of oil, ammonia and linters in the seed multiplied by the factor used in computing the quantity index. For linters, the "products" are positive or negative depending on relationship of linters content to the 11.5 percent base.

8/ Ammonia in the seed.

* Below grade 40. No numerical grade is indicated.



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

Table 3. Cottonseed: Quality factors, indexes, and grades, by States and United States, 1959 and 1960

State	Cottonseed analysis												Average Index				Average grade	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1959	1960
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960				
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.			
Ala.	18.7	18.7	3.79	3.97	10.5	10.1	12.8	12.7	2.1	2.1	0.7	0.8	101.61	101.89	93.3	95.7	97.0	97.5
Ark.	19.1	18.9	3.87	3.95	9.8	9.3	12.2	12.5	1.1	1.4	.9	1.1	102.53	101.12	98.6	97.4	101.0	98.5
Ky.	18.0	17.7	3.69	3.81	10.8	10.4	13.0	12.3	.8	.5	1.0	.9	98.20	97.16	98.1	99.0	96.5	96.0
La.	18.9	18.0	3.92	4.03	9.9	9.5	11.9	12.5	2.5	3.1	.6	.8	101.99	98.47	95.8	93.2	98.0	92.0
Miss.	18.6	18.3	3.91	4.09	10.2	9.4	12.6	12.6	2.0	2.7	.7	.9	101.17	99.99	96.2	94.2	97.5	94.0
Mo.	18.5	18.2	3.80	3.91	10.6	10.3	12.4	12.4	.8	.7	.8	.9	100.97	99.70	98.5	98.4	99.5	98.0
N. Mex.	20.7	20.3	3.81	3.71	11.2	11.0	7.4	8.5	.5	.5	1.3	1.3	110.51	107.98	57.6	99.0	108.5	107.0
N. Carolina	19.9	19.9	3.66	3.96	12.6	8.7	10.8	9.6	7.2	.5	.2	.7	107.55	104.13	79.6	67.6	80.5	84.0
Okla.	18.6	18.7	4.10	4.02	10.3	10.6	9.5	9.8	.7	.6	1.2	1.1	102.29	102.93	99.4	98.1	101.5	101.0
Tenn.	19.4	18.7	3.69	3.93	10.2	9.5	12.6	12.6	.9	1.2	1.0	1.1	103.23	100.82	98.3	98.0	101.5	99.0
Tex.	18.7	18.6	3.99	3.94	10.4	10.1	8.6	9.0	.9	.8	1.3	1.5	102.25	100.94	98.0	94.3	100.5	92.5
All Other 1/	19.2	18.3	3.64	3.65	11.3	11.1	11.9	13.1	.9	1.2	.5	.9	103.41	99.55	96.5	97.0	102.0	96.5
Total	18.8	18.6	3.89	3.98	10.2	9.7	11.4	11.7	1.3	1.6	.9	1.1	102.10	100.70	97.1	95.7	100.0	96.0

1/ Includes Georgia, Illinois, and Arizona.

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and States, 1959 and 1960

ALABAMA

Month	Cottonseed analysis												Average Index			Average grade		Samples		
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960		
Aug.	17.9	17.5	3.75	3.85	9.8	10.4	15.4	15.0	1.3	3.0	0.7	0.8	96.88	96.48	95.1	90.7	92.0	87.5	27	16
Sept.	18.1	18.8	3.66	3.92	10.6	10.1	14.7	13.2	1.0	.8	.5	.5	98.54	101.92	97.0	98.5	95.5	100.5	1,256	1,151
Oct.	18.8	18.7	3.79	3.94	10.5	9.8	12.5	13.5	1.5	1.8	.5	.6	101.92	101.14	92.5	96.7	100.0	98.0	1,607	1,673
Nov.	19.2	18.7	3.87	4.02	10.4	10.3	11.7	11.8	3.0	2.9	.9	1.1	103.61	102.49	91.8	94.4	96.5	97.0	1,030	1,341
Dec.	19.0	18.6	3.90	4.00	10.4	10.6	11.7	11.9	3.9	3.6	1.5	1.3	103.25	102.64	91.2	92.0	93.5	94.5	533	458
Jan.	19.0	18.8	3.89	3.96	10.5	10.4	12.2	11.6	3.7	3.3	1.1	1.6	103.18	102.60	91.4	92.4	94.0	95.0	181	125
Feb.	18.9	18.7	3.92	3.97	10.6	10.6	11.7	11.8	3.1	4.1	2.1	2.0	102.88	102.62	93.3	89.7	96.0	92.0	65	63
Mar.-July	19.1	18.5	3.87	4.02	10.6	10.6	11.1	11.3	3.9	4.0	1.3	1.8	103.56	102.10	90.8	90.1	93.5	92.0	102	88
Season	18.7	18.7	3.79	3.97	10.5	10.1	12.8	12.7	2.1	2.1	.7	.8	101.61	101.89	93.3	95.7	97.0	97.5	4,801	4,915

ARKANSAS

Aug.	17.6	18.9	3.80	3.89	9.5	9.9	15.2	12.3	1.2	2.4	0.6	1.1	95.51	102.05	95.6	95.0	91.5	97.0	58	21
Sept.	18.7	19.0	3.86	3.92	9.8	9.1	12.8	12.9	.9	.6	.5	.5	100.82	101.11	98.5	98.7	99.5	100.0	5,129	3,303
Oct.	19.3	19.0	3.86	3.94	9.7	9.1	12.2	12.7	1.0	.8	.6	.7	103.12	101.25	99.3	98.7	102.5	100.0	7,987	6,496
Nov.	19.4	19.0	3.93	4.00	9.8	9.4	11.5	11.7	1.1	1.5	.9	1.1	104.13	102.22	99.4	98.4	103.5	100.5	3,655	5,101
Dec.	19.1	18.4	3.93	3.93	10.0	9.6	11.2	12.7	1.4	2.2	1.7	1.8	103.33	99.68	98.6	95.8	102.0	95.5	2,731	1,842
Jan.	18.3	18.2	3.78	3.90	10.3	9.7	13.5	13.6	2.4	3.1	2.5	2.7	99.51	98.64	93.9	91.1	93.5	90.0	544	848
Feb.	18.2	18.2	3.77	3.92	10.4	9.7	13.7	13.1	3.3	3.9	2.9	3.5	99.02	99.10	89.9	87.7	89.0	87.0	432	581
Mar.-July	18.6	18.3	3.80	3.94	10.4	9.7	11.9	12.1	3.3	4.5	2.4	2.6	100.49	99.35	91.2	86.7	91.5	86.0	245	275
Season	19.1	18.9	3.87	3.95	9.8	9.3	12.2	12.5	1.1	1.4	.9	1.1	102.53	101.12	98.6	97.4	101.0	98.5	20,781	18,467

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1959 and 1960 (Continued)

KENTUCKY

Month	Cottonseed analysis												Average Index				Samples				
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Average grade		No.		
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	
Sept.	18.5	18.2	3.74	3.80	10.4	9.7	12.1	13.5	0.6	0.5	0.3	0.4	100.28	98.33	99.4	98.5	99.5	97.0	22	11	
Oct.	-	17.7	-	3.81	-	10.1	-	12.5	-	.4	-	.5	-	97.36	-	99.2	-	96.5	-	-	42
Nov.	18.2	17.7	3.72	3.86	10.7	10.9	12.8	11.2	.6	.5	.6	.9	99.30	98.38	99.0	99.8	98.5	98.0	81	28	
Dec.	17.5	17.3	3.64	3.78	11.3	10.6	12.9	12.1	.9	.7	2.0	1.7	96.40	95.33	97.5	98.8	94.0	94.5	26	11	
Jan.	16.0	16.5	3.43	3.64	11.7	11.0	17.1	14.4	1.7	.8	2.6	1.9	88.90	91.65	92.7	96.7	82.5	88.5	6	6	
Feb.	16.9	-	3.43	-	11.6	-	16.6	-	1.9	-	2.2	-	92.68	-	93.6	-	87.0	-	4	-	
Mar.-July	17.0	16.5	3.66	4.06	11.8	11.3	12.4	12.1	3.8	4.3	4.1	5.8	94.71	95.16	86.4	85.1	82.5	81.0	3	1	
Season	18.0	17.7	3.69	3.81	10.8	10.4	13.0	12.3	.8	.5	1.0	.9	98.20	97.16	98.1	99.0	96.5	96.0	142	99	

LOUISIANA

Aug.	-	16.1	-	3.79	-	9.5	-	18.5	-	4.3	-	0.8	-	87.90	-	83.0	-	73.5	-	61
Sept.	-	17.5	-	4.01	-	9.4	-	13.2	-	2.6	-	.8	-	96.06	-	93.8	-	90.5	-	1,470
Oct.	19.0	18.3	3.89	4.05	9.8	9.4	12.1	12.3	2.2	2.0	0.5	.5	102.26	99.76	96.8	97.6	99.0	97.5	1,838	2,002
Nov.	18.6	18.3	3.97	4.05	10.0	9.5	11.7	12.0	2.7	3.4	.7	.8	101.65	99.87	95.4	92.9	97.0	93.0	648	1,346
Dec.	18.4	17.8	4.04	4.02	9.9	9.8	10.6	11.8	3.9	4.5	1.2	1.2	101.15	98.20	91.3	88.2	92.5	86.5	228	638
Jan.	17.8	17.7	3.87	3.96	10.3	9.9	12.8	13.0	9.4	7.0	1.5	1.9	97.64	97.64	67.8	77.2	64.5	75.0	6	174
Feb.	18.0	17.7	4.00	4.00	10.3	10.0	11.6	12.6	3.9	7.4	2.6	2.2	99.55	97.72	89.3	75.6	89.5	73.0	34	85
Mar.-July	18.9	18.0	4.12	3.99	9.9	10.4	9.5	11.3	4.6	7.7	.9	1.5	103.49	99.86	88.6	75.6	91.5	73.5	10	62
Season	18.9	18.0	3.92	4.03	9.9	9.5	11.9	12.5	2.5	3.1	.6	.8	101.99	98.47	95.8	93.2	98.0	92.0	2,764	5,838

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and States, 1959 and 1960 (Continued)

MISSISSIPPI

Month	Cottonseed analysis												Average Index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960		
Aug.	17.8	16.9	3.74	3.98	10.1	9.7	15.2	14.9	1.6	2.3	0.6	0.8	96.93	93.12	94.8	92.4	92.0	86.0	303	137
Sept.	18.3	18.1	3.83	4.03	10.2	9.4	13.8	13.4	1.4	1.3	.5	.5	99.78	98.83	97.3	97.8	97.0	97.0	5,330	5,144
Oct.	18.8	18.5	3.90	4.08	10.2	9.3	12.5	12.9	1.7	1.9	.6	.6	101.97	100.26	97.6	96.9	99.5	97.0	7,226	6,761
Nov.	18.6	18.6	3.96	4.17	10.2	9.5	12.2	11.4	2.4	3.4	.9	1.0	101.96	101.58	95.1	93.0	97.0	94.5	3,452	4,368
Dec.	18.5	18.2	4.01	4.13	10.3	9.5	11.1	12.1	2.9	4.6	1.2	1.4	101.89	100.02	94.5	87.9	96.0	88.0	2,346	1,439
Jan.	18.6	17.9	3.93	4.08	10.3	9.6	12.2	13.2	3.8	6.0	1.3	2.0	101.36	98.67	90.6	81.2	91.5	80.0	336	623
Feb.	17.9	17.7	3.97	4.09	10.3	9.7	12.7	12.8	3.9	6.9	1.6	2.2	99.01	97.76	89.7	77.3	89.0	75.5	219	394
Mar.-July	18.1	18.1	4.02	4.15	10.4	9.7	11.2	11.5	4.3	6.8	1.4	1.5	99.32	99.60	89.1	78.8	89.0	77.5	501	543
Season	18.6	18.3	3.91	4.09	10.2	9.4	12.6	12.6	2.0	2.7	.7	.9	101.17	99.99	96.2	94.2	97.5	94.0	19,713	19,409

MISSOURI

Aug.	18.1	18.6	3.71	3.83	10.3	11.5	13.6	9.8	2.5	4.2	1.1	1.6	98.18	102.46	92.5	89.2	91.0	91.5	21	5
Sept.	18.5	18.6	3.87	3.96	10.4	9.7	12.4	12.5	.8	.7	.4	.5	101.02	100.66	98.8	98.7	100.0	99.5	2,077	1,078
Oct.	18.8	18.2	3.81	3.93	10.5	10.1	12.2	12.5	.6	.4	.4	.5	101.75	99.78	99.3	99.1	101.5	99.0	2,243	2,525
Nov.	18.7	18.2	3.79	3.94	10.7	10.8	12.2	11.3	.6	.5	.7	.9	101.60	100.65	99.3	99.6	101.0	100.5	1,082	1,350
Dec.	18.3	17.6	3.72	3.80	11.1	10.6	12.1	13.6	.8	.8	1.6	2.0	100.17	96.72	98.6	97.2	99.0	94.5	742	316
Jan.	17.2	17.2	3.57	3.65	11.3	11.1	15.7	15.0	1.5	1.3	2.4	3.4	94.75	94.99	94.2	94.1	89.5	89.5	157	179
Feb.	17.2	17.4	3.57	3.72	11.3	11.2	15.2	13.7	2.7	2.1	2.8	3.6	95.03	96.30	90.8	93.2	86.5	90.0	110	124
Mar.-July	18.2	17.6	3.69	3.76	11.4	11.2	12.4	12.8	4.2	4.1	3.0	3.2	99.62	97.76	87.4	86.5	87.0	84.5	179	183
Season	18.5	18.2	3.80	3.91	10.6	10.3	12.4	12.4	.8	.7	.8	.9	100.97	99.70	98.5	98.4	99.5	98.0	6,611	5,759

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1959 and 1960 (Continued)

OKLAHOMA

Month	Cottonseed analysis														Average index			Samples		
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1959	1960	No.	No.
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
Aug.	-	15.0	-	3.76	-	9.4	-	20.8	-	3.9	-	0.8	-	81.69	-	82.1	-	67.5	-	15
Sept.	18.3	18.5	4.12	4.10	10.5	10.2	9.5	9.7	0.6	.5	0.7	.7	101.49	102.06	99.8	79.8	101.5	98.0	334	171
Oct.	18.4	18.4	4.08	4.05	10.1	10.5	10.2	10.3	.6	.5	.8	.7	101.52	101.56	99.7	99.7	101.5	98.5	1,005	817
Nov.	18.7	18.8	4.13	4.04	10.2	10.8	9.3	9.6	.7	.4	1.1	1.0	103.02	103.68	99.6	99.7	102.5	102.0	961	1,629
Dec.	18.8	19.1	4.10	3.97	10.6	10.5	8.3	9.0	.8	.6	1.8	1.7	103.64	104.00	99.0	99.1	102.5	103.0	511	640
Jan.	18.2	18.8	4.03	3.89	10.2	10.5	10.4	10.3	1.1	1.0	2.2	1.9	100.16	102.40	96.7	98.9	98.0	101.5	82	174
Feb.	18.2	18.3	3.99	3.90	10.6	10.5	10.5	10.7	1.3	1.5	2.5	2.3	100.44	100.91	97.5	88.3	98.0	95.5	48	84
Mar.-July	18.2	18.5	3.98	4.00	11.0	10.6	10.4	9.7	1.7	1.3	3.0	2.2	100.64	101.81	95.8	88.8	96.5	100.0	55	48
Season	18.6	18.7	4.10	4.02	10.3	10.6	9.5	9.8	.7	.6	1.2	1.1	102.29	102.93	99.4	98.1	101.5	101.0	2,996	3,578

NEW MEXICO

Sept.	22.1	22.3	3.73	3.67	10.7	9.9	7.5	8.7	0.4	0.5	0.7	0.5	114.69	114.42	99.8	99.9	105.5	114.5	82	13
Oct.	21.2	21.3	3.80	3.73	11.0	10.6	7.5	8.7	.4	.4	.8	.5	112.04	112.52	44.9	99.2	112.0	112.5	411	236
Nov.	20.3	20.8	3.85	3.75	11.6	11.0	7.2	8.3	.4	.4	1.2	.8	109.40	109.98	48.1	99.8	109.0	109.5	285	330
Dec.	19.8	19.1	3.87	3.71	11.5	11.0	6.8	7.7	.6	.4	2.7	2.3	107.42	103.04	78.5	98.6	105.5	100.5	124	97
Jan.	19.1	18.1	3.68	3.63	11.8	11.6	10.2	9.2	.9	.5	4.4	2.6	103.83	98.92	96.1	98.3	67.5	97.5	20	80
Feb.	19.8	17.6	3.67	3.52	11.9	11.7	8.7	9.3	1.1	1.0	4.9	3.9	106.83	96.36	96.1	96.5	102.5	93.0	12	21
Mar.-July	19.3	17.6	3.81	3.56	11.1	12.2	8.7	8.7	1.2	1.8	4.3	4.5	104.57	97.28	96.1	94.0	94.5	87.5	15	34
Season	20.7	20.3	3.81	3.71	11.2	11.0	7.4	8.5	.5	.5	1.3	1.3	110.51	107.98	57.6	99.0	108.5	107.0	949	811

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and States, 1959 and 1960 (Continued)

TENNESSEE

Month	Cottonseed analysis												Average index		Average grade		Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		No.			
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960		
Aug.	17.9	-	3.45	-	9.7	-	16.8	-	1.7	-	0.9	-	95.08	-	93.5	-	89.0	-	5	-
Sept.	19.1	19.0	3.59	3.89	10.2	9.4	13.8	13.0	1.0	0.8	.5	0.6	101.51	101.65	97.8	98.5	99.5	100.0	1,942	1,378
Oct.	19.6	18.6	3.68	3.91	10.1	9.3	12.6	13.4	.7	.8	.6	.6	103.79	100.03	99.2	98.4	103.0	98.5	3,329	2,769
Nov.	19.7	18.8	3.76	4.00	10.2	9.7	11.5	11.4	.7	1.3	1.0	1.3	104.93	102.03	99.4	99.1	104.5	101.0	1,649	2,341
Dec.	19.3	18.4	3.74	3.92	10.4	9.8	11.8	12.7	1.0	1.8	1.9	2.2	103.63	99.92	98.6	96.8	102.0	97.0	1,552	828
Jan.	18.4	18.1	3.62	3.87	10.7	10.0	14.4	13.6	1.7	2.4	2.7	3.0	99.57	99.06	94.7	93.6	94.5	92.5	286	342
Feb.	18.2	18.0	3.61	3.85	10.8	10.2	14.4	13.4	2.7	2.9	2.8	3.6	98.78	98.69	91.5	91.2	90.5	90.0	141	126
Mar.-July	18.9	18.2	3.71	3.91	10.8	10.1	12.0	12.0	4.2	4.0	3.7	3.2	102.10	99.53	86.4	88.3	87.5	87.5	165	100
Season	19.4	18.7	3.69	3.93	10.2	9.5	12.6	12.6	.9	1.2	1.0	1.1	103.23	100.82	98.3	98.0	101.5	99.0	9,069	7,884

TEXAS

Aug.	18.5	18.0	3.73	3.85	10.2	10.3	12.2	12.6	0.9	2.2	0.9	0.7	99.72	98.60	97.7	95.0	97.5	94.0	79	75
Sept.	18.4	18.7	3.95	3.98	10.4	10.1	9.4	9.4	1.6	2.8	1.0	.7	100.87	101.53	96.3	83.2	97.5	84.5	3,825	1,260
Oct.	18.7	19.1	4.00	4.00	10.2	10.2	9.0	9.3	.8	.5	.9	.7	102.15	103.61	98.9	85.3	101.0	93.0	6,031	2,897
Nov.	18.8	18.9	4.03	3.99	10.4	9.8	8.1	9.0	.6	.5	1.2	1.2	102.90	102.38	98.0	99.6	102.0	102.0	5,681	6,317
Dec.	18.9	18.2	4.01	3.88	10.5	10.3	7.3	8.2	.7	.6	1.9	2.0	103.41	99.31	98.6	94.1	102.0	79.0	3,453	3,578
Jan.	18.3	17.6	3.88	3.78	10.5	10.6	9.9	9.6	1.0	.8	2.2	2.6	100.30	96.14	97.7	98.1	98.0	94.5	417	1,724
Feb.	18.5	17.3	3.86	3.74	10.5	10.6	10.0	10.0	1.6	1.0	2.3	3.4	100.56	94.93	96.8	95.2	97.5	89.0	183	348
Mar.-July	18.5	17.6	3.96	3.83	10.3	10.1	9.0	9.0	2.2	2.0	2.9	3.6	100.82	96.09	93.9	93.6	94.5	70.5	228	234
Season	18.7	18.6	3.99	3.94	10.4	10.1	8.6	9.0	.9	.8	1.3	1.5	102.25	100.94	98.0	94.3	100.5	92.5	19,897	16,433

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1959 and 1960

ALABAMA

Dist. No.	Cottonseed analysis												Average Index				Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1959	1960	No.	No.
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	No.	No.
1	18.4	18.6	3.78	4.01	10.5	10.0	13.2	12.7	2.0	2.2	0.6	0.7	99.90	101.47	94.3	95.2	95.5	96.5	614	611
2	18.9	18.8	3.78	3.95	10.4	10.1	12.8	12.7	1.8	2.0	.8	.9	102.10	102.12	95.2	96.2	98.5	98.5	3,381	3,481
3	18.8	18.4	3.81	4.01	10.7	10.3	12.5	13.1	1.5	2.0	.9	.8	102.22	101.30	89.2	96.4	100.0	97.5	482	439
4	17.7	18.4	3.96	4.01	11.1	10.5	12.7	12.3	6.8	3.8	.6	.5	98.42	101.44	76.8	90.4	75.5	92.0	253	282
5	18.9	18.7	3.88	3.82	10.5	10.7	11.6	11.3	5.3	3.8	.7	.6	102.71	101.73	84.2	91.2	86.5	93.0	13	14
6	18.0	18.6	3.99	3.86	10.6	10.5	13.2	12.0	2.8	2.1	.7	.8	99.82	100.01	85.4	95.7	93.5	97.0	44	63
7	18.5	18.2	3.90	3.95	10.1	11.1	13.4	13.2	5.4	5.0	.3	.4	100.53	101.18	83.5	85.3	83.5	86.0	13	24
9	19.2	17.2	3.59	4.09	9.7	10.7	14.0	11.5	1.2	1.3	1.4	.5	101.24	97.54	97.6	100.0	99.0	97.5	1	1
State	18.7	18.7	3.79	3.97	10.5	10.1	12.8	12.7	2.1	2.1	.7	.8	101.61	101.89	93.3	95.7	97.0	97.5	4,801	4,915

ARKANSAS

2	19.7	18.7	3.70	3.83	9.7	9.2	12.5	12.6	0.7	0.6	0.6	0.9	103.65	99.74	99.2	99.0	103.0	98.5	256	59
3	19.0	18.8	3.85	3.91	9.7	9.2	12.4	12.7	.9	.9	1.1	1.2	101.97	100.72	98.4	98.1	100.5	99.0	8,862	7,560
4	19.8	18.9	3.85	3.86	9.2	9.7	11.4	11.7	1.7	1.3	.6	.9	104.09	101.51	97.8	98.7	101.5	100.0	138	212
5	20.1	19.2	3.83	3.90	9.3	9.2	11.3	12.0	1.5	1.1	1.1	1.1	105.20	101.91	98.3	98.6	103.5	100.5	352	364
6	18.9	18.9	3.89	3.96	9.9	9.3	12.2	12.5	1.3	1.5	.8	1.0	102.20	101.35	98.5	97.2	100.5	98.5	7,466	7,033
7	19.3	18.5	3.79	4.04	10.0	9.3	11.8	11.5	1.4	1.3	.7	.7	103.04	100.34	99.1	98.9	102.0	99.0	356	340
8	19.4	18.8	3.78	4.03	10.2	9.4	11.7	11.8	1.4	1.5	.6	.9	103.77	101.51	99.1	97.9	103.0	99.5	294	231
9	19.4	19.0	3.93	4.00	9.9	9.2	11.8	12.3	1.1	2.2	.7	1.1	104.30	101.62	99.1	95.6	103.5	97.5	3,057	2,668
State	19.1	18.9	3.87	3.95	9.8	9.3	12.2	12.5	1.1	1.4	.9	1.1	102.53	101.12	98.6	97.4	101.0	98.5	20,781	18,467

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop reporting districts and States, 1959 and 1960 (Continued)

LOUISIANA

Dist. No.	Cottonseed analysis												Average index				Samples				
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Average grade	No.			
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	No.	No.	
1	19.0	18.2	4.04	4.18	10.0	9.5	11.0	11.1	1.4	2.2	0.4	0.5	103.48	100.27	99.4	96.7	103.0	97.0	563	781	
2	18.9	18.2	3.94	4.09	9.9	9.1	11.4	12.1	2.0	3.1	.8	1.0	102.42	98.85	98.2	93.0	100.5	92.0	155	313	
3	18.8	18.3	3.94	4.06	9.7	9.2	12.0	12.1	2.2	3.0	.7	.9	101.56	99.39	97.2	93.7	98.5	93.0	1,211	2,636	
4	-	18.2	-	4.03	-	9.8	-	12.0	-	3.6	-	.7	-	100.04	-	91.8	-	-	91.5	-	240
5	18.8	17.5	3.82	3.91	10.1	9.9	12.5	13.5	3.7	3.3	.8	.7	101.63	96.52	91.2	91.8	92.5	89.0	785	1,584	
6	18.5	16.9	3.63	3.85	11.0	10.9	13.5	14.1	4.8	2.8	.6	.5	100.08	94.87	86.4	93.4	86.5	88.5	23	87	
7	18.2	16.6	3.71	3.93	10.3	9.8	13.6	15.4	3.1	4.9	.9	.6	99.00	92.41	93.3	83.9	92.5	78.0	14	86	
8	18.6	17.0	3.77	3.94	10.5	9.9	12.4	14.2	4.9	4.4	1.0	.6	101.01	94.77	86.1	86.9	87.0	82.5	13	111	
State	18.9	18.0	3.92	4.03	9.9	9.5	11.9	12.5	2.5	3.1	.6	.8	101.99	98.47	95.8	93.2	98.0	92.0	2,764	5,838	

MISSISSIPPI

1	18.2	18.1	4.01	4.12	10.1	9.4	12.4	12.7	1.3	2.6	0.8	0.9	100.31	99.26	98.2	93.8	98.5	93.0	5,390	5,114
2	19.1	18.9	3.76	4.03	10.0	9.1	12.6	12.4	1.4	2.3	.8	1.0	102.41	101.59	98.3	95.5	100.5	97.0	2,820	2,899
3	18.8	18.9	3.74	4.04	10.2	9.1	13.0	12.5	1.2	2.2	.7	.9	101.35	101.25	98.2	95.5	99.5	97.0	1,231	1,179
4	18.5	18.2	4.01	4.14	10.2	9.4	12.4	12.6	2.1	3.2	.7	.8	101.43	99.76	96.6	92.5	98.0	92.0	5,756	5,770
5	18.8	18.3	3.80	4.09	10.2	9.5	13.1	12.7	3.1	2.3	.7	.7	101.72	100.21	92.6	95.9	94.0	96.0	1,969	1,816
6	18.3	18.1	3.83	4.11	10.4	9.5	13.1	12.2	2.5	2.3	.4	.5	100.18	99.63	94.2	96.0	94.5	95.5	906	1,051
7	18.6	17.9	3.83	4.03	10.2	9.7	13.0	13.4	3.8	3.1	.8	.6	101.05	98.62	89.9	93.2	91.0	92.0	635	609
8	18.6	18.0	3.73	3.94	10.6	10.6	13.3	12.6	3.6	2.1	.9	1.0	100.83	99.75	89.6	96.7	89.5	96.5	714	757
9	18.4	18.1	3.75	3.99	11.1	10.5	13.2	13.1	4.6	2.9	.7	.7	100.40	99.89	87.1	93.3	86.0	93.0	292	214
State	18.6	18.3	3.91	4.09	10.2	9.4	12.6	12.6	2.0	2.7	.7	.9	101.17	99.99	96.2	94.2	97.5	94.0	19,713	19,409

NEW MEXICO

3	18.8	18.3	4.08	3.82	10.2	9.7	6.8	8.5	0.5	0.5	1.8	2.6	103.25	98.34	67.6	98.2	101.0	96.5	89	83
9	20.9	20.5	3.79	3.70	11.3	11.1	7.5	8.5	.4	.5	1.3	1.2	111.27	109.08	56.5	99.1	109.0	108.0	860	728
State	20.7	20.3	3.81	3.71	11.2	11.0	7.4	8.5	.5	.5	1.3	1.3	110.51	107.98	57.6	99.0	108.5	107.0	949	811

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1959 and 1960 (Continued)

OKLAHOMA

Dist. No.	Cottonseed analysis												Average index				Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1959	1960	No.	No.
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
1	17.9	4.05	9.5	11.4	7.2	2.0	-	98.09	-	77.1	-	76.0	-	76.0	-	76.0	-	76.0	-	4
3	18.6	4.03	9.5	10.1	10.4	10.9	1.0	.4	1.0	.9	100.88	102.36	99.6	99.7	100.5	86.5	36	12		
4	18.5	4.08	10.4	9.3	9.4	9.4	7.5	1.5	1.6	1.6	102.25	104.30	98.9	98.4	101.5	103.5	624	832		
5	18.2	4.14	10.3	10.1	10.0	10.0	9.5	1.3	1.3	1.3	101.05	102.37	99.0	98.1	100.0	100.0	216	319		
6	18.7	3.84	9.6	10.0	11.2	11.3	9.5	1.2	1.2	1.2	100.20	100.35	98.3	99.5	99.5	88.5	227	180		
7	18.6	4.14	10.5	10.8	9.3	9.6	6.6	1.1	1.1	1.1	102.96	103.01	98.6	97.9	102.5	102.0	1,656	2,042		
8	18.3	4.20	9.5	10.5	9.5	10.7	6.6	1.1	1.1	1.1	100.64	99.04	98.9	97.4	100.5	97.5	173	148		
9	19.1	3.70	10.3	10.1	10.8	11.6	1.7	.8	.7	.8	102.19	101.54	98.3	99.7	100.5	81.5	64	41		
State	18.6	4.10	10.3	10.6	9.5	9.8	.7	.6	1.2	1.1	102.29	102.93	98.4	98.1	101.5	101.0	2,996	3,578		

TENNESSEE

1	19.1	3.72	10.3	9.6	12.5	12.8	0.9	1.1	0.9	1.0	102.33	99.73	98.5	98.0	101.0	98.0	3,467	3,000
2	19.6	3.67	10.1	9.4	12.6	12.5	1.0	1.2	1.1	1.3	103.79	101.62	98.2	98.0	102.0	99.5	4,901	4,264
3	19.4	3.66	10.3	9.7	12.9	13.2	1.1	1.3	.8	.8	103.33	100.47	98.3	97.7	101.5	98.5	292	282
4	19.6	3.61	10.7	10.1	12.5	13.0	1.4	1.5	.9	.9	104.00	100.44	98.0	97.7	102.0	98.0	315	258
5	19.6	3.60	10.9	10.3	12.4	13.0	1.1	1.7	.8	.7	104.45	101.64	98.9	97.9	103.5	99.5	94	80
State	19.4	3.69	10.2	9.5	12.6	12.6	.9	1.2	1.0	1.1	103.23	100.82	98.3	98.0	101.5	99.0	9,069	7,884

TEXAS

1	18.9	4.01	10.3	10.0	7.9	8.8	0.5	0.6	1.4	1.7	103.17	100.54	99.3	92.9	102.5	89.5	10,445	10,633
2	18.4	4.16	9.9	10.0	8.5	9.1	.5	.6	1.0	1.1	101.55	101.41	98.6	98.2	101.5	99.0	3,842	3,934
3	17.8	4.18	10.3	11.1	8.8	9.0	.6	.6	.8	1.0	99.69	99.55	98.9	99.8	99.5	99.5	89	167
4	17.9	3.89	11.3	11.2	9.4	9.6	1.0	1.4	1.6	1.2	99.16	96.96	98.5	95.4	98.0	90.5	2,446	132
5	18.8	3.75	10.5	9.8	11.1	11.6	1.9	1.9	.9	.7	101.59	100.58	97.1	96.0	98.5	96.5	845	99
6	21.4	3.84	11.2	11.2	8.2	9.2	.5	.4	1.0	1.2	113.39	108.07	89.6	99.0	113.0	107.5	592	638
7	18.0	4.15	10.4	10.6	8.6	8.3	.6	.5	.9	.9	100.71	100.17	98.6	99.5	100.0	99.0	266	298
8	18.0	3.83	11.2	11.3	10.1	10.4	1.9	3.0	.8	1.0	99.82	96.39	97.1	93.3	97.0	92.5	306	64
9	18.1	3.77	9.7	10.1	12.2	11.8	6.1	6.8	.9	.7	98.35	99.19	82.1	78.9	80.5	78.0	969	467
10	18.1	3.98	11.2	12.2	9.2	7.4	.6	.6	1.2	.8	100.83	101.82	99.6	100.0	100.5	102.0	97	1
State	18.7	3.99	10.4	10.1	8.6	9.0	.9	.8	1.3	1.5	102.25	100.94	98.0	94.3	100.5	92.5	19,897	16,433

Table 6. Percentage distribution of quantity and quality indexes by specified frequencies, by States and United States, 1959 and 1960

State	Quantity Index																					
	Under 65		65-69		70-74		75-79		80-84		85-89		90-94		95-99		100-104		105 and over		Total	
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
Ala.	0.1	0.1	*	*	*	*	*	*	*	0.1	0.2	3.6	0.8	24.7	19.6	55.6	68.3	15.8	11.0	100.0	100.0	
Ark.	*	.1	*	*	*	0.1	0.1	0.1	0.1	.4	.4	3.2	2.7	16.3	28.4	55.1	57.6	24.8	10.6	100.0	100.0	
Ky.	-	-	-	-	-	-	-	-	-	-	-	10.6	19.2	38.0	56.5	43.7	18.2	.7	-	100.0	100.0	
La.	.1	.1	*	*	*	*	1.2	1.1	3.1	3.1	.9	12.8	22.3	43.1	61.6	35.7	15.1	3.9	100.0	100.0		
Miss.	.1	.1	*	*	*	0.1	.2	.5	1.0	4.3	5.2	26.7	38.5	56.0	50.4	12.3	4.5	100.0	100.0			
Mo.	*	.1	*	*	*	*	.1	.1	.6	.8	4.8	5.5	27.8	44.3	56.1	45.8	10.5	3.4	100.0	100.0		
N. Mex.	-	-	-	-	-	-	-	.6	.1	.7	-	3.8	1.7	9.7	11.8	12.5	86.4	72.7	100.0	100.0		
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.4	11.1	88.9	36.5	100.0	100.0		
Okla.	.1	.1	-	-	-	-	.2	.1	.2	.1	1.1	.6	20.0	14.2	59.0	57.3	19.5	27.3	100.0	100.0		
Tenn.	*	*	-	-	-	-	-	.1	*	.3	.2	2.0	3.0	11.7	31.3	53.4	60.2	32.5	5.3	100.0	100.0	
Tex.	.1	.2	*	*	*	0.1	.3	.1	.9	.3	2.5	3.6	7.8	23.3	22.9	48.5	44.7	24.0	20.6	100.0	100.0	
All other 1/	-	-	-	-	-	-	-	-	-	-	2.6	2.5	5.1	20.0	48.7	60.0	41.0	17.5	2.6	100.0	100.0	
Total	.1	.1	*	*	*	*	.1	.4	.1	.4	1.1	3.4	5.0	21.3	30.8	53.5	51.4	21.2	11.1	100.0	100.0	

State	Quality Index																			
	Below grade		Below prime quality						Prime quality 100				Total							
	1959	1960	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	1959	1960	1959	1960	1959	1960	1959	1960			
Ala.	3.1	0.1	0.4	0.1	1.2	0.8	1.6	1.7	2.1	4.0	5.5	12.6	15.1	61.5	66.3	13.9	8.4	100.0	100.0	
Ark.	*	*	*	.1	.1	.5	.4	1.0	.5	1.5	3.1	4.4	7.2	53.1	60.8	40.4	25.8	100.0	100.0	
Ky.	-	-	-	-	.7	-	-	-	-	1.4	1.0	7.0	1.0	62.7	63.7	28.2	34.3	100.0	100.0	
La.	.1	.2	.1	.2	.9	2.2	2.4	5.3	2.3	5.0	5.1	10.3	15.3	47.5	38.2	26.3	17.3	100.0	100.0	
Miss.	.2	.2	.2	.2	1.1	1.7	1.9	3.4	1.9	3.5	3.4	8.0	10.7	19.9	59.7	53.0	20.9	10.1	100.0	100.0
Mo.	.1	*	-	.2	.5	.6	.7	.7	.6	1.2	.8	4.0	4.1	53.1	55.6	40.1	37.7	100.0	100.0	
N. Mex.	46.5	.2	-	-	.1	-	.1	.1	-	.1	.2	2.3	2.5	39.3	38.1	11.7	58.8	100.0	100.0	
N. C.	11.1	35.4	-	-	11.1	.6	22.2	.6	-	-	-	33.4	.6	22.2	24.2	-	38.6	100.0	100.0	
Okla.	*	1.5	*	-	.1	.2	.2	.1	.2	.2	.1	1.1	.8	44.3	39.3	54.0	57.7	100.0	100.0	
Tenn.	*	*	*	*	.1	.1	.6	.3	.5	1.2	1.3	5.7	5.7	63.2	73.8	28.7	18.3	100.0	100.0	
Tex.	.5	4.8	.1	.6	.7	1.3	1.1	1.3	.5	1.6	.7	2.2	1.6	44.5	51.8	47.9	38.8	100.0	100.0	
All other 1/	2.5	-	-	-	-	-	-	-	-	5.1	-	2.6	2.5	5.1	65.0	69.3	30.0	17.9	100.0	100.0
Total	.8	1.2	.1	.1	.5	.9	1.1	1.8	1.1	1.8	2.0	3.9	6.1	9.8	53.6	55.6	34.7	24.9	100.0	100.0

* Less than 0.05 percent
 1/ See footnote Page 5.

Table 7. Percentage distribution of grades by specified frequencies, by States and United States, 1959 and 1960

State	Grade												110.0 and over		Total								
	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		Total		
	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960
Ala.	0.9	*	2.4	1.1	0.7	0.9	1.4	1.8	4.2	4.7	4.2	16.1	12.4	25.5	39.8	38.5	35.3	9.7	4.5	0.1	*	100.0	100.0
Ark.	.1	*	.4	1.3	.5	.8	1.0	1.9	2.6	3.8	5.6	9.1	17.5	30.7	49.0	43.0	22.1	9.2	1.2	0.2	0.2	100.0	100.0
Ky.	-	-	2.1	-	2.1	-	2.1	3.0	7.0	6.1	11.3	21.2	35.9	52.5	38.8	17.2	.7	-	-	-	-	100.0	100.0
La.	.1	0.2	1.9	7.2	1.3	4.2	2.6	6.6	4.2	12.5	13.3	20.2	29.2	27.6	35.9	19.3	11.4	2.2	.1	*	100.0	100.0	
Miss.	.3	.2	1.9	3.5	1.3	2.2	2.2	4.4	5.3	9.1	13.1	20.7	28.4	34.9	39.2	23.1	8.1	1.8	.2	.1	100.0	100.0	
Mo.	*	*	.8	1.0	.8	.6	1.3	1.4	3.1	2.9	7.2	9.8	26.7	40.7	49.2	39.9	10.6	3.6	.3	.1	100.0	100.0	
N. Mex.	1.6	.4	.1	-	-	.5	-	1.0	.2	1.2	.6	5.8	3.6	9.7	11.3	11.1	24.7	19.9	57.9	50.4	100.0	100.0	
N. Car.	11.1	21.3	11.1	.6	-	-	22.2	-	.6	-	-	11.1	10.1	44.5	38.2	-	23.6	-	5.6	100.0	100.0		
Okla.	-	1.7	.3	.4	.1	.1	.1	.2	.2	.2	2.3	1.0	20.8	14.6	57.6	56.0	18.5	25.3	.1	.5	100.0	100.0	
Tenn.	*	*	.4	.3	.5	.3	.9	.8	2.5	2.5	5.7	10.3	14.0	36.4	46.9	44.9	28.8	4.5	.3	-	100.0	100.0	
Tex.	.1	8.1	1.4	1.4	1.0	1.0	1.3	1.5	1.9	3.5	4.9	8.3	22.4	20.1	44.5	37.2	18.2	16.3	4.3	2.6	100.0	100.0	
All other 1/	-	-	-	-	-	-	-	7.7	2.5	5.1	10.0	12.8	25.0	51.3	45.0	17.9	5.0	2.6	12.5	2.6	100.0	100.0	
Total	.2	1.8	1.1	2.1	.8	1.3	1.4	2.5	3.2	5.2	7.9	12.4	22.2	30.2	44.5	35.3	16.7	8.1	2.0	1.1	100.0	100.0	

* Less than 0.05 percent.

1/ See footnote Page 5.

Table 8. Percentage distribution of oil by specified frequencies, by States and United States, 1959 and 1960

State	Oil												20.0-20.9		21.0 and over		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		Total	
	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.
Ala.	0.1	0.1	0.1	0.1	0.2	0.2	1.7	0.6	6.1	2.1	10.5	8.7	15.1	22.4	22.2	30.9	37.2	32.6	6.7	2.2	0.1	0.1	100.0	
Ark.	.2	.3	.2	.3	.5	.5	1.3	1.0	2.9	2.5	5.3	6.4	10.8	15.3	19.2	25.4	42.3	40.1	15.7	7.9	1.6	.3	100.0	
Ky.	.7	-	5.6	5.1	3.5	7.1	7.0	8.1	9.2	10.1	13.4	26.3	19.7	29.2	26.1	10.1	14.8	4.0	-	-	-	-	100.0	
La.	.1	.3	.1	2.8	.3	3.9	.7	6.9	2.1	12.1	6.9	17.4	16.6	22.6	27.4	19.5	39.8	12.8	5.9	1.7	.1	*	100.0	
Miss.	.3	.3	.3	.8	.8	1.4	2.3	3.1	5.9	7.0	13.0	15.8	20.8	25.2	23.5	25.2	28.2	19.5	4.7	1.6	.2	.1	100.0	
Mo.	.2	.1	.4	.6	1.0	1.5	2.9	4.7	6.4	9.8	12.3	20.1	20.0	24.7	24.0	22.1	28.7	15.5	3.8	.9	.3	*	100.0	
N. Mex.	.1	.6	.1	1.0	-	.6	.1	2.2	.3	3.0	.5	3.1	2.8	5.3	5.8	5.4	18.4	13.2	22.9	23.1	49.0	42.5	100.0	
N. Car.	-	-	-	-	-	-	-	.6	-	1.1	11.1	-	1.1	-	1.7	33.3	51.1	44.5	41.0	11.1	3.4	100.0		
Okla.	.1	.5	.2	.1	.6	.3	2.1	1.0	5.2	4.8	11.6	12.8	23.3	19.1	25.9	22.1	28.0	30.7	2.9	8.0	.1	.6	100.0	
Tenn.	.1	.1	.1	.1	.3	.3	.6	1.0	1.4	3.4	3.3	8.9	6.7	19.0	11.6	28.7	51.7	36.5	23.6	2.0	.6	*	100.0	
Tex.	.2	.7	.5	1.7	1.4	2.4	3.1	4.5	6.4	7.6	10.1	10.9	16.8	13.9	21.7	15.7	29.8	32.4	7.1	8.2	2.9	2.0	100.0	
All other 1/	-	-	-	-	-	-	-	2.6	-	2.6	5.0	17.9	17.5	28.1	32.5	15.4	30.0	20.5	-	2.6	12.5	-	100.0	
Total	.2	.3	.3	.9	.8	1.3	2.0	2.8	4.7	5.9	9.0	11.8	15.4	19.3	20.8	23.0	35.1	28.9	10.0	4.9	1.7	.9	100.0	

* Less than 0.05 percent.

1/ See footnote Page 5.

Table 9. Percentage distribution of ammonia by specified frequencies, by States and United States, 1959 and 1960

State	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				
	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
Ala.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Ark.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Ky.	-	-	-	-	1.4	-	3.5	-	6.3	2.0	38.1	16.2	36.6	42.4	14.1	27.3	-	11.1	-	-	-	-	-	-	-
La.	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.8	4	9.4	2.4	21.7	13.3	32.2	24.2	28.7	10.6	28.6	100.0	100.0	100.0	100.0	100.0	
Miss.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Mo.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
N. Mex.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
N. C.	-	-	-	-	-	-	11.1	-	22.2	6	33.4	3.4	22.2	20.8	-	30.3	11.1	33.1	-	-	-	-	-	-	-
Okla.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Tenn.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Tex.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
All other 1/	-	-	-	-	-	-	2.6	7.5	7.7	37.5	20.5	22.5	35.9	5.0	12.8	22.5	15.4	5.0	5.1	-	-	-	-	-	
Total	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

* Less than 0.05 percent.

1/ See footnote Page 5.

Table 10. Percentage distribution of linters by specified frequencies, by States and United States, 1959 and 1960

State	Under 7.0		7.0-8.9		9.0-9.9		10.0-10.9		11.0-11.9		12.0-12.9		13.0-13.9		14.0-15.9		16.0 and over		Total						
	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	1959	Pct.	1960	Pct.	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Ark.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Ky.	-	-	-	-	6.3	21.2	48.7	53.5	38.7	25.3	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Miss.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Mo.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
N. Mex.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
N. C.	-	-	-	-	14.6	-	37.6	-	18.0	11.1	3.4	66.7	1.1	11.1	-	11.1	-	-	-	-	-	-	-	-	-
Okla.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Tenn.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Tex.	1.2	3.2	12.6	17.5	20.9	21.3	30.6	28.8	23.4	20.0	9.5	7.6	1.6	1.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
All other 1/	-	-	-	-	-	-	2.5	12.8	27.5	15.4	45.0	25.0	12.8	-	-	-	-	-	-	-	-	-	-	-	
Total	0.3	0.8	8.0	23.1	30.5	38.3	40.3	24.6	16.0	10.0	4.2	2.8	0.6	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

* Less than 0.05 percent.

1/ See footnote Page 5.

Table 11. Percentage distribution of moisture in cottonseed samples by specified frequencies, by States and United States, 1959

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	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	38.0	61.9	0.1	*	*	*	2.5	12.5	23.0	41.0	13.4	6.6	0.9	0.1	100.0
Ark.	56.4	43.4	.2	*	-	0.3	6.1	22.0	28.0	30.5	8.8	3.1	1.0	.2	100.0
Ky.	38.7	59.9	1.4	-	-	-	1.4	13.4	23.9	38.8	14.1	5.6	1.4	1.4	100.0
La.	55.7	44.3	-	-	-	2.2	9.1	19.0	25.4	36.4	7.4	.5	-	-	100.0
Miss.	42.3	57.6	.1	-	*	.3	5.3	15.8	20.9	38.0	13.7	4.8	1.1	.1	100.0
Mo.	49.3	50.4	.3	-	-	.3	3.2	15.5	30.3	36.9	9.3	3.2	1.0	.3	100.0
N. Mex.	99.7	.2	.1	-	42.3	50.5	4.8	1.6	.5	.1	-	.1	-	.1	100.0
N. Car.	88.9	11.1	-	-	-	-	11.1	55.6	22.2	11.1	-	-	-	-	100.0
Okla.	93.9	6.1	*	0.1	.8	41.5	28.0	15.1	8.4	5.3	.5	.2	.1	*	100.0
Tenn.	45.6	53.9	.5	*	-	.2	3.8	14.6	27.0	37.7	10.5	4.2	1.5	.5	100.0
Tex.	95.3	4.6	.1	.1	18.5	48.8	15.5	7.8	4.6	3.5	.8	.2	.1	.1	100.0
All other 1/	40.0	60.0	-	-	12.5	2.5	-	7.5	17.5	35.0	25.0	-	-	-	100.0
Total	61.0	38.8	.2	*	4.7	13.3	8.2	15.0	19.8	27.0	8.1	2.9	.8	.2	100.0

* Less than 0.05 percent.

1/ See footnote Page 5.

Table 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by States and United States, 1960

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	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	34.8	65.1	0.1	*	-	0.2	1.0	8.5	25.1	50.3	13.3	1.3	0.2	0.1	100.0
Ark.	41.4	58.4	.2	*	-	.2	2.1	12.4	26.7	45.0	11.4	1.6	.4	.2	100.0
Ky.	45.5	54.5	-	-	-	1.0	3.0	16.2	25.3	41.4	13.1	-	-	-	100.0
La.	47.2	51.8	1.0	-	-	1.4	5.7	15.3	24.8	37.0	10.4	3.3	1.1	1.0	100.0
Miss.	39.9	60.0	.1	*	-	.1	2.4	13.0	24.4	43.5	13.3	2.7	.5	.1	100.0
Mo.	45.3	54.6	.1	-	-	.3	4.7	15.1	25.2	40.5	11.6	2.2	.3	.1	100.0
N. Mex.	98.8	1.2	-	0.2	6.0	68.9	16.0	5.7	2.0	.7	.5	-	-	-	100.0
N. Car.	90.5	9.5	-	1.1	3.4	37.1	20.8	18.0	10.1	8.4	1.1	-	-	-	100.0
Okla.	94.8	4.9	.3	.1	.3	32.3	35.5	18.1	8.5	4.4	.3	.1	.1	.3	100.0
Tenn.	37.6	62.3	.1	*	-	.1	1.8	13.2	22.5	45.1	15.1	1.9	.2	.1	100.0
Tex.	96.0	3.9	.1	.2	5.0	53.1	22.9	10.0	4.8	3.2	.5	.1	.1	.1	100.0
All other 1/	25.7	74.3	-	-	-	5.1	-	10.3	10.3	43.6	25.6	5.1	-	-	100.0
Total	54.7	45.1	.2	.1	1.1	12.8	8.2	12.5	20.0	33.5	9.5	1.7	.4	.2	100.0

* Less than 0.05 percent.

1/ See footnote Page 5.

Table 13. Percentage distribution of free fatty acid in cottonseed samples, by specified frequencies, by States and United States, 1959

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 - 0.9	1.0 - 1.4	1.5 - 1.8	1.9 - 2.9	3.0 - 4.9	5.0 - 6.9	7.0 - 8.9	9.0 - 10.9	11.0 - 12.4	12.5 - and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	65.1	33.5	1.4	0.5	27.5	25.6	11.5	16.7	11.8	2.8	1.1	0.8	0.3	1.4	100.0
Ark.	91.8	8.2	*	4.3	45.0	31.3	11.2	5.3	2.2	.5	.1	.1	*	*	100.0
Ky.	95.8	4.2	-	15.5	68.4	7.0	4.9	3.5	-	-	-	.7	-	-	100.0
La.	41.3	58.3	.4	*	3.9	17.8	19.6	35.4	16.4	3.8	1.9	.6	.2	.4	100.0
Miss.	67.1	32.3	.6	.5	21.4	30.3	14.9	18.1	8.5	3.1	1.5	.8	.3	.6	100.0
Mo.	94.8	5.1	.1	20.4	63.7	8.4	2.3	2.1	1.8	.7	.4	.1	*	.1	100.0
N. Mex.	99.6	.4	-	78.6	18.1	2.4	.5	.1	.3	-	-	-	-	-	100.0
N. C.	-	77.8	22.2	-	-	-	-	11.1	33.4	11.1	22.2	-	-	22.2	100.0
Okla.	97.6	2.3	.1	16.3	73.9	5.8	1.6	1.3	.8	.1	*	.1	-	.1	100.0
Tenn.	94.9	5.1	*	5.2	65.4	20.1	4.2	2.8	1.4	.6	.3	*	*	*	100.0
Tex.	91.4	8.4	.2	50.3	35.1	4.3	1.7	2.3	2.5	2.0	1.1	.4	.1	.2	100.0
All other 1/	95.0	5.0	-	20.0	52.5	15.0	7.5	2.5	2.5	-	-	-	-	-	100.0
Total	83.8	15.9	.3	16.0	39.4	20.1	8.3	8.4	4.5	1.7	.8	.4	.1	.3	100.0

* Less than 0.05 percent.

1/ See footnote Page 5.

Table 14. Percentage distribution of free fatty acid in cottonseed samples, by specified frequencies, by States and United States, 1960

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 - 0.9	1.0 - 1.4	1.5 - 1.8	1.9 - 2.9	3.0 - 4.9	5.0 - 6.9	7.0 - 8.9	9.0 - 10.9	11.0 - 12.4	12.5 - and over	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	53.1	46.5	0.4	4.0	25.4	13.4	10.3	23.8	17.0	3.6	1.4	0.5	0.2	0.4	100.0
Ark.	79.2	20.7	.1	22.1	32.1	15.2	9.8	10.9	7.0	1.8	.6	.3	.1	.1	100.0
Ky.	99.0	1.0	-	51.6	44.4	3.0	-	-	1.0	-	-	-	-	-	100.0
La.	31.8	67.6	.6	.3	5.9	12.9	12.7	27.5	26.9	8.1	3.6	1.1	.4	.6	100.0
Miss.	43.6	55.8	.6	2.4	16.3	13.8	11.1	23.3	22.1	6.1	2.7	1.1	.5	.6	100.0
Mo.	95.1	4.8	.1	54.3	34.3	5.0	1.5	2.1	1.1	.7	.5	.3	.1	.1	100.0
N. Mex.	99.0	.9	.1	70.1	26.0	2.7	.2	.6	.2	.1	-	-	-	.1	100.0
N. C.	98.2	1.8	-	76.9	20.2	1.1	-	-	.6	-	.6	.6	-	-	100.0
Okla.	98.9	1.1	-	50.8	42.0	5.5	.6	.4	.4	.2	-	-	.1	-	100.0
Tenn.	85.2	14.7	.1	12.3	38.3	22.3	12.3	11.2	2.8	.5	.1	.1	*	.1	100.0
Tex.	95.6	4.2	.2	49.0	41.7	4.0	.9	.8	1.1	.7	.9	.6	.1	.2	100.0
All other 1/	89.7	10.3	-	17.9	46.2	20.5	5.1	2.6	-	7.7	-	-	-	-	100.0
Total	72.1	27.6	.3	23.4	29.2	11.8	7.7	12.5	10.2	2.8	1.3	.6	.2	.3	100.0

* Less than 0.05 percent.

1/ See footnote Page 5.

Table 15. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by States and United States, 1959

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	
Ala.	Pct. 81.3	Pct. 18.6	Pct. 0.1	Pct. 51.0	Pct. 30.3	Pct. 13.3	Pct. 3.3	Pct. 1.4	Pct. 0.5	Pct. 0.1	Pct. *	Pct. *	Pct. 0.1	Pct. 100.0
Ark.	78.2	21.6	.2	42.1	36.1	14.6	4.0	1.6	.8	.3	0.2	0.1	.2	100.0
Ky.	68.3	31.7	-	45.8	22.5	17.6	9.9	2.1	2.1	-	-	-	-	100.0
La.	88.2	11.8	-	50.7	37.5	9.2	1.6	.5	.3	.1	.1	-	-	100.0
Miss.	81.6	18.3	.1	47.5	34.1	15.0	2.2	.7	.3	.1	*	*	.1	100.0
Mo.	80.6	19.4	-	57.0	23.6	11.7	4.5	1.8	1.0	.3	.1	*	-	100.0
N. Mex.	58.4	41.6	-	34.8	23.6	26.4	6.2	2.8	3.1	1.8	1.1	.2	-	100.0
N. Car.	100.0	-	-	88.9	11.1	-	-	-	-	-	-	-	-	100.0
Okla.	58.6	41.2	.2	21.5	37.1	31.3	6.3	1.9	1.2	.4	*	.1	.2	100.0
Tenn.	70.2	29.7	.1	43.4	26.8	18.0	6.8	2.5	1.6	.5	.2	.1	.1	100.0
Tex.	54.6	45.3	.1	21.3	33.3	30.7	9.5	3.3	1.3	.3	.1	.1	.1	100.0
All other 1/85.0	15.0	-	-	70.0	15.0	10.0	5.0	-	-	-	-	-	-	100.0
Total	72.5	27.4	.1	39.8	32.7	18.9	5.2	1.9	.9	.3	.1	.1	.1	100.0

* Less than 0.05 percent.

1/ See footnote Page 5.

Table 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by States and United States, 1960

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	
Ala.	Pct. 74.4	Pct. 25.6	Pct. *	Pct. 47.7	Pct. 26.7	Pct. 18.9	Pct. 5.0	Pct. 1.2	Pct. 0.4	Pct. 0.1	Pct. *	Pct. *	Pct. *	Pct. 100.0
Ark.	70.9	28.9	0.2	36.8	34.1	18.5	5.7	2.4	1.3	.6	0.3	0.1	0.2	100.0
Ky.	79.8	20.2	-	43.4	36.4	13.1	5.1	1.0	-	1.0	-	-	-	100.0
La.	77.9	22.1	-	43.4	34.5	16.2	4.1	1.3	.4	.1	*	-	-	100.0
Miss.	75.2	24.8	*	41.5	33.7	18.5	4.0	1.4	.6	.2	.1	*	*	100.0
Mo.	79.6	20.2	.2	53.1	26.5	10.8	4.3	2.3	1.7	.8	.2	.1	.2	100.0
N. Mex.	59.8	40.2	-	39.5	20.3	19.7	9.1	4.9	3.7	2.2	.5	.1	-	100.0
N. Car.	83.1	16.9	-	41.0	42.1	14.6	1.7	.6	-	-	-	-	-	100.0
Okla.	62.6	37.3	.1	24.6	38.0	27.3	6.1	2.2	1.1	.3	.2	.1	.1	100.0
Tenn.	65.2	34.7	.1	36.9	28.3	19.8	7.8	4.2	2.0	.6	.2	.1	.1	100.0
Tex.	48.3	51.5	.2	18.5	29.8	30.1	12.4	5.2	2.6	.8	.3	.1	.2	100.0
All other 1/74.3	25.7	-	-	53.8	20.5	10.3	10.3	5.1	-	-	-	-	-	100.0
Total	67.8	32.1	.1	36.1	31.7	20.6	6.6	2.7	1.4	.5	.2	.1	.1	100.0

* Less than 0.05 percent.

1/ See footnote Page 5.

Table 17. Number of cottonseed samples by specified groups, by qualities, and number reduced in grade for specified causes, by States and United States, 1959 and 1960

State	Quality				Reduced due to excess									
	Prime		Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acid		Foreign matter	
	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960
Ala.	669	415	3,984	4,495	148	5	4,801	4,915	2,975	3,207	1,676	2,303	893	1,266
Ark.	8,393	4,766	12,382	13,699	6	2	20,781	18,467	9,055	10,815	1,705	3,835	4,522	5,407
Ky.	40	34	102	65	-	-	142	99	87	54	6	1	45	20
La.	728	1,011	2,033	4,818	3	9	2,764	5,838	1,224	3,087	1,620	3,978	325	1,299
Miss.	4,114	1,962	15,552	17,417	47	30	19,713	19,409	11,370	11,664	6,467	10,928	3,633	4,809
No.	2,651	2,172	3,954	3,586	6	1	6,611	5,759	3,355	3,150	340	275	1,282	1,178
N. Mex.	111	476	397	333	441	2	949	811	3	10	4	9	395	327
N. Car.	-	69	8	46	1	63	9	178	1	17	9	3	-	30
Okla.	1,618	2,065	1,377	1,460	1	53	2,996	3,578	186	188	74	40	1,244	1,333
Tenn.	2,600	1,442	6,468	6,441	1	1	9,069	7,884	4,933	4,918	467	1,165	2,706	2,741
Tex.	9,534	6,370	10,273	9,269	90	794	19,897	16,433	908	674	1,743	721	9,029	8,507
All other 1/	12	7	27	32	1	-	40	39	24	29	2	4	6	10
Total	30,470	20,789	56,557	61,661	745	960	87,772	83,410	34,121	37,813	14,113	23,262	24,080	26,927

1/ See footnote Page 5.



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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
MARKET NEWS SECTION, COTTON DIVISION
BOX 8074, CROSSTOWN STATION
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C. CURTIS CABLE, JR.
MKTG. RESEARCH DIV., AMS, USDA
P.O. BOX 4127
TUCSON, ARIZONIA
GSR