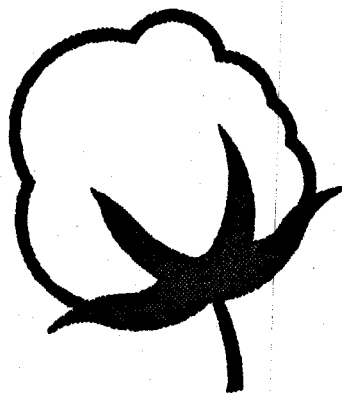


COTTONSEED QUALITY

CROP OF 1961



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

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United States Department of Agriculture
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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.

Cottonseed Quality - United States
1961 Crop

Introduction

Statistical data on the quality of cottonseed graded from the 1961 crop are contained in this publication. 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 United States Department of Agriculture.

Official grade certificates covering 92,251 samples of cottonseed were issued during the 1961-62 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 many 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 1947-1961. These data indicate that the 1961 average grade was moderately higher than a year earlier but slightly lower than during the 1959 season. The oil content of seed from the 1961 crop averaged slightly higher than during the previous season while the ammonia content averaged slightly lower. The average linters content in samples graded from the 1961 cotton crop increased somewhat after having decreased for two successive seasons. The percentage of moisture and free fatty acids, two of the three quality factors, was the lowest in five years. The third quality factor, foreign matter, averaged the highest since the 1957 season.

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 remained limited in parts of the belt during the 1961-62 season and there were very few official cottonseed grade certificates issued in a number of major cotton producing states.

Table 1. Cottonseed quality factors, indexes, and grades,
1947-1961 1/

Year beginning August 1	Cottonseed quantity and quality factors						Quantity Index	Quality Index	Average grade	Number of samples Number
	Oil Percent	Ammonia Percent	Linters Percent	Moisture Percent	Free fatty acids Percent	Foreign matter Percent				
1947	18.3	3.88	-	11.3	1.4	0.8	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	93.5	74,016
1958	19.0	3.76	10.4	11.5	1.4	1.0	102.09	97.0	99.0	72,076
1959	18.8	3.89	10.2	11.4	1.3	.9	102.10	97.1	100.0	87,772
1960	18.6	3.98	9.7	11.7	1.6	1.1	100.70	95.7	96.0	83,410
1961	18.8	3.83	10.1	10.9	.9	1.2	101.16	98.0	99.5	92,251

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.

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	
	FPA 3/		FM 4/		H2O 5/		Total Reduc-tions 6/	Qual-ity Index	Oil		NH3 8/		Linters		Sum of Pro-ducts	Adjust-ment Fac-tors		Quan-tity Index
	Re-duction	Total	Re-duction	Total	Re-duction	Total			Total	Pro-duct 7/	Total	Pro-duct 7/	Total	Pro-duct 7/				
1	0.5	0.0	0.3	0.0	10.0	0.0	0.0	100.0	19.0	76.0	3.60	21.60	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	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	100.0	16.2	97.2	3.97	23.82	9.5	-2.5	118.52	-28	90.52	90.5
PRIME QUALITY SEED																		
4	1.9	0.4	1.0	0.0	12.0	0.0	0.4	99.6	18.5	74.0	3.50	21.00	12.0	+0.5	95.50	+5	100.50	100.0
5	1.8	0.0	1.1	0.1	12.0	0.0	0.1	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	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	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	95.0	24.7	98.8	4.15	24.90	1.7	-19.8	103.90	+5	108.90	103.5
OFF QUALITY SEED																		
Treated (other than usual), Fermented, Hot																		
9	12.5	42.8	0.7	0.0	12.0	0.0	42.8	57.2	20.1	80.4	3.67	22.02	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 GRADE SEED																		
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.
- 9/ Below grade 40. No numerical grade is indicated.

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

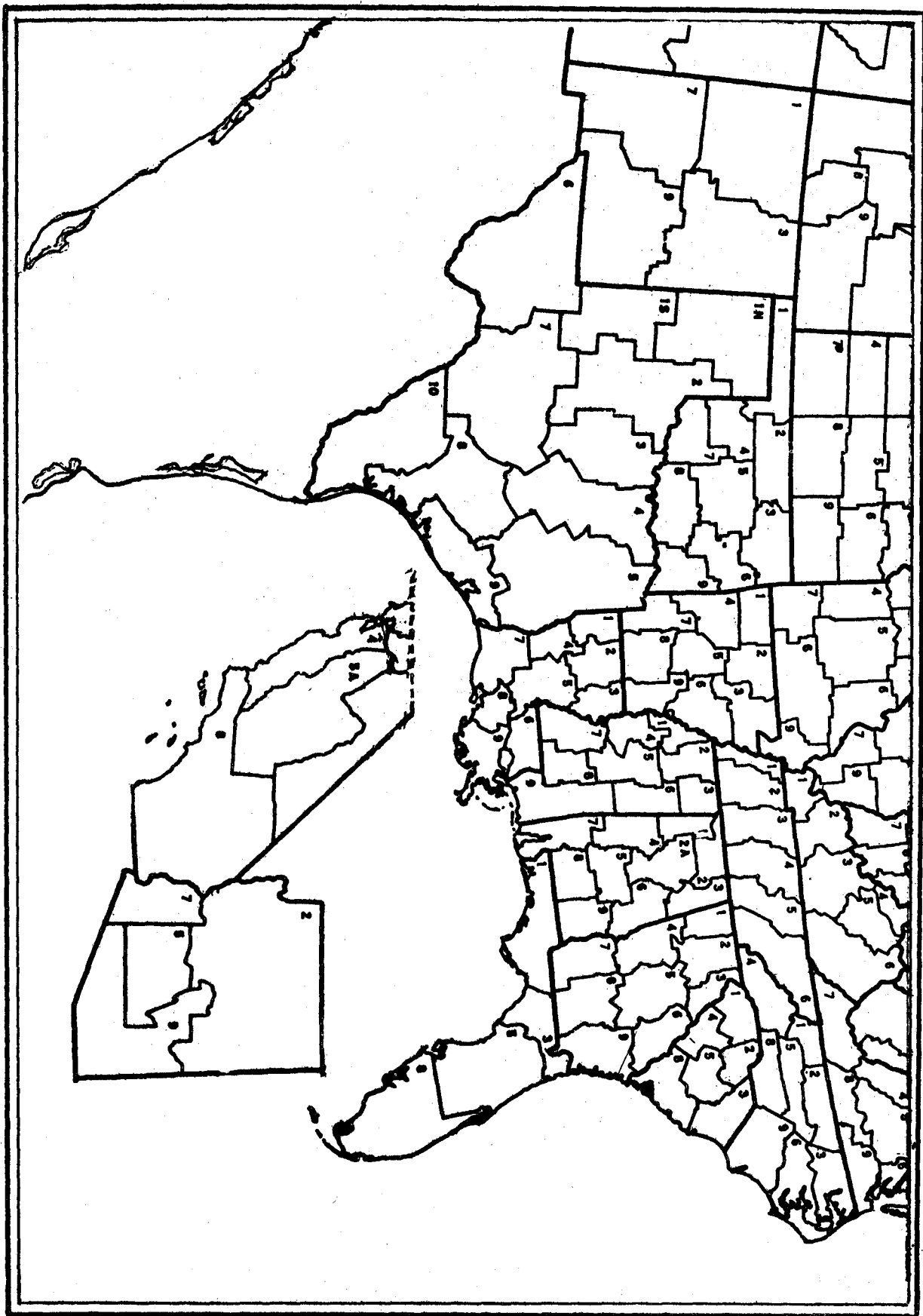


Table 3. Cottonseed: Quality factors, indexes, and grades, by States and United States, 1960 and 1961

State	Cottonseed analysis														Average index				Average grade	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1960	1961		
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		
Ala.	Pct. 18.7	Pct. 19.3	Pct. 3.97	Pct. 3.83	Pct. 10.1	Pct. 10.3	Pct. 12.7	Pct. 11.3	Pct. 2.1	Pct. 1.1	Pct. 0.8	Pct. 1.0	101.89	103.94	95.7	97.9	97.5	102.0		
Ariz.	20.9	19.6	4.08	4.13	11.0	10.9	7.6	7.1	.6	.6	.3	.5	112.58	107.54	100.0	99.9	112.5	107.5		
Ark.	18.9	19.0	3.95	3.86	9.3	9.7	12.5	11.6	1.4	.7	1.1	1.1	101.12	101.81	97.4	98.4	98.5	100.5		
Calif.	-	19.2	-	4.20	-	10.0	-	7.6	-	.8	-	.8	-	105.14	-	99.7	-	105.0		
Ky.	17.7	18.1	3.81	3.54	10.4	10.7	12.3	12.8	.5	.9	.9	1.3	97.16	97.58	99.0	97.3	96.0	95.0		
La.	18.0	18.8	4.03	3.69	9.5	10.1	12.5	12.1	3.1	1.9	.8	1.1	98.47	100.61	93.2	95.2	92.0	96.0		
Miss.	18.3	18.8	4.09	3.86	9.4	10.0	12.6	11.7	2.7	1.2	.9	1.0	99.99	101.49	94.2	97.0	94.0	99.0		
Mo.	18.2	18.3	3.91	3.79	10.3	10.5	12.4	11.7	.7	.8	.9	1.1	99.70	99.36	98.4	98.0	98.0	97.5		
N. Mex.	20.3	19.2	3.71	3.61	11.0	11.7	8.5	8.0	.5	.4	1.3	1.5	107.98	103.64	99.0	99.2	107.0	103.0		
Okl.	18.7	18.4	4.02	3.95	10.6	10.7	9.8	10.3	.6	.6	1.1	1.4	102.93	101.01	98.1	99.3	101.0	100.5		
Tenn.	18.7	19.2	3.93	3.72	9.5	10.1	12.6	12.1	1.2	1.0	1.1	1.4	100.82	102.21	98.0	97.4	99.0	100.0		
Tex.	18.6	18.2	3.94	3.85	10.1	10.4	9.0	8.8	.8	.5	1.5	1.7	100.94	99.14	94.3	99.1	92.5	98.5		
All other	19.6	19.6	3.90	3.73	9.1	10.2	10.2	11.9	.6	1.2	.8	.9	103.26	104.26	72.8	97.5	86.0	102.0		
Total	18.6	18.8	3.98	3.83	9.7	10.1	11.7	10.9	1.6	.9	1.1	1.2	100.70	101.16	95.7	98.0	96.0	99.5		

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and States, 1960 and 1961

ALABAMA

Month	Cottonseed analysis												Average Index				Average Grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Grade		1960	1961
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	No.	No.
Aug.	17.5	16.8	3.85	3.77	10.4	11.6	15.0	13.6	3.0	7.4	0.8	3.3	96.48	92.67	90.7	75.0	87.5	68.0	16	6
Sept.	18.8	19.4	3.92	3.65	10.1	9.9	13.2	14.4	.8	1.3	.5	.6	101.92	102.35	98.5	96.6	100.5	99.0	1,151	374
Oct.	18.7	19.7	3.94	3.80	9.8	10.2	13.5	10.8	1.8	.6	.6	.6	101.14	105.21	96.7	99.7	98.0	105.0	1,673	1,672
Nov.	18.7	19.3	4.02	3.88	10.3	10.6	11.8	10.8	2.9	.5	1.1	.8	102.49	104.37	94.4	99.7	97.0	104.5	1,341	1,178
Dec.	18.6	18.8	4.00	3.86	10.6	10.5	11.9	11.6	3.6	.9	1.3	1.5	102.64	102.28	92.0	99.1	94.5	101.5	458	719
Jan.	18.8	18.9	3.96	3.81	10.4	10.4	11.6	12.1	3.3	1.3	1.6	1.7	102.60	102.22	92.4	97.7	95.0	100.0	125	272
Feb.	18.7	19.0	3.97	3.87	10.6	10.2	11.8	11.6	4.1	3.2	2.0	2.2	102.62	102.95	89.7	91.2	92.0	94.0	63	251
Mar.-July	18.5	19.1	4.02	3.91	10.6	10.5	11.3	10.8	4.0	4.8	1.8	2.5	102.10	103.73	90.1	82.9	92.0	87.0	88	233

Season	18.7	19.3	3.97	3.83	10.1	10.3	12.7	11.3	2.1	1.1	.8	1.0	101.89	103.94	95.7	97.9	97.5	102.0	4,915	4,705
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ARKANSAS

Aug.	18.9	18.6	3.89	4.09	9.9	9.7	12.3	11.0	2.4	3.5	1.1	1.0	102.05	101.64	95.0	93.0	97.0	94.5	21	28
Sept.	19.0	19.0	3.92	3.89	9.1	9.0	12.9	13.9	.6	.7	.5	.5	101.11	100.50	98.7	97.8	100.0	98.5	3,303	1,615
Oct.	19.0	19.2	3.94	3.90	9.1	9.6	12.7	10.8	.8	.4	.7	.5	101.25	102.82	98.7	99.6	100.0	102.5	6,496	8,176
Nov.	19.0	19.2	4.00	3.87	9.4	9.9	11.7	10.9	1.5	.5	1.1	.9	102.22	102.76	98.4	99.6	100.5	102.5	5,101	4,712
Dec.	18.4	18.6	3.93	3.78	9.6	9.7	12.7	12.9	2.2	.7	1.8	1.7	99.68	99.57	95.8	98.2	95.5	96.0	1,842	2,538
Jan.	18.2	18.3	3.90	3.70	9.7	9.7	13.6	14.1	3.1	1.4	2.7	2.8	98.64	97.82	91.1	95.2	90.0	93.5	848	766
Feb.	18.2	18.9	3.92	3.75	9.7	9.8	13.1	12.2	3.9	2.7	3.5	3.6	99.10	100.82	87.7	92.5	87.0	93.5	581	1,200
Mar.-July	18.3	18.8	3.94	3.78	9.7	9.9	12.1	11.7	4.5	3.3	2.6	3.2	99.35	100.53	86.7	89.8	86.0	90.0	275	530

Season	18.9	19.0	3.95	3.86	9.3	9.7	12.5	11.6	1.4	.7	1.1	1.1	101.12	101.81	97.4	98.4	98.5	100.5	18,467	19,565
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Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1960 and 1961 (Continued)

KENTUCKY

Month	Cottonseed analysis														Average Index				Average Grade		Samples		
	Oil		Ammonia		Linbers		Moisture		Free fatty acids		Foreign matter		Quantity		Quantity		Grade		1960		1961		
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	No.	No.	
Sept.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.	No.
Oct.	18.2	-	3.80	-	9.7	-	13.5	-	0.5	-	0.4	-	98.33	-	98.5	-	97.0	-	11	-	11	25	
Nov.	17.7	18.6	3.81	3.57	10.1	10.3	12.5	12.4	.4	0.5	.5	0.4	97.36	99.06	99.2	99.0	96.5	98.5	42	25	42	25	
Dec.	17.3	18.3	3.86	3.60	10.9	10.7	11.2	12.0	.5	.4	.9	.8	98.38	98.64	99.8	99.3	98.0	98.5	28	20	28	20	
Jan.	16.5	17.7	3.78	3.47	10.6	11.0	12.1	13.4	.7	.7	1.7	1.8	95.33	96.20	98.8	97.4	94.5	93.0	11	14	11	14	
Feb.	-	17.7	-	3.47	-	11.5	-	12.6	.8	1.7	1.9	2.7	91.65	95.50	96.7	95.2	88.5	91.5	6	10	6	10	
Mar.-July	16.5	16.1	4.06	3.47	11.3	12.0	12.1	13.6	4.3	7.0	5.8	3.6	95.16	90.00	85.1	75.0	81.0	60.0	1	2	1	2	
Season	17.7	18.1	3.81	3.54	10.4	10.7	12.3	12.8	.5	.9	.9	1.3	97.16	97.58	99.0	97.3	96.0	95.0	99	73	99	73	

LOUISIANA

Aug.	16.1	18.7	3.79	3.27	9.5	10.2	18.5	16.7	4.3	3.1	0.8	0.9	87.90	98.05	83.0	90.7	73.5	84.5	61	27
Sept.	17.5	18.6	4.01	3.38	9.4	10.1	13.2	15.9	2.6	3.4	.8	.8	96.06	98.00	93.8	89.3	90.5	87.5	1,470	626
Oct.	18.3	19.1	4.05	3.68	9.4	10.3	12.3	11.3	2.0	1.1	.5	.6	99.76	102.02	97.6	98.7	97.5	101.0	2,002	2,172
Nov.	18.3	18.6	4.05	3.74	9.5	10.3	12.0	11.6	3.4	.7	.8	.9	99.87	100.56	92.9	99.2	93.0	100.0	1,346	1,380
Dec.	17.8	18.5	4.02	3.79	9.8	9.7	11.8	12.2	4.5	1.4	1.2	1.5	98.20	99.41	88.2	98.2	86.5	98.0	638	890
Jan.	17.7	18.9	3.96	3.81	9.9	9.6	13.0	12.0	7.0	3.8	1.9	2.4	97.64	100.83	77.2	89.7	75.0	90.5	174	263
Feb.	17.7	18.8	4.00	3.76	10.0	9.8	12.6	12.2	7.4	7.6	2.2	3.0	97.72	100.36	75.6	73.7	73.0	73.5	85	275
Mar.-July	18.0	18.5	3.99	3.78	10.4	9.9	11.3	11.5	7.7	9.5	1.5	3.3	99.86	98.83	75.6	56.0	73.5	63.0	62	127
Season	18.0	18.8	4.03	3.69	9.5	10.1	12.5	12.1	3.1	1.9	.8	1.1	98.47	100.61	93.2	95.2	92.0	96.0	5,838	5,760

Table 4. Cottonseed: Quality factors, indexes and grades, by specified periods and States, 1960 and 1961 (Continued)

MISSISSIPPI

Month	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Grade		No.			
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		
Aug.	16.9	18.3	3.98	4.15	9.7	9.8	14.9	11.0	2.3	7.1	0.8	1.3	93.12	100.87	92.4	77.0	86.0	77.0	137	54		
Sept.	18.1	18.5	4.03	3.70	9.4	9.7	13.4	14.9	1.3	1.3	.5	.5	98.83	98.64	97.8	95.9	97.0	95.0	5,144	2,377		
Oct.	18.5	19.0	4.08	3.85	9.3	10.1	12.9	11.1	1.9	.6	.6	.6	100.26	102.57	96.9	99.5	97.0	102.5	6,761	8,380		
Nov.	18.6	18.8	4.17	3.92	9.5	10.2	11.4	10.6	3.4	.5	1.0	.8	101.58	102.20	93.0	99.6	94.5	102.0	4,368	4,935		
Dec.	18.2	18.6	4.13	3.86	9.5	9.5	12.1	12.4	4.6	.8	1.4	1.5	100.02	99.71	87.9	98.6	88.0	98.5	1,439	2,282		
Jan.	17.9	18.4	4.08	3.81	9.6	9.5	13.2	13.8	6.0	2.2	2.0	2.2	98.67	98.51	81.2	94.3	80.0	93.0	623	615		
Feb.	17.7	18.9	4.09	3.90	9.7	9.5	12.8	12.4	6.9	5.4	2.2	2.9	97.76	101.43	77.3	83.0	75.5	83.5	394	1,136		
Mar.-July	18.1	18.8	4.15	3.94	9.7	9.9	11.5	11.0	6.8	6.2	1.5	2.4	99.60	101.81	78.8	76.0	77.5	80.0	543	811		
Season	18.3	18.8	4.09	3.86	9.4	10.0	12.6	11.7	2.7	1.2	.9	1.0	99.99	101.49	94.2	97.0	91.0	99.0	19,409	20,590		

MISSOURI

Aug.	18.6	18.5	3.83	4.10	11.5	10.1	9.8	10.8	4.2	2.2	1.6	1.2	102.46	101.64	89.2	95.1	91.5	96.5	5	19
Sept.	18.6	18.5	3.96	3.85	9.7	9.9	12.5	13.5	.7	1.1	.5	.7	100.66	99.75	98.7	96.4	99.5	96.5	1,078	340
Oct.	18.2	18.3	3.93	3.85	10.1	10.4	12.5	11.2	.4	.5	.5	.5	99.78	99.92	99.1	99.5	99.0	99.5	2,525	2,632
Nov.	18.2	18.4	3.94	3.79	10.8	10.7	11.3	10.8	.5	.4	.9	.8	100.65	100.50	99.6	99.7	100.5	100.5	1,350	1,105
Dec.	17.6	17.9	3.80	3.65	10.6	10.5	13.6	13.2	.8	.6	2.0	1.7	96.72	97.24	97.2	97.9	94.5	95.5	316	519
Jan.	17.2	17.5	3.65	3.52	11.1	10.7	15.0	15.0	1.3	1.3	3.4	2.8	94.99	94.64	94.1	94.9	89.5	90.0	178	178
Feb.	17.4	18.0	3.72	3.59	11.2	10.6	13.7	13.1	2.1	2.1	3.6	3.6	96.30	97.18	93.2	94.2	90.0	92.0	124	220
Mar.-July	17.6	18.0	3.76	3.64	11.2	10.8	12.8	12.3	4.1	4.5	3.2	4.1	97.76	97.70	86.5	84.7	84.5	82.0	183	277
Season	18.2	18.3	3.91	3.79	10.3	10.5	12.4	11.7	.7	.8	.9	1.1	99.70	99.36	98.4	98.0	98.0	97.5	5,759	5,290

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1960 and 1961 (Continued)

NEW MEXICO

Month	Cottonseed analysis														Average index				Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Average grade		No.	No.
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961
Sept.	22.3	21.0	3.67	3.52	9.9	11.7	8.7	8.5	0.5	0.4	0.5	0.3	114.42	112.49	99.9	100.0	114.5	112.5	13	28
Oct.	21.3	20.7	3.73	3.63	10.6	11.7	8.7	7.2	.4	.4	.5	.8	112.52	110.86	99.2	99.8	112.5	111.0	236	366
Nov.	20.8	19.0	3.75	3.58	11.0	12.0	8.3	8.2	.4	.4	.8	1.2	109.98	102.74	99.8	99.5	109.5	102.5	330	221
Dec.	19.1	17.5	3.71	3.61	11.0	11.5	7.7	9.1	.4	.4	2.3	2.2	103.04	95.66	98.6	98.7	100.5	94.5	97	211
Jan.	18.1	17.3	3.63	3.63	11.6	11.2	9.2	7.8	.5	.5	2.6	3.0	98.92	94.49	98.3	98.0	97.5	92.5	80	82
Feb.	17.6	17.3	3.52	3.62	11.7	12.4	9.3	8.3	1.0	.8	3.9	4.3	96.36	95.54	96.5	96.6	93.0	92.5	21	29
Mar.-July	17.6	18.3	3.56	3.55	12.2	12.3	8.7	8.1	1.8	.9	4.5	4.6	97.28	99.08	94.0	96.3	87.5	94.0	34	6
Season	20.3	19.2	3.71	3.61	11.0	11.7	8.5	8.0	.5	.4	1.3	1.5	107.98	103.64	99.0	99.2	107.0	103.0	811	943

OKLAHOMA

Aug.	15.0	-	3.76	-	9.4	-	20.8	-	3.9	-	0.8	-	81.69	-	82.1	-	67.5	-	15	-
Sept.	18.5	18.3	4.10	3.96	10.2	10.4	9.7	11.4	.5	0.4	.7	0.8	102.06	100.80	79.8	99.4	98.0	100.5	171	166
Oct.	18.4	18.4	4.05	4.03	10.5	10.7	10.3	9.7	.5	.4	.7	.9	101.56	101.93	99.7	99.7	98.5	102.0	817	996
Nov.	18.8	18.4	4.04	3.95	10.8	10.9	9.6	10.4	.4	.6	1.0	1.2	103.68	101.32	99.7	99.5	102.0	101.0	1,629	668
Dec.	19.1	18.2	3.97	3.87	10.5	10.5	9.0	11.5	.6	.7	1.7	1.5	104.00	99.47	99.1	99.1	103.0	99.0	640	623
Jan.	18.8	18.4	3.89	3.91	10.5	10.6	10.3	9.7	1.0	.7	1.9	2.0	102.40	101.08	98.9	98.8	101.5	100.0	174	515
Feb.	18.3	18.3	3.90	3.88	10.5	10.5	10.7	10.0	1.5	.8	2.3	2.3	100.91	100.37	88.3	98.5	95.5	99.0	84	156
Mar.-July	18.5	18.3	4.00	3.96	10.6	10.5	9.7	9.8	1.3	.8	2.2	2.3	101.81	100.34	88.8	98.6	100.0	99.0	48	80
Season	18.7	18.4	4.02	3.95	10.6	10.7	9.8	10.3	.6	.6	1.1	1.4	102.93	101.01	98.1	99.3	101.0	100.5	3,578	3,204

Table 4. Cottonseed: Quality factors, indices, and grades, by specified periods and States, 1960 and 1961 (Continued)

TENNESSEE

Month	Cottonseed analysis														Average index				Samples			
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quantity		Grade		No.			
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		
Aug.	-	19.0	-	4.07	-	9.6	-	10.1	-	4.5	-	2.0	-	102.79	-	88.1	-	90.5	-	-	-	10
Sept.	19.0	19.3	3.89	3.71	9.4	9.3	13.0	14.4	0.8	1.0	0.6	0.6	0.6	101.65	101.35	98.5	96.4	100.0	98.0	98.0	1,378	530
Oct.	18.6	19.4	3.91	3.71	9.3	10.0	13.4	11.8	.8	.5	.5	.6	.6	100.03	102.94	98.4	99.3	98.5	102.5	102.5	2,769	3,235
Nov.	18.8	19.2	4.00	3.76	9.7	10.3	11.4	11.2	1.3	.5	1.3	1.0	1.0	102.03	103.00	99.1	99.4	101.0	102.5	102.5	2,341	2,029
Dec.	18.4	18.8	3.92	3.70	9.8	10.2	12.7	12.7	1.8	.9	2.2	2.3	2.3	99.92	100.95	96.8	97.8	97.0	99.0	99.0	828	1,374
Jan.	18.1	18.2	3.87	3.57	10.0	10.4	13.6	14.9	2.4	1.9	3.0	3.4	3.4	99.06	97.87	93.6	93.4	92.5	91.5	91.5	342	424
Feb.	18.0	19.1	3.85	3.73	10.2	10.3	13.4	12.6	2.9	3.4	3.6	4.1	4.1	98.69	102.42	91.2	89.4	90.0	91.5	91.5	126	364
Mar.-July	18.2	19.0	3.91	3.73	10.1	10.5	12.0	11.4	4.0	5.6	3.2	4.6	4.6	99.53	102.07	88.3	79.8	87.5	82.0	82.0	100	283
Season	18.7	19.2	3.93	3.72	9.5	10.1	12.6	12.1	1.2	1.0	1.1	1.4	1.4	100.82	102.21	98.0	97.4	99.0	100.0	100.0	7,884	8,249

TEXAS

Aug.	18.0	18.3	3.85	3.85	10.3	11.4	12.6	10.4	2.2	0.6	0.7	0.5	0.5	98.60	101.13	95.0	99.8	94.0	101.0	101.0	75	1,276
Sept.	18.7	18.5	3.98	3.81	10.1	11.0	9.4	9.8	2.8	.7	.7	.9	.9	101.53	100.94	83.2	92.6	84.5	101.0	101.0	1,260	1,248
Oct.	19.1	19.1	4.00	3.92	10.2	10.5	9.3	8.2	.5	.4	.7	1.0	1.0	103.61	103.53	85.3	99.7	93.0	103.5	103.5	2,897	4,549
Nov.	18.9	18.3	3.99	3.86	9.8	10.4	9.0	8.9	.5	.4	1.2	1.4	1.4	102.38	99.90	99.6	99.4	102.0	99.5	99.5	6,317	4,261
Dec.	18.2	17.7	3.88	3.82	10.3	10.2	8.2	9.2	.6	.4	2.0	2.0	2.0	99.31	96.68	94.1	98.9	79.0	96.0	96.0	3,578	6,312
Jan.	17.6	17.7	3.78	3.84	10.6	10.0	9.6	8.1	.8	.5	2.6	2.9	2.9	96.14	96.17	98.1	98.1	94.5	94.5	94.5	1,724	3,418
Feb.	17.3	17.4	3.74	3.84	10.6	9.9	10.0	8.9	1.0	.8	3.4	3.4	3.4	94.93	95.06	95.2	97.1	89.0	92.5	92.5	348	415
Mar.-July	17.6	17.4	3.83	3.91	10.1	10.1	9.0	8.5	2.0	1.3	3.6	3.5	3.5	96.09	95.09	93.6	95.8	70.5	92.0	92.0	234	151
Season	18.6	18.2	3.94	3.85	10.1	10.4	9.0	8.8	.8	.5	1.5	1.7	1.7	100.94	99.14	94.3	99.1	92.5	98.5	98.5	16,433	21,630

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1960 and 1961 (Continued)

NEW MEXICO

Month	Cottonseed analysis														Average Index				Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Average Grade		1960	1961
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		
Sept.	22.3	21.0	3.67	3.52	9.9	11.7	8.7	8.5	0.5	0.4	0.5	0.3	114.42	112.49	99.9	100.0	114.5	112.5	13	28
Oct.	21.3	20.7	3.73	3.63	10.6	11.7	8.7	7.2	.4	.4	.5	.8	112.52	110.86	99.2	99.8	112.5	111.0	236	366
Nov.	20.8	19.0	3.75	3.58	11.0	12.0	8.3	8.2	.4	.4	.8	1.2	109.98	102.74	99.8	99.5	109.5	102.5	330	221
Dec.	19.1	17.5	3.71	3.61	11.0	11.5	7.7	9.1	.4	.4	2.3	2.2	103.04	95.66	98.6	98.7	100.5	94.5	97	211
Jan.	18.1	17.3	3.63	3.63	11.6	11.2	9.2	7.8	.5	.5	2.6	3.0	98.92	94.49	98.3	98.0	97.5	92.5	80	82
Feb.	17.6	17.3	3.52	3.62	11.7	12.4	9.3	8.3	1.0	.8	3.9	4.3	96.36	95.54	96.5	96.6	93.0	92.5	21	29
Mar.-July	17.6	18.3	3.56	3.55	12.2	12.3	8.7	8.1	1.8	.9	4.5	4.6	97.28	99.08	94.0	96.3	87.5	94.0	34	6
Season	20.3	19.2	3.71	3.61	11.0	11.7	8.5	8.0	.5	.4	1.3	1.5	107.98	103.64	99.0	99.2	107.0	103.0	811	943

OKLAHOMA

Aug.	15.0	-	3.76	-	9.4	-	20.8	-	3.9	-	0.8	-	81.69	-	82.1	-	67.5	-	15	-
Sept.	18.5	18.3	4.10	3.96	10.2	10.4	9.7	11.4	.5	0.4	.7	0.8	102.06	100.80	79.8	99.4	98.0	100.5	171	166
Oct.	18.4	18.4	4.05	4.03	10.5	10.7	10.3	9.7	.5	.4	.7	.9	101.56	101.93	99.7	99.7	98.5	102.0	817	996
Nov.	18.8	18.4	4.04	3.95	10.8	10.9	9.6	10.4	.4	.6	1.0	1.2	103.68	101.32	99.7	99.5	102.0	101.0	1,629	668
Dec.	19.1	18.2	3.97	3.87	10.5	10.5	9.0	11.5	.6	.7	1.7	1.5	104.00	99.47	99.1	99.1	103.0	99.0	640	623
Jan.	18.8	18.4	3.89	3.91	10.5	10.6	10.3	9.7	1.0	.7	1.9	2.0	102.40	101.08	98.9	98.8	101.5	100.0	174	515
Feb.	18.3	18.3	3.90	3.88	10.5	10.5	10.7	10.0	1.5	.8	2.3	2.3	100.91	100.37	88.3	98.5	95.5	99.0	84	156
Mar.-July	18.5	18.3	4.00	3.96	10.6	10.5	9.7	9.8	1.3	.8	2.2	2.3	101.81	100.34	88.8	98.6	100.0	99.0	48	80
Season	18.7	18.4	4.02	3.95	10.6	10.7	9.8	10.3	.6	.6	1.1	1.4	102.93	101.01	98.1	99.3	101.0	100.5	3,578	3,204

Table 4. Cottonseed: Quality factors, indexes, and grades, by specified periods and States, 1960 and 1961 (Continued)

TENNESSEE

Month	Cottonseed analysis														Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Grade		Samples			
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		
Aug.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	No.	No.		
Sept.	19.0	19.3	3.89	3.71	9.4	9.3	13.0	14.4	0.8	1.0	0.6	0.6	101.65	101.35	98.5	96.4	100.0	98.0	1,378	530		
Oct.	18.6	19.4	3.91	3.71	9.3	10.0	13.4	11.8	.8	.5	.6	.6	100.03	102.94	98.4	99.3	98.5	102.5	2,769	3,235		
Nov.	18.8	19.2	4.00	3.76	9.7	10.3	11.4	11.2	1.3	.5	1.3	1.0	102.03	103.00	99.1	99.4	101.0	102.5	2,341	2,029		
Dec.	18.4	18.8	3.92	3.70	9.8	10.2	12.7	12.7	1.8	.9	2.2	2.3	99.92	100.95	96.8	97.8	97.0	99.0	828	1,374		
Jan.	18.1	18.2	3.87	3.57	10.0	10.4	13.6	14.9	2.4	1.9	3.0	3.4	99.06	97.87	93.6	93.4	92.5	91.5	342	424		
Feb.	18.0	19.1	3.85	3.73	10.2	10.3	13.4	12.6	2.9	3.4	3.6	4.1	98.69	102.42	91.2	89.4	90.0	91.5	126	364		
Mar.-July	18.2	19.0	3.91	3.73	10.1	10.5	12.0	11.4	4.0	5.6	3.2	4.6	99.53	102.07	88.3	79.8	87.5	82.0	100	283		
Season	18.7	19.2	3.93	3.72	9.5	10.1	12.6	12.1	1.2	1.0	1.1	1.4	100.82	102.21	98.0	97.4	99.0	100.0	7,884	8,249		

TEXAS

Aug.	18.0	18.3	3.85	3.85	10.3	11.4	12.6	10.4	2.2	0.6	0.7	0.5	98.60	101.13	95.0	99.8	94.0	101.0	75	1,276
Sept.	18.7	18.5	3.98	3.81	10.1	11.0	9.4	9.8	2.8	.7	.7	.9	101.53	100.94	83.2	99.6	84.5	101.0	1,260	1,248
Oct.	19.1	19.1	4.00	3.92	10.2	10.5	9.3	8.2	.5	.4	.7	1.0	103.61	103.53	85.3	99.7	93.0	103.5	2,897	4,549
Nov.	18.9	18.3	3.99	3.86	9.8	10.4	9.0	8.9	.5	.4	1.2	1.4	102.38	99.90	99.6	99.4	102.0	99.5	6,317	4,261
Dec.	18.2	17.7	3.88	3.82	10.3	10.2	8.2	9.2	.6	.4	2.0	2.0	99.31	96.68	94.1	98.9	79.0	96.0	3,578	6,312
Jan.	17.6	17.7	3.78	3.84	10.6	10.0	9.6	8.1	.8	.5	2.6	2.9	96.14	96.17	98.1	98.1	94.5	94.5	1,724	3,418
Feb.	17.3	17.4	3.74	3.84	10.6	9.9	10.0	8.9	1.0	.8	3.4	3.4	94.93	95.06	95.2	97.1	89.0	92.5	348	415
Mar.-July	17.6	17.4	3.83	3.91	10.1	10.1	9.0	8.5	2.0	1.3	3.6	3.5	96.09	95.09	93.6	95.8	70.5	92.0	234	151
Season	18.6	18.2	3.94	3.85	10.1	10.4	9.0	8.8	.8	.5	1.5	1.7	100.94	99.14	94.3	99.1	92.5	98.5	16,433	21,630

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1960 and 1961

ALABAMA

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		Grade		No.	
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961
1	18.6	19.5	4.01	3.81	10.0	10.2	12.7	11.5	2.2	0.9	0.7	0.9	101.47	104.17	95.2	98.4	96.5	103.0	611	643
2	18.8	19.4	3.95	3.84	10.1	10.2	12.7	11.3	2.0	1.0	.9	1.0	102.12	104.00	96.2	98.3	98.5	102.5	3,481	3,219
3	18.4	18.9	4.01	3.86	10.3	10.7	13.1	11.5	2.0	2.0	.8	1.5	101.30	102.72	96.4	94.2	97.5	97.0	439	422
4	18.4	19.4	4.01	3.69	10.5	11.2	12.3	11.0	3.8	1.1	.5	.6	101.44	104.28	90.4	98.3	92.0	103.0	282	266
5	18.7	19.8	3.82	3.60	10.7	11.5	11.3	10.0	3.8	.5	.6	.9	101.73	105.54	91.2	99.3	93.0	105.0	14	7
6	18.6	19.3	3.86	3.85	10.5	10.9	12.0	11.5	2.1	1.2	.8	.6	100.01	104.77	95.7	97.6	97.0	102.5	63	126
7	18.2	19.3	3.95	3.54	11.1	12.5	13.2	11.5	5.0	1.3	.4	.2	101.18	104.22	85.3	99.0	86.0	103.5	24	18
9	17.2	17.5	4.09	3.66	10.7	11.7	11.5	14.8	1.3	8.1	.5	1.0	97.54	96.75	100.0	74.2	97.5	70.0	1	4
State	18.7	19.3	3.97	3.83	10.1	10.3	12.7	11.3	2.1	1.1	.8	1.0	101.89	103.94	95.7	97.9	97.5	102.0	4,915	4,705

ARKANSAS

2	18.7	19.4	3.83	3.79	9.2	9.1	12.6	11.8	0.6	1.6	0.9	2.6	99.74	101.95	99.0	96.1	98.5	98.0	59	120
3	18.8	19.1	3.91	3.84	9.2	9.6	12.7	11.5	.9	.7	1.2	1.2	100.72	101.83	98.1	98.5	99.0	100.5	7,560	7,874
4	18.9	19.2	3.86	3.66	9.7	9.7	11.7	11.6	1.3	.7	.9	1.2	101.51	101.33	98.7	98.9	100.0	100.5	212	128
5	19.2	19.3	3.90	3.82	9.2	9.4	12.0	11.3	1.1	.6	1.1	1.3	101.91	102.43	98.6	98.8	100.5	101.5	364	337
6	18.9	18.9	3.96	3.90	9.3	9.7	12.5	11.6	1.5	.8	1.0	1.0	101.35	101.63	97.2	98.2	98.5	100.0	7,033	7,319
7	18.5	18.5	4.04	3.73	9.3	9.9	11.5	12.7	1.3	.9	.7	1.3	100.34	99.26	98.9	97.8	99.0	97.5	340	409
8	18.8	19.5	4.03	3.65	9.4	9.6	11.8	12.7	1.5	1.0	.9	1.0	101.51	102.36	97.9	98.1	99.5	100.5	231	295
9	19.0	19.1	4.00	3.84	9.2	9.8	12.3	11.7	2.2	.8	1.1	1.1	101.62	102.40	95.6	98.6	97.5	101.0	2,668	3,083
State	18.9	19.0	3.95	3.86	9.3	9.7	12.5	11.6	1.4	.7	1.1	1.1	101.12	101.81	97.4	98.4	98.5	100.5	18,467	19,565

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop reporting districts and States, 1960 and 1961 (Continued)

LOUISIANA

Dist. No.	Cottonseed analysis												Average index				Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1960	1961	1960	1961
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	No.	No.				
1	18.2	18.3	4.18	3.87	9.5	10.2	11.1	11.7	2.2	1.3	0.5	0.7	100.27	99.79	96.7	97.8	97.0	98.0	781	751
2	18.2	18.8	4.09	3.72	9.1	10.1	12.1	11.8	3.1	1.6	1.0	1.5	98.85	100.71	93.0	96.0	92.0	97.0	313	288
3	18.3	19.0	4.06	3.73	9.2	9.9	12.1	11.5	3.0	1.8	.9	1.3	99.39	101.24	93.7	95.1	93.0	97.0	2,636	2,844
4	18.2	18.5	4.03	3.77	9.8	10.6	12.0	12.0	3.6	1.6	.7	1.0	100.04	100.73	91.8	97.0	91.5	98.0	240	311
5	17.5	18.8	3.91	3.52	9.9	10.2	13.5	13.3	3.3	2.3	.7	.9	96.52	99.90	91.8	94.3	89.0	94.5	1,584	1,294
6	16.9	18.8	3.85	3.43	10.9	10.6	14.1	14.3	2.8	3.2	.5	.6	94.87	99.55	93.4	91.7	88.5	92.0	87	80
7	16.6	18.7	3.93	3.41	9.8	10.3	15.4	15.1	4.9	3.6	.6	.7	92.41	98.84	83.9	89.3	78.0	88.0	86	96
8	17.0	18.9	3.94	3.45	9.9	10.2	14.2	14.4	4.4	3.9	.6	.8	94.77	99.67	86.9	89.2	82.5	89.0	111	96

State	18.0	18.8	4.03	3.69	9.5	10.1	12.5	12.1	3.1	1.9	.8	1.1	98.47	100.61	93.2	95.2	92.0	96.0	5,838	5,760
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MISSISSIPPI

1	18.1	18.5	4.12	3.95	9.4	9.9	12.7	11.5	2.6	1.1	0.9	1.0	99.26	100.66	93.8	97.2	93.0	98.0	5,114	5,654
2	18.9	19.3	4.03	3.76	9.1	9.9	12.4	11.8	2.3	1.2	1.0	1.3	101.59	102.65	95.5	96.8	97.0	99.5	2,899	3,114
3	18.9	19.6	4.04	3.71	9.1	10.0	12.5	11.9	2.2	1.1	.9	1.0	101.25	103.78	95.5	97.1	97.0	101.0	1,179	1,427
4	18.2	18.6	4.14	3.95	9.4	9.8	12.6	11.6	3.2	1.4	.8	.9	99.76	100.75	92.5	96.5	92.0	97.5	5,770	6,378
5	18.3	19.0	4.09	3.72	9.5	10.1	12.7	11.9	2.3	1.1	.7	.8	100.21	101.66	95.9	97.5	96.0	99.5	1,816	1,853
6	18.1	19.2	4.11	3.77	9.5	10.3	12.2	11.2	2.3	.8	.5	.6	99.63	102.75	96.0	98.6	95.5	101.5	1,051	945
7	17.9	19.2	4.03	3.62	9.7	10.3	13.4	12.2	3.1	1.7	.6	.7	98.62	102.18	93.2	96.7	92.0	99.0	609	456
8	18.0	19.3	3.94	3.56	10.6	10.7	12.6	12.4	2.1	2.0	1.0	.7	99.75	102.52	96.7	96.7	96.5	99.5	757	548
9	18.1	18.8	3.99	3.69	10.5	11.4	13.1	12.1	2.9	1.7	.7	.5	99.89	102.32	93.3	97.4	93.0	100.0	214	215

State	18.3	18.8	4.09	3.86	9.4	10.0	12.6	11.7	2.7	1.2	.9	1.0	99.99	101.49	94.2	97.0	94.0	99.0	19,409	20,590
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NEW MEXICO

3	18.3	16.9	3.82	3.74	9.7	9.4	8.5	8.2	0.5	0.5	2.6	3.2	98.34	91.17	98.2	97.8	96.5	89.0	83	152
9	20.5	19.6	3.70	3.58	11.1	12.2	8.5	8.0	.5	.4	1.2	1.2	109.08	106.03	99.1	99.5	108.0	106.0	728	791
State	20.3	19.2	3.71	3.61	11.0	11.7	8.5	8.0	.5	.4	1.3	1.5	107.98	103.64	99.0	99.2	107.0	103.0	811	943

Table 5. Cottonseed: Quality factors, indexes, and grades, by crop-reporting districts and States, 1960 and 1961 (Continued)

OKLAHOMA

Dist. No.	Cottonseed analysis														Average Index		Average grade		Samples	
	Oil		Ammonia		Linters		Moisture		Free fatty acids		Foreign matter		Quantity		Quality		1960	1961		
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	No.	No.				
1	17.9	-	4.05	-	9.5	-	11.4	-	7.2	-	2.0	-	98.09	-	77.1	-	76.0	-	4	-
3	18.8	18.2	3.92	3.88	10.1	9.5	10.9	11.7	.4	.9	.9	2.6	102.36	98.59	99.7	97.8	86.5	96.5	12	11
4	19.3	18.2	3.92	3.89	10.4	10.6	9.4	10.5	.5	.6	1.6	1.8	104.30	99.85	98.4	99.0	103.5	99.0	832	554
5	18.6	18.3	4.06	3.98	10.3	10.2	10.0	11.4	.5	.7	.9	1.5	102.37	100.56	98.1	99.0	100.0	99.5	319	263
6	18.6	17.9	3.79	3.80	10.0	9.4	11.3	12.6	.5	.7	1.2	1.8	100.35	96.62	99.5	98.2	88.5	95.0	180	124
7	18.6	18.4	4.09	3.97	10.8	10.8	9.6	9.9	.5	.5	.9	1.2	103.01	101.62	97.9	99.5	102.0	101.5	2,042	2,067
8	17.8	18.4	4.02	4.05	10.5	10.5	10.7	10.6	.9	.5	.9	1.4	99.04	101.65	97.4	99.3	97.5	101.0	148	156
9	19.0	18.7	3.70	3.65	10.1	10.2	11.6	11.6	.8	.5	.8	.6	101.54	100.26	99.7	99.5	81.5	100.0	41	29
State	18.7	18.4	4.02	3.95	10.6	10.7	9.8	10.3	.6	.6	1.1	1.4	102.93	101.01	98.1	99.3	101.0	100.5	3,578	3,204

TENNESSEE

1	18.4	18.8	3.89	3.69	9.6	10.2	12.8	12.4	1.1	1.0	1.0	1.3	99.73	100.80	98.0	97.4	98.0	98.5	3,000	3,042	
2	18.9	19.4	3.95	3.72	9.4	10.1	12.5	12.0	1.2	1.0	1.3	1.5	101.62	103.07	98.0	97.5	99.5	100.5	4,264	4,666	
3	18.4	19.2	4.01	3.83	9.7	10.0	13.2	11.8	1.3	1.1	.8	1.4	100.47	102.95	97.7	97.1	98.5	100.5	282	264	
4	18.4	19.0	3.88	3.80	10.1	10.3	13.0	11.9	1.5	1.4	.9	1.3	100.44	102.24	97.7	96.9	98.0	99.5	258	228	
5	18.7	19.4	3.84	3.67	10.3	10.6	13.0	11.8	1.7	1.1	.7	1.4	101.64	103.41	97.9	98.1	99.5	101.5	80	48	
6	-	18.2	-	3.62	-	9.5	-	13.6	-	.8	-	.9	-	98.75	-	98.5	-	96.0	-	1	1
State	18.7	19.2	3.93	3.72	9.5	10.1	12.6	12.1	1.2	1.0	1.1	1.4	100.82	102.21	98.0	97.4	99.0	100.0	7,884	8,249	

TEXAS

1	18.6	17.9	3.89	3.84	10.0	10.3	8.8	8.5	0.6	0.4	1.7	1.9	100.54	97.72	92.9	98.9	89.5	97.0	10,633	13,713
2	18.5	18.6	4.07	3.93	10.0	10.0	9.1	9.4	.6	.4	1.1	1.4	101.41	101.09	98.2	99.3	99.0	100.5	3,934	4,642
3	17.7	18.3	4.08	4.04	11.1	10.6	9.0	9.7	.6	.5	1.0	1.2	99.55	101.38	99.8	99.4	99.5	101.0	167	130
4	17.4	17.4	3.93	3.81	11.2	12.4	9.6	9.1	1.4	.7	1.2	1.5	96.96	97.92	95.4	99.4	90.5	97.5	132	305
5	18.5	18.4	3.96	3.71	9.8	10.5	11.6	12.0	1.9	.9	.7	1.0	100.58	99.50	96.0	98.2	96.5	98.0	99	152
6	20.2	20.1	3.83	3.74	11.2	11.9	9.2	8.3	.4	.4	1.2	1.0	108.07	108.86	99.0	99.6	107.5	108.5	638	799
7	18.0	17.9	4.08	4.00	10.6	10.1	8.3	9.6	.5	.5	.9	1.6	100.17	98.66	99.5	99.3	99.0	98.5	298	327
8	17.7	18.2	3.94	3.76	11.3	12.3	10.4	10.1	3.0	.6	1.0	.8	96.39	101.18	93.3	99.8	92.5	101.0	64	418
9	18.4	19.5	3.79	3.43	10.1	11.2	11.8	11.1	6.8	1.1	.7	.5	99.19	103.20	78.9	99.0	78.0	102.5	467	198
10	18.3	18.1	3.82	3.92	12.2	11.1	7.4	10.4	.6	.6	.8	.5	101.82	100.54	100.0	99.8	102.0	100.5	1	946
State	18.6	18.2	3.94	3.85	10.1	10.4	9.0	8.8	.8	.5	1.5	1.7	100.94	99.14	94.3	99.1	92.5	98.5	16,433	21,630

Table 6. Percentage distribution of quantity and quality indexes by specified frequencies, by States and United States, 1960 and 1961

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	
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		1960	1961	1960	1961	1960	1961	1960	1961
Ala.	0.1	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	.1	0.1	-	-	-	-	-	0.1	-	-	0.1	0.1	-	0.1	0.1	0.4	0.3	2.7	3.0	28.4	25.8
Calif.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7	-	8.2	-
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	.1	.1	-	-	-	-	-	-	.1	-	-	-	1.0	1.4	5.1	4.1	19.2	17.8	56.5	43.8	18.2
Miss.	.1	-	0.1	-	-	-	-	-	-	-	-	-	1.2	3.1	3.1	3.3	12.8	4.0	43.1	34.6	35.7
Mo.	.1	-	-	-	-	-	-	-	-	-	-	-	1.0	2.2	1.0	4.4	5.2	3.7	38.5	25.9	50.4
N. Mex.	.1	-	-	-	-	-	-	0.1	-	-	0.1	-	.1	.1	.8	.7	5.5	7.8	44.3	46.8	45.8
Okla.	.1	-	-	-	-	-	-	-	-	-	1.0	-	.6	2.9	.7	4.6	3.8	9.7	9.7	17.2	12.5
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	.2	.2	.1	.3	.6	2.7	14.2	29.7	57.3
Tex.	.2	-	-	-	-	-	-	0.1	0.1	.2	.3	.4	.9	1.1	2.5	3.3	7.8	12.7	22.9	35.0	44.7
All other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.5	-	.9	-	19.0	17.9	49.5
Total	.1	-	-	-	-	-	-	.1	.1	.1	.4	.3	1.1	1.1	5.0	5.6	30.8	27.8	51.4	47.9	11.1

State	Quality Index												Total								
	Below grade		40.0-49.9		50.0-59.9		70.0-79.9		80.0-84.9		85.0-89.9			90.0-94.9		95.0-99.9		Prime quality		100	
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		1960	1961	1960	1961				
Ala.	0.1	0.2	0.1	0.2	0.8	0.9	1.6	1.5	2.1	1.1	5.5	1.0	15.1	2.9	66.3	40.9	8.4	51.3	100.0		
Ariz.	-	-	-	-	-	-	-	.1	-	-	-	-	-	.6	-	6.9	100.0	92.4	100.0	100.0	
Ark.	-	-	-	.1	-	.5	.2	1.0	.6	1.5	.8	3.1	1.7	7.2	5.2	60.8	44.3	25.8	47.2	100.0	
Calif.	-	-	-	-	-	-	-	.2	-	-	-	-	-	.2	-	19.0	-	80.6	-	100.0	
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0
La.	.2	.5	.2	.4	2.2	2.4	5.3	3.1	5.0	2.8	10.3	5.3	21.3	7.7	38.2	43.6	17.3	34.2	100.0	100.0	
Miss.	.2	.3	.2	.3	1.7	1.4	3.4	2.2	3.5	1.5	8.0	2.0	19.9	4.7	53.0	42.1	10.1	45.5	100.0	100.0	
Mo.	-	-	-	.1	.5	.6	.7	1.3	.6	.7	.8	1.7	4.1	4.7	55.6	42.9	37.7	48.0	100.0	100.0	
N. Mex.	.2	-	-	-	.1	-	.1	-	-	-	.2	.1	2.5	1.7	38.1	49.9	58.8	48.3	100.0	100.0	
Okla.	1.5	-	-	-	-	-	.2	-	.2	-	.1	-	.8	.2	39.3	58.1	57.7	41.6	100.0	100.0	
Tenn.	-	.1	-	-	.1	.2	.5	1.1	.5	1.3	1.3	2.8	5.7	6.3	73.8	55.8	18.3	31.9	100.0	100.0	
Tex.	4.8	-	-	-	.7	-	1.1	-	.5	.1	.7	.1	1.6	.9	51.8	62.8	38.8	36.1	100.0	100.0	
All other	29.2	-	-	-	.5	-	.5	3.6	.9	3.6	.5	3.6	1.4	-	32.4	42.8	34.6	46.4	100.0	100.0	
Total	1.2	.1	.1	.1	.9	.6	1.8	1.0	1.8	.9	3.9	1.6	9.8	3.8	55.6	48.7	24.9	43.2	100.0	100.0	

* Less than 0.05 percent.

Table 7. Percentage distribution of grades by specified frequencies, by States and United States, 1960 and 1961

State	Below Grade		Grade												Total								
	00.0-39.9		40.0-74.9		75.0-79.9		80.0-84.9		85.0-89.9		90.0-94.9		95.0-99.9			100.0		105.0		110.0 and over			
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		1960	1961	1960	1961	1960	1961	1960	1961
Ala.	0.2	0.2	1.1	1.6	0.9	0.7	1.8	1.3	4.2	1.6	12.4	2.7	39.8	10.3	35.3	44.2	4.5	36.8	0.6	100.0	100.0	100.0	100.0
Ark.	-	-	1.3	0.6	0.8	0.5	1.9	1.2	3.8	2.8	9.1	7.8	30.7	25.3	43.0	42.6	9.2	17.8	0.2	1.4	100.0	100.0	100.0
Calif.	-	-	-	0.2	-	-	-	-	-	-	-	4.5	-	8.6	-	23.7	-	54.8	-	8.2	-	100.0	100.0
Ky.	0.2	0.6	7.2	4.2	4.2	2.4	6.6	3.2	12.5	5.3	20.2	10.0	27.6	28.0	19.3	38.3	2.2	7.9	0.1	1.0	100.0	100.0	100.0
La.	0.2	0.3	3.5	2.6	2.2	1.2	4.4	2.1	9.1	3.4	20.7	7.1	34.9	23.8	23.1	45.2	1.8	14.0	0.1	0.3	100.0	100.0	100.0
Miss.	-	-	1.0	1.5	0.6	0.9	1.4	1.5	2.9	4.1	9.8	12.4	40.7	39.3	39.9	35.8	3.6	4.4	0.1	0.1	100.0	100.0	100.0
N. Mex.	0.4	-	-	0.3	0.5	1.6	1.0	3.7	1.2	5.1	5.8	11.7	9.7	14.6	11.1	11.9	19.9	18.3	50.4	32.8	100.0	100.0	100.0
Okla.	1.7	-	0.4	1.1	0.1	0.1	0.8	0.2	0.8	1.0	4.5	14.6	32.1	56.0	54.3	25.3	7.7	0.5	0.2	100.0	100.0	100.0	100.0
Tenn.	8.1	0.8	0.3	1.1	0.3	0.8	1.5	2.5	3.2	10.3	7.2	36.4	23.1	44.9	47.5	4.5	15.5	-	0.1	100.0	100.0	100.0	100.0
Tex.	9.1	0.8	1.4	0.5	1.0	0.6	1.5	1.5	3.5	4.9	8.3	15.9	20.1	32.4	37.2	32.6	16.3	9.6	2.6	2.0	100.0	100.0	100.0
All other	17.6	-	0.5	-	-	-	1.4	3.6	1.4	7.1	2.3	3.6	17.6	14.2	34.7	21.4	19.9	50.1	4.6	-	100.0	100.0	100.0
Total	1.8	0.1	2.1	1.3	1.3	0.8	2.5	1.6	5.2	3.5	12.4	9.4	30.2	26.5	35.3	40.0	8.1	15.3	1.1	1.5	100.0	100.0	100.0

* Less than 0.05 percent.

Table 8. Percentage distribution of oil by specified frequencies, by States and United States, 1960 and 1961

State	Under		Oil												Total								
	15.0		15.0-		16.0-		16.5-		17.0-		17.5-		18.0-			18.5-		19.0-		20.0-		21.0 and over	
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		1960	1961	1960	1961	1960	1961	1960	1961
Ala.	0.1	0.1	0.1	0.2	0.1	0.6	0.3	2.1	0.7	8.7	2.2	22.4	7.1	30.9	19.1	32.6	50.7	2.2	18.9	0.1	0.9	100.0	100.0
Ark.	0.3	0.2	0.3	0.2	0.5	0.3	1.0	0.7	2.5	2.1	6.4	5.6	15.3	14.0	25.4	22.1	40.1	41.5	7.9	12.5	0.3	0.8	100.0
Calif.	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0
Ky.	-	-	5.1	5.5	7.1	-	8.1	6.2	10.1	8.2	26.3	11.0	29.2	23.3	10.1	28.8	4.0	15.0	-	-	-	-	100.0
La.	0.3	0.1	2.8	0.1	3.9	0.3	6.9	0.9	12.1	2.9	17.4	7.2	22.6	16.9	19.5	28.3	12.8	38.0	1.7	5.1	0.2	0.2	100.0
Miss.	0.3	0.1	0.8	0.1	1.4	0.4	3.1	1.3	7.0	3.6	15.8	8.5	25.2	16.3	25.2	23.9	19.5	37.4	1.6	8.0	0.1	0.4	100.0
Mo.	0.1	0.1	0.6	0.5	1.5	1.5	4.7	4.6	9.8	10.4	20.1	19.8	24.7	23.5	22.1	18.8	15.5	17.9	0.9	2.7	0.2	0.2	100.0
N. Mex.	0.6	1.3	1.0	3.2	0.6	4.5	2.2	7.3	3.0	8.2	3.1	7.4	5.3	6.4	5.4	5.2	13.2	10.8	23.1	17.9	42.5	27.8	100.0
Okla.	0.5	0.1	0.1	0.2	0.3	0.5	1.0	2.3	4.8	6.9	12.8	17.7	19.1	27.6	22.1	25.4	30.7	17.5	8.0	1.7	0.6	0.1	100.0
Tenn.	0.1	0.1	0.1	0.1	0.3	0.1	1.0	0.4	3.4	1.5	8.9	4.0	19.0	9.9	28.7	20.0	36.5	50.7	2.0	13.0	0.3	0.3	100.0
Tex.	0.7	0.9	1.7	1.8	2.4	3.0	4.5	6.3	7.6	12.8	10.9	16.4	13.9	17.6	15.7	16.6	32.4	19.1	8.2	4.3	2.0	1.2	100.0
All other	-	-	-	-	0.5	-	0.9	-	2.8	-	3.2	-	6.0	3.6	4.2	10.7	45.8	57.1	33.8	28.6	2.8	-	100.0
Total	0.3	0.3	0.9	0.6	1.3	1.0	2.8	2.5	5.9	5.6	11.8	9.7	19.3	15.5	23.0	20.7	28.9	34.3	4.9	8.8	0.9	1.0	100.0

* Less than 0.05 percent.

Table 9. Percentage distribution of ammonia by specified frequencies, by States and United States, 1960 and 1961

State	Ammonia																		Total			
	Under 2.95		2.95-3.09		3.10-3.24		3.25-3.39		3.40-3.54		3.55-3.69		3.70-3.84		3.85-3.99		4.00-4.14			4.15 and over		
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		1960	1961	1960
Ala.	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calif.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N. Mex.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	.1	7.0	.1	7.0	.4	7.0	.1	7.0	.8	7.0	5.2	4.2	15.3	15.8	28.9	30.5	28.0	29.7	15.2	18.8	5.4	100.0

* Less than 0.05 percent.

Table 10. Percentage distribution of linters by specified frequencies, by States and United States, 1960 and 1961

State	Linters																		Total			
	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					
	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961		1960	1961	
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ark.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calif.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miss.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N. Mex.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Okla.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tex.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
All other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	.8	7.0	.5	7.0	23.1	7.0	12.6	7.0	38.3	32.0	24.6	34.6	10.0	14.1	2.8	4.8	.4	1.2	2.2	15.2	18.8	5.4

* Less than 0.05 percent.

Table 11. Percentage distribution of moisture in cottonseed samples by specified frequencies, by States and United States, 1960

State	Prime quality 0-12.0	Below prime 12.1-20.0	Off quality 20.1 and over	Moisture												
				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	100.0	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	100.0	.2	100.0
Calif.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	45.5	54.5	-	-	3.0	16.2	25.3	41.4	13.1	-	-	-	-	-	-	-
La.	47.2	51.8	1.0	-	5.7	15.3	24.8	37.0	10.4	3.3	1.1	1.0	100.0	100.0	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	100.0	.1	100.0
No.	45.3	54.6	.1	-	4.7	15.1	25.2	40.5	11.6	2.2	.3	.1	100.0	100.0	.1	100.0
N. Mex.	98.8	1.2	0.2	0.2	6.0	68.9	16.0	5.7	2.0	.7	.5	-	100.0	100.0	-	100.0
Okla.	94.8	4.9	.3	.3	32.3	35.5	18.1	8.5	4.4	.3	.1	.1	100.0	100.0	.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	100.0	.1	100.0
Tex.	96.0	3.9	.2	.2	5.0	53.1	22.9	10.0	4.8	3.2	.5	.1	100.0	100.0	.1	100.0
All other	78.7	21.3	-	-	2.8	31.0	17.1	16.7	10.2	14.8	5.6	.9	-	100.0	-	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	.2	100.0

* Less than 0.05 percent.

Table 12. Percentage distribution of moisture in cottonseed samples by specified frequencies, by States and United States, 1961

State	Prime quality 0-12.0	Below prime 12.1-20.0	Off quality 20.1 and over	Moisture													
				Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.		
Ala.	72.0	27.7	0.3	-	6.2	17.6	25.3	22.9	21.7	4.3	1.1	0.6	0.3	100.0	100.0	0.3	100.0
Ark.	59.3	40.5	.2	.2	11.8	13.0	15.2	19.3	30.4	7.8	1.7	.6	.2	100.0	100.0	.2	100.0
Calif.	100.0	-	-	-	32.3	58.7	7.2	1.6	.2	-	-	-	-	100.0	100.0	-	100.0
Ky.	38.4	60.2	1.4	-	1.4	11.0	23.9	42.5	15.0	2.7	-	-	-	100.0	100.0	-	100.0
La.	53.4	45.6	1.0	-	4.8	13.8	13.9	20.9	31.6	9.9	2.3	1.6	1.0	100.0	100.0	1.0	100.0
Miss.	61.5	38.0	.5	.5	16.4	18.1	19.1	26.9	7.5	2.5	1.1	.5	100.0	100.0	.5	100.0	
No.	57.7	42.1	.2	.2	7.7	14.9	17.0	18.1	31.4	9.3	1.2	.2	.2	100.0	100.0	.2	100.0
N. Mex.	99.5	.5	-	-	24.3	56.9	12.8	4.5	1.0	.4	.1	-	-	100.0	100.0	-	100.0
Okla.	85.3	14.7	.2	.2	22.4	26.0	20.8	15.9	13.0	1.5	.2	-	-	100.0	100.0	-	100.0
Tenn.	48.9	51.0	.1	.1	2.4	12.2	16.4	17.9	37.0	11.2	2.1	.7	.1	100.0	100.0	.1	100.0
Tex.	96.6	3.4	.1	.1	5.9	57.4	20.3	9.0	4.0	2.6	.7	.1	.1	100.0	100.0	.1	100.0
All other	64.3	35.7	-	-	-	-	-	14.3	50.0	32.1	3.6	-	-	100.0	-	100.0	
Total	70.0	29.7	.3	*	2.8	21.4	16.0	14.8	15.0	21.7	6.0	1.4	.6	.3	.3	100.0	

* Less than 0.05 percent.

Table 13. Percentage distribution of free fatty acid in cottonseed samples, by specified frequencies, by States and United States, 1960

State	Prime quality		Below prime quality		Off quality		12.5 and over		1.9-12.4 and over		Total	
	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
Ark.	79.2	20.7	.1	22.1	32.1	15.2	9.8	10.9	7.0	1.8	.6	.3
Calif.	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	99.0	1.0	-	51.6	44.4	3.0	-	1.0	-	-	-	-
La.	31.8	67.6	.6	.3	5.9	12.9	27.5	26.9	8.1	3.6	1.1	.4
Miss.	43.6	55.8	.6	2.4	16.3	13.8	11.1	23.3	22.1	6.1	2.7	1.1
Mo.	95.1	4.8	.1	54.3	34.3	5.0	1.5	2.1	1.1	.7	.5	.3
N. Mex.	99.0	.9	.1	70.1	26.0	2.7	.6	.2	.1	.1	-	-
Okla.	98.9	1.1	-	50.8	42.0	5.5	.4	.4	.2	.5	-	.1
Tenn.	85.2	14.7	.1	12.3	38.3	22.3	12.3	11.2	2.8	.5	.1	.1
Tex.	95.6	4.2	.2	49.0	41.7	4.0	.8	1.1	.7	.9	.6	.1
All other	96.6	3.4	-	66.6	24.5	4.6	.5	.5	1.4	1.5	.5	-
Total	72.1	27.6	.3	23.4	29.2	11.8	7.7	12.5	10.2	2.8	1.3	.6

* Less than 0.05 percent.

Table 14. Percentage distribution of free fatty acid in cottonseed samples, by specified frequencies, by States and United States, 1961

State	Prime quality		Below prime quality		Off quality		12.5 and over		1.9-12.4 and over		Total	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Ala.	91.0	8.4	0.6	25.7	50.2	12.1	3.0	3.1	2.2	1.4	1.1	0.5
Ark.	98.6	1.4	-	36.3	52.0	9.0	1.3	1.1	.2	.1	-	-
Calif.	97.8	2.2	-	12.5	62.5	18.5	4.3	1.8	.2	-	-	-
Ky.	91.7	8.3	-	41.1	37.0	6.8	6.8	4.1	1.4	1.4	1.4	1.4
La.	72.2	26.5	1.3	16.0	35.1	14.6	6.5	9.8	9.2	3.6	2.0	1.2
Miss.	87.5	11.7	.8	38.6	38.6	7.6	2.7	3.5	3.4	2.0	1.6	.8
Mo.	92.0	7.9	.1	49.3	36.9	3.9	1.9	3.4	2.3	1.1	.7	.3
N. Mex.	99.8	.2	-	81.8	17.2	.6	.2	.1	-	-	-	-
Okla.	99.8	.2	-	40.6	54.1	4.6	.5	.1	-	-	-	-
Tenn.	90.0	9.7	.3	36.1	43.7	7.6	2.6	3.7	4.1	1.3	.3	.2
Tex.	99.6	.4	*	65.4	31.9	1.8	.5	.3	.1	*	*	*
All other	85.7	14.3	-	21.4	57.2	7.1	-	3.6	3.6	7.1	3.6	3.6
Total	91.9	7.8	.3	45.7	38.2	5.8	2.2	2.9	2.6	1.1	.7	.3

* Less than 0.05 percent.

Table 15. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by States and United States, 1960

State	Prime quality	Prime quality 0-1.0	Below prime quality 1.1-10.0 and over	Off quality 10.1 and over	Foreign matter													
					Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.			
Ala.	74.4	25.6	0	0	47.7	26.7	18.9	5.0	1.2	0.4	0.1	0	0	0	0	0	0	100.0
Ark.	100.0	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-	100.0
Calif.	79.8	20.2	-	-	43.4	36.4	13.1	5.1	1.0	-	-	-	-	-	-	-	-	100.0
Ky.	79.8	20.2	-	-	43.4	36.4	13.1	5.1	1.0	-	-	-	-	-	-	-	-	100.0
Ta.	77.9	22.1	-	-	43.4	34.5	16.2	4.1	1.3	.4	.1	-	-	-	-	-	-	100.0
Miss.	75.2	24.8	0	0	41.5	33.7	18.5	4.0	1.4	.6	.2	.1	0	0	0	0	0	100.0
Mo.	79.6	20.2	0	0	53.1	26.5	10.8	4.3	2.3	1.7	.8	.2	.1	0	0	0	0	100.0
N. Mex.	59.8	40.2	-	-	39.5	20.3	19.7	9.1	4.9	3.7	2.2	.5	.1	0	0	0	0	100.0
Okla.	62.6	37.3	0	0	24.6	38.0	27.3	6.1	2.2	1.1	.3	.2	.1	0	0	0	0	100.0
Tenn.	65.2	34.7	0	0	36.9	28.3	19.8	7.8	4.2	2.0	.6	.2	.1	0	0	0	0	100.0
Tex.	48.3	51.5	0	0	18.5	29.8	30.1	12.4	5.2	2.6	.8	.3	.1	0	0	0	0	100.0
All other	81.5	18.5	-	-	43.1	38.4	13.9	3.2	1.4	-	-	-	-	-	-	-	-	100.0
Total	67.8	32.1	.1	.1	36.1	31.7	20.6	6.6	2.7	1.4	.5	.2	.1	0	0	0	0	100.0

* Less than 0.05 percent.

Table 16. Percentage distribution of foreign matter in cottonseed samples by specified frequencies, by States and United States, 1961

State	Prime quality	Prime quality 0-1.0	Below prime quality 1.1-10.0 and over	Off quality 10.1 and over	Foreign matter													
					Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.			
Ala.	70.2	29.7	0.1	0.1	35.7	34.5	19.3	6.2	2.4	1.0	0.6	0.1	0.1	0.1	0.1	0.1	0.1	100.0
Ark.	72.1	27.5	0	0	41.1	31.0	15.1	5.6	3.1	2.2	.9	.4	.2	.1	0	0	0	100.0
Calif.	81.8	18.2	-	-	46.7	35.1	11.5	5.3	1.2	.2	-	-	-	-	-	-	-	100.0
Ky.	64.3	35.7	-	-	39.7	24.6	16.4	5.5	11.0	-	1.4	1.4	-	-	-	-	-	100.0
Ta.	70.3	29.6	0	0	28.7	41.6	18.7	5.4	2.9	1.8	.6	.1	0	0	0	0	0	100.0
Miss.	73.6	26.3	0	0	37.7	35.9	17.5	4.6	2.0	1.3	.5	.3	.1	0	0	0	0	100.0
Mo.	73.8	25.9	0	0	49.5	24.3	12.9	5.1	3.4	2.8	1.1	.5	.1	0	0	0	0	100.0
N. Mex.	48.4	51.4	0	0	27.6	20.8	26.1	14.1	5.4	3.7	1.4	.5	.2	.2	.2	.2	.2	100.0
Okla.	47.9	52.0	0	0	16.6	31.3	35.1	10.9	4.1	1.7	.2	-	-	-	-	-	-	100.0
Tenn.	59.6	40.2	0	0	36.4	23.2	19.0	9.5	5.3	3.7	1.6	.9	.2	.2	.2	.2	.2	100.0
Tex.	38.3	61.6	0	0	13.9	24.4	33.7	16.1	7.0	3.6	1.9	.9	.2	.1	0	0	0	100.0
All other	67.9	32.1	-	-	60.8	7.1	21.4	7.1	3.6	-	-	-	-	-	-	-	-	100.0
Total	62.7	37.1	.2	.2	32.7	30.0	21.2	8.4	3.9	2.4	.8	.3	.1	0	0	0	0	100.0

* Less than 0.05 percent.

Table 17. Number of cottonseed samples by specified groups, by qualities, and number reduced in grade for specified causes, by States and United States, 1960 and 1961

State	Quality										Reduced due to excess									
	Prime		Below prime and off quality		Below grade		Total samples graded		Moisture		Free fatty acid		Foreign matter							
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number					
Ala.	415	2,412	4,495	2,284	5	9	4,915	4,705	3,207	1,322	2,303	420	1,266	1,406						
Ariz.	1	1,596	-	131	-	-	1	1,727	-	-	-	26	-	123						
Ark.	4,766	9,256	13,699	10,309	2	-	18,467	19,565	10,815	7,987	3,835	1,354	5,407	5,427						
Calif.	-	392	-	95	-	-	-	487	-	-	-	11	-	89						
Ky.	34	22	65	51	-	-	99	73	54	45	1	6	20	26						
La.	1,011	1,972	4,818	3,758	9	30	5,838	5,760	3,087	2,691	3,978	1,596	1,299	1,709						
Miss.	1,962	9,329	17,417	11,204	30	57	19,409	20,590	11,664	7,928	10,928	2,585	4,809	5,414						
Mo.	2,172	2,540	3,586	2,750	1	-	5,759	5,290	3,150	2,235	275	429	1,178	1,397						
N. Mex.	476	456	333	487	2	-	811	943	10	5	9	2	327	487						
Okla.	2,065	1,331	1,460	1,873	53	-	3,578	3,204	188	469	40	6	1,333	1,666						
Tenn.	1,442	2,641	6,441	5,603	1	5	7,884	8,249	4,918	4,211	1,165	831	2,741	3,345						
Tex.	6,370	7,804	9,269	13,823	794	3	16,433	21,630	674	733	721	117	8,507	13,340						
All other	75	13	78	15	63	-	216	28	46	10	7	4	40	9						
Total	20,789	39,764	61,661	52,383	960	104	83,410	92,251	37,813	27,636	23,262	7,387	26,927	34,438						



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