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Beltsville, Maryland

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# ANNUAL COTTON QUALITY SURVEY

Summary of Results of  
Fiber and Processing Tests  
from Selected Production Areas

CROP of

1962

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# ANNUAL COTTON QUALITY SURVEY

## Summary of Results of Fiber and Processing Tests from Selected Production Areas, Crop of 1962

### INTRODUCTION

This is one of a series of annual reports containing information on fiber characteristics and spinning performance of cotton from all major commercial production areas of the United States. It consolidates and gives supplemental information on data published in biweekly reports from August 1962 through January 1963. These reports are entitled "Cotton Fiber and Processing Test Results, Crop of 1962" and are numbered CT (1962) 1 through 13.

The annual quality surveys are designed to facilitate planned production and orderly marketing of cotton. The data provide farmers and breeders with basic quality information of cottons produced under field conditions, and help cotton merchants and manufacturers locate sources of cotton having characteristics and spinning performance desired for specific end uses. The surveys also provide historical data for use in studying the relationships between various fiber property measurements and processing performance.

Some of the production areas represented in the 1962 survey have been included in the studies each year since 1946. This affords, in some instances, comparisons of test results over a 17-year period. Thus, an indication of the variation in fiber and spinning qualities of cotton grown in the same areas for 17 successive years may be observed by making comparisons of the results presented in reports for previous years. However, direct comparisons should be made only for those lots tested under the same processing organization.

### SAMPLING PROCEDURES

The procedures for selecting samples for the 1962 survey were similar to those used last year. They were designed to represent all major varieties in each crop reporting district and to provide additional selections in proportion to production. In most cases, each survey point or gin community selected for collection of samples represents approximately 30,000 to 100,000 bales of the specified variety in the general production area. Pure variety gins, however, were selected when available regardless of production.

Variety selections were based on the predominant varieties grown in each district as reported by the Cotton Division in "Cotton Varieties Planted, 1958-1962." Survey points with at least 70 percent of ginnings of one variety were designated as that variety and the percentage given, but those with less than 70 percent one variety were designated as mixed varieties. No attempt was made to maintain the purity of the variety except by selection of representative gin points. This method is similar to the conditions faced by the

cotton trade in merchandising cotton and provides a more adequate representation of the districts than the 100 percent one-variety methods employed in earlier years. The locations of the market areas selected for the 1962 survey are shown in figure 1.

For the most part, the areas included in the study produce large enough quantities of cotton of the specified varieties to enable buyers to obtain lots of even-running grade and staple. Test lots were collected from each production area or survey point at intervals of once in three weeks during harvesting season to represent the crop as to grade and staple predominating at the time of collection. Obviously, other qualities are available in lesser quantities in each area as a result of normal seasonal, soil, harvesting, and other variations. Many of the production areas also produce cotton of varieties other than those included in the survey.

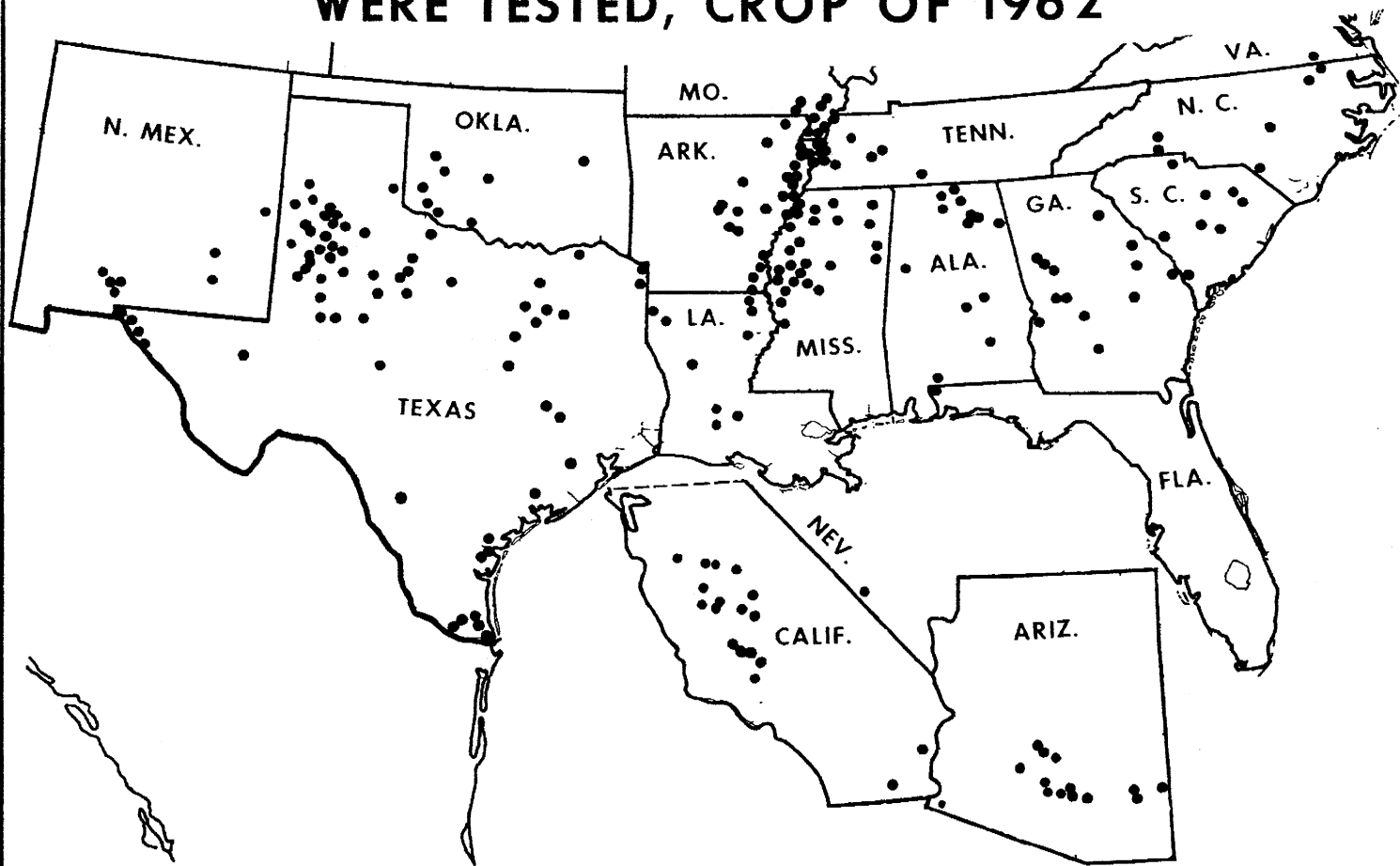
The spinning test lots represent composite samples from a considerable number of individual bales of the same grade and staple length which were classed for producers under the provision of the Smith-Doxey Act. After classification, samples representing the predominant grade and staple length for each area at the time were grouped to provide enough lint for a spinning test lot. The even-running lots of bale samples were then shipped from the various classing offices to the Cotton Division spinning laboratories. The method of collecting samples for this study provided a uniform sample of cotton representative of the quality prevailing in the immediate producing area of each gin at the time the samples were collected.

#### LABORATORY PROCEDURES

Fiber, yarn processing, and chemical finishing tests were performed by standardized laboratory procedures for each triweekly sampling from each production area. Most of the fiber tests were performed in the standard atmospheric conditions of 65 percent relative humidity at 70 degree F. employing the standard test procedures outlined by the American Society for Testing Materials. Other tests not covered by ASTM were performed by commonly accepted procedures as outlined by instrument manufacturers' instructions. Pinches of cotton were extracted from each bale sample of each test lot and were blended to provide representative specimens for the various fiber tests.

Yarn processing or spinning tests were performed by a technique developed in the Cotton Division laboratories for processing small lots of cotton on standard-type textile machines. The bale samples for each lot were thoroughly composited by hand-mixing before being fed to the first process picker. This hand-mixing is similar to the machine mixing normally obtained in cotton textile opening equipment which is not used in the small scale test procedure. Observations were made at each process to measure processing behavior, and the yarns produced were tested to measure product quality.

# DISTRIBUTION OF PRODUCTION AREAS FROM WHICH COTTON SAMPLES WERE TESTED, CROP OF 1962



On the basis of past performance, the cottons were grouped according to the staple length expected in their specified areas of growth. These groups were carded at production rates and spun into numbers that reflect the manufacturing value of the varieties tested. In general, the rates of carding and yarn numbers spun from the 1962 crop are as follows:

Group 1.--Short staple cottons, carded at 12-1/2 pounds per hour and spun into carded 8s and 22s yarns with a twist multiplier of 4.40 plus a carded yarn spinning potential yarn number for selected lots.

Group 2.--Medium staple cottons, carded at 9-1/2 pounds per hour and spun into carded 22s and 50s yarns with a twist multiplier of 4.00 plus a carded yarn spinning potential yarn number for selected lots.

Group 3.--Long staple cottons, carded at 6-1/2 pounds per hour and spun into both carded and combed 22s and 50s yarns with a twist multiplier of 3.80 plus a carded yarn spinning potential yarn number for selected lots.

Group 4.--Extra long staple cottons, carded at 4-1/2 pounds per hour and spun into combed 50s and 80s yarns with a twist multiplier of 3.60.

Skeins of yarn from each spinning test lot were bleached and dyed after bleaching by a technique developed in the Cotton Division laboratories for small scale finishing tests. Color tests were made on skeins of gray and chemically finished skeins as measures of the bleaching and dyeing behavior. Skeins of yarn from each combed yarn lot were also mercerized and tested for luster and strength.

#### TEST RESULTS

The average fiber properties and processing performance of the 1962 cottons tested in this study show significant differences from the 1961 cottons in Micronaire reading, fiber strength, manufacturing waste, yarn strength and yarn imperfection counts. Comparisons of these values show the 1962 cottons are coarser with higher fiber strength (zero gauge), manufacturing waste and yarn imperfection count and lower yarn skein strength.

Generally an increase in zero gauge fiber strength is accompanied by an increase in yarn skein strength. However, at 83,000 psi the 1962 samples tested averaged 3,000 psi stronger than the 1961 samples, yet produced 22s yarn which at 102 averaged 4 pounds weaker than in 1961.

Fiber strength at 1/8-inch gauge was lower by .3 gram per tex at 21.6 than in 1961, again showing that fiber strength at 1/8-inch gauge is more highly correlated with yarn strength than is fiber strength at zero gauge. The superiority of the 1/8-inch gauge fiber strength test in predicting

yarn strength has been shown for several years by the simple correlation coefficients obtained in the Annual Cotton Quality studies. A correlation coefficient of 1.00 indicates perfect relationship and a coefficient of zero indicates no relationship. The correlation coefficients obtained for 491 medium staple samples in this year's study are .49 for the zero gauge, compared to .74 for the 1/8-inch gauge test (table 10).

The Southeastern Area includes the states of Virginia, North Carolina, South Carolina, Georgia, Florida, and Alabama. Average Fibrograph test results for samples from this area show shorter fiber length with the same length distribution as last year. Micronaire reading remains approximately the same while zero gauge fiber strength is higher. Shirley Analyzer non-lint content and manufacturing wastes are essentially the same as a year ago, but neps in card web and yarn imperfection count are higher. Yarn skein strength is higher while average yarn appearance grade is lower, reflecting the higher nep and imperfection counts.

The South Central Area includes the cotton producing sections of Tennessee, Missouri, Mississippi, Arkansas, and Louisiana. Average results of tests made on samples from this area show fibers with approximately the same length and length distribution, but coarser and stronger than a year ago. Shirley Analyzer nonlint content remains approximately the same, while manufacturing waste is higher. Nep count, yarn appearance grade and yarn imperfection count are essentially the same. Yarn skein strength is lower than last year.

The Southwestern Area includes the cotton producing sections of Oklahoma and Texas, except District 6 (west of Pecos River). Samples from the Southwestern Area show approximately the same Fibrograph length and length distribution but are coarser and stronger than a year ago. They show essentially the same nonlint content, but manufacturing wastes are higher. Nep count is lower, reflected in higher average appearance grade and unchanged yarn imperfection count. Yarn skein strength is lower than last year.

The Western Area includes the cotton growing sections of California, Arizona, Nevada, New Mexico, and District 6 of Texas. Samples from this area show shorter fibers with approximately the same length distribution and fineness but stronger than last year. Average nonlint content remains the same while manufacturing wastes are higher. Nep count and appearance index remain on the same level, but yarn imperfection count is higher. Average yarn skein strength is lower than last year.



Table 1.--Cotton: Average results of classification, fiber and processing tests for American upland samples from selected gin points, crops of 1961 and 1962 1/

Area and crop year	Lots tested	Classification		Fiber test results						Processing test results				
		Grade	Staple	Fibrograph		Micro- naire	Fiber strength		Shirley Analyzer nonlint	Picker & card waste	Neps in card web	Skein strength 22s yarn	Average appear- ance	Yarn imprfctns 22s
				2.5% span	50/2.5 unif.		Zerc gauge	1/8" gauge						
No.	Index	32d in.	In.	Pct.	Rdg.	Mosi	G/tex	Pct.	Pct.	No.	Lbs.	Index	No.	
Southeast:														
1961	94	97.5	33.9	1.06	45	4.2	76	20.2	2.1	7.6	19	103	106	19
1962	124	97.6	33.5	1.03	45	4.3	81	21.1	2.2	7.7	28	106	101	28
South Central:														
1961	211	97.6	34.4	1.07	43	4.1	80	22.0	2.6	6.9	23	108	104	25
1962	228	95.2	34.1	1.06	44	4.4	83	21.3	2.7	8.0	25	101	104	25
Southwest:														
1961	212	96.8	31.3	.97	44	3.9	76	20.6	3.2	7.7	39	95	104	36
1962	210	93.1	31.0	.96	45	4.1	80	20.7	3.0	8.2	30	92	109	36
West:														
1961	142	99.8	34.8	1.10	44	4.2	87	24.8	2.6	7.2	21	123	101	28
1962	129	96.6	34.8	1.08	45	4.3	89	24.2	2.6	7.5	23	117	102	31
U.S. Average:														
1961	659	97.8	33.4	1.04	44	4.1	80	21.9	2.7	7.3	27	106	104	28
1962	691	95.3	33.2	1.03	45	4.3	83	21.6	2.7	7.9	27	102	105	30

1/ Based on a limited number of samples of modal quality.

Table 2.--Cotton: Average results of classification, fiber tests, and carded yarn processing tests by state for American upland samples from selected gin point crops of 1961 and 1962

Area, state and crop year	Spinning lots tested	Classification		Fiber length		Micro-naire	Fiber strength		Elongation 1/8"	Shirley Analyzer	Color of raw stock			Color cl. lint		Picker & card waste	Neps in card web
		Grade	Staple	2.5% span	50/2.5 unif.		Zero gauge	1/8" gauge			Reflectance	Yellowness	Composite	Reflectance	Yellowness		
										No.							
<b>SOUTHEAST AREA:</b>																	
<u>Alabama</u>																	
1961	34	99	34.0	1.06	45	4.3	77	20.6	6.8	1.7	75.2	8.5	99	76.8	8.6	7.2	16
1962	39	97	33.5	1.04	45	4.2	82	21.4	6.1	2.2	74.8	8.8	98	76.0	9.0	7.8	31
<u>Florida</u>																	
1961	3	85	33.0	1.03	43	3.9	70	18.2	6.9	3.5	68.6	7.9	87	71.8	8.2	9.5	22
1962	3	87	33.3	1.03	46	3.9	78	21.5	6.4	4.5	70.7	8.3	91	74.3	8.8	9.7	38
<u>Georgia</u>																	
1961	23	97	34.0	1.05	45	4.3	79	20.5	6.4	2.2	74.3	8.6	98	76.4	8.7	7.6	18
1962	37	98	33.4	1.03	45	4.4	83	21.4	5.9	2.3	74.3	8.8	98	75.8	9.0	7.7	27
<u>North Carolina</u>																	
1961	13	98	33.8	1.06	44	4.0	75	20.5	6.9	2.3	75.3	8.1	99	77.3	8.2	7.7	22
1962	16	98	33.2	1.03	44	4.2	77	20.5	6.6	1.8	75.5	8.4	99	77.0	8.6	7.2	29
<u>South Carolina</u>																	
1961	18	98	33.6	1.05	44	4.1	74	19.3	6.7	2.2	73.8	8.5	97	76.4	8.6	8.0	23
1962	24	99	33.7	1.04	45	4.6	79	20.9	6.5	1.9	74.8	8.7	98	76.2	8.8	7.5	27
<u>Virginia</u>																	
1961	3	94	35.3	1.11	45	4.2	77	21.1	6.7	3.0	73.7	7.9	98	75.9	8.1	7.8	14
1962	3	97	34.0	1.04	45	4.2	78	20.3	6.9	3.8	74.5	8.5	98	75.6	8.8	7.8	12
<b>SOUTH CENTRAL AREA:</b>																	
<u>Arkansas</u>																	
1961	68	97	34.5	1.08	43	4.1	80	21.7	6.0	2.6	75.5	8.3	98	78.2	8.3	7.0	24
1962	72	92	34.2	1.06	44	4.3	82	20.8	5.3	3.1	71.7	8.6	93	74.8	8.8	8.1	22
<u>Louisiana</u>																	
1961	25	97	34.1	1.06	43	4.3	78	21.7	6.3	2.6	75.4	8.2	98	78.1	8.3	7.1	31
1962	27	97	33.9	1.05	45	4.7	88	22.7	5.4	2.2	73.7	8.9	97	76.5	9.0	7.3	19
<u>Mississippi</u>																	
1961	68	98	34.7	1.08	44	4.4	80	22.1	6.2	2.6	77.0	8.3	101	79.6	8.3	6.7	18
1962	83	97	34.4	1.07	44	4.6	84	21.8	6.3	2.5	75.0	8.6	98	76.8	8.8	8.0	27
<u>Missouri</u>																	
1961	24	97	34.2	1.06	42	3.8	80	22.4	6.2	2.7	75.2	8.2	98	77.2	8.2	7.5	26
1962	24	92	33.8	1.04	44	4.1	81	20.7	5.6	2.9	71.7	8.5	92	74.6	8.7	3.2	27
<u>Tennessee</u>																	
1961	26	98	34.1	1.06	43	4.0	79	21.7	6.2	2.3	76.1	8.6	99	78.4	8.7	6.6	26
1962	22	98	33.6	1.03	44	4.3	82	20.4	6.2	2.1	75.1	8.8	99	76.2	9.0	7.8	32
<b>SOUTHWEST AREA:</b>																	
<u>Oklahoma</u>																	
1961	28	94	31.2	.96	44	4.2	77	20.5	5.9	3.0	72.6	9.3	95	75.3	9.4	7.3	28
1962	25	90	30.5	.95	45	4.3	79	19.8	5.9	3.2	70.3	9.4	92	73.3	9.6	8.2	25
<u>Northwest Texas</u>																	
<u>Short staple</u>																	
1961	21	97	30.5	.94	44	3.7	75	20.3	6.2	3.4	74.4	9.0	98	77.0	9.0	7.8	46
1962	114	93	30.1	.93	45	3.8	78	20.4	6.5	3.3	72.1	9.3	95	75.0	9.3	8.3	34
<u>Long staple</u>																	
1961	4	100	34.8	1.09	42	3.7	93	24.4	5.3	2.5	76.1	8.4	100	77.9	8.2	7.2	19
1962	5	93	35.6	1.14	44	4.1	87	25.5	5.4	2.6	72.0	8.9	94	73.5	9.3	8.1	21

Table 2.--Continued

Area, state and crop year	Spinning lots tested	Yarn strength		Yarn elongation		Yarn appearance		Yarn imperfections		Trash in fabric  Index	Color-22s bleached yarn			Color-22s dyed yarn		
		22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number		Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Yellow- ness	Com- posite
		No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.		No.	Index	R <sub>a</sub>	+b	Index	R <sub>a</sub>
<b>SOUTHEAST AREA:</b>																
<u>Alabama</u>			50s		50s		50s		50s							
1961	34	108	37	6.4	4.9	114	103	16	12	95	82.6	2.6	101	26.8	26.9	108
1962	39	108	36	6.0	4.6	106	96	28	22	91	82.7	3.1	99	28.0	26.0	102
<u>Florida</u>																
1961	3	90	30	6.1	4.5	100	90	33	22	73	82.8	3.1	100	28.0	26.0	102
1962	3	107	37	6.3	4.9	100	90	49	34	70	83.7	3.0	102	28.9	25.6	99
<u>Georgia</u>																
1961	23	101	36	5.9	4.5	112	101	18	14	91	82.4	2.7	100	27.6	26.4	104
1962	37	105	34	5.6	4.2	106	96	24	18	96	82.8	3.0	100	28.8	25.8	100
<u>North Carolina</u>																
1961	13	103	35	6.5	4.9	109	97	23	16	88	82.8	2.5	102	28.0	26.2	103
1962	18	102	34	6.2	7.1	107	98	34	24	93	83.3	2.8	102	28.1	26.2	102
<u>South Carolina</u>																
1961	18	95	33	6.0	4.5	106	97	20	16	89	82.8	2.6	102	27.6	26.7	105
1962	24	106	35	5.9	4.6	108	98	25	19	94	83.0	2.6	102	28.1	26.2	103
<u>Virginia</u>																
1961	3	116	42	6.7	5.4	120	107	17	12	93	83.1	2.4	103	27.0	26.7	107
1962	3	103	34	6.2	4.6	110	100	27	19	87	83.3	2.8	102	27.5	26.6	105
<b>SOUTH CENTRAL AREA:</b>																
<u>Arkansas</u>																
1961	68	108	41	6.4	5.0	110	97	25	18	85	82.9	2.8	101	26.7	26.5	106
1962	72	95	32	5.5	4.1	112	99	27	19	89	83.0	2.7	102	28.1	26.2	102
<u>Louisiana</u>																
1961	25	104	39	6.3	4.9	108	94	26	19	85	82.7	2.9	100	27.0	26.6	106
1962	27	104	36	5.7	4.3	117	103	21	15	92	82.9	2.7	101	27.6	26.6	105
<u>Mississippi</u>																
1961	68	109	41	6.4	5.1	116	101	21	15	87	83.1	2.7	102	26.4	26.8	108
1962	83	108	36	5.8	4.4	110	98	24	18	92	83.0	2.6	102	27.8	26.5	105
<u>Missouri</u>																
1961	24	109	41	6.5	5.0	105	93	32	22	84	82.7	3.1	90	26.5	26.6	107
1962	24	95	32	5.6	4.2	110	96	28	22	87	83.1	2.9	101	27.8	26.0	102
<u>Tennessee</u>																
1961	26	109	42	6.6	5.2	110	96	25	18	88	83.3	2.8	101	26.3	26.7	108
1962	22	98	32	5.7	4.2	104	90	29	23	93	83.3	2.8	102	28.1	26.3	103
<b>SOUTHWEST AREA:</b>																
<u>Oklahoma</u>			8s		8s		8s		8s							
1961	28	93	296	6.2	6.7	104	113	34	51	79	82.2	3.4	97	27.2	26.4	105
1962	25	85	272	5.8	6.4	108	118	34	54	86	82.4	3.5	97	27.9	25.8	102
<u>Northwest Texas</u>																
Short staple																
1961	121	93	296	6.5	6.8	97	107	40	61	84	82.3	3.0	98	27.2	25.9	103
1962	114	90	288	6.1	7.0	104	115	41	65	86	82.7	3.3	98	27.5	25.7	102
Long staple			50s		50s		50s		50s							
1961	4	128	44	5.8	4.4	112	100	23	16	94	81.6	2.9	98	27.4	26.4	104
1962	5	127	45	6.1	4.8	102	98	29	21	86	82.0	3.3	97	28.1	25.5	100

Table 2.--Cotton: Average results of classification, fiber tests, and carded yarn processing tests by state for American upland samples from selected gin points, crops of 1961 and 1962--Continued

Area, state and crop year	Spinning lots tested	Classification		Fiber length			Micro- naire	Fiber strength		Elongation 1/8"	Shirley Analyzer Total	Color of raw stock			Color cl. lint		Picker & card waste	Neps in card web
		Grade	Staple	2.5: span	50/2.5 unif.	Zero gauge		1/8" gauge	Reflect- ance			Yellow- ness	Com- posite	Reflect- ance	Yellow- ness			
																3rd in.		
SOUTHWEST AREA: (Continued)																		
<u>Central Texas</u>																		
Short staple																		
1961	15	94	30.5	.94	44	4.3	78	29.0	5.8	3.7	71.7	9.5	94	74.4	9.6	8.2	35	
1962	18	90	30.1	.93	45	4.3	82	29.4	5.6	3.2	70.2	9.8	92	73.5	10.1	8.3	25	
Medium staple																		
1961	15	100	34.1	1.07	44	4.1	77	22.2	6.8	2.3	76.2	8.6	100	78.6	8.8	6.8	26	
1962	21	94	33.5	1.05	44	4.4	84	21.7	5.5	2.7	72.2	8.8	94	75.7	9.0	7.9	24	
<u>South Texas</u>																		
1961	23	98	33.0	1.03	45	4.5	77	20.8	6.0	2.5	74.2	8.9	97	76.6	8.9	7.8	22	
1962	24	98	33.0	1.03	45	4.4	80	21.6	6.0	2.2	75.2	9.0	99	77.6	9.0	8.0	27	
WESTERN AREA:																		
<u>Arizona</u>																		
Medium staple																		
1961	35	99	34.0	1.07	43	4.6	82	23.2	5.8	2.7	77.2	8.4	101	80.0	8.4	7.2	21	
1962	37	95	33.8	1.05	44	4.7	84	22.4	5.7	2.6	74.0	8.5	97	77.4	8.7	7.5	21	
Long staple																		
1961	4	101	37.0	1.19	46	3.8	86	24.9	6.8	1.7	78.5	7.5	103	80.7	7.7	6.7	19	
1962	8	96	36.6	1.17	44	3.6	89	26.4	6.7	2.2	76.9	7.9	100	78.4	8.0	7.3	34	
<u>California</u>																		
1961	60	90	34.1	1.06	45	4.3	91	25.6	5.2	2.8	76.9	8.1	101	79.7	8.1	7.3	20	
1962	57	98	34.6	1.06	46	4.3	93	24.8	5.3	2.7	76.2	8.0	100	78.8	8.0	7.3	20	
<u>Nevada</u>																		
1961	3	101	37.0	1.19	43	3.3	84	25.2	7.0	3.2	77.9	8.0	102	79.9	8.2	7.8	29	
1962	4	101	37.2	1.17	44	3.8	90	25.2	6.2	2.2	79.7	8.2	104	79.8	8.3	7.2	18	
<u>New Mexico</u>																		
Short staple																		
1961	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	3	95	29.3	.89	46	3.8	86	22.5	6.4	3.2	75.3	8.5	99	77.6	8.8	8.4	31	
Long staple																		
1961	17	100	37.5	1.21	44	3.6	87	25.8	7.0	2.5	78.2	7.8	102	80.0	7.9	7.1	24	
1962	13	96	36.8	1.17	44	3.7	86	25.3	6.6	2.4	76.1	8.2	100	77.7	8.4	7.7	32	
<u>West Texas</u>																		
Long staple																		
1961	11	103	36.4	1.16	43	3.5	85	24.2	6.9	1.8	79.0	8.2	104	80.3	8.4	6.8	24	
1962	7	95	36.3	1.17	43	3.6	87	25.1	6.2	2.5	75.8	8.3	99	76.5	8.6	8.0	33	

Table 2.--Continued

Area, state and crop year	Spinning lots tested	Yarn strength		Yarn elongation		Yarn appearance		Yarn imprfctns		Trash in fabric	Color-22s bleached yarn			Color-22s dyed yarn		
		22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number		Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Blue- ness	Com- posite
		lts.	lbs.	lbs.	pct.	pct.	Index	Index	No.		No.	Index	Rd	+b	Index	Rd
SOUTHWEST AREA (Continued)																
<u>Central Texas</u>																
<u>Short staple</u>																
1961	15	86	8s 277	5.8	6.4	99	110	44	67	75	81.7	3.2	97	28.1	25.8	101
1962	18	89	280	5.7	6.5	107	117	33	51	87	82.8	3.2	99	27.7	26.2	104
<u>Medium staple</u>																
1961	15	107	50s 40	6.5	5.1	109	95	24	18	87	82.4	3.0	99	26.8	26.4	106
1962	21	99	34	5.6	4.4	114	100	23	17	92	82.9	2.9	100	28.1	26.3	103
<u>South Texas</u>																
1961	23	99	35	6.0	4.6	117	101	22	16	87	82.4	3.0	99	26.8	26.4	106
1962	24	99	34	6.0	4.6	108	96	26	19	95	82.8	2.8	101	26.6	26.6	107
WESTERN AREA																
<u>Arizona</u>																
<u>Medium staple</u>																
1961	35	106	39	5.9	4.6	109	95	29	20	84	82.3	2.7	100	27.0	26.8	107
1962	37	99	34	5.5	4.2	111	100	29	21	91	83.0	2.5	102	27.8	26.5	104
<u>Long staple</u>																
1961	4	140	52	7.2	5.6	108	95	23	16	95	83.0	2.5	102	27.6	25.7	101
1962	8	142	53	6.5	5.4	99	89	39	28	88	84.2	2.6	105	28.1	25.8	101
<u>California</u>																
1961	69	122	47	5.9	4.6	108	96	28	19	84	82.3	2.7	100	27.0	26.8	107
1962	57	118	44	5.7	4.5	111	98	28	20	92	82.8	2.7	101	27.3	26.2	104
<u>Nevada</u>																
1961	3	135	52	6.7	5.5	93	77	47	35	87	83.6	2.8	102	26.1	25.9	105
1962	4	140	52	6.6	5.2	108	98	22	17	98	84.0	2.6	104	27.1	26.5	106
<u>New Mexico</u>																
<u>Short staple</u>																
1961	-	-	8s	-	-	-	8s	-	8s	-	-	-	-	-	-	-
1962	3	96	308	5.8	6.5	100	113	36	57	83	83.4	2.9	102	27.7	25.7	101
<u>Long staple</u>																
1961	17	148	50s 56	6.9	5.6	103	94	31	23	91	82.6	2.7	101	27.1	26.2	104
1962	13	138	51	6.6	5.5	98	88	40	29	85	83.7	2.8	103	27.5	25.9	103
<u>West Texas</u>																
1961	11	137	51	7.0	5.5	103	94	24	18	87	83.6	2.8	102	26.1	25.9	105
1962	7	132	49	6.4	5.1	97	89	36	27	80	82.9	2.8	101	27.4	25.9	103

Table 3.--Cotton: Average results of fiber and carded yarn processing tests by grade and staple combinations for American upland samples from selected gin points, crop of 1962

Staple group, area, staple and grade	Spinning lots tested	Fiber length		Micro- naire	Fiber strength		Elong- ation 1/3"	Shirley Analyzer	Color of raw stock			Color cl. lint		Picker & card waste	Neps in card web	
		2.5% span	50/2.5 unif.		Zero gauge	1/8" gauge			Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Yellow- ness			
		No.	In.		Pct.	Rdg.		Hpsi						G/tex	Pct.	Pct.
<b>SHORT STAPLE GROUP</b>																
<u>Southwest Area</u>																
29/32" staple:																
Mltsp	6	0.90	45	4.0	80	19.9	6.2	3.0	72.3	9.6	95	75.0	9.6	7.9	28	
SIM	4	.87	46	3.9	82	21.6	6.5	2.8	73.8	8.6	97	76.9	8.6	7.7	30	
SIMltsp	8	.88	45	3.3	79	21.7	6.8	3.9	72.0	9.5	95	74.9	9.6	8.8	31	
15/16" staple:																
Mltsp	37	.93	45	4.0	78	19.7	6.2	2.7	73.1	9.4	96	75.5	9.4	7.8	33	
SIM	4	.88	47	3.8	82	22.6	6.7	3.5	74.0	8.3	97	77.6	8.6	7.8	34	
SIMltsp	47	.92	45	3.9	78	20.3	6.3	3.5	70.6	9.4	92	73.8	9.5	8.6	31	
31/32" staple:																
Mltsp	11	.96	45	4.0	74	19.4	7.0	2.7	73.6	9.2	97	75.9	9.2	7.7	32	
SIMltsp	12	.96	45	4.2	79	19.9	6.1	3.4	70.3	9.4	91	73.2	9.6	8.4	32	
LMltsp	4	.98	45	4.0	80	20.4	6.1	4.8	67.2	9.6	86	71.5	10.0	9.8	32	
1" staple:																
SIMltsp	4	1.01	45	4.6	79	20.4	6.1	3.2	70.0	9.4	90	72.4	9.6	8.4	26	
<b>MEDIUM STAPLE GROUP</b>																
<u>Southeast Area</u>																
1-1/32" staple:																
SM	10	1.02	45	4.4	84	21.6	6.3	1.4	76.9	9.0	102	78.0	9.0	7.3	28	
M	27	1.02	45	4.4	81	21.0	5.1	1.9	75.4	8.9	100	76.3	9.0	7.7	26	
SIM	21	1.02	44	4.2	80	20.4	6.2	2.5	73.7	8.3	96	75.8	8.6	7.7	33	
1-1/16" staple:																
SM	6	1.04	47	4.5	84	21.5	6.2	1.6	77.3	8.8	102	77.5	8.7	6.4	24	
M	25	1.05	46	4.4	82	22.0	6.2	1.8	75.7	8.9	100	76.8	9.0	7.3	25	
Mltsp	6	1.04	45	4.2	81	20.8	6.4	3.0	73.5	9.0	97	74.6	9.1	7.7	26	
SIM	14	1.05	44	4.2	79	20.6	6.4	2.3	73.1	8.4	96	74.7	8.7	8.0	33	
<u>South Central Area</u>																
1-1/32" staple:																
M	7	1.01	44	4.5	84	20.2	5.7	1.7	75.7	8.8	100	77.1	8.9	7.1	24	
SIM	7	1.01	43	4.0	83	20.3	5.2	2.9	71.8	8.5	93	74.8	8.7	7.9	30	
SIMltsp	8	1.01	43	4.3	81	19.8	5.4	3.1	69.0	8.9	89	72.4	9.0	8.6	22	
1-1/16" staple:																
SM	6	1.05	46	4.8	88	23.3	6.1	1.4	77.9	9.0	103	79.5	8.9	6.8	16	
M	51	1.05	44	4.5	84	21.4	6.1	1.9	75.6	8.8	100	77.3	8.9	7.4	26	
Mltsp	6	1.06	43	4.4	84	20.9	5.6	2.6	72.4	9.2	95	74.7	9.3	8.1	30	
SIM	60	1.05	44	4.4	83	21.5	5.8	2.8	72.8	8.5	95	75.5	8.7	8.0	27	
SIMltsp	11	1.06	43	4.3	81	20.7	5.8	3.3	70.6	8.9	92	73.5	9.1	9.0	26	
LM	7	1.05	45	4.5	86	20.9	4.8	4.3	69.1	8.4	89	73.1	8.8	9.1	20	

Table 3.--Continued

Staple group, area, staple and grade	Spinning lots tested	Yarn strength		Yarn elongation		Yarn appearance		Yarn Imperfectns		Trash in fabric	Color-22s bleached yarn			Color-22s dyed yarn		
		22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number		Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Blue- ness	Com- posite
		No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.		No.	Index	R <sub>a</sub>	+b	Index	R <sub>a</sub>
SHORT STAPLE GROUP																
<u>Southwest Area</u>																
29/32" staple:			8s		8s		8s		8s							
Mltsp	6	86	279	5.7	6.6	105	115	39	50	90	82.7	3.2	99	27.0	26.2	105
SIM	4	94	301	6.2	6.8	110	120	32	52	85	82.2	3.0	98	28.1	25.7	101
SIMltsp	8	95	306	6.4	7.0	104	115	44	72	76	83.4	3.1	100	27.2	25.4	101
15/16" staple:																
Mltsp	37	86	276	5.9	6.6	104	115	37	58	90	82.7	3.2	99	27.5	25.9	103
SIM	4	98	310	6.1	6.8	108	118	41	63	80	83.0	3.0	100	27.2	26.1	104
SIMltsp	47	88	283	6.0	6.7	104	116	41	66	83	82.6	3.4	98	27.7	25.7	101
31/32" staple:																
Mltsp	11	88	283	6.3	7.2	106	116	36	58	92	83.0	3.1	100	27.7	26.0	103
SIMltsp	12	87	276	5.8	6.6	106	114	37	58	86	82.5	3.6	97	28.0	25.6	100
IMltsp	4	91	286	6.1	6.8	102	115	48	72	78	82.3	3.8	96	27.5	26.2	104
1" staple:																
SIMltsp	4	90	286	5.6	6.6	108	118	36	54	85	82.4	3.4	98	27.2	26.1	104
MEDIUM STAPLE GROUP																
<u>Southeast Area</u>																
1-1/32" staple:			50s		50s		50s		50s							
SM	10	108	36	6.0	4.6	108	100	21	16	101	82.8	2.9	100	26.8	26.6	107
M	27	103	33	5.8	4.3	108	97	23	18	96	82.6	2.9	100	28.3	26.1	102
SIM	21	100	32	5.8	4.4	106	96	28	22	90	83.3	3.0	101	29.7	25.4	96
1-1/16" staple:																
SM	6	115	40	6.2	4.8	110	100	17	13	98	83.2	2.7	102	26.3	27.1	110
M	25	111	38	5.9	4.7	108	100	24	18	96	82.7	2.8	101	27.1	26.4	105
Mltsp	6	105	35	6.1	4.5	105	95	31	22	90	82.7	3.7	97	28.0	26.0	102
SIM	14	104	36	6.0	4.6	103	94	31	24	86	83.3	2.9	102	29.4	25.5	97
<u>South Central Area</u>																
1-1/32" staple:																
M	7	97	31	5.5	4.1	110	93	19	14	100	82.8	2.8	101	28.3	26.2	102
SIM	7	88	28	5.3	3.7	106	94	30	23	89	83.0	2.9	101	29.2	25.4	97
SIMltsp	8	84	26	5.0	3.5	112	96	27	20	91	83.1	2.8	102	28.8	25.8	100
1-1/16" staple:																
SM	6	113	38	6.1	4.8	118	108	14	11	102	82.6	2.4	102	25.4	27.6	114
M	51	104	34	5.8	4.3	111	98	23	18	96	82.9	2.6	102	27.5	26.7	106
Mltsp	6	96	31	5.4	4.0	108	90	31	24	88	83.0	2.9	101	28.2	26.1	102
SIM	60	101	34	5.7	4.3	110	97	27	20	88	83.1	2.7	102	28.0	26.2	103
SIMltsp	11	94	31	5.5	4.2	111	94	28	20	87	83.0	2.7	102	28.3	26.2	102
IM	7	94	31	5.3	3.9	113	101	30	20	84	82.7	2.9	100	28.6	26.3	102

Table 3.--Cotton: Average results of fiber and carded yarn processing tests by grade and staple combinations for American upland samples from selected gin points, crop of 1962  
(Continued)

Staple group, area, staple and grade	Spinning lots tested	Fiber length		Micro- naire	Fiber strength		Elong- ation 1/8"	Shirley Analyzer	Color of raw stock			Color cl. lint		Picker & card waste	Neps in card web
		2.5% span	50/2.5 Unif.		Zero gauge	1/8" gauge			Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Yellow- ness		
		No.	In.		Pct.	Rdg.		Mpsi							
<b>MEDIUM STAPLE GROUP</b>															
<u>South Central Area</u> (Continued)															
1-3/32" staple:															
M	10	1.08	46	4.6	84	22.2	6.0	2.2	76.6	8.5	101	78.5	8.5	7.5	23
SLM	26	1.10	44	4.4	82	21.8	6.0	2.9	73.8	8.2	97	76.4	8.4	8.0	25
SLMtsp	6	1.08	44	4.3	84	21.5	5.4	3.2	69.9	8.8	90	72.8	9.1	8.3	22
1-1/8" staple:															
M	6	1.12	46	4.6	85	23.3	6.4	2.1	77.2	8.6	102	78.5	8.8	7.4	25
<u>Southwest Area</u>															
1-1/32" staple:															
M	12	1.02	45	4.4	81	21.9	6.0	1.9	76.2	9.0	101	78.4	9.0	7.7	24
SLM	4	1.02	46	4.3	77	21.1	6.3	2.5	74.4	9.0	98	77.4	8.9	8.9	32
1-1/16" staple:															
M	6	1.07	45	4.7	82	22.4	6.3	1.6	75.0	9.0	99	77.6	9.2	7.0	24
SLM	7	1.07	45	4.3	82	21.7	5.8	3.0	72.7	8.7	95	76.3	9.0	8.1	27
<u>Western Area</u>															
1-1/16" staple:															
M	13	1.05	45	4.8	88	23.4	5.5	2.1	76.6	8.2	101	79.3	8.3	6.8	16
MLtsp	6	1.06	44	5.0	84	22.9	5.6	2.4	73.4	9.4	97	75.8	9.7	7.5	19
SLM	28	1.05	44	4.2	88	23.1	5.4	3.0	74.5	8.0	98	77.8	8.2	7.8	26
1-3/32" staple:															
M	25	1.07	47	4.5	94	25.3	5.2	2.3	77.1	8.1	101	79.3	8.0	6.9	15
SLM	10	1.08	47	4.4	91	24.8	5.4	3.4	74.8	7.9	98	78.0	8.1	7.9	17
<b>LONG STAPLE GROUP</b>															
<u>Western Area</u>															
1-1/8" staple:															
SLM	7	1.15	43	3.2	87	25.4	6.3	2.8	76.8	7.7	100	78.1	8.1	8.7	46
1-5/32" staple:															
M	10	1.17	44	3.8	86	25.2	6.5	1.9	77.9	8.2	102	78.7	8.4	7.0	28
SLM	10	1.17	44	3.9	87	25.6	6.6	2.3	74.8	8.2	98	77.0	8.4	7.5	29



Staple group, area, staple and grade	Spinning lots tested	Yarn strength		Yarn elongation		Yarn appearance		Yarn imperfections		Trash in fabric	Color-22s bleached yarn			Color-22s dyed yarn		
		22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number		Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Blue- ness	Com- posite
		<u>No.</u>	<u>Lbs.</u>	<u>Lbs.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Index</u>	<u>Index</u>	<u>No.</u>		<u>No.</u>	<u>Index</u>	<u>R<sub>d</sub></u>	<u>+b</u>	<u>Index</u>	<u>R<sub>d</sub></u>
<b>MEDIUM STAPLE GROUP</b>																
<u>South Central Area</u> (Continued)																
1-3/32" staple:																
M	10	110	38	6.0	4.7	113	99	22	16	92	83.4	2.6	103	27.0	26.6	107
SIM	26	105	36	5.9	4.6	112	101	26	19	86	83.4	2.5	103	27.9	26.4	104
SIMltsp	6	100	34	5.6	4.3	110	100	30	19	88	82.8	2.8	101	28.3	25.8	100
1-1/8" staple:																
M	6	122	44	6.3	5.1	112	97	22	18	93	82.6	2.6	101	26.0	27.0	110
<u>Southwest Area</u>																
1-1/32" staple:																
M	12	99	34	6.0	4.6	110	98	24	18	97	82.9	2.8	101	26.7	26.6	107
SIM	4	98	34	6.2	4.8	105	90	31	24	88	83.1	2.8	102	26.7	26.4	106
1-1/16" staple:																
M	6	101	35	5.9	4.6	113	98	20	15	97	83.2	2.7	102	27.2	26.7	106
SIM	7	100	35	5.9	4.6	110	99	26	19	91	82.6	2.9	100	27.3	26.6	106
<u>Western Area</u>																
1-1/16" staple:																
M	13	105	37	5.4	4.2	114	102	24	17	94	83.2	2.4	103	27.5	26.5	105
Mltsp	6	100	34	5.6	4.2	115	103	26	18	93	82.5	2.5	101	27.5	26.5	105
SIM	28	105	37	5.5	4.3	107	95	33	24	89	82.9	2.7	101	28.0	26.1	102
1-3/32" staple:																
M	25	124	47	5.8	4.7	115	102	24	15	94	83.0	2.6	102	27.1	26.3	105
SIM	10	121	46	5.9	4.7	114	100	27	18	92	83.1	2.9	101	27.1	26.2	104
<b>LONG STAPLE GROUP</b>																
<u>Western Area</u>																
1-1/8" staple:																
SIM	7	136	50	6.4	5.4	90	82	51	37	81	83.3	2.9	102	28.2	25.4	99
1-5/32" staple:																
M	10	139	51	6.6	5.4	102	92	30	23	91	84.0	2.6	104	27.1	26.3	105
SIM	10	137	51	6.5	5.3	101	91	34	24	84	83.8	2.8	103	27.6	25.9	102

Table 4.--Cotton: Average of classification, fiber tests, and carded yarn processing tests by variety for American upland samples from selected 100 percent one-variety gin points, crop of 1962

Processing group, variety, and state	Spinning lots tested	Classification		Fiber length		Micro- naire	Fiber strength		Elong- ation 1/8"	Shirley Analyzer	Color of raw stock			Color cl. lint		Picker & card waste	Neps in card web
		Grade	Staple	2.5% span	50/2.5 unif.		Zero gauge	1/8" gauge			Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Yellow- ness		
										Total						R <sub>a</sub>	+b
<b>SHORT STAPLE</b>																	
<u>Gregg</u> Northwest Texas	3	92	29.3	.88	46	4.0	83	22.3	6.3	3.0	73.4	9.0	97	76.5	8.9	7.7	32
<u>Lankart 57</u> Central Texas	6	96	29.7	.91	44	3.8	83	20.2	5.8	3.3	72.9	10.1	97	75.9	10.3	8.5	38
Northwest Texas	3	94	30.0	.93	44	3.5	64	17.7	8.8	3.3	73.0	9.2	96	75.8	9.2	8.6	31
<u>Lankart 611</u> Northwest Texas	3	94	30.3	.95	43	3.6	72	18.9	7.7	3.1	72.7	9.0	96	75.8	8.9	8.3	38
<u>Paymaster 101</u> Northwest Texas	3	92	29.7	.91	46	4.1	83	21.9	6.2	3.9	71.5	9.1	93	74.7	9.2	8.8	26
<u>Watson B-29</u> Central Texas	3	86	30.0	.93	47	4.3	88	22.4	5.3	3.6	68.6	9.2	89	73.3	9.6	9.0	21
<b>MEDIUM STAPLE</b>																	
<u>Acala 4-42</u> California	48	98	34.7	1.06	47	4.3	94	25.2	5.2	2.7	76.4	8.0	100	78.9	8.0	7.3	18
<u>All-in-One</u> South Carolina	3	99	33.3	1.03	45	4.5	79	21.4	6.8	1.8	75.1	8.9	99	77.3	8.7	7.2	34
<u>Auburn 56</u> Alabama	6	95	33.0	1.01	45	3.9	82	21.1	6.3	2.7	74.8	8.6	98	76.7	8.8	8.0	32
Missouri	3	92	33.0	1.00	45	4.3	80	20.4	5.7	3.2	68.5	9.2	88	71.6	9.4	8.9	21
<u>Carolina Queen</u> North Carolina	3	103	34.0	1.04	46	4.7	81	21.9	6.7	1.4	77.3	8.6	102	78.1	8.6	6.6	22
<u>Coker 100</u> Alabama	3	96	33.7	1.05	44	4.2	79	22.1	6.5	2.3	73.7	8.4	97	75.3	8.7	7.7	41
Georgia	3	99	33.7	1.05	44	4.5	81	21.7	6.6	1.8	74.9	8.6	99	76.2	8.9	7.3	22
North Carolina	3	103	33.0	1.02	44	4.3	78	21.1	7.4	1.3	76.9	8.7	101	77.5	8.7	6.7	36
South Carolina	9	98	34.1	1.06	45	4.6	79	21.1	6.6	2.1	75.0	8.6	98	76.4	8.7	7.4	25
<u>Dekalb</u> Alabama	3	96	33.7	1.06	45	4.1	79	21.7	6.7	2.6	73.4	8.9	96	75.5	9.2	8.4	27
<u>Dekalb 108</u> Georgia	3	97	33.7	1.03	46	4.6	81	21.5	6.3	2.7	74.2	8.9	98	76.6	8.9	7.7	25
<u>Delfos 9169</u> Arkansas	6	92	34.8	1.11	42	3.8	81	21.2	5.7	3.0	71.9	8.6	94	74.7	8.8	8.1	28

Table 4.--Continued

Processing group, variety, and state	Spinning lots tested	Yarn strength		Yarn elongation		Yarn appearance		Yarn imprfctns		Trash in fabric Index	Color-22s bleached yarn			Color-22s dyed yarn		
		22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number		Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Blue- ness	Com- posite
		No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.		No.	Index	Rd	+b	Index	Rd
<b>SHORT STAPLE</b>																
<u>Gregg</u> Northwest Texas	3	98	8s 313	6.0	8s 6.9	110	83 120	37	8s 60	80	83.1	3.2	100	27.8	25.4	100
<u>Lankart 57</u> Central Texas	6	87	279	5.7	6.6	98	110	41	64	88	82.6	3.2	98	27.3	26.4	105
Northwest Texas	3	80	261	7.3	8.2	100	110	46	76	80	83.8	3.3	101	27.9	25.8	102
<u>Lankart 611</u> Northwest Texas	3	85	276	6.6	7.5	100	113	47	81	77	83.0	3.4	99	28.5	25.7	100
<u>Paymaster 101</u> Northwest Texas	3	97	310	5.9	6.7	103	120	36	60	87	83.0	3.2	99	27.4	25.9	103
<u>Watson B-29</u> Central Texas	3	99	297	5.5	6.4	113	120	25	40	90	82.5	3.4	98	27.2	26.5	105
<b>MEDIUM STAPLE</b>																
<u>Acala 4-42</u> California	48	123	50s 46	5.7	50s 4.6	112	50s 100	27	50s 18	93	82.9	2.7	101	27.2	26.2	104
<u>All-in-One</u> South Carolina	3	106	36	6.3	4.7	103	93	27	22	100	83.4	2.9	102	28.4	26.3	102
<u>Auburn 56</u> Alabama	3	106	34	6.1	4.7	107	95	27	21	90	83.3	3.0	101	28.4	25.8	100
Missouri	3	90	30	5.5	4.1	113	100	26	19	90	83.3	2.9	102	27.7	26.1	103
<u>Carolina Queen</u> North Carolina	3	112	42	6.2	4.8	110	100	19	12	100	82.9	2.8	101	26.4	26.9	109
<u>Coker 100</u> Alabama	3	107	36	6.1	4.7	103	93	40	30	83	83.1	2.9	101	29.0	25.6	98
Georgia	3	109	37	6.0	4.7	110	100	20	14	103	82.8	3.3	99	28.4	26.1	102
North Carolina	3	108	37	6.6	5.1	103	97	25	22	97	82.7	3.4	98	27.1	26.3	105
South Carolina	9	109	38	5.9	4.9	109	100	25	18	93	83.1	2.6	102	27.7	26.5	105
<u>Dekalb</u> Alabama	3	109	38	6.2	4.9	103	97	33	24	83	83.2	3.0	101	27.5	26.1	103
<u>Dekalb 108</u> Georgia	3	107	35	5.7	4.4	103	97	24	18	97	83.0	3.2	100	27.6	26.3	104
<u>Delfos 9169</u> Arkansas	6	102	36	5.9	4.6	110	98	28	22	85	83.7	2.8	103	28.6	25.8	100

Table 4.--Cotton: Average of classification, fiber tests, and carded yarn processing tests by variety for American upland samples from selected 100 percent one-variety gin points, crop of 1962--Continued

Processing group, variety, and state	Spinning lots tested	Classification		Fiber length		Micro- naire	Fiber strength		Elong- ation 1/8"	Shirley Analyzer  Total	Color of raw stock			Color cl. lint		Picker & card waste	Neps in card web	
		Grade	Staple	2.5% span	50/2.5 unif.		Zero gauge	1/8" gauge			Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Yellow- ness			
																		No.
<b>MEDIUM STAPLE (Cont'd)</b>																		
<u>Delta Queen</u> Mississippi	3	94	34.0	1.07	42	3.9	82	21.9	6.4	2.6	73.4	8.5	96	75.3	8.8	8.5	50	
<u>Deltapine 15</u> Mississippi	11	95	33.9	1.05	45	4.6	86	22.2	6.2	2.9	74.1	8.8	98	75.8	9.2	8.5	22	
<u>DPL Smooth Leaf</u> Arkansas	12	95	34.3	1.06	45	4.6	82	22.2	6.2	2.4	73.6	8.2	96	76.7	8.3	7.7	22	
Louisiana	3	98	34.7	1.09	46	4.8	87	24.0	5.9	2.2	76.4	8.0	100	79.0	8.2	6.9	15	
Mississippi	15	97	34.8	1.09	44	4.5	83	22.6	6.9	2.3	76.4	8.2	100	78.2	8.3	7.7	28	
Tennessee	3	98	34.0	1.08	43	4.5	78	21.5	7.5	2.1	74.6	8.5	98	75.8	8.6	8.2	36	
Arizona	24	96	33.8	1.06	44	4.7	83	22.6	6.0	2.6	74.2	8.5	97	77.6	8.6	7.4	22	
California	9	97	33.8	1.05	42	4.4	87	22.7	5.6	2.4	75.2	7.9	98	78.6	8.1	7.1	31	
<u>Dixie King</u> Alabama	6	99	33.8	1.05	45	4.2	84	21.6	5.8	1.7	76.0	8.7	100	76.9	8.8	7.2	32	
Georgia	5	97	33.4	1.03	45	4.4	83	21.1	5.4	2.2	73.8	9.0	97	75.5	9.1	8.0	41	
Arkansas	3	93	35.0	1.07	45	4.4	87	21.4	4.3	4.3	72.8	8.2	95	75.7	8.5	8.9	14	
Mississippi	3	97	34.0	1.03	44	4.7	97	20.9	4.9	2.6	72.1	9.0	94	73.6	9.4	8.2	33	
<u>Empire</u> Georgia	3	98	33.7	1.05	46	4.3	85	21.4	5.8	2.5	74.9	8.8	99	77.2	8.9	7.0	24	
<u>Empire WR</u> Arkansas	3	96	33.7	1.04	45	4.2	86	20.6	4.4	2.3	72.2	8.6	94	74.7	8.6	7.8	27	
<u>Fox 4</u> Mississippi	4	92	34.0	1.06	46	5.1	87	23.0	5.4	3.1	71.4	8.6	93	73.1	9.0	8.8	24	
<u>Rex</u> North Carolina	3	93	33.3	1.03	42	4.0	72	19.1	6.3	2.2	73.1	8.4	95	75.3	8.6	8.2	28	
Arkansas	12	89	33.7	1.04	43	4.2	82	19.6	4.6	3.8	69.7	8.8	90	73.8	9.0	8.4	23	
Missouri	3	91	33.7	1.03	42	3.8	83	19.8	5.2	3.4	71.9	8.2	93	75.6	8.6	9.1	35	
<u>Stardel</u> Louisiana	3	91	34.0	1.08	45	4.6	97	24.8	4.4	3.7	72.4	8.5	95	76.3	8.9	8.3	18	
<u>Stoneville 7</u> Arkansas	3	89	35.0	1.08	45	4.5	86	21.5	4.9	3.5	68.9	8.9	89	72.4	9.3	8.6	19	
Mississippi	4	92	35.5	1.10	46	5.0	84	21.5	5.8	4.6	73.5	8.4	96	76.4	9.0	9.2	11	
<u>Stoneville 7A</u> Mississippi	3	98	34.0	1.05	45	4.8	84	19.9	5.8	2.2	74.5	8.6	98	76.6	8.8	7.7	28	
Arizona	4	92	33.8	1.05	43	4.7	88	21.6	4.2	3.2	74.2	8.6	97	77.0	9.0	8.1	21	

Table 4.--Continued

Processing group, variety, and state	Spinning lots tested	Yarn strength		Yarn elongation		Yarn appearance		Yarn imprfctns		Trash in fabric	Color-22s bleached yarn			Color-22s dyed yarn		
		22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number	22s or 26.8 tex	Second number		Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Blue- ness	Com- posite
		No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.		No.	Index	R <sub>d</sub>	+b	Index	R <sub>d</sub>
<u>MEDIUM STAPLE (Cont'd)</u>																
<u>Delta Queen</u> Mississippi	3	108	50s 37	6.1	50s 4.5	100	90	41	32	80	84.1	2.7	104	28.8	26.1	101
<u>Deltapine 15</u> Mississippi	11	108	35	5.6	4.2	114	100	22	16	89	82.4	2.7	100	27.8	26.4	104
<u>DPL Smooth Leaf</u>																
Arkansas	12	102	34	6.0	4.5	112	100	23	18	89	82.9	2.5	102	27.0	26.8	107
Louisiana	3	112	41	6.2	4.8	117	103	25	19	87	83.5	2.4	104	27.2	26.8	107
Mississippi	15	115	40	6.3	4.9	109	99	24	18	89	83.3	2.4	104	27.2	26.8	107
Tennessee	3	102	35	6.2	4.8	103	90	28	25	93	83.7	2.3	105	26.5	26.9	109
Arizona	24	100	34	5.7	4.3	111	100	27	20	92	83.0	2.5	102	27.7	26.5	105
California	9	96	31	5.3	3.9	107	91	37	28	87	82.5	2.6	101	28.3	26.2	102
<u>Dixie King</u>																
Alabama	6	112	38	6.0	4.5	105	97	24	20	95	83.2	2.9	101	28.2	26.0	102
Georgia	5	102	33	5.6	4.1	100	88	27	21	96	82.7	3.3	99	29.5	25.5	97
Arkansas	3	99	34	5.2	4.0	120	103	27	15	87	82.8	2.6	102	28.7	25.6	99
Mississippi	3	96	29	4.7	3.3	107	90	36	27	87	82.9	2.6	102	29.4	25.6	98
<u>Empire</u>																
Georgia	3	107	36	5.8	4.3	103	100	24	16	93	83.0	3.2	99	27.7	26.0	103
<u>Empire WR</u> Arkansas	3	94	31	5.4	3.9	110	97	24	20	97	82.6	3.0	99	28.1	26.2	103
<u>Fox 4</u> Mississippi	4	111	36	5.5	4.1	110	100	28	20	82	82.3	3.0	99	28.0	26.2	103
<u>Rex</u>																
North Carolina	3	92	29	6.2	4.5	107	97	27	19	87	83.8	2.6	104	28.5	26.0	101
Arkansas	12	86	28	5.2	3.7	113	100	29	22	90	82.7	3.0	100	28.4	26.1	102
Missouri	3	90	30	5.2	4.0	107	93	33	25	90	83.0	2.8	101	28.2	26.0	102
<u>Stardel</u> Louisiana	3	109	38	5.2	4.1	113	100	26	18	87	83.2	2.7	102	28.7	25.8	100
<u>Stoneville 7</u>																
Arkansas	3	98	34	5.3	4.1	113	103	32	19	90	82.3	2.9	99	28.4	25.7	100
Mississippi	4	109	36	5.5	4.3	120	110	18	11	90	83.2	2.6	103	29.0	26.2	101
<u>Stoneville 7A</u>																
Mississippi	3	93	29	5.0	3.6	110	87	21	15	103	83.0	2.4	103	27.8	26.7	105
Arizona	4	95	32	4.8	3.7	108	98	38	26	90	82.8	2.5	102	28.5	26.2	102

Table 5.--Cotton: Fiber test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results														Color of cleaned lint	
		Digital Fibrograph		Micro- naire	Fiber strength			Elongation 1/8"	Shirley Analyzer		Color of raw stock			Reflect- ance	Yellow- ness		
		Grade	Staple		2.5% span length	50/2.5 unif.	Zero gauge		1/8" gauge		Visible waste	Total waste	Reflect- ance			Yellow- ness	Composite
				3rd in.	In.	Pct.		Rdg.	Mpsi	G/tex				G/tex	Pct.		Pct.
NEW MEXICO		GREGG														98 PERCENT	
PORTALES																	
SLM	30	.88	47	4.0	88	43.6	22.5	6.2	2.2	3.4	74.5	8.2	98	602	76.9	8.7	
SLM	29	.90	46	3.8	86	42.6	22.6	6.2	2.2	3.4	76.5	8.2	100	552	78.4	8.4	
M LT SP	29	.88	46	3.6	83	41.1	22.4	6.7	1.4	2.9	74.8	9.0	99	552	77.6	9.2	
OKLAHOMA		NORTHERN STAR														70 PERCENT	
ALTUS																	
M LT SP	30	.94	45	5.0	86	42.6	20.9	5.1	1.1	2.6	72.5	9.4	96	553	74.8	9.6	
M LT SP	32	1.00	45	4.4	76	37.6	20.0	6.0	1.6	3.3	73.3	9.4	97	553	76.0	9.1	
SLM LT SP	30	.94	43	4.2	79	39.1	19.2	5.8	1.2	2.4	69.8	9.3	90	553	72.8	9.6	
COUNCIL HILL		STONEVILLE 62														90 PERCENT	
LM	32	1.00	44	3.6	82	40.6	19.4	4.0	2.5	3.9	68.8	9.5	89	653	73.8	9.5	
SLM LT SP	30	.92	44	4.1	85	42.1	19.5	4.2	1.4	2.6	71.6	9.0	94	603	75.0	9.0	
M LT SP	30	.91	46	4.8	82	40.6	19.2	4.6	1.3	2.4	72.3	8.8	95	603	74.2	9.2	
SLM LT SP	30	.94	43	4.5	57	43.1	21.7	4.6	1.9	3.4	68.5	6.8	88	653	71.8	9.3	
DILL CITY		LANKART 57														80 PERCENT	
LM LT SP	31	.99	44	3.4	83	41.1	20.7	6.0	2.8	4.2	68.1	10.0	88	654	71.5	10.2	
SLM LT SP	31	.97	44	4.2	81	40.1	20.2	6.2	2.0	3.4	70.2	9.8	92	603	73.2	9.7	
SLM LT SP	31	.98	45	4.3	80	39.6	20.1	6.2	2.4	3.9	71.6	9.4	94	603	73.6	9.6	
LEEDY		LANKART 611														90 PERCENT	
SLM LT SP	31	.93	45	4.0	81	40.1	20.6	5.8	2.7	4.2	69.9	9.1	90	653	74.1	9.1	
M LT SP	31	.96	46	4.1	77	38.1	20.0	7.2	2.1	3.1	72.9	9.2	96	603	75.9	9.1	
SLM LT SP	30	.94	45	3.9	75	37.1	19.4	7.0	2.4	4.0	69.2	9.6	90	653	72.3	9.8	
MANGUM		LANKART 57														95 PERCENT	
SLM LT SP	31	.96	46	4.2	83	41.1	20.5	6.0	1.8	3.2	69.2	9.6	90	653	72.3	9.8	
SLM LT SP	31	.98	45	4.4	76	37.6	19.7	6.6	2.4	3.9	59.8	9.4	90	653	72.2	9.9	
SLM LT SP	30	.93	45	4.8	75	37.1	18.8	7.3	1.7	3.0	70.2	9.3	91	603	73.8	9.4	
MINCO		LANKART 57														78 PERCENT	
SLM LT SP	31	.96	43	3.9	80	39.6	19.5	5.8	2.9	4.5	70.9	9.5	92	603	73.9	9.8	
SLM LT SP	30	.94	45	4.7	80	39.6	19.9	5.9	2.0	3.4	69.8	9.3	90	653	73.5	9.5	
SLM LT SP	30	.94	47	5.0	75	37.1	18.7	6.6	1.8	2.9	68.1	9.2	88	653	71.8	9.2	
TEMPLE		MIXED MOSTLY PARROTT														85 PERCENT	
M LT SP	30	.88	46	4.8	87	43.1	19.5	4.3	1.2	1.9	72.0	9.9	95	553	75.2	10.1	
SLM LT SP	30	.91	45	5.0	79	39.1	20.1	6.1	1.5	2.8	69.1	9.9	90	604	71.6	10.2	
SLM LT SP	30	.92	45	4.6	76	37.6	19.3	5.8	1.5	3.1	67.9	9.4	87	653	70.3	9.6	
TIPTON		LANKART 57														85 PERCENT	
SLM LT SP	30	.94	45	4.2	74	36.6	19.2	6.6	1.5	2.4	70.2	9.4	92	603	72.9	9.7	
SLM LT SP	31	.98	43	4.0	72	35.6	18.8	6.9	1.5	2.3	70.4	9.5	92	603	73.0	9.6	
SLM LT SP	30	.94	45	4.4	69	34.2	18.8	7.7	1.9	3.0	70.1	8.9	91	653	72.0	9.3	
TEXAS		LANKART 57														80 PERCENT	
ABERNATHY																	
M LT SP	30	.93	45	4.4	71	35.1	17.6	7.7	1.9	3.1	74.2	9.0	98	552	76.4	9.0	
M LT SP	30	.91	44	3.8	69	34.2	18.9	7.4	2.2	3.7	72.9	9.3	96	553	75.1	9.4	
SLM LT SP	30	.94	41	3.2	68	33.7	18.1	7.7	2.5	4.6	73.1	9.3	96	553	76.0	9.1	

Table 5a.--Cotton: Carded yarn processing test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																							
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imperfections		Spin. potential	Trash in fabric	Color-22s grey yarn			Color-22s blchd. yarn			Color-22s dyed yarn			
				8s or 73.8tex	22s or 26.8tex	Average brk.fctr.	8s or 73.8tex	22s or 26.8tex	8s or 73.8tex	22s or 26.8tex	Average	8s or 73.8tex	22s or 26.8tex			No.	No.	No.	Index	R <sub>1</sub>	+b	Index	R <sub>1</sub>	+b	Index
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	R <sub>1</sub>	+b	Index	R <sub>1</sub>	+b	Index	R <sub>1</sub>	-b	Index
NEW MEXICO		GREGG																							
PORTALES		98 PERCENT																							
SLM	30	8.3	28	96	304	2272	6.2	5.6	120	100	110	59	41	38	80	71.7	12.0	102	82.7	2.8	100	28.0	25.6	100	
SLM	29	8.7	31	97	314	2323	6.7	6.0	110	100	105	50	29		90	73.1	11.6	103	83.5	3.0	102	27.8	26.2	103	
M	LT SP 29	8.2	35	95	305	2265	6.7	5.9	110	100	105	62	38		80	69.3	12.6	100	84.0	3.0	103	27.3	25.2	100	
OKLAHOMA		NORTHERN STAR																							
ALTUS		70 PERCENT																							
M	LT SP 30	6.3	18	82	268	1974	5.7	5.0	120	110	115	39	28	35	90	69.8	12.2	100	81.9	3.1	97	26.6	26.7	108	
M	LT SP 32	7.5	23	86	286	2112	6.8	6.0	120	110	115	40	27		90	70.2	12.4	101	83.6	2.9	102	26.2	27.4	111	
SLM	LT SP 30	7.7	22	85	270	2015	6.1	5.8	120	110	115	57	38		80	66.9	12.2	93	82.8	3.2	99	27.0	26.2	105	
COUNCIL HILL		STONEVILLE 62																							
		90 PERCENT																							
LM	32	9.3	27	93	288	2175	6.3	5.6	120	110	115	60	39	45	70	65.4	12.3	91	83.1	3.8	97	27.1	26.2	105	
SLM	LT SP 30	7.9	17	84	266	1988	5.9	5.4	120	110	115	37	27		90	67.5	11.9	94	82.4	3.0	99	28.0	27.1	106	
M	LT SP 30	6.9	17	80	255	1900	4.8	5.3	120	120	120	38	22		100	68.4	11.9	96	83.0	2.9	101	29.0	25.0	96	
SLM	LT SP 30	9.8	18	72	235	1732	4.3	4.4	120	110	115	47	31	30	80	66.1	11.8	90	80.9	3.7	93	29.2	24.9	95	
DILL CITY		LANKART 57																							
		80 PERCENT																							
LM	LT SP 31	9.1	51	93	293	2195	6.8	6.4	110	100	105	88	60	40	80	65.0	13.0	92	81.7	4.9	90	28.2	26.3	103	
SLM	LT SP 31	7.7	44	88	274	2080	6.4	5.7	110	100	105	70	46		80	66.4	12.6	94	82.2	4.3	93	29.3	25.3	96	
SLM	LT SP 31	8.6	28	85	273	2027	6.3	5.8	110	100	105	69	44		80	68.0	12.4	97	82.2	3.9	95	28.8	25.6	99	
LEEDY		LANKART 611																							
		90 PERCENT																							
SLM	LT SP 31	8.8	41	89	279	2095	6.6	5.9	110	100	105	51	36	40	90	66.5	12.0	92	81.6	4.3	92	28.2	24.2	94	
M	LT SP 31	7.2	22	91	294	2177	6.9	6.3	120	110	115	53	30		90	68.8	12.4	99	83.7	3.3	101	27.8	25.7	101	
SLM	LT SP 30	9.1	18	86	282	2074	6.9	6.2	120	100	110	56	32		90	65.8	12.1	91	82.2	3.0	98	27.1	26.2	104	
MANGUM		LANKART 57																							
		95 PERCENT																							
SLM	LT SP 31	8.0	54	93	292	2191	6.3	5.7	120	110	115	52	31	42	80	66.9	12.7	96	81.9	3.8	95	28.3	25.2	98	
SLM	LT SP 31	9.6	38	85	270	2015	6.7	5.8	110	100	105	60	38		90	65.7	12.7	93	82.8	3.5	98	27.9	25.5	100	
SLM	LT SP 30	8.1	20	85	274	2031	7.4	6.4	120	110	115	50	32		90	67.7	12.2	95	82.6	3.2	99	27.7	25.7	101	
MINCO		LANKART 57																							
		78 PERCENT																							
SLM	LT SP 31	8.8	24	86	269	2022	6.3	5.8	120	110	115	58	34	36	90	66.4	12.5	94	82.5	3.5	97	27.9	25.8	101	
SLM	LT SP 30	8.5	20	80	261	1924	7.1	5.4	120	110	115	46	28		90	67.5	12.1	95	81.5	3.2	96	27.9	26.1	103	
SLM	LT SP 30	6.9	15	82	263	1954	6.1	5.5	120	120	120	46	23		90	66.7	11.8	92	81.4	3.5	95	28.6	26.2	102	
TEMPLE		MIXED-MOSTLY PARROTT																							
M	LT SP 30	7.8	16	75	249	1821	5.0	4.7	120	110	115	45	28	32	100	67.9	12.6	97	82.3	3.1	98	28.0	26.0	102	
SLM	LT SP 30	8.2	19	85	270	2015	6.1	5.4	120	110	115	43	24		80	65.0	12.6	90	83.4	3.5	100	28.2	26.2	102	
SLM	LT SP 30	8.4	16	77	255	1867	5.5	5.4	120	110	115	43	25		90	64.8	12.0	88	81.3	3.4	95	29.2	25.5	98	
TIPTON		LANKART 57																							
		85 PERCENT																							
SLM	LT SP 30	8.4	17	88	281	2092	7.5	6.5	120	100	110	68	44	43	70	66.7	12.0	92	83.4	3.0	102	26.3	26.1	106	
SLM	LT SP 31	8.1	23	88	276	2072	7.7	7.0	110	100	105	66	46		80	67.2	12.2	94	83.0	3.3	99	26.8	26.0	104	
SLM	LT SP 30	7.9	19	89	283	2111	7.4	6.7	120	110	115	75	40		80	67.2	11.8	93	82.0	3.2	97	27.7	25.0	99	
TEXAS		LANKART 57																							
ABERNATHY		80 PERCENT																							
M	LT SP 30	8.1	31	79	261	1913	7.2	6.0	110	100	105	71	46	35	80	68.8	11.6	96	82.9	3.2	99	27.8	25.9	102	
M	LT SP 30	8.9	22	83	269	1989	6.9	6.5	110	100	105	65	40		80	68.9	12.2	98	82.8	3.0	100	28.4	25.4	99	
SLM	LT SP 30	10.0	53	83	274	2009	7.9	6.9	120	100	110	79	48		80	68.0	12.1	95	84.7	3.5	100	27.3	26.2	104	

Table 5.--Cotton: Fiber test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph			Micro- naire	Fiber strength			Elongation 1/8"	Shirley Analyzer			Color of raw stock			Color of cleaned lint	
		Grade	Staple	2.5% span length		50/2.5 unif.	Zero gauge	1/8" gauge		Pct.	Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite		Reflect- ance
32d in.	In.			Pct.	Rdg.	Mpsi			G/tex						G/tex	Pct.	
TEXAS CONTINUED																	
ACKERLY		WESTERN STORMPROOF			95 PERCENT												
M	SP	31	.97	45	4+1	83	41.1	19.7	5.0	1.8	3.4	70.8	9.9	93	604	73.6	10.0
SLM	LT SP	29	.90	44	3+4	79	39.1	20.5	5.3	2.3	3.7	70.1	10.6	92	554	73.0	10.8
SLM	LT SP	30	.96	41	3+4	81	40.1	21.0	5.9	2.3	4.0	71.4	9.2	93	603	74.4	9.0
AIKEN		MIXED MAINLY PAYMASTER															
M	LT SP	32	.95	46	3+2	72	35.6	22.2	9.2	1.8	2.7	74.8	8.7	99	552	77.1	8.7
SLM	LT SP	30	.93	46	2+8	70	34.6	21.1	8.6	2.0	3.2	72.4	9.3	95	603	75.8	10.0
SLM	LT SP	30	.91	43	2+4	71	35.1	20.5	9.9	2.1	4.1	72.0	10.3	96	554	75.5	10.1
ANTON		LANKART 57			100 PERCENT												
M	LT SP	30	.94	44	3+8	64	31.7	17.3	8.7	1.7	2.6	73.8	9.0	97	553	75.8	9.2
M	LT SP	30	.93	44	3+3	64	31.7	17.9	9.0	1.4	3.0	73.8	9.3	98	553	75.7	9.4
SLM	LT SP	30	.91	44	3+4	65	32.2	17.8	8.6	2.6	4.4	71.3	9.2	93	603	75.8	9.0
BIG SPRING		WESTERN STORMPROOF			90 PERCENT												
M	LT SP	30	.92	46	4+5	85	42.1	20.9	4.6	1.3	2.5	71.9	9.8	94	553	74.8	9.7
M	LT SP	30	.92	45	4+0	80	39.6	19.5	5.1	1.5	3.2	73.9	9.6	98	553	76.9	9.4
SLM	LT SP	30	.94	41	2+5	81	40.1	20.7	5.5	2.0	4.4	72.3	9.3	95	603	76.8	9.0
BROWNFIELD		GREGG			80 PERCENT												
M	LT SP	31	.94	44	4+2	71	35.1	19.0	7.0	.9	2.6	74.3	9.3	98	553	76.9	8.9
LM	LT SP	30	.88	45	3+6	84	41.6	22.0	5.8	3.0	4.5	70.1	8.8	90	553	74.1	9.3
SLM	LT SP	30	.92	45	3+8	73	36.1	20.8	6.7	1.7	3.9	72.0	8.8	94	603	73.8	9.4
SLM	LT SP	30	.92	45	3+6	72	35.6	20.0	6.8	2.1	3.6	71.2	8.9	92	603	73.9	9.2
SLM	LT SP	29	.87	46	3+6	80	39.6	21.9	6.2	1.6	2.8	73.5	8.3	96	602	76.1	8.4
COLORADO CITY		WESTERN STORMPROOF			95 PERCENT												
M	LT SP	30	.93	45	4+5	84	41.6	19.7	4.8	1.0	2.1	72.7	10.0	96	553	75.9	9.8
M	LT SP	30	.94	45	4+2	84	41.6	20.1	4.6	1.1	2.4	72.8	9.7	96	553	74.9	9.4
M	SP	29	.95	43	4+0	81	40.1	20.0	4.6	1.6	3.3	71.1	10.2	94	554	74.4	10.0
SLM	SP	30	.94	43	3+4	83	41.1	19.5	5.0	2.2	4.5	70.0	10.0	91	604	73.0	10.4
DIMMITT		GREGG			86 PERCENT												
SLM	LT SP	30	.89	46	3+6	79	39.1	21.3	7.4	3.1	4.1	74.5	8.2	98	602	77.9	8.7
SLM	LT SP	30	.89	47	3+2	77	38.1	21.5	7.3	3.9	5.5	72.9	9.1	96	603	76.9	9.4
SLM	LT SP	29	.87	46	3+4	79	39.1	22.6	7.2	3.7	4.5	72.9	8.8	96	603	76.9	9.0
EDMONSON		GREGG			85 PERCENT												
M	LT SP	29	.94	45	3+6	77	38.1	21.4	6.6	1.5	2.8	74.7	8.8	98	552	77.7	8.6
SLM	LT SP	30	.87	48	3+0	79	39.1	22.8	6.9	2.4	3.8	71.0	9.4	92	603	75.1	9.4
SLM	LT SP	29	.90	43	3+2	77	38.1	20.9	7.2	2.0	3.6	72.3	9.3	95	603	75.2	8.9
FERRIS		WATSON B 29			100 PERCENT												
M	LT SP	30	.94	45	4+3	91	45.0	22.6	5.9	1.6	2.2	74.0	9.7	99	503	76.8	9.8
LM	LT SP	30	.93	46	4+4	87	43.1	22.8	5.2	2.6	3.6	65.8	9.0	83	703	71.9	9.4
LM	LT SP	30	.92	46	4+3	85	42.1	21.8	4.9	3.8	5.1	66.1	9.0	84	703	71.3	9.6
FORNEY		LANKART 57			95 PERCENT												
SLM	LT SP	30	.94	46	5+0	75	37.1	19.9	5.9	1.7	3.0	67.1	10.0	86	654	70.7	10.4
SLM	LT SP	30	.93	46	4+9	77	38.1	19.8	6.4	1.5	2.4	70.2	9.7	92	603	73.3	10.1
SLM	LT SP	30	.93	45	4+6	77	38.1	20.0	6.0	1.9	2.5	67.9	10.1	88	654	70.1	10.3



Table 5a.--Cotton: Carded yarn processing test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color-22s bichd. yarn			Color-22s dyed yarn				
				8s or 73.8tex	22s or 26.8tex	Average brk.fctn.	8s or 73.8tex	22s or 26.8tex	8s or 73.8tex	22s or 26.8tex	Average	8s or 73.8tex	22s or 26.8tex			No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index	
TEXAS---CONTINUED		ACKERLY										WESTERN STORMPROOF										95 PERCENT				
M	SP	31	8.3	41	87	204	2093	5.9	5.2	110	100	105	73	49	36	80	66.6	13.0	96	83.0	3.2	100	27.2	25.9	103	
SLM	LT SP	29	9.5	27	82	270	1982	6.2	5.4	110	100	105	79	58	70	66.0	13.6	97	82.2	0.3	97	28.0	25.1	98		
SLM	LT SP	30	10.5	39	93	289	2179	6.4	5.6	120	100	110	104	61	80	66.1	12.2	92	81.2	3.0	95	28.3	25.4	99		
AIKEN		MIXED-MAINLY PAYMASTER																								
M	LT SP	32	7.8	71	95	309	2261	8.3	7.5	100	100	100	93	55	48	80	70.3	12.0	100	83.6	3.8	99	26.6	25.8	104	
SLM	LT SP	30	7.9	47	94	310	2274	8.9	7.6	110	100	105	82	50	70	68.2	12.7	98	83.0	3.8	97	27.2	25.5	102		
SLM	LT SP	30	9.9	128	89	290	2139	8.8	7.6	90	70	80	118	80	70	66.5	13.4	98	83.4	4.4	96	27.2	25.7	100		
ANTON		LANKART 57																				100 PERCENT				
M	LT SP	30	8.2	39	80	257	1908	8.2	7.4	100	100	100	84	51	40	80	69.5	12.0	98	84.5	3.5	102	27.2	26.0	104	
M	LT SP	30	8.0	28	80	267	1948	8.4	7.4	120	100	110	62	34	90	68.9	12.4	98	83.5	3.2	101	28.0	25.7	101		
SLM	LT SP	30	9.6	26	79	259	1905	8.0	7.2	110	100	105	83	52	70	67.4	12.0	94	83.3	3.2	100	28.4	25.7	100		
BIG SPRING		WESTERN STORMPROOF																				90 PERCENT				
M	LT SP	30	6.4	28	89	280	2099	6.1	5.4	120	110	115	40	28	38	90	68.0	12.6	97	82.4	3.3	98	27.1	25.4	101	
M	LT SP	30	8.5	29	85	268	2007	5.5	5.2	120	100	110	47	31	100	68.8	12.3	98	83.1	3.6	98	27.1	26.0	104		
SLM	LT SP	30	9.6	105	83	269	1989	5.9	5.6	90	80	85	160	114	80	66.6	12.4	94	83.4	3.6	99	28.0	23.7	93		
BROWNFIELD		GREGG																				80 PERCENT				
M	LT SP	31	7.9	45	85	267	2003	7.8	6.5	110	100	105	52	35	38	100	69.4	12.2	99	83.8	3.1	102	27.0	26.5	106	
LM	LT SP	30	10.2	55	94	298	2226	6.4	5.5	110	100	105	79	53	70	67.1	12.0	93	82.7	3.3	98	29.2	24.4	93		
SLM	LT SP	30	9.4	72	84	270	2004	6.1	6.0	100	100	100	92	58	80	68.5	11.8	96	81.3	3.4	95	27.7	25.8	102		
SLM	LT SP	30	8.1	29	87	282	2085	6.8	6.1	120	110	115	71	44	42	80	66.9	11.6	91	80.9	3.3	94	28.9	24.7	95	
SLM	LT SP	29	7.7	29	96	300	2256	7.4	6.6	120	110	115	59	36	90	68.6	10.8	92	81.0	2.7	97	27.4	26.1	104		
COLORADO CITY		WESTERN STORMPROOF																				95 PERCENT				
M	LT SP	30	7.2	18	90	277	2098	5.9	5.6	120	110	115	36	26	39	100	68.4	12.6	99	83.1	3.3	99	26.3	27.3	111	
M	LT SP	30	7.6	24	88	276	2072	5.9	5.0	120	110	115	38	22	90	67.5	13.0	98	82.3	3.4	97	27.9	25.4	100		
M	SP	29	8.1	24	81	266	1955	5.8	5.0	120	110	115	54	33	90	67.6	13.1	98	82.3	4.7	92	28.4	25.1	98		
SLM	SP	30	8.1	27	84	275	2024	5.7	5.1	120	100	110	83	53	38	80	65.8	12.9	94	82.8	3.7	97	28.5	24.1	93	
DIMMITT		GREGG																				86 PERCENT				
SLM	LT SP	30	8.9	38	97	304	2283	6.9	6.5	110	100	105	77	49	40	80	71.1	11.9	101	84.2	2.9	103	27.2	25.7	102	
SLM	LT SP	30	10.2	22	100	318	2372	7.4	6.9	120	100	110	69	43	80	67.7	12.8	98	83.4	3.2	101	26.4	26.0	105		
SLM	LT SP	29	10.2	31	100	317	2368	7.5	6.5	120	110	115	65	38	80	67.7	12.6	97	84.1	3.5	101	26.2	26.2	106		
EDMONSON		GREGG																				85 PERCENT				
M	SP	29	8.3	44	95	304	2261	6.9	6.3	110	100	105	59	42	41	90	69.5	11.7	97	82.1	3.4	97	27.6	25.7	102	
SLM	LT SP	30	9.6	40	100	320	2380	7.4	6.5	110	100	105	97	58	70	67.6	12.3	96	83.2	3.7	98	27.5	25.4	101		
SLM	LT SP	29	9.2	45	93	295	2203	7.7	6.8	110	100	105	69	44	70	67.0	12.4	94	83.6	3.5	100	27.0	25.1	100		
FERRIS		WATSON B-29																				100 PERCENT				
M	LT SP	30	7.8	25	100	300	2300	6.7	5.5	120	110	115	43	25	41	100	68.1	13.2	100	83.2	3.2	100	26.1	27.2	110	
LM	LT SP	30	9.2	22	101	305	2331	6.3	5.8	120	110	115	37	26	80	63.4	12.0	86	82.7	3.2	99	26.7	26.1	105		
LM	LT SP	30	10.1	16	97	285	2207	6.2	5.2	120	120	120	41	24	90	63.3	12.1	86	81.6	3.8	94	28.8	26.1	101		
FORNEY		LANKART 57																				95 PERCENT				
SLM	LT SP	30	8.1	21	84	264	1980	6.3	5.7	120	110	115	45	32	39	80	63.4	12.6	87	82.8	3.0	100	27.4	26.6	106	
SLM	LT SP	30	7.5	11	86	267	2014	6.5	5.6	120	110	115	45	28	80	65.8	12.5	92	82.9	3.0	100	27.9	26.2	103		
SLM	LT SP	30	8.0	18	87	279	2073	6.9	5.7	120	110	115	53	34	80	63.4	13.0	88	82.6	3.1	99	28.4	26.0	101		

Table 5.--Cotton: Fiber test results for short staple varieties by state and market area for samples of model quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph			Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer			Color of raw stock			Color of cleaned lint	
		2.5/8 span length	50/2.5 unif.	Rdg.		Zero gauge	1/8" gauge	Pct.		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness	
Grade	Staple	3/2d in.	In.	Pct.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	R <sub>g</sub>	Y <sub>b</sub>	Index	Code	R <sub>g</sub>	Y <sub>b</sub>	
TEXAS CONTINUED																	
HEREFORD		GREGG			95 PERCENT												
SLM	LT SP	30	.88	47	3.8	86	42.6	22.9	6.4	3.3	4.4	73.0	8.7	96	602	77.7	9.1
SLM	LT SP	29	.88	46	3.2	80	39.6	21.5	6.9	2.8	4.0	72.9	9.0	96	603	76.3	9.0
HURLWOOD		LANKART 57			90 PERCENT												
M	LT SP	30	.91	44	4.1	71	35.1	18.8	7.1	1.2	2.3	71.1	9.4	93	603	73.2	9.5
M	LT SP	30	.93	45	4.0	71	35.1	18.1	7.6	1.6	2.5	72.3	8.9	95	603	74.9	9.0
M	LT SP	30	.94	44	3.4	70	34.6	19.2	7.0	1.6	3.3	72.6	8.8	95	603	73.6	8.4
IDALOU		LANKART 611			100 PERCENT												
M	LT SP	31	.95	44	4.0	73	36.1	18.5	7.6	1.3	2.2	72.6	9.4	96	553	75.4	9.2
M	LT SP	30	.94	44	3.8	70	34.6	18.4	7.7	1.7	2.5	72.3	8.8	95	603	74.1	9.0
SLM	LT SP	30	.96	42	3.0	73	36.1	19.7	7.8	2.6	4.7	73.1	8.8	96	602	78.0	8.5
ITASCA		LANKART 57			100 PERCENT												
M	LT SP	29	.90	44	3.8	82	40.6	20.2	6.2	2.3	3.2	71.4	10.5	95	554	75.1	10.6
SLM	LT SP	30	.88	46	4.0	83	41.1	19.5	5.7	2.4	3.7	69.8	10.1	91	604	74.5	10.4
M	LT SP	29	.87	45	4.4	84	41.6	20.4	5.8	2.0	3.2	72.1	10.0	96	553	74.9	10.1
JAYTON		WESTERN STORMPROOF			95 PERCENT												
SLM	LT SP	30	.93	45	4.0	91	45.0	20.7	4.4	1.8	3.0	72.0	10.0	95	553	74.7	9.9
M	LT SP	30	.94	47	4.3	85	42.1	20.2	4.7	1.6	3.0	73.4	9.7	98	553	76.2	9.7
SLM	LT SP	30	.94	44	4.2	76	37.6	20.1	5.0	1.7	3.6	72.2	9.4	95	603	72.0	9.6
SLM	LT SP	30	.94	43	3.6	82	40.6	20.6	5.3	2.0	3.9	71.4	9.5	94	603	75.6	9.5
KRESS		GREGG			80 PERCENT												
M	LT SP	30	.93	45	3.4	74	36.6	20.7	7.0	1.5	3.1	74.1	8.9	98	552	76.3	8.5
SLM	LT SP	29	.90	46	3.2	77	38.1	20.6	6.6	2.9	4.3	69.4	9.3	90	653	73.8	9.6
SLM	LT SP	30	.87	46	3.6	84	41.6	23.1	6.6	2.5	4.0	70.8	8.9	92	653	74.2	8.9
LAKEVIEW		PAYMASTER 101			100 PERCENT												
M	LT SP	29	.90	47	4.4	80	39.6	21.0	6.2	2.0	3.0	73.8	9.2	97	553	75.8	9.0
SLM	LT SP	30	.92	45	4.2	86	42.6	22.4	6.2	2.8	3.4	70.8	9.1	92	603	73.2	9.2
SLM	LT SP	30	.90	46	3.6	82	40.6	22.2	6.2	3.2	5.2	70.0	9.0	90	653	75.2	9.4
LAZBUDDIE		GREGG			98 PERCENT												
SLM	LT SP	30	.87	47	3.8	83	41.1	23.9	6.2	2.5	3.4	73.0	8.2	95	602	76.9	8.8
SLM	LT SP	30	.90	46	3.4	80	39.6	22.4	7.0	2.3	3.5	74.3	8.3	98	602	78.3	8.3
SLM	LT SP	29	.88	45	3.3	80	39.6	22.3	6.8	2.7	4.1	73.1	9.4	96	553	74.2	10.0
LITTLEFIELD		GREGG			87 PERCENT												
M	LT SP	28	.83	47	4.1	79	39.1	21.3	6.3	1.6	2.8	72.0	9.4	95	603	74.1	9.2
SLM	LT SP	29	.87	47	3.9	82	40.6	21.3	6.9	2.0	3.0	73.1	8.7	96	602	76.9	8.7
SLM	LT SP	29	.84	47	3.2	80	39.6	22.7	7.3	2.6	4.0	72.8	9.6	96	553	74.4	10.0

Table 5a.--Cotton: Carded yarn processing test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 --Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imperfcins.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color-22s bichd. yarn			Color-22s dyed yarn				
				8s or 73.8tex	22s or 26.8tex	Average brk.fctr.	8s or 73.8tex	22s or 26.8tex	8s or 73.8tex	22s or 26.8tex	Average	8s or 73.8tex	22s or 26.8tex			No.	No.	No.	Index	R <sub>d</sub>	+b	Index	R <sub>d</sub>	+b	Index	R <sub>d</sub>
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	R <sub>d</sub>	+b	Index	R <sub>d</sub>	+b	Index	R <sub>d</sub>	-b	Index	
TEXAS---CONTINUED																										
HEREFORD		GREGG										95 PERCENT														
SLM	LT SP 30	9.1	31	99	312	2337		6.1	5.8	110	100	105	68	38	40	80	67.6	12.0	94	82.8	3.4	98	28.4	25.3	98	
SLM	LT SP 29	8.2	36	95	307	2273		6.8	6.7	120	110	115	72	45		80	69.0	12.6	100	82.8	3.4	98	27.6	25.6	101	
HURLWOOD		LANKART 57										90 PERCENT														
M	LT SP 30	7.9	27	80	259	1916		7.2	6.3	120	110	115	45	31	33	100	67.3	12.0	94	82.3	2.9	99	27.6	25.9	102	
M	LT SP 30	7.7	54	81	262	1939		7.0	6.5	110	100	105	67	41		80	67.8	11.6	93	82.5	3.2	99	26.9	25.8	104	
M	LT SP 30	8.5	37	81	268	1963		7.0	6.5	110	100	105	64	37		90	67.8	11.0	91	81.0	3.0	96	28.5	25.2	98	
IDALOU		LANKART 611										100 PERCENT														
M	LT SP 31	7.4	33	86	277	2054		7.0	6.3	120	110	115	68	40	40	80	66.9	11.8	92	83.6	3.8	99	27.3	26.3	105	
M	LT SP 30	7.8	32	82	268	1974		7.3	6.6	120	100	110	75	44		80	68.9	11.6	96	82.5	3.1	99	29.0	25.4	98	
SLM	LT SP 30	9.6	50	87	282	2085		8.1	7.0	100	90	95	101	57		70	68.4	11.5	94	82.8	3.3	99	29.3	25.3	97	
ITASCA		LANKART 57										100 PERCENT														
M	LT SP 29	8.7	42	85	274	2031		6.5	5.6	100	90	95	87	56	29	80	66.5	14.2	101	82.4	3.2	98	26.1	27.2	111	
SLM	LT SP 30	10.1	27	88	280	2088		6.7	5.9	110	100	105	63	43		90	65.2	13.3	94	81.7	3.7	94	27.4	26.4	105	
M	LT SP 29	7.9	18	76	257	1864		6.3	5.2	120	110	115	46	28		90	68.7	12.8	100	82.1	3.1	98	27.6	26.2	103	
JAYTON		WESTERN STORMPROOF										95 PERCENT														
SLM	LT SP 30	8.1	31	89	280	2099		5.9	5.6	120	110	115	48	29	36	100	68.4	13.2	101	82.4	3.6	97	27.1	26.1	104	
M	LT SP 30	7.8	19	92	294	2188		6.1	5.2	120	110	115	35	22		100	69.4	12.6	100	83.4	2.9	102	26.9	26.2	105	
SLM	LT SP 30	8.3	33	86	275	2046		5.8	5.2	120	110	115	56	33		90	68.4	12.3	98	83.2	3.5	99	26.9	26.4	106	
SLM	LT SP 30	8.8	24	87	273	2049		6.0	5.6	120	100	110	67	38	40	90	67.8	12.4	96	84.0	3.4	101	28.1	24.6	96	
KRESS		GREGG										80 PERCENT														
M	LT SP 30	8.4	65	91	294	2177		7.1	6.0	110	100	105	68	44	41	90	70.2	12.1	100	82.6	3.0	100	27.0	25.8	103	
SLM	LT SP 29	9.4	39	92	300	2212		6.4	6.9	110	100	105	66	44		70	66.3	12.3	93	82.2	3.5	97	26.8	25.6	103	
SLM	LT SP 30	7.8	35	98	308	2310		6.7	6.3	120	110	115	56	38		80	67.4	12.2	95	82.4	3.7	96	27.2	25.5	102	
LAKEVIEW		PAYMASTER 101										100 PERCENT														
M	LT SP 29	7.2	29	96	308	2288		6.6	5.7	120	110	115	54	32	45	100	70.3	11.9	100	83.1	3.1	100	27.6	25.5	101	
SLM	LT SP 30	9.6	27	96	312	2304		6.3	5.7	120	100	110	71	43		80	67.3	12.0	94	83.0	3.4	99	27.6	26.0	103	
SLM	LT SP 30	9.6	22	98	310	2318		7.2	6.4	120	100	110	54	32		80	67.6	12.0	94	82.8	3.2	99	27.1	26.2	104	
LAZBUDDIE		GREGG										98 PERCENT														
SLM	30	8.1	35	99	307	2317		6.6	5.8	120	110	115	57	37	41	80	72.2	11.5	102	82.8	3.1	100	27.0	26.4	106	
SLM	30	7.1	32	96	318	2328		7.0	6.4	120	110	115	60	39		80	70.2	11.5	98	82.3	3.0	99	27.1	26.4	105	
SLM	LT SP 29	8.5	46	100	320	2380		6.6	6.3	110	100	105	85	49		80	67.3	12.4	96	83.2	3.4	99	27.4	24.5	97	
LITTLEFIELD		GREGG										87 PERCENT														
M	LT SP 28	8.1	28	82	273	1994		5.9	5.4	120	110	115	48	28	30	90	69.6	12.1	99	83.0	3.0	100	27.5	25.8	102	
SLM	29	7.3	27	93	301	2227		6.8	6.3	120	110	115	51	34		90	69.8	12.0	99	82.8	3.2	99	28.5	25.4	98	
SLM	LT SP 29	7.6	37	100	320	2380		7.5	6.3	120	100	110	73	38		80	66.7	13.0	96	84.9	3.5	103	27.0	26.2	105	

Table 5.--Cotton: Fiber test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification				Predominant variety, percentage of variety at gin, and fiber test results													
				Digital Fibrograph		Micro- waire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer		Color of raw stock			Color of cleaned lint	
				2 1/2 span length	50/2.5 unif.		Zero gauge	1/8" gauge	G/tex		Pct.	Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance
Grade	Staple	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b	
TEXAS CONTINUED																	
MCKINNEY				LANKART 57 95 PERCENT													
LM	LT SP	31	.97	46	4.4	81	40.1	20.4	5.6	2.8	3.8	67.9	9.6	87	654	70.2	10.0
SLM	LT SP	31	.96	46	4.5	81	40.1	20.4	5.7	2.4	3.5	70.9	9.4	92	603	73.9	9.9
SLM	LT SP	31	.94	45	4.6	83	41.1	20.3	5.4	2.0	3.0	70.4	9.5	92	603	73.8	9.4
MORTON				GREGG 90 PERCENT													
LM		29	.85	48	4.2	83	41.1	21.7	6.7	3.3	4.1	71.7	8.6	93	603	75.3	8.8
SLM		29	.86	47	4.0	83	41.1	21.6	6.6	1.7	2.6	75.1	8.4	99	552	77.4	8.6
M	LT SP	29	.90	45	3.2	77	38.1	20.9	6.7	1.5	3.1	72.9	9.6	96	553	75.6	9.6
NEW CASTLE				WESTERN STORMPROOF 95 PERCENT													
M	LT SP	29	.90	45	4.1	86	42.6	18.8	4.3	1.2	2.4	72.6	9.6	96	553	74.5	9.6
M	LT SP	30	.94	44	3.8	81	40.1	19.0	5.1	1.2	2.6	73.9	9.6	98	553	75.7	9.4
SLM	LT SP	31	.98	45	4.0	81	40.1	20.6	5.1	1.8	3.3	69.4	9.3	90	653	71.6	9.4
NEW DEAL				LANKART 57 80 PERCENT													
M	LT SP	30	.93	43	3.2	73	36.1	20.5	6.9	1.6	3.3	70.9	9.3	92	603	73.9	9.2
M	LT SP	31	.97	44	3.8	69	34.2	20.2	7.5	1.7	3.1	73.5	8.6	96	602	76.9	8.5
SLM	LT SP	30	.96	42	3.2	72	35.6	18.6	7.4	2.4	3.9	73.0	9.5	96	553	74.8	9.7
O'BRIEN				NORTHERN STAR 75 PERCENT													
SLM	LT SP	32	1.00	45	3.9	72	35.6	19.0	4.9	1.5	3.0	67.7	9.8	87	654	70.8	9.8
SLM	LT SP	31	.97	45	4.1	77	38.1	18.8	5.8	1.5	2.2	70.9	9.7	93	603	73.2	9.8
M	LT SP	31	.98	43	3.8	73	36.1	17.8	6.1	1.7	3.4	71.8	9.9	94	553	73.9	9.9
O'DONNELL				LANKART 57 75 PERCENT													
SM	LT SP	31	.96	46	4.4	78	38.6	20.2	5.8	.7	2.0	75.7	9.5	100	503	77.8	9.3
M	LT SP	31	.93	47	4.2	72	35.6	18.5	7.1	1.4	3.0	75.0	8.8	99	552	77.1	8.8
M	LT SP	31	.96	45	3.7	73	36.1	20.4	7.2	1.3	2.6	74.1	9.1	98	553	76.9	9.3
PLAINVIEW				PAYMASTER 54 B 75 PERCENT													
M		31	.90	48	3.9	74	36.6	20.5	7.6	.9	1.9	76.1	8.5	100	552	78.3	8.7
M	LT SP	30	.94	46	3.7	71	35.1	19.4	8.2	1.4	2.3	73.3	9.0	97	603	76.3	9.0
SLM	LT SP	30	.92	43	3.2	78	38.6	21.3	7.1	2.2	3.6	73.5	8.8	97	602	77.2	8.7
PLAINVIEW				PAYMASTER 101A 80 PERCENT													
M	LT SP	30	.88	45	3.6	78	38.6	21.0	6.6	1.4	3.0	73.3	9.4	97	553	76.1	9.2
M	LT SP	30	.92	45	3.4	76	37.6	20.4	7.0	1.8	3.4	73.5	9.1	97	553	75.1	9.0
SLM	LT SP	30	.93	45	3.2	74	36.6	21.7	7.4	3.0	4.3	72.4	9.5	96	553	75.1	9.8
POST				LANKART 57 85 PERCENT													
M	LT SP	30	.89	46	4.6	75	37.1	19.7	6.0	1.2	2.3	72.7	9.4	96	553	75.0	9.3
M	LT SP	30	.91	45	3.8	73	36.1	18.6	6.6	1.1	2.4	71.6	9.4	94	603	76.2	9.0
M	LT SP	30	.93	42	3.0	79	39.1	20.8	6.8	1.6	3.5	74.3	9.3	98	553	78.0	8.9
RALLS				LANKART 57 96 PERCENT													
M	LT SP	30	.94	45	4.0	76	37.6	19.1	7.6	1.5	2.8	71.0	9.0	92	603	73.8	9.3
M	LT SP	29	.96	44	4.2	70	34.6	18.3	7.7	.9	3.0	70.8	9.0	92	653	74.4	9.0
SLM	LT SP	30	.94	41	3.9	74	36.6	19.9	7.2	2.1	3.4	71.2	9.1	93	603	75.6	9.2

Table 5a.--Cotton: Carded yarn processing test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962.--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color-22s blchd.yarn			Color-22s dyed yarn				
				8s or 73.8tex	22s or 26.8tex	Average brk.fctr.	8s or 73.8tex	22s or 26.8tex	8s or 73.8tex	22s or 26.8tex	Average	8s or 73.8tex	22s or 26.8tex			8s or 73.8tex	22s or 26.8tex	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	Blue-ness	Com-posite
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rq	+b	Index	Rq	+b	Index	Rq	-b	Index	
TEXAS---CONTINUED																										
MCKINNEY		LANKART 57										95 PERCENT														
LM	LT SP 31	8.8	21	92	290	2172		6.9	6.0	120	100	110	49	36	40	80	64.6	12.8	90	83.1	3.3	99	27.0	26.4	106	
SLM	LT SP 31	7.6	23	92	284	2148		6.5	5.5	120	110	115	41	25		90	67.2	12.5	96	82.3	3.0	99	28.4	26.6	104	
SLM	LT SP 31	7.8	16	88	276	2072		6.1	5.8	120	120	120	37	22		90	67.8	12.4	96	83.2	3.0	100	28.3	25.3	99	
MORTON		GREGG										90 PERCENT														
LM	29	8.6	28	92	295	2192		6.5	5.8	110	100	105	79	50	31	70	68.2	11.8	95	82.2	3.2	98	27.5	25.9	103	
SLM	29	7.9	36	93	297	2211		6.5	6.0	120	110	115	44	27		80	70.6	11.9	100	82.2	3.2	98	28.1	25.7	101	
M	LT SP 29	8.0	31	95	307	2273		7.1	6.3	120	110	115	63	41		90	67.3	12.4	96	82.4	3.2	98	26.6	25.9	104	
NEW CASTLE		WESTERN STORMPROOF										95 PERCENT														
M	LT SP 29	7.2	22	82	263	1954		5.9	5.2	120	110	115	42	30	35	100	68.6	12.6	99	83.0	3.3	99	27.3	26.4	105	
M	LT SP 30	8.5	28	87	273	2049		5.8	5.5	120	100	110	55	34		90	68.8	12.4	98	83.7	3.3	101	27.2	26.1	104	
SLM	LT SP 31	8.5	27	86	278	2058		6.1	5.2	110	110	110	57	33		90	64.5	12.2	88	83.4	3.6	99	28.8	24.5	94	
NEW DEAL		LANKART 57										80 PERCENT														
M	LT SP 30	8.8	56	83	271	1997		7.1	5.9	110	100	105	77	52	41	80	67.9	12.1	96	83.2	3.5	99	27.9	25.4	100	
M	LT SP 31	7.9	35	83	273	2005		7.7	6.4	110	90	100	84	53		90	68.4	12.0	96	82.6	3.2	99	28.2	25.5	100	
SLM	LT SP 30	9.4	51	89	286	2123		8.0	6.5	110	100	105	81	53		90	66.8	12.6	95	82.2	4.5	93	27.6	25.4	100	
O'BRIEN		NORTHERN STAR										75 PERCENT														
SLM	LT SP 32	9.4	36	79	254	1885		5.9	5.2	110	100	105	68	46	40	80	64.0	12.8	89	83.1	3.7	98	27.5	25.2	99	
SLM	LT SP 31	8.1	19	84	262	1972		6.6	5.7	120	110	115	48	35		90	66.6	12.9	96	83.4	3.1	101	26.5	26.6	107	
M	LT SP 31	9.8	31	80	258	1912		6.4	5.6	120	100	110	62	41		80	66.8	12.8	96	83.9	3.6	100	28.9	26.0	104	
O'DONNELL		LANKART 57										75 PERCENT														
SM	LT SP 31	6.4	23	93	294	2199		6.8	5.8	120	110	115	30	20	42	110	71.6	12.3	103	83.2	2.7	102	26.8	26.1	105	
M	LT SP 31	8.3	37	86	281	2070		7.1	6.3	110	100	105	68	38		90	70.8	11.5	99	82.5	3.0	99	28.1	25.9	101	
M	LT SP 31	7.2	28	91	294	2177		7.8	6.6	120	110	115	57	33		90	68.2	11.8	95	82.0	2.9	98	28.1	25.8	101	
PLAINVIEW		PAYMASTER 54 B										75 PERCENT														
M	31	5.5	25	99	312	2337		7.3	6.8	120	110	115	36	24	48	100	72.1	11.6	102	83.5	3.1	101	27.0	26.3	105	
M	LT SP 30	7.6	30	95	310	2285		7.9	7.0	120	100	110	65	42		80	69.4	11.8	98	82.8	3.4	98	27.4	25.9	103	
SLM	LT SP 30	8.3	34	98	315	2338		7.6	6.5	110	110	110	73	43		80	69.2	12.0	98	83.6	3.2	101	27.2	24.5	98	
PLAINVIEW		PAYMASTER 101A										80 PERCENT														
M	LT SP 30	7.7	32	85	277	2043		6.1	5.9	120	100	110	58	36	33	90	69.6	12.4	100	83.3	3.2	100	27.0	25.8	103	
M	LT SP 30	9.2	37	91	297	2189		7.6	6.8	110	100	105	64	37		80	69.0	12.1	98	83.0	3.1	100	28.0	25.7	101	
SLM	LT SP 30	8.8	28	93	301	2227		7.9	6.8	120	100	110	63	39		80	67.9	12.8	98	84.6	3.6	102	27.5	25.8	102	
POST		LANKART 57										85 PERCENT														
M	LT SP 30	8.6	30	83	272	2001		6.7	5.6	120	110	115	42	30		90	69.0	12.2	98	83.0	3.2	100	27.1	25.7	102	
M	LT SP 30	8.4	33	81	263	1943		6.1	5.8	110	100	105	79	48		80	67.1	11.7	92	80.9	3.4	94	28.2	25.2	98	
M	LT SP 30	7.9	53	91	296	2185		7.3	6.7	110	90	100	137	94	39	80	69.4	12.2	99	82.7	3.6	97	27.5	24.9	98	
RALLS		LANKART 57										96 PERCENT														
M	LT SP 30	8.4	54	83	264	1969		6.3	5.9	100	100	100	81	53	36	90	67.2	11.6	92	82.0	3.3	97	27.6	25.6	101	
M	LT SP 29	8.6	29	82	267	1970		7.2	6.4	110	100	105	68	46		80	68.2	11.5	94	83.0	3.1	100	26.5	26.1	105	
SLM	LT SP 30	8.4	33	89	290	2139		6.9	6.2	110	100	105	76	44		90	67.4	11.6	92	81.7	3.3	96	27.3	24.8	99	

Table 5.--Cotton: Fiber test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph			Micro- naire	Fiber strength			Elonga- tion 1/8"	Shirley Analyzer			Color of raw stock			Color of cleaned lint	
		2.5% span length	50/2.5 unif.	Rdg.		Zero gauge	1/8" gauge	Pct.		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness	
Grade	Staple	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	R <sub>a</sub>	+b	Index	Code	R <sub>a</sub>	+b	
TEXAS CONTINUED																	
HOARING SPRINGS		LANKART 57			80 PERCENT												
SM	LT SP	30	.94	46	4.7	77	38.1	20.4	7.0	.9	2.1	74.4	9.3	98	553	75.7	9.5
M	LT SP	30	.93	44	4.1	73	36.1	20.6	6.2	1.2	2.1	74.1	9.2	98	553	75.6	9.4
M	LT SP	30	.92	45	4.2	79	39.1	19.8	6.1	1.0	2.2	72.8	9.2	96	603	75.2	8.9
ROPEVILLE		BLIGHTMASTER			80 PERCENT												
M	LT SP	30	.94	43	3.8	77	38.1	19.1	6.8	1.8	2.8	73.7	9.6	98	553	75.5	9.5
M	LT SP	30	.94	44	3.4	78	38.6	20.2	6.4	1.9	3.4	73.4	9.0	97	603	75.5	8.8
M	LT SP	31	.95	43	2.8	77	38.1	19.5	7.5	1.7	3.6	74.1	9.4	98	553	76.4	9.2
ROTAN		WESTERN STORMPROOF			85 PERCENT												
M	LT SP	30	.92	47	4.4	91	45.0	21.0	4.0	.8	1.9	73.0	9.9	97	553	75.1	10.1
M	LT SP	30	.93	46	4.2	87	43.1	20.2	4.6	.8	1.8	73.0	9.8	97	553	75.2	9.5
M	LT SP	31	.99	45	4.4	79	39.1	20.9	5.3	.9	2.2	74.9	9.2	99	553	75.9	9.4
SLM	LT SP	30	.94	45	4.0	82	40.6	20.6	4.9	1.5	3.5	70.9	9.6	92	603	73.1	9.3
RULE		TPSA 41			95 PERCENT												
LM	LT SP	31	.97	45	4.0	80	39.6	20.5	5.8	4.6	6.4	66.3	10.0	85	654	71.4	10.2
SLM	LT SP	32	1.00	47	4.8	77	38.1	20.2	6.8	2.5	4.0	70.4	9.4	92	603	72.7	9.6
LM	LT SP	31	1.00	45	4.2	75	37.1	20.1	7.1	3.1	4.8	66.6	9.0	84	703	72.9	9.4
SAN ANGELO		LANKART			80 PERCENT												
M	SP	30	.92	44	4.2	86	42.6	21.0	5.8	2.0	3.2	70.8	10.2	93	554	73.3	10.2
M	LT SP	30	.92	46	4.8	79	39.1	19.7	5.7	1.0	2.1	72.9	9.4	96	553	74.8	9.5
M	SP	30	.94	44	4.3	73	36.1	18.9	5.8	1.0	2.8	71.2	9.8	94	603	73.6	9.8
SINTON		LANKART 57			80 PERCENT												
SM		31	.95	46	4.6	77	38.1	19.9	6.4	.8	1.7	75.7	9.6	100	503	78.8	9.3
SM		32	.97	45	4.4	77	38.1	20.2	6.2	.8	1.6	75.9	9.5	101	503	76.6	9.7
SM	LT SP	31	.95	44	4.0	80	39.6	20.3	6.0	1.1	2.1	74.0	10.3	99	503	74.7	10.2
STAMFORD		LANKART			70 PERCENT												
SLM	LT SP	30	.94	45	4.7	81	40.1	19.2	5.4	2.1	3.3	70.2	9.6	92	603	73.2	9.8
SLM	SP	30	.92	47	4.6	81	40.1	19.5	5.8	2.6	4.1	66.4	10.2	85	654	69.9	10.6
SLM	LT SP	30	.90	46	4.4	77	38.1	21.9	5.3	1.3	3.3	70.4	9.3	92	603	73.2	9.5
SLM	LT SP	30	.96	45	4.3	75	37.1	19.5	6.4	2.0	3.6	68.3	9.7	88	654	72.1	9.9
SUDAN		GREGG			100 PERCENT												
SLM		30	.88	48	4.3	84	41.6	22.8	6.1	2.1	3.0	74.2	8.4	98	602	77.2	8.6
SLM		29	.88	46	4.2	83	41.1	21.6	6.2	1.7	2.8	73.5	8.8	97	602	77.2	8.6
SLM	LT SP	29	.87	44	3.4	82	40.6	22.4	6.7	1.7	3.1	72.4	9.8	96	553	75.2	9.6
VERNON		LOCKETT 4789			90 PERCENT												
SLM	LT SP	32	1.00	45	4.8	87	43.1	21.4	6.1	1.9	3.4	70.0	9.6	91	603	72.8	9.9
SLM	LT SP	32	1.05	44	4.7	79	39.1	21.0	6.5	1.8	2.2	69.9	9.0	90	653	73.1	9.3
SLM	LT SP	34	1.04	43	4.4	79	39.1	19.8	6.6	2.1	3.0	69.7	9.1	90	653	72.8	9.1

Table 5a.--Cotton: Carded yarn processing test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color-22s bichd. yarn			Color-22s dyed yarn				
				8s or 73.8tex	22s or 26.8tex	Average brk.fctr.	8s or 73.8tex	22s or 26.8tex	8s or 73.8tex	22s or 26.8tex	Average	8s or 73.8tex	22s or 26.8tex			No.	No.	No.	Index	R <sub>d</sub>	+b	Index	R <sub>d</sub>	+b	Index	R <sub>d</sub>
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	R <sub>d</sub>	+b	Index	R <sub>d</sub>	+b	Index	R <sub>d</sub>	-b	Index	
TEXAS---CONTINUED																										
ROARING SPRINGS		LANKART 57										80 PERCENT														
SM	LT SP 30	7.8	28	89	284	2115		6.5	5.9	120	110	115	57	37	42	90	70.4	11.9	100	84.6	2.8	105	27.0	26.8	107	
M	LT SP 30	7.8	36	87	272	2045		6.8	6.1	120	100	110	53	32		90	68.9	11.9	97	83.4	3.1	101	28.0	26.4	104	
M	LT SP 30	7.1	30	90	281	2114		6.7	5.8	120	110	115	46	33		90	68.8	12.0	97	81.8	3.5	96	27.6	25.3	100	
ROPEVILLE		BLIGHTMASTER										80 PERCENT														
M	LT SP 30	7.9	41	86	279	2062		7.0	6.2	110	100	105	66	50	39	90	68.0	12.2	96	83.3	3.3	100	27.3	25.9	103	
M	LT SP 30	8.0	31	89	290	2139		6.8	6.4	120	110	115	67	49		90	68.1	11.6	94	81.6	3.2	96	28.2	25.0	98	
M	LT SP 31	7.6	40	96	303	2268		8.1	7.1	110	100	105	75	48		90	66.4	12.0	92	83.1	2.9	101	28.3	25.5	99	
ROTAN		WESTERN STORMPROOF										85 PERCENT														
M	LT SP 30	6.1	16	91	288	2153		5.8	4.8	120	110	115	26	14	40	110	68.2	12.8	99	82.2	3.5	96	26.6	27.6	111	
M	LT SP 30	7.0	28	90	285	2130		5.9	4.8	120	110	115	32	21		100	68.9	12.6	99	81.8	3.3	97	27.1	26.0	104	
M	LT SP 31	6.0	21	97	311	2311		6.9	5.8	120	120	120	32	18		110	69.8	12.3	100	82.9	3.1	100	26.9	26.6	107	
SLM	LT SP 30	7.5	16	87	283	2089		6.0	5.2	120	110	115	56	33	42	100	65.4	12.7	92	82.4	3.7	96	27.2	25.0	100	
RULE		TPSA 41										95 PERCENT														
LM	LT SP 31	11.6	34	91	277	2109		6.5	5.7	110	100	105	82	55	38	70	64.3	13.2	92	81.5	4.0	93	27.4	26.6	106	
SLM	LT SP 32	8.7	30	95	302	2253		7.1	6.1	120	110	115	54	34		80	66.4	12.6	94	82.3	3.5	97	25.8	27.2	111	
LM	LT SP 31	9.8	20	88	286	2112		7.1	6.4	120	110	115	71	41		80	65.2	12.0	89	83.0	3.0	100	27.3	25.3	101	
SAN ANGELO		LANKART										80 PERCENT														
M	SP 30	8.1	26	87	279	2073		6.2	5.7	110	100	105	69	46	35	90	65.5	13.2	94	82.3	3.0	99	27.7	27.4	108	
M	LT SP 30	7.6	23	86	277	2054		6.3	5.5	120	110	115	45	28		90	68.4	12.1	96	82.7	3.0	100	26.9	26.6	106	
M	SP 30	7.4	26	84	272	2012		5.9	5.5	120	110	115	50	33		100	67.1	12.7	97	82.3	3.6	96	27.8	25.8	102	
SINTON		LANKART 57										80 PERCENT														
SM	31	7.2	25	94	291	2198		7.1	6.5	120	110	115	41	27	36	90	69.9	12.2	100	83.1	2.7	102	25.4	26.7	110	
SM	32	7.5	24	94	298	2226		7.6	6.5	120	110	115	38	23		90	70.6	12.6	102	82.3	2.9	99	26.1	27.0	110	
SM	LT SP 31	7.0	33	93	278	2135		6.9	6.1	120	110	115	47	32		90	68.2	13.6	102	83.6	3.1	102	27.1	26.5	106	
STAMFORD		LANKART										70 PERCENT														
SLM	LT SP 30	7.9	17	91	289	2157		6.7	5.8	120	110	115	38	27	41	90	67.6	12.8	98	83.5	3.2	101	27.5	26.3	104	
SLM	SP 30	9.9	31	83	268	1985		6.3	5.4	110	100	105	74	52		80	63.9	13.0	89	83.0	3.4	99	26.5	26.0	105	
SLM	LT SP 30	8.2	26	88	283	2100		6.1	5.4	120	110	115	49	33		90	67.8	12.4	97	82.8	3.5	98	26.8	26.2	105	
SLM	LT SP 30	8.3	22	87	282	2085		6.5	5.7	120	110	115	59	38		90	65.6	12.4	92	81.8	3.4	96	27.4	26.0	103	
SUDAN		GREGG										100 PERCENT														
SLM	30	7.0	31	100	313	2352		6.8	5.8	120	110	115	58	40	38	80	71.8	11.8	102	82.8	3.0	100	27.4	26.0	103	
SLM	29	8.0	28	95	307	2273		6.7	6.0	120	110	115	54	32		80	70.0	12.0	99	82.6	3.1	99	28.3	25.6	100	
SLM	LT SP 29	8.0	37	99	319	2365		7.2	6.3	120	110	115	67	39		80	66.4	13.0	96	84.0	3.4	101	27.6	24.5	97	
VERNON		LOCKETT 4789										90 PERCENT														
SLM	LT SP 32	7.1	26	90	286	2134		6.5	5.0	120	110	115	50	33	41	100	66.7	12.5	94	81.9	3.3	97	27.7	26.5	105	
SLM	LT SP 32	8.4	13	96	302	2264		6.9	6.3	120	110	115	44	30		80	66.6	11.9	92	82.2	3.2	98	28.0	25.5	100	
SLM	LT SP 34	7.7	14	97	297	2255		7.1	6.6	120	110	115	50	33		90	66.5	11.8	91	81.8	3.2	97	27.4	25.6	102	

Table 5.--Cotton: Fiber test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification			Predominant variety, percentage of variety at gin, and fiber test results														
			Digital Fibrograph		Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer		Color of raw stock			Color of cleaned lint		
			2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	Pct.		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness	
Grade	Staple	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	rb	Index	Code	Rd	rb
TEXAS CONTINUED																	
WACO			LANKART 57			100 PERCENT											
M	LT SP	30	.94	44	3.6	79	39.1	20.2	6.2	2.2	3.3	75.2	10.1	101	453	76.7	10.3
M	LT SP	30	.96	42	3.4	83	41.1	21.1	6.0	2.2	3.9	75.1	10.2	100	453	76.2	10.8
M	LT SP	30	.91	44	3.5	87	43.1	20.0	5.0	1.6	2.7	73.8	9.6	98	553	78.0	9.6
WELLINGTON			MIXED MOSTLY GREGG														
LM	LT SP	30	.90	46	3.4	91	45.0	22.6	4.2	3.7	5.2	66.8	9.7	85	654	72.0	10.3
SLM	LT SP	30	.88	47	4.2	92	45.5	24.2	4.9	2.6	3.6	71.2	9.0	93	603	74.2	9.2
SLM	LT SP	30	.89	48	4.3	90	44.6	23.0	5.3	2.1	3.0	69.5	9.2	90	653	72.7	9.8
WELLMAN			LANKART 57			75 PERCENT											
M	LT SP	31	.96	45	4.2	73	36.1	19.5	6.9	.7	2.2	73.7	9.1	97	553	75.8	9.2
M	LT SP	31	.97	46	4.6	72	35.6	19.3	7.3	1.0	1.6	72.9	9.4	96	553	74.0	9.4
SLM	LT SP	31	.96	45	3.8	68	33.7	18.9	8.0	1.8	4.0	69.9	8.5	90	653	73.4	8.7
SLM	LT SP	30	.94	46	3.6	71	35.1	19.4	7.6	2.2	3.7	75.1	8.6	90	653	73.7	8.6
WILLS POINT			LANKART 57			85 PERCENT											
SLM	LT SP	30	.92	47	4.4	81	40.1	19.2	5.0	1.8	3.0	69.3	10.0	90	604	72.5	10.5
SLM	LT SP	30	.94	46	4.2	80	39.6	19.8	5.4	2.0	2.7	69.5	9.6	90	603	71.6	10.0
SLM	LT SP	30	.92	45	4.4	81	40.1	19.7	5.0	1.8	3.3	67.8	9.7	87	654	70.9	9.8



Table 5a.--Cotton: Carded yarn processing test results for short staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Heps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. poten- tial	Trash in fabric	Color-22s grey yarn			Color-22s blechd.yarn			Color-22s dyed yarn				
				8s or 73.8tex	22s or 26.8tex	Average brk.fctr.	8s or 73.8tex	22s or 26.8tex	8s or 73.8tex	22s or 26.8tex	Average	8s or 73.8tex	22s or 26.8tex			8s or 73.8tex	22s or 26.8tex	Rfct- ance	Yellow- ness	Com- posite	Rfct- ance	Yellow- ness	Com- posite	Rfct- ance	Blue- ness	Com- posite
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index	
TEXAS-----CONTINUED																										
WACO		LANKART 57 100 PERCENT																								
M	LT SP 30	7.3	34	91	287	2149	7.2	6.4	110	100	105	60	44	38	90	69.1	14.0	105	83.1	3.0	100	26.6	26.6	107		
M	LT SP 30	8.3	55	93	296	2207	7.1	6.4	110	90	100	74	43	90	68.6	14.0	104	83.7	3.4	100	27.6	26.0	103			
M	LT SP 30	8.6	49	87	278	2069	5.8	4.8	110	100	105	56	31	90	69.8	12.4	100	82.4	3.1	98	28.7	25.8	100			
WELLINGTON		MIXED-MOSTLY GREGG																								
LM	LT SP 30	9.0	38	102	314	2378	5.7	5.5	110	100	105	98	61	41	70	63.7	12.7	88	80.3	5.9	82	28.6	23.5	91		
SLM	LT SP 30	8.7	42	98	301	2282	5.5	5.3	110	110	110	59	38	80	67.8	12.2	96	82.6	4.0	96	28.5	25.5	99			
SLM	LT SP 30	6.7	27	99	317	2357	5.9	5.4	120	110	115	51	32	90	65.9	12.2	91	82.4	4.0	95	27.7	26.2	103			
WELLMAN		LANKART 57 75 PERCENT																								
M	LT SP 31	7.8	26	88	278	2080	7.0	6.0	120	110	115	54	40	41	90	69.0	11.8	97	82.7	2.9	100	27.5	26.0	103		
M	LT SP 31	7.3	30	87	279	2073	6.1	6.4	120	110	115	38	23	100	67.7	11.5	94	82.2	2.5	100	26.6	26.8	108			
SLM	LT SP 31	9.5	53	85	280	2055	7.0	5.9	110	100	105	87	53	80	66.6	11.2	89	81.0	3.3	94	26.5	26.1	105			
SLM	LT SP 30	8.9	26	88	286	2112	7.4	6.6	120	100	110	77	46	42	80	65.1	11.2	87	78.3	2.8	90	27.5	25.1	99		
WILLS POINT		LANKART 57 85 PERCENT																								
SLM	LT SP 30	7.8	21	87	279	2073	6.7	5.8	120	120	120	42	29	38	90	64.7	13.0	92	84.2	3.1	103	26.9	26.8	108		
SLM	LT SP 30	8.0	12	86	272	2034	6.5	5.3	120	110	115	54	35	80	65.6	12.7	92	82.4	3.0	99	29.2	25.7	98			
SLM	LT SP 30	7.4	22	83	263	1965	5.4	5.6	120	100	110	53	32	90	64.7	12.9	91	84.7	2.8	105	29.0	24.9	96			

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1960 -Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results														
		Digital Fibrograph		Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer		Color of raw stock			Color of cleaned lint		
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	Pct.		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness	
				Grade				Staple								Mpsi
		32d in.	In.	Pct.	Rdr											
ALABAMA																
ALBERTVILLE		COKER 100			100 PERCENT											
M	34	1.08	44	4.3	80	39.5	24.9	6.3	1.3	1.6	75.6	9.0	100	502	76.0	9.1
SLM	34	1.04	45	4.0	80	39.8	20.7	7.0	2.0	2.8	72.2	8.2	94	652	74.5	8.6
SLM	33	1.02	43	4.2	78	38.7	20.6	6.1	1.4	2.4	73.3	8.1	96	602	75.5	8.4
ALBERTVILLE		DIXIE KING			100 PERCENT											
M	34	1.04	46	4.2	80	39.7	21.4	5.8	1.0	1.5	76.3	9.0	101	502	78.3	8.7
SLM	34	1.06	45	4.0	84	41.5	21.4	6.2	1.2	1.7	73.3	8.7	96	602	75.0	9.2
SLM	33	1.02	42	4.0	--	39.2	20.6	6.1	.8	1.6	74.8	8.4	98	602	75.2	8.8
ATHENS		DPL 15			60 PERCENT											
SM	33	1.00	45	4.8	85	42.2	21.3	6.1	.9	1.5	77.0	9.0	102	502	78.0	9.0
SLM	34	1.04	45	3.9	84	41.3	23.1	5.8	1.4	2.6	74.2	8.9	98	552	74.5	9.2
SLM	34	.05	43	3.9	82	40.8	21.2	5.4	1.5	2.4	73.0	8.7	96	602	73.3	9.2
ATHORE		COKER 100			86 PERCENT											
M	34	1.06	45	4.2	79	39.0	20.1	6.2	1.8	2.4	76.5	8.8	101	502	75.8	8.5
M	34	1.05	44	4.2	81	40.2	21.9	5.9	1.4	2.1	75.7	8.5	100	552	77.6	9.2
LM	33	1.02	43	4.0	77	38.2	22.3	6.6	3.9	5.6	68.8	8.2	88	703	72.0	9.1
BOAZ		DEKALB			100 PERCENT											
M	34	1.08	46	4.2	80	39.4	24.9	6.6	1.3	1.8	75.4	9.4	100	502	76.5	9.4
SLM	34	1.06	44	4.0	77	38.3	19.9	6.6	1.8	2.9	71.8	8.6	93	603	74.5	9.4
SLM	33	1.04	44	4.2	81	40.0	20.2	7.0	1.7	3.0	73.0	8.6	95	602	75.5	8.9
CENTRE		AUBURN 56			100 PERCENT											
SLM	33	1.04	45	3.8	81	40.2	21.7	6.6	2.1	3.0	75.3	8.8	99	552	78.2	9.0
LM	34	1.07	44	3.7	79	39.3	20.9	6.6	3.3	4.4	70.8	8.4	91	652	74.2	8.6
SLM	33	.99	44	4.4	81	39.9	20.6	6.6	1.9	3.1	74.7	8.0	98	602	77.2	8.4
DECATUR		REX			80 PERCENT											
SM	34	1.03	47	4.4	82	40.5	19.9	6.2	1.2	1.7	76.3	8.5	101	552	77.2	8.5
SLM LT SP	34	1.05	46	4.3	82	40.4	21.6	6.0	2.2	2.9	71.5	9.6	94	603	73.3	9.9
M	33	1.03	43	4.2	85	41.9	20.8	5.6	.9	1.8	75.8	8.9	100	552	76.2	9.3
ECLECTIC		COKER 100			90 PERCENT											
M	34	1.06	47	4.8	84	41.5	20.6	6.1	1.4	1.6	75.5	9.2	100	502	76.3	9.2
M	34	1.07	47	4.4	84	41.7	22.9	6.1	1.5	1.9	76.0	8.8	100	502	78.2	9.0
SLM	34	1.08	45	4.3	85	42.0	20.3	6.0	1.6	1.9	73.5	8.4	96	602	74.2	8.9
GORDO		DIXIE KING			100 PERCENT											
SM	34	1.05	47	4.6	90	44.8	21.4	5.4	.7	1.3	77.7	8.8	102	452	77.4	8.5
M	34	1.07	46	4.2	88	43.3	23.5	5.7	1.2	1.9	78.0	8.8	103	452	79.5	8.8
M	34	1.04	44	3.9	83	41.1	21.2	5.6	1.3	2.1	76.0	8.7	100	552	76.2	8.5
HUNTSVILLE		EMPIRE			90 PERCENT											
SM	33	1.03	47	4.2	86	42.5	22.5	5.5	.9	1.4	77.3	8.8	102	502	78.0	8.8
M LT SP	34	1.05	44	4.1	86	42.7	21.8	5.9	1.2	2.0	72.5	9.8	96	553	73.5	9.8
M LT SP	34	1.05	43	4.0	83	41.1	19.5	5.5	1.1	2.0	72.0	9.3	94	603	74.0	9.2

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Heps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s bldch.yarn			Color 22s dyed yarn				
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			22s or 26.8tex	50s or 11.8tex	Rflect-ance	Yellow-ness	Com-posite	Rflect-ance	Yellow-ness	Com-posite	Rflect-ance	Blue-ness	Com-posite
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	rb.	Index	Rd	rb.	Index	Rd	rb.	Index	
ALABAMA																										
ALBERTVILLE		COKER 100																								
		100 PERCENT																								
M	34	7.2	46	114	41	2279	6.3	5.2	100	90	95	45	32	61	90	70.8	12.0	101	83.0	2.7	102	26.8	26.4	106		
SLM	34	8.8	39	108	37	2113	6.2	4.7	100	90	95	47	35	61	70	67.8	11.3	92	82.9	3.4	99	29.5	25.3	96		
SLM	33	7.2	38	98	30	1828	5.9	4.2	110	100	105	28	22	90	69.9	11.1	96	83.5	2.7	103	30.8	25.1	93			
ALBERTVILLE		DIXIE KING																								
		100 PERCENT																								
M	34	7.0	39	116	40	2276	6.3	4.9	100	100	100	25	17	58	100	71.4	12.0	102	82.4	2.9	99	26.8	26.6	107		
SLM	34	8.0	40	108	37	2113	6.0	4.4	100	90	95	34	28	80	68.9	11.6	96	83.6	3.1	102	29.2	25.3	97			
SLM	33	7.3	36	97	31	1842	6.1	4.1	100	100	100	24	21	90	71.0	11.4	99	83.8	2.9	103	29.8	25.5	96			
ATHENS		DPL 15																								
		60 PERCENT																								
SM	33	10.8	21	109	35	2074	5.8	4.3	110	100	105	21	15	48	100	72.0	12.0	103	81.3	3.0	96	26.7	26.9	108		
SLM	34	7.8	41	115	40	2265	6.3	4.9	100	90	95	42	34	80	69.5	12.2	99	81.3	3.6	94	28.9	25.4	98			
SLM	34	8.1	49	107	37	2102	6.0	4.8	90	90	90	38	29	80	68.6	11.6	95	82.5	3.8	96	30.4	24.8	93			
ATHORE		COKER 100																								
		86 PERCENT																								
M	34	7.3	17	112	39	2207	6.4	5.1	110	100	105	21	19	59	90	71.6	12.2	104	83.1	2.7	102	26.0	26.5	108		
M	34	7.8	31	109	38	2149	5.9	4.7	110	100	105	19	16	100	72.2	11.8	102	82.0	2.5	100	27.0	26.3	105			
LM	33	11.3	43	99	34	1939	5.8	4.4	100	90	95	63	43	70	66.3	11.3	89	82.0	2.9	98	29.5	25.4	97			
BOAZ		DEKALB																								
		100 PERCENT																								
M	34	7.7	27	118	43	2373	6.4	5.3	100	100	100	35	26	61	80	71.0	12.3	102	83.4	2.8	102	26.1	26.8	109		
SLM	34	9.4	25	106	37	2091	6.2	5.0	100	90	95	37	26	80	68.6	11.6	95	82.5	3.3	98	27.6	25.9	102			
SLM	33	8.0	29	102	33	1947	5.9	4.4	110	100	105	26	20	90	70.7	11.6	99	83.8	2.8	103	28.9	25.7	99			
CENTRE		AUBURN 56																								
		100 PERCENT																								
SLM	33	8.2	32	117	41	2312	6.5	5.4	100	100	100	31	24	57	90	70.4	12.3	101	82.8	2.9	100	26.6	26.1	105		
LM	34	10.2	44	108	38	2138	6.8	5.1	100	90	95	45	34	70	67.2	11.3	91	84.3	3.2	103	28.2	25.8	101			
SLM	33	7.6	24	102	31	1897	6.0	4.4	120	100	110	23	17	90	71.2	11.3	99	84.2	2.5	105	28.6	26.2	101			
DECATUR		REX																								
		80 PERCENT																								
SM	34	6.6	26	110	36	2110	6.4	4.6	110	100	105	13	12	49	100	72.6	11.8	103	82.9	2.5	102	26.1	27.1	110		
SLM LT SP	34	8.4	20	105	35	2030	5.7	4.5	110	100	105	24	20	90	67.6	12.8	97	80.1	4.0	90	27.8	25.9	102			
M	33	8.2	33	102	33	1947	5.6	4.0	100	90	95	21	18	100	71.1	12.1	102	83.7	3.2	101	28.2	26.3	103			
ECLLECTIC		COKER 100																								
		90 PERCENT																								
M	34	6.6	8	113	37	2168	5.7	4.6	120	110	115	16	10	52	90	71.6	12.0	102	82.6	2.9	100	25.6	27.1	111		
M	34	8.8	17	116	41	2301	5.7	4.7	110	100	105	17	17	100	72.2	11.8	102	82.2	2.6	100	27.2	26.6	106			
SLM	34	7.9	16	112	40	2232	5.9	4.6	120	100	110	21	13	100	69.4	11.4	96	83.1	2.9	101	28.7	25.9	100			
GORDO		DIXIE KING																								
		100 PERCENT																								
SM	34	5.9	22	120	39	2295	5.8	4.5	110	100	105	15	12	54	100	72.2	12.2	104	82.6	2.7	101	26.8	26.9	108		
M	34	7.8	22	121	43	2406	6.2	4.8	110	100	105	19	15	100	73.3	11.9	104	83.2	2.6	102	26.4	26.6	108			
M	34	6.9	35	111	38	2171	5.8	4.4	110	90	100	28	26	100	70.6	11.5	99	83.5	3.1	101	30.1	25.3	95			
HUNTSVILLE		EMPIRE																								
		90 PERCENT																								
SM	33	6.5	32	109	36	2099	5.9	4.7	110	100	105	24	14	54	100	72.7	12.1	104	82.6	2.7	101	25.7	27.2	111		
M LT SP	34	7.9	43	111	37	2146	6.0	4.3	100	90	95	37	28	90	66.2	12.8	95	81.9	4.8	91	28.5	25.5	99			
M LT SP	34	7.3	42	101	33	1936	5.5	4.2	100	90	95	37	29	90	66.6	12.1	93	81.3	5.1	88	29.6	24.8	94			

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results														
		Digital Fibrograph		Micro-naire	Fiber strength		Elongation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint		
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge		Visible waste	Total waste	Reflectance	Yellowness	Composite		Reflectance	Yellowness	
Grade	Staple	In.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Pct.	Ra	+b	Index	Code	Rd	+b	
ALABAMA CONTINUED																
PRATTVILLE		AUBURN 56			100 PERCENT											
SM	33	1.01	45	3.7	86	42.7	20.5	5.6	.6	1.4	76.5	9.2	101	502	76.8	9.4
M	33	.99	45	4.0	85	42.0	22.1	6.4	1.1	1.9	76.7	8.7	101	502	79.5	8.6
SLM	32	.97	45	4.0	82	40.4	20.9	5.8	1.4	2.3	74.5	8.8	98	552	74.3	9.1
TONEY		EMPIRE			90 PERCENT											
SM	33	1.03	45	4.3	84	41.8	22.0	5.6	.6	1.4	78.0	9.0	103	452	79.2	8.8
SLM	33	1.04	45	4.0	84	41.6	21.2	6.2	1.3	2.1	75.0	9.2	99	553	75.0	9.4
SLM	33	1.03	42	3.8	83	40.9	20.6	6.0	1.2	2.2	74.0	8.6	98	602	75.3	8.8
TROY		AUBURN 56			70 PERCENT											
M	33	1.01	46	4.5	84	41.5	19.9	6.2	.7	1.5	75.5	9.4	100	501	74.1	9.2
M	33	1.02	46	4.2	82	40.8	21.3	6.2	1.8	2.0	76.2	8.9	101	502	76.2	9.2
M	33	1.02	45	4.6	83	40.9	22.3	5.8	1.3	2.2	75.8	8.8	100	552	75.8	8.8
ARIZONA BUCKEYE		DPL SM. LEAF			95 PERCENT											
SLM LT SP	34	1.06	45	5.2	83	41.1	21.9	6.1	1.5	2.2	69.8	9.6	90	603	73.2	9.8
SLM	34	1.05	45	5.1	82	40.6	22.7	5.6	1.2	2.4	74.5	8.6	98	552	76.6	9.0
M	34	1.06	45	5.1	81	40.1	21.8	6.4	1.0	1.8	77.2	8.1	101	551	80.1	7.9
SLM	33	1.04	41	3.8	83	41.1	22.5	6.6	1.3	2.4	74.8	7.5	97	601	78.0	7.6
CASA GRANDE		DPL SM. LEAF			100 PERCENT											
SLM	34	1.06	46	5.0	82	40.6	22.6	6.4	1.3	2.1	72.9	8.6	96	602	78.1	8.8
M LT SP	34	1.04	44	4.8	81	40.1	21.9	6.1	1.7	3.3	72.6	9.2	96	603	74.9	9.8
SLM	34	1.07	45	4.8	80	39.6	21.9	6.2	2.1	3.0	74.3	8.2	98	602	79.1	8.5
SLM	34	1.06	43	3.9	86	42.6	22.6	6.2	2.6	3.9	74.9	8.0	98	602	78.2	8.1
CASA GRANDE		DPL SM. LEAF			100 PERCENT											
M LT SP	33	1.02	46	5.3	82	40.6	23.7	5.8	1.1	1.7	72.8	9.4	96	553	76.4	9.6
M	34	1.04	44	5.1	81	40.1	22.8	6.2	.8	1.7	75.2	8.5	99	552	78.0	8.6
M	33	1.02	45	5.2	84	41.6	23.0	5.8	.8	1.8	75.7	8.7	100	552	79.1	8.5
SLM	34	1.06	42	4.6	83	41.1	22.5	6.1	1.3	2.5	74.4	7.7	97	601	78.1	7.6
ELOY		DPL SM. LEAF			100 PERCENT											
SLM	34	1.08	44	4.8	87	43.1	21.4	4.7	1.8	2.9	72.8	8.9	96	603	76.9	9.3
SLM	34	1.08	44	4.6	87	43.1	21.0	5.7	1.6	2.5	74.4	8.2	98	602	78.1	8.1
SLM	33	1.07	44	4.8	84	41.6	21.9	6.2	1.6	2.8	76.8	8.2	101	552	79.7	8.5
MARICOPA		STONEVILLE 7 A			100 PERCENT											
M LT SP	34	1.08	43	5.1	92	45.5	21.7	4.2	1.8	2.3	74.0	9.5	98	553	76.3	9.6
SLM	34	1.08	45	5.4	90	44.6	22.8	4.2	1.5	2.4	75.2	8.8	100	552	77.9	9.0
SLM	34	1.03	45	4.6	87	43.1	21.5	4.2	2.3	3.8	76.6	8.4	100	552	77.9	9.1
LM	33	1.00	40	3.8	84	41.6	20.6	4.2	3.3	4.5	70.9	7.9	91	652	76.1	8.3
MARICOPA		DPL SM. LEAF			100 PERCENT											
M LT SP	34	1.04	44	5.0	83	41.1	23.7	5.8	1.5	2.6	72.7	9.2	96	603	75.9	9.8
M LT SP	34	1.06	43	5.2	79	39.1	21.9	6.1	1.0	2.0	72.8	9.7	96	553	75.6	9.2
M	33	1.04	45	5.0	86	42.6	23.6	5.8	1.5	2.6	75.6	8.4	99	552	78.5	8.3
SLM	33	1.00	43	4.1	83	41.1	22.2	6.6	1.6	3.0	75.0	8.0	98	602	79.3	7.8

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of:1962 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																									
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s blchd. yarn		Color 22s dyed yarn						
				22s or 26.8tex	50s or 11.8tex	Average brk. fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			22s or 26.8tex	50s or 11.8tex	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	Blue-ness	Com-posite	
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index		
ALABAMA-----CONTINUED																											
PRATTVILLE		AUBURN 56										100 PERCENT															
SM	33	6.1	24	108	35	2063	5.8	4.6	110	100	105	14	12	49	100	72.4	12.2	104	83.3	3.3	100	27.7	25.9	102			
M	33	7.4	31	103	34	1983	5.7	4.4	110	100	105	18	17		100	72.5	11.8	103	82.2	2.7	100	28.3	25.7	100			
SLM	32	8.6	39	99	23	1538	5.9	4.5	100	80	90	30	20		90	70.0	11.8	99	83.0	3.5	98	31.1	24.9	91			
TONEY		EMPIRE										90 PERCENT															
SM	33	8.8	29	111	39	2196	6.0	4.6	100	100	100	27	18	54	100	73.0	12.4	106	82.1	2.7	100	26.0	27.1	110			
SLM	33	7.8	35	111	37	2146	5.9	4.5	110	90	100	42	31		90	70.1	12.3	100	82.8	3.2	99	29.2	25.5	100			
SLM	33	7.0	43	103	35	2008	5.9	4.3	100	90	95	33	27		80	69.4	11.7	97	83.7	3.8	99	30.2	25.2	94			
TROY		AUBURN 56										70 PERCENT															
M	33	6.5	13	107	35	2052	6.2	4.7	120	110	115	16	11	48	90	70.0	12.6	102	82.7	2.9	100	26.6	26.5	107			
M	33	7.6	18	105	34	2005	5.6	4.3	110	90	100	20	15		100	72.1	12.1	103	81.8	3.0	98	27.9	25.6	101			
M	33	8.0	24	102	31	1897	5.5	3.9	110	100	105	24	17		100	71.4	11.6	101	82.2	2.5	100	28.5	26.0	101			
ARIZONA																											
BUCKEYE		DPL SM. LEAF										95 PERCENT															
SLM	LT SP	34	7.2	12	101	34	1961	5.9	4.2	120	100	110	20	13	56	90	67.3	12.4	96	82.0	2.6	100	27.5	27.9	111		
SLM	34	7.5	19	97	32	1867	5.3	4.0	120	110	115	21	14		100	72.2	11.6	102	84.4	2.1	107	27.8	26.2	103			
M	34	6.1	15	97	34	1917	5.4	4.2	110	100	105	20	14		100	72.8	10.7	100	83.6	2.3	105	26.5	27.4	110			
SLM	33	7.0	23	99	34	1939	6.0	4.3	100	90	95	41	31	55	90	72.2	10.2	98	84.3	2.3	106	28.5	26.2	102			
CASA GRANDE		DPL SM. LEAF										100 PERCENT															
SLM	34	6.1	10	109	39	2174	5.9	4.9	120	110	115	14	10	59	100	71.4	11.8	101	83.4	2.6	103	26.8	27.2	109			
M	LT SP	34	7.7	15	98	34	1928	5.8	4.1	120	110	115	21	16		100	71.0	11.5	99	83.2	2.6	102	28.3	26.0	101		
SLM	34	7.6	14	104	37	2069	6.1	5.0	110	100	105	22	17		90	72.7	11.2	101	84.3	2.5	105	28.1	26.7	104			
SLM	34	11.5	21	105	37	2080	5.9	4.6	110	100	105	38	26	59	80	72.2	10.9	100	84.3	2.5	105	27.9	26.0	102			
CASA GRANDE		DPL SM. LEAF										100 PERCENT															
M	LT SP	33	7.9	22	99	33	1914	5.6	4.0	110	100	105	20	16	50	90	67.1	11.8	93	82.3	2.7	100	25.6	27.7	114		
M	34	6.5	17	100	33	1925	5.6	4.2	110	100	105	16	12		100	73.8	11.4	104	83.4	2.3	104	28.0	26.5	104			
M	33	6.0	19	93	29	1748	5.0	3.5	120	100	110	16	14		110	73.4	11.0	102	83.7	2.4	104	27.4	26.6	106			
SLM	34	7.1	25	95	31	1820	5.6	3.8	100	90	95	33	20	51	90	72.3	10.2	98	82.5	2.3	102	30.0	25.9	98			
ELOY		DPL SM. LEAF										100 PERCENT															
SLM	34	7.4	20	101	35	1986	5.5	4.3	110	100	105	22	17	57	100	71.0	12.0	101	82.4	2.5	101	27.8	27.1	107			
SLM	34	7.2	27	100	35	1975	5.3	4.3	110	100	105	28	18		100	71.8	11.2	100	83.4	2.6	103	28.4	26.5	103			
SLM	33	7.2	19	101	35	1986	5.7	4.7	110	100	105	24	15		90	73.4	11.2	103	83.6	2.6	104	28.0	26.3	103			
MARICOPA		STONEVILLE 7 A										100 PERCENT															
M	LT SP	34	6.8	14	96	32	1856	4.9	3.7	110	100	105	38	24	52	90	71.7	12.0	102	82.9	2.5	102	28.2	26.5	104		
SLM	34	7.6	16	95	32	1845	4.6	3.8	120	110	115	25	15		100	74.3	11.6	105	83.2	2.1	104	28.4	26.4	103			
SLM	34	9.0	21	94	32	1834	4.6	3.5	100	90	95	33	28		90	72.6	11.1	101	83.9	2.4	105	27.6	26.2	103			
LM	33	9.1	34	95	32	1845	5.1	3.9	100	90	95	58	37	49	80	70.5	11.2	98	81.4	2.9	97	29.8	25.5	96			
MARICOPA		DPL SM. LEAF										100 PERCENT															
M	LT SP	34	8.9	29	98	33	1903	5.5	4.1	110	100	105	28	19	51	90	69.3	11.9	98	80.0	2.9	94	26.4	27.0	109		
M	LT SP	34	7.8	21	95	32	1845	5.7	4.2	120	100	110	23	15		90	69.7	12.2	99	83.1	2.3	103	27.1	26.4	105		
M	33	6.7	16	95	32	1845	5.2	3.7	120	110	115	27	18		90	73.4	11.0	102	83.1	2.2	104	26.7	26.6	107			
SLM	33	7.9	34	91	30	1751	5.2	3.8	100	80	90	43	31	46	90	72.4	10.7	99	82.5	2.5	101	28.1	26.2	102			

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results																
		Digital Fibrograph		Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer		Color of raw stock			Color of cleaned lint				
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	Visible waste		Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness				
Grade	Staple	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	R <sub>a</sub>	+b	Index	Code	R <sub>a</sub>	+b	
ARIZONA CONTINUED																		
PEORIA		DPL SM. LEAF			100 PERCENT													
SM	LT GR	34	1.08	47	5.3	85	42.1	22.8	6.0	.9	1.4	72.1	8.3	94	602	77.9	8.4	
M	LT SP	34	1.08	46	5.0	81	40.1	23.0	5.7	1.2	2.1	74.9	9.0	99	552	77.5	9.2	
M		34	1.05	45	5.1	83	41.1	21.6	6.6	.8	1.4	75.1	8.2	99	602	77.7	8.5	
SLM		34	1.07	43	3.5	85	42.1	22.3	6.6	1.2	2.4	76.8	7.2	100	601	79.1	7.1	
YUMA		DPL SM. LEAF			100 PERCENT													
M	LT SP	34	1.08	47	5.1	86	42.6	25.2	5.8	1.4	2.2	73.1	10.1	97	503	74.6	10.4	
SLM		35	1.09	43	4.6	78	38.6	22.1	6.1	2.2	3.5	72.8	8.9	96	603	77.2	9.3	
SLM		34	1.04	44	4.6	82	40.6	23.3	5.9	1.6	2.7	75.1	7.8	98	601	78.9	8.1	
SLM		34	1.07	44	4.4	86	42.6	23.0	5.4	1.8	3.0	74.5	7.6	97	601	79.0	7.7	
LM		33	1.04	38	3.4	88	42.6	22.9	5.8	2.7	4.8	72.3	7.2	93	651	74.9	7.4	
TEMPE		DPL SM. LEAF			95 PERCENT													
SLM		34	1.06	43	4.8	85	42.1	23.2	5.8	1.6	2.5	72.2	8.8	95	603	75.9	9.2	
SLM		34	1.05	44	4.6	86	42.6	22.2	5.1	1.4	2.6	72.9	9.0	96	603	75.7	9.5	
M		34	1.07	44	4.8	86	42.6	22.6	5.4	1.7	2.8	75.9	8.4	100	552	79.4	8.3	
SLM		34	1.03	42	4.1	91	45.0	23.2	5.2	2.6	4.0	72.8	8.4	95	602	77.2	8.5	
ARKANSAS		REX			95 PERCENT													
BLYTHEVILLE																		
LM		34	1.06	43	4.2	77	38.1	20.4	5.0	2.2	3.6	67.9	8.8	87	703	72.3	9.0	
SLM		34	1.05	42	4.2	81	40.1	20.0	5.0	1.5	2.8	72.1	8.2	94	652	74.3	8.3	
SLM		34	1.05	42	4.1	81	40.1	19.3	5.0	1.5	2.3	73.1	8.1	96	602	75.2	8.0	
CORNING		STARDEL			100 PERCENT													
SLM		34	1.08	46	4.7	88	43.6	22.9	5.0	1.5	2.1	70.9	9.0	92	603	74.7	9.0	
COY		DELFO5 9169			99 PERCENT													
SLM		35	1.12	43	3.7	78	38.6	21.6	5.9	2.2	3.3	71.9	8.2	93	652	75.1	8.4	
SLM		35	1.10	41	3.8	80	39.6	19.6	5.4	1.5	2.6	72.9	8.1	95	602	74.9	8.6	
SLM	LT SP	34	1.06	43	4.3	81	40.1	19.3	5.4	1.5	2.7	68.7	8.8	88	653	69.2	9.2	
DERMOTT		REX			90 PERCENT													
M		33	1.00	45	4.6	89	44.1	20.5	4.4	.8	2.0	73.5	9.6	98	553	76.1	9.7	
M		32	.95	45	4.6	81	40.1	19.4	4.6	.8	2.1	74.5	9.0	99	552	76.2	9.2	
SLM	LT SP	32	.95	43	4.6	81	40.1	18.0	4.7	1.6	3.6	67.2	9.6	86	654	70.0	9.6	
EARLE		REX			100 PERCENT													
SLM		34	1.04	45	4.2	80	39.6	20.1	4.9	1.4	2.6	70.4	9.1	91	603	74.9	9.3	
LM		34	1.03	44	4.8	85	42.1	18.9	4.2	4.2	5.3	66.8	8.8	85	703	72.0	9.0	
LM	LT SP	33	1.02	43	4.4	79	39.1	17.7	4.4	2.2	3.6	63.0	9.3	79	754	66.7	9.9	
HELENA		DPL SM. LEAF			100 PERCENT													
M		35	1.14	47	4.8	81	40.1	22.9	6.2	1.0	1.9	75.9	8.6	100	552	78.1	8.8	
SLM		35	1.10	45	4.8	79	39.1	21.9	6.2	1.6	2.8	74.9	7.9	98	602	79.1	7.9	
SLM		34	1.02	45	4.7	81	40.1	21.7	6.3	2.0	3.4	73.3	7.9	96	602	76.8	8.0	

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imperfections		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s bleached yarn			Color 22s dyed yarn				
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			22s or 26.8tex	50s or 11.8tex	Reflectance	Yellowness	Composite	Reflectance	Yellowness	Composite	Reflectance	Blue-ness	Composite
Grade	Staple	3rd in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index	
ARIZONA-----CONTINUED																										
PEORIA		DPL SM. LEAF										100 PERCENT														
SM	LT GR 34	6.6	12	104	36	2044	5.9	4.2	120	110	115	34	20	55	90	70.7	11.3	98	82.4	2.7	102	26.8	28.2	113		
M	LT SP 34	6.0	20	107	37	2102	5.9	4.4	110	100	105	24	17	100	71.8	11.7	102	84.2	2.2	105	26.7	27.0	109			
M	34	5.9	24	96	34	1906	5.6	4.3	120	100	110	20	16	100	73.2	11.0	101	84.2	2.1	107	27.8	27.0	106			
SLM	34	6.2	29	108	38	2138	6.2	5.2	100	90	95	33	27	64	90	71.3	10.2	96	84.2	2.6	105	28.1	24.8	97		
YUMA		DPL SM. LEAF										100 PERCENT														
M	LT SP 34	8.0	16	109	39	2174	5.9	4.7	120	110	115	24	17	61	90	70.2	12.7	102	81.7	2.6	99	28.3	26.1	102		
SLM	35	8.0	24	100	37	2025	5.9	5.0	110	100	105	26	23	90	71.5	12.3	103	83.2	2.7	102	26.6	26.4	106			
SLM	34	7.0	16	101	35	1986	5.4	4.4	110	100	105	27	19	80	73.0	10.7	100	84.3	2.5	106	28.4	26.6	104			
SLM	34	8.5	26	102	36	2022	5.7	4.1	110	100	105	29	25	55	90	73.5	10.4	100	83.8	2.6	104	28.3	26.7	104		
LM	33	7.7	38	100	32	1900	5.7	4.2	90	90	90	54	43	70	69.4	09.8	90	79.0	2.9	91	28.3	26.5	95			
TEMPE		DPL SM. LEAF										95 PERCENT														
SLM	34	7.7	13	100	35	1975	5.8	4.4	120	100	110	28	20	53	90	71.7	11.5	100	82.1	2.7	99	26.0	28.2	115		
SLM	34	7.7	17	94	32	1834	5.6	3.8	120	100	110	31	23	80	71.9	12.0	103	84.2	2.7	104	27.6	26.3	104			
M	34	7.9	14	95	32	1845	4.9	3.9	110	110	110	30	21	80	72.8	11.5	103	82.5	2.6	101	29.1	25.3	97			
SLM	34	8.6	21	100	34	1950	5.2	4.0	100	90	95	47	33	54	80	69.5	11.1	95	81.1	2.9	96	28.1	26.2	102		
ARKANSAS																										
BLYTHEVILLE		REX										95 PERCENT														
LM	34	10.1	32	89	30	1729	5.6	4.0	100	90	95	52	30	50	70	63.8	11.6	85	82.5	3.1	99	27.0	26.6	106		
SLM	34	7.6	22	89	29	1704	5.4	3.9	110	90	100	27	22	90	68.9	11.0	93	82.7	2.7	101	28.5	27.0	105			
SLM	34	8.2	30	87	29	1682	5.4	3.9	110	90	100	35	23	90	69.2	10.6	93	83.5	2.4	104	28.8	24.7	95			
CORNING		STARDEL										100 PERCENT														
SLM	34	7.6	17	108	39	2163	5.3	4.3	120	110	115	27	19	58	80	66.1	11.6	90	82.8	3.1	100	27.9	25.8	101		
COY		DELFO5 9169										99 PERCENT														
SLM	35	9.7	43	100	38	2050	5.9	4.6	100	90	95	44	32	59	80	68.5	11.6	95	83.8	2.8	103	28.2	25.8	101		
SLM	35	8.0	39	93	31	1798	5.5	4.0	110	100	105	27	22	80	67.7	10.6	90	84.5	2.7	105	28.0	25.9	102			
SLM	LT SP 34	8.0	41	83	25	1538	5.0	3.2	100	90	95	46	22	90	63.9	11.2	84	83.0	2.7	102	30.0	25.4	96			
DERMOTT		REX										90 PERCENT														
M	33	6.5	23	92	30	1762	5.1	3.7	110	100	105	17	12	48	90	70.4	12.2	101	83.3	2.9	102	27.7	26.5	105		
M	32	7.1	12	84	24	1524	4.9	3.2	110	100	105	17	10	100	70.8	11.8	100	83.2	2.6	102	28.9	25.9	100			
SLM	LT SP 32	8.5	21	67	19	1212	4.0	2.4	110	100	105	26	21	90	64.9	11.8	88	83.3	2.8	102	31.7	24.6	89			
EARLE		REX										100 PERCENT														
SLM	34	7.6	24	93	31	1798	5.6	4.0	110	100	105	20	17	52	100	66.1	11.8	90	82.3	3.4	97	28.0	25.7	101		
LM	34	9.3	13	83	26	1563	5.1	3.9	120	110	115	28	16	90	66.0	11.6	89	82.4	3.1	99	27.7	27.6	109			
LM	LT SP 33	8.5	23	76	23	1433	4.6	2.8	120	100	110	26	24	90	60.8	11.5	79	81.2	3.4	95	29.8	24.9	94			
HELENA		DPL SM. LEAF										100 PERCENT														
M	35	7.0	22	116	43	2351	6.3	5.3	110	100	105	24	19	67	80	72.4	11.8	103	82.6	2.6	101	25.8	27.2	111		
SLM	35	7.3	12	103	35	2008	6.0	4.6	120	100	110	17	13	100	72.3	10.8	100	82.7	2.1	103	26.6	28.0	113			
SLM	34	8.0	25	95	31	1820	5.6	4.1	100	100	100	21	18	100	71.8	10.6	98	83.6	2.0	106	28.2	25.8	101			

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph		Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint		
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	Pct.		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness		
Grade	Staple	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
ARKANSAS CONTINUED																	
HOLLY GROVE		DPL. SM. LEAF				90 PERCENT											
SLM	34	1.05	46	4.0	80	39.6	21.4	5.9	2.1	3.0	72.9	8.5	95	602	75.7	8.7	
SLM	34	1.04	43	4.6	79	39.1	21.2	6.2	1.4	2.1	72.9	8.4	95	602	76.1	8.1	
SLM	LT SP	33	1.02	44	4.6	78	38.6	19.4	5.8	1.5	3.1	69.1	9.0	89	653	72.2	9.0
HUGHES		DPL. SM. LEAF				75 PERCENT											
M	35	1.08	46	4.2	85	42.1	21.3	5.1	.9	2.0	75.7	9.0	100	502	79.1	8.9	
SLM	35	1.09	45	4.6	80	39.6	22.5	6.6	1.0	2.1	73.3	8.4	96	602	77.2	8.3	
M	35	1.07	44	4.6	81	40.1	20.7	5.9	1.0	2.3	77.1	8.1	101	551	78.3	8.1	
HUGHES		MIXED-MAINLY DPL15				75 PERCENT											
SLM	35	1.10	46	4.3	82	40.6	20.4	5.0	2.0	3.4	73.4	8.7	97	602	77.6	8.5	
LM	LT SP	35	1.06	44	4.2	82	40.6	19.6	4.5	4.8	65.2	8.9	82	703	66.6	9.0	
LM	35	1.05	44	4.2	81	40.1	19.4	5.0	3.6	5.0	69.4	7.6	88	702	75.1	7.8	
HUGHES		DIXIE KING				100 PERCENT											
M	35	1.08	44	4.4	89	44.1	22.5	4.6	2.1	3.3	74.7	8.8	98	552	77.6	8.6	
LM	35	1.08	46	4.4	86	42.6	21.0	4.2	4.5	5.9	70.6	8.0	91	652	73.9	8.6	
SLM	35	1.06	45	4.4	86	42.6	20.8	4.1	2.2	3.7	73.2	7.8	95	652	75.5	8.3	
LEACHVILLE		STONEVILLE 7				100 PERCENT											
SLM	LT SP	35	1.11	45	4.4	87	43.1	21.9	5.0	1.9	3.2	68.9	9.0	88	653	72.4	9.6
SLM	LT SP	35	1.07	46	4.6	88	43.6	22.1	5.0	2.6	3.8	68.5	8.9	88	653	71.9	9.2
SLM	LT SP	35	1.07	44	4.4	82	40.6	20.5	4.6	2.4	3.6	69.3	8.9	90	653	72.8	9.1
LEACHVILLE		DELFO5 9169				100 PERCENT											
SLM	LT SP	35	1.12	42	3.9	81	40.1	21.2	5.7	1.8	2.9	70.0	9.2	90	653	72.8	9.4
SLM	35	1.12	43	3.8	82	40.6	21.4	5.7	1.7	2.8	71.9	8.5	94	602	74.2	8.8	
SLM	35	1.08	42	3.7	81	40.1	21.3	5.3	1.5	2.5	73.1	8.1	96	602	74.9	8.3	
LITTLE ROCK		STONEVILLE 7				75 PERCENT											
SLM	34	1.06	44	4.2	82	40.6	21.1	4.8	2.8	4.2	72.2	8.4	94	602	75.7	8.7	
LM	34	1.03	47	4.9	85	42.1	20.2	5.5	3.3	4.6	69.1	8.2	88	702	73.7	8.6	
SLM	35	1.10	44	4.5	82	40.6	19.9	5.8	1.3	3.5	74.2	8.0	97	602	76.3	8.4	
LITTLE ROCK		REX				100 PERCENT											
SLM	33	1.04	41	3.6	80	39.6	20.7	4.7	1.8	3.1	71.9	8.9	94	603	76.1	9.1	
SLM	LT SP	33	1.01	41	4.0	77	38.1	18.8	5.0	1.4	3.0	70.0	9.1	91	653	72.5	9.2
SLM	LT SP	33	1.01	42	4.0	80	39.6	18.6	4.6	1.5	3.1	68.1	9.3	88	653	72.4	9.2
MARKED TREE		DPL SM. LEAF				100 PERCENT											
SLM	LT SP	33	1.04	45	4.6	81	40.1	22.0	6.4	2.4	3.1	69.4	8.6	89	653	74.2	9.0
SLM	LT SP	34	1.06	45	4.7	82	40.6	21.8	6.2	2.2	3.2	69.7	8.6	90	653	74.6	8.3
SLM	34	1.06	43	4.7	76	37.6	21.0	6.6	1.0	2.0	73.8	7.9	95	602	78.1	7.8	
MCGEHEE		DELFO5 9169				100 PERCENT											
SLM	35	1.12	44	3.6	85	42.1	22.0	5.7	1.5	2.4	73.1	8.7	96	602	75.3	8.8	
SLM	35	1.14	43	4.2	78	38.6	20.6	6.0	1.7	2.9	73.8	8.2	97	602	77.2	8.8	
SLM	LT SP	34	1.07	40	3.4	81	40.1	20.5	5.9	2.2	4.4	69.6	8.9	90	653	74.0	8.9



Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																						
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imperfnns.		Spin. poten- tial	Trash in fabric	Color-22s grey yarn			Color 22s blchd. yarn			Color 22s dyed yarn		
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			Rfct- ance	Yellow- ness	Com- posite	Rfct- ance	Yellow- ness	Com- posite	Rfct- ance	Blue- ness	Com- posite
Grade	Staple	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Ra	tb	Index	Ra	tb	Index	Ra	-b	Index
ARKANSAS---CONTINUED																								
HOLLY GROVE		DPL. SM. LEAF											90 PERCENT											
SLM	34	8.4	21	102	37	2047	6.5	4.7	110	100	105	29	19	59	90	68.1	11.7	94	82.9	2.9	100	28.1	25.9	101
SLM	34	7.2	14	97	32	1867	6.0	5.0	120	100	110	20	13		90	70.2	10.6	95	82.8	2.2	103	28.2	26.4	103
SLM	LT SP 33	8.5	19	86	27	1621	4.8	3.3	120	100	110	20	16		100	66.5	11.5	90	83.0	2.7	102	28.9	25.6	99
HUGHES		DPL. SM. LEAF											75 PERCENT											
M	35	7.4	25	106	38	2116	6.2	5.1	120	100	110	27	19	66	80	71.7	12.1	103	83.8	3.0	103	26.1	26.8	109
SLM	35	7.0	14	100	35	1975	5.8	4.6	120	110	115	25	20		90	69.4	10.6	93	82.4	2.4	101	27.6	26.6	105
M	35	7.3	19	98	33	1903	5.8	4.5	120	100	110	18	16		100	72.9	10.6	100	84.0	2.2	106	27.7	25.5	101
HUGHES		MIXED-MAINLY DPLIS																						
SLM	35	8.1	16	101	36	2011	5.8	4.5	120	100	110	24	17	61	90	70.0	11.4	97	82.4	2.7	100	27.0	27.6	110
LM	LT SP 35	11.2	22	89	30	1729	5.0	3.8	120	110	115	30	20		90	61.1	11.2	79	80.1	3.0	94	28.3	25.5	100
LM	35	9.8	28	92	32	1812	5.0	4.1	120	110	115	32	18		80	67.8	10.3	89	82.5	2.7	100	29.4	25.7	98
HUGHES		DIXIE KING											100 PERCENT											
M	35	8.0	15	103	36	2033	5.1	4.1	120	100	110	24	12	58	90	70.8	11.9	100	83.1	2.7	102	28.4	25.8	101
LM	35	10.2	13	99	35	1964	5.4	4.1	120	110	115	34	19		90	68.3	11.1	92	82.2	2.7	100	27.8	26.3	104
SLM	35	8.6	13	94	32	1834	5.2	3.9	120	100	110	22	13		80	71.1	10.6	97	83.2	2.3	103	30.0	24.8	93
LEACHVILLE		STONEVILLE 7											100 PERCENT											
SLM	LT SP 35	8.8	19	100	35	1975	5.0	4.2	110	100	105	34	22	61	80	64.9	12.0	88	82.5	3.1	99	27.9	25.8	101
SLM	LT SP 35	8.8	18	100	34	1950	5.4	4.1	110	110	110	26	16		90	65.1	11.6	88	81.8	3.0	98	27.9	26.8	105
SLM	LT SP 35	8.2	19	93	33	1848	5.5	4.1	120	100	110	36	20		100	65.4	11.8	89	82.6	2.7	101	29.3	24.6	94
LEACHVILLE		DELFOF 9169											100 PERCENT											
SLM	LT SP 35	8.4	12	104	37	2069	5.6	4.6	110	100	105	28	18	62	80	64.6	12.0	87	83.9	3.0	103	28.0	25.7	101
SLM	35	7.0	18	103	36	2033	5.9	4.7	110	100	105	25	20		90	67.7	11.3	92	82.9	2.8	101	27.5	27.5	109
SLM	35	8.0	31	102	36	2022	6.0	4.6	110	100	105	28	22		80	68.3	10.9	92	84.2	2.8	104	29.8	24.5	92
LITTLE ROCK		STONEVILLE 7											75 PERCENT											
SLM	34	9.6	22	95	33	1870	5.8	4.3	110	100	105	31	21	56	90	68.5	11.5	94	83.1	2.9	101	28.0	25.5	100
LM	34	9.4	12	92	30	1762	5.5	3.9	120	110	115	24	16		90	67.0	10.9	89	82.1	2.6	100	29.0	26.1	100
SLM	35	7.6	19	98	34	1928	5.7	4.3	110	100	105	26	20		90	71.3	11.0	98	83.9	2.6	104	27.6	25.5	101
LITTLE ROCK		REX											100 PERCENT											
SLM	33	8.3	26	87	29	1682	5.2	3.9	100	100	100	40	31	48	90	68.0	11.8	94	82.9	3.1	100	28.1	26.7	105
SLM	LT SP 33	8.4	32	76	22	1386	4.9	3.2	110	90	100	36	28		90	65.9	11.8	90	83.0	2.5	102	28.6	25.7	100
SLM	LT SP 33	9.2	38	75	22	1375	4.8	3.1	100	90	95	36	29		90	64.7	11.7	87	83.6	2.6	103	29.6	25.0	95
MARKED TREE		DPL SM. LEAF											100 PERCENT											
SLM	LT SP 33	8.6	18	101	34	1961	5.9	4.3	110	100	105	23	20	55	90	64.8	11.6	87	82.7	3.1	99	26.4	26.7	108
SLM	LT SP 34	9.0	14	95	31	1820	5.5	4.5	120	100	110	18	18		90	65.9	10.6	86	82.7	2.5	102	27.4	27.5	109
SLM	34	8.2	17	98	34	1928	6.3	4.9	120	100	110	26	15		100	70.8	10.6	96	83.1	2.3	104	26.8	26.6	107
MCGHEE		DELFOF 9169											100 PERCENT											
SLM	35	7.9	38	111	41	2246	6.2	5.1	110	100	105	28	25	67	80	68.7	11.5	95	84.0	3.0	103	28.7	25.4	98
SLM	35	8.0	15	97	34	1917	5.9	4.6	120	100	110	21	15		90	70.4	11.3	98	83.2	2.6	102	28.1	27.1	106
SLM	LT SP 34	9.2	55	94	32	1834	5.9	4.3	100	90	95	37	30		90	66.6	11.6	90	84.1	2.8	104	29.7	24.3	92

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962, Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph			Micro-naire	Fiber strength			Elongation 1/8"	Shirley Analyzer			Color of raw stock			Color of cleaned lint	
		2.5% span length	50/2.5 unif.	Pct.		Zero gauge	1/8" gauge	G/tex		Visible waste	Total waste	Reflectance	Yellowness	Composite	Reflectance	Yellowness	
Grade	Staple	3rd in.	In.	Pct.	Edg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
ARKANSAS CONTINUED																	
OSCEOLA		REX			90 PERCENT												
SLM	LT SP	34	1.08	43	4.2	79	39.1	20.2	5.3	2.6	3.8	69.9	9.1	90	653	74.0	9.2
SLM	LT SP	34	1.08	46	4.4	80	39.6	21.5	5.2	2.6	3.9	69.3	8.7	89	653	73.6	9.2
SLM		35	1.06	45	4.6	84	41.6	21.1	5.1	1.9	2.8	73.1	8.3	96	602	74.8	8.7
PARKIN		REX			100 PERCENT												
M		34	1.07	44	4.4	85	42.1	20.1	4.6	1.0	2.1	73.8	9.2	98	553	76.9	9.1
SGO		34	1.01	43	4.4	81	40.1	20.2	4.4	6.0	7.2	67.9	8.2	86	703	74.7	9.0
LM		34	1.04	42	4.3	83	41.1	18.9	4.5	3.2	4.8	68.8	8.1	88	702	72.8	8.6
PINE BLUFF		DELTAPINE 15			75 PERCENT												
M		36	1.10	47	4.3	84	41.6	23.3	5.8	1.0	1.8	75.4	9.1	100	502	77.8	9.2
SLM		34	1.06	45	4.6	84	41.6	21.0	5.6	1.0	2.2	73.3	8.8	97	602	75.9	8.9
SLM	LT SP	35	1.04	43	4.2	80	39.6	21.3	6.2	1.7	2.9	70.6	8.9	91	653	73.2	9.0
PINE BLUFF		DPL SM. LEAF			100 PERCENT												
SLM		35	1.09	46	4.3	84	41.6	23.1	6.3	1.4	2.2	74.3	8.2	98	602	76.1	8.4
SLM		35	1.09	45	4.6	81	40.1	22.2	6.7	1.3	2.6	74.7	8.0	98	602	77.3	8.1
SLM		35	1.06	43	3.9	81	40.1	22.8	6.7	1.2	3.0	74.1	7.6	97	601	77.4	7.7
PORTLAND		STONEVILLE 7			70 PERCENT												
M		34	1.03	46	4.8	89	44.1	22.0	4.8	1.1	2.2	73.0	9.0	96	603	76.1	9.2
M		34	1.06	45	4.9	82	40.6	21.3	5.8	.8	2.0	75.2	8.6	99	552	78.5	8.8
SLM		34	1.01	44	4.6	79	39.1	20.1	5.7	1.5	2.8	71.0	8.4	92	652	73.2	8.6
SEARCY		REX			90 PERCENT												
SLM		33	1.01	43	3.9	80	39.6	19.8	5.0	1.6	2.8	71.8	8.8	94	603	75.3	9.0
SLM		34	1.03	43	4.4	78	38.6	19.8	5.9	1.4	2.5	72.9	8.4	95	602	76.3	8.5
SLM	LT SP	33	1.00	42	3.8	79	39.1	19.0	5.3	1.7	3.0	70.4	9.0	91	653	72.2	9.0
WALNUT RIDGE		EMPIRE W.R.			100 PERCENT												
M		34	1.04	46	4.2	87	43.1	21.2	4.2	.9	1.8	73.3	9.2	97	553	75.7	8.8
SLM		34	1.07	46	4.2	82	40.6	20.5	4.9	1.2	2.5	72.2	8.3	94	602	74.9	8.5
SLM		33	1.00	43	4.1	89	44.1	20.2	4.1	.9	2.6	71.0	8.4	92	652	73.6	8.4
WILMOT		DPL SM. LEAF			100 PERCENT												
M		34	1.06	45	4.8	88	43.6	23.5	5.6	.7	1.6	73.9	9.2	98	553	76.2	9.2
SLM		34	1.04	46	4.6	84	41.6	22.1	6.4	1.0	1.8	73.4	8.4	96	602	75.0	8.6
M		34	1.02	43	5.0	82	40.6	21.0	5.4	.5	1.5	75.7	8.1	99	552	77.3	7.9
WILSON		REX			100 PERCENT												
SLM		34	1.08	44	4.2	82	40.6	20.7	4.7	1.4	3.5	71.7	8.6	93	602	76.2	8.9
LM		34	1.08	46	4.2	85	42.1	20.8	4.7	3.6	4.7	70.9	8.2	92	652	74.9	8.6
SLM		34	1.04	43	4.4	81	40.1	20.1	4.8	1.8	2.6	73.4	8.4	96	602	75.1	8.6
CALIFORNIA BAKERSFIELD		ACALA 442			100 PERCENT												
M		34	1.06	45	4.8	98	48.5	25.5	4.2	1.4	2.2	77.1	8.1	101	551	79.5	8.2
M		35	1.06	46	4.8	97	48.0	26.5	4.6	1.3	2.2	76.0	8.2	100	552	78.9	8.1
SLM		35	1.06	47	4.6	93	46.0	25.9	5.4	1.8	3.6	74.9	7.9	98	602	77.2	8.1

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1960 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s blechd. yarn			Color 22s dyed yarn				
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			22s or 26.8tex	50s or 11.8tex	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	Blue-ness	Com-posite
				32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index			Index	No.	No.	No.	Index	R <sub>a</sub>	+b	Index	R <sub>a</sub>	+b	Index
ARKANSAS-----CONTINUED																										
OSCEOLA																										
REX 90 PERCENT																										
SLM	LT SP	34	10.1	16	93	33	1848	5.3	4.4	110	100	105	35	27	57	80	66.8	12.2	93	82.8	3.0	100	26.9	27.7	111	
SLM	LT SP	34	9.0	13	97	33	1892	5.7	4.3	110	100	105	32	19	90	66.9	11.6	91	82.9	2.9	101	27.1	27.4	109		
SLM		35	7.0	16	101	35	1986	5.7	4.4	120	110	115	22	18	80	69.8	11.3	97	83.9	2.7	104	27.8	25.7	101		
PARKIN																										
REX 100 PERCENT																										
M		34	7.0	24	99	35	1964	5.9	4.5	120	110	115	19	18	56	90	70.5	12.1	101	83.5	3.1	101	26.8	26.6	107	
SGO		34	9.7	19	83	26	1563	5.0	3.6	110	100	105	37	24	80	68.5	11.6	95	82.7	3.0	100	28.6	27.1	105		
LM		34	8.8	23	83	26	1563	4.6	3.4	110	100	105	27	24	90	68.0	10.8	91	83.6	2.8	103	30.0	24.7	93		
PINE BLUFF																										
DELTAPINE 15 75 PERCENT																										
M		36	6.0	20	117	42	2337	6.3	4.9	120	100	110	23	15	67	90	71.5	12.3	103	83.8	2.8	103	26.0	26.8	109	
SLM		34	7.3	18	98	34	1928	6.2	4.2	120	100	110	24	17	90	68.5	11.4	94	82.7	2.5	102	28.0	26.3	103		
SLM	LT SP	35	7.5	32	95	32	1845	5.8	4.1	110	90	100	30	21	90	65.8	11.4	88	83.2	2.5	103	28.5	26.1	101		
PINE BLUFF																										
DPL SM. LEAF 100 PERCENT																										
SLM		35	7.0	30	113	41	2268	6.3	5.1	100	100	100	29	22	66	80	70.4	11.3	98	83.4	2.6	103	26.1	26.8	109	
SLM		35	8.1	17	105	36	2055	6.1	4.7	120	110	115	21	13	90	71.0	10.8	97	83.1	2.3	104	26.3	27.4	111		
SLM		35	8.6	49	104	36	2044	6.5	4.7	100	90	95	34	31	90	70.6	11.1	97	83.6	2.3	104	27.8	26.0	102		
PORTLAND																										
STONEVILLE 7 70 PERCENT																										
M		34	7.2	19	96	32	1856	5.6	4.1	120	110	115	17	12	47	110	69.8	12.0	99	83.6	2.7	103	28.1	26.7	104	
M		34	7.1	19	94	31	1809	5.6	4.1	120	100	110	19	16	90	70.8	11.3	98	82.9	2.7	101	28.5	26.2	101		
SLM		34	7.6	20	81	25	1516	5.2	3.5	110	100	105	22	16	90	67.5	10.9	90	83.3	2.1	105	29.2	25.9	99		
SEARCY																										
REX 90 PERCENT																										
SLM		33	8.5	15	89	30	1729	5.5	3.7	110	100	105	31	21	51	80	67.8	11.6	93	83.7	3.1	102	28.9	25.3	97	
SLM		34	7.5	16	91	29	1726	5.7	4.2	120	100	110	24	14	100	70.3	11.4	98	83.6	2.5	104	28.8	26.0	100		
SLM	LT SP	33	8.1	26	79	25	1494	4.9	3.7	110	90	100	33	22	80	67.7	11.8	94	83.6	2.6	104	28.8	25.6	99		
WALNUT RIDGE																										
EMPIRE W.R. 100 PERCENT																										
M		34	8.0	26	97	34	1917	5.8	4.2	110	100	105	20	17	57	100	67.8	12.1	95	82.3	3.1	98	27.6	26.2	104	
SLM		34	7.3	22	100	34	1950	5.5	4.2	120	100	110	23	19	90	68.3	11.0	92	83.7	2.9	102	26.9	26.7	107		
SLM		33	8.2	34	86	26	1596	5.0	3.2	100	90	95	28	24	100	65.5	10.8	86	81.9	3.0	98	29.7	25.7	97		
WILMOT																										
DPL SM. LEAF 100 PERCENT																										
M		34	6.7	27	101	33	1936	5.6	4.2	110	100	105	23	15	52	80	69.6	12.2	99	81.4	2.9	97	26.4	27.3	110	
SLM		34	6.8	18	99	33	1914	6.1	4.3	120	100	110	22	13	80	69.9	11.1	96	82.8	2.6	102	27.5	26.9	106		
M		34	6.6	19	89	27	1654	5.2	3.8	120	100	110	17	14	90	71.8	10.6	98	83.2	2.2	104	29.0	25.5	98		
WILSON																										
REX 100 PERCENT																										
SLM		34	8.4	24	96	33	1881	5.6	4.2	120	100	110	32	23	57	90	68.4	11.5	94	81.8	3.0	98	28.0	25.7	101	
LM		34	8.4	14	95	33	1870	5.5	4.3	120	100	110	27	18	80	68.2	11.0	92	82.6	2.8	100	27.6	27.9	110		
SLM		34	7.7	20	89	30	1729	5.3	3.7	120	100	110	23	17	100	70.0	11.2	97	82.5	2.6	101	28.2	25.7	100		
CALIFORNIA																										
BAKERSFIELD																										
ACALA 442 100 PERCENT																										
M		34	7.4	15	121	43	2406	5.4	4.2	120	100	110	30	21	63	90	72.6	11.0	101	83.0	2.4	103	28.1	25.2	98	
M		35	7.1	15	117	43	2362	5.3	4.5	120	110	115	21	12	100	72.6	11.1	101	81.4	2.5	99	27.7	26.4	104		
SLM		35	7.9	20	120	44	2420	5.5	4.4	120	100	110	24	18	100	72.0	11.0	99	83.2	3.0	101	27.4	26.2	104		

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph		Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint		
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	Pct.		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite		Reflect- ance	Yellow- ness	
Grade	Staple	32d in.	In.	Pct.	Rdg.	Mpsi	C/tex	G/tex	Pct.	Pct.	Pct.	Ra	+b	Index	Code	Ra	+b
CALIFORNIA BLYTHE		CONTINUED		DPL SM- LEAF		100 PERCENT											
M	34	1.03	45	5.1	85	42.1	22.0	6.0	1.2	2.1	75.9	8.0	100	552	80.0	8.0	
M	34	1.05	44	4.9	84	41.6	22.7	5.4	1.0	2.2	75.6	8.6	100	552	78.5	8.7	
SLM	34	1.08	42	4.5	87	43.1	22.2	5.8	1.4	3.2	73.7	8.6	97	602	78.1	8.3	
M LT GR	32	1.01	38	3.4	83	41.1	21.9	5.5	1.6	3.7	69.5	6.8	88	701	75.1	7.2	
BRAWLEY		DPL SM- LEAF		100 PERCENT													
M	34	1.05	45	4.8	92	45.5	24.3	4.7	.8	1.7	77.1	8.4	101	502	79.9	8.3	
M	34	1.04	44	4.8	88	43.6	23.2	5.4	.9	1.9	77.6	8.1	102	501	79.3	8.2	
M	34	1.08	44	4.8	87	43.1	23.3	5.9	.9	2.2	77.1	8.2	101	551	79.5	8.3	
SLM	34	1.06	41	3.9	87	43.1	23.1	6.2	.9	2.2	74.4	7.6	97	601	77.7	8.2	
SLM	34	1.01	38	3.2	87	43.1	21.4	5.8	1.1	2.2	76.2	6.9	99	601	79.1	7.3	
BUTTONWILLOW		ACALA 4-42		100 PERCENT													
M	35	1.08	47	4.4	97	48.0	25.9	4.9	1.7	2.6	78.1	8.0	102	501	80.0	8.1	
M	35	1.07	48	4.4	96	47.5	26.0	5.0	1.4	2.6	77.8	7.6	102	551	80.1	7.4	
M	35	1.04	45	4.0	94	46.5	26.8	5.1	1.2	2.8	77.8	7.8	101	551	80.8	7.7	
CHOWCHILLA		ACALA 4-42		100 PERCENT													
SLM	35	1.09	49	4.5	91	45.0	24.8	5.4	3.4	4.3	74.8	8.1	98	602	79.0	8.4	
SLM	35	1.07	47	4.4	92	45.5	23.9	5.4	2.0	3.0	74.0	7.7	96	602	77.6	7.8	
SLM	34	1.05	46	3.8	90	44.6	23.1	5.8	2.1	2.9	74.4	7.5	97	601	77.1	7.6	
FIVE POINTS		ACALA 4-42		100 PERCENT													
M	35	1.08	47	4.7	95	47.0	25.4	5.4	1.6	2.3	77.2	8.6	102	502	79.9	8.4	
SLM	35	1.08	48	4.3	86	42.6	24.3	5.4	3.0	4.1	76.4	8.0	100	551	79.3	8.4	
SLM	35	1.06	47	4.2	90	44.6	24.7	5.4	2.6	3.4	74.8	7.7	98	601	79.2	7.8	
FRESNO		ACALA 4-42		100 PERCENT													
M	35	1.08	48	4.9	94	46.5	25.9	5.3	1.4	2.3	77.8	8.1	102	501	79.5	8.2	
M	35	1.08	49	4.7	93	46.0	26.1	5.2	1.3	2.3	77.9	7.8	102	551	79.8	7.7	
M	35	1.07	48	4.5	97	48.0	24.6	5.4	1.3	2.2	77.1	7.6	101	551	80.8	7.7	
HANFORD		ACALA 4-42		100 PERCENT													
M	35	1.07	47	4.6	97	48.0	23.4	5.0	1.2	2.0	76.1	8.3	100	552	78.1	8.3	
M	35	1.04	49	4.6	94	46.5	25.0	4.8	1.3	2.4	75.8	8.2	100	552	78.9	8.1	
SLM	34	1.02	45	4.2	95	47.0	24.9	4.3	1.3	3.2	74.8	7.8	98	601	77.2	8.1	
HURON		ACALA 4-42		100 PERCENT													
SM	35	1.06	46	4.4	92	45.5	25.6	6.3	1.1	1.9	79.9	8.3	105	451	82.2	8.3	
M	35	1.08	46	3.8	92	45.5	24.9	5.2	1.2	2.2	76.4	8.6	101	502	78.8	8.3	
SLM	34	1.06	44	3.2	92	45.5	24.4	5.4	2.0	3.4	75.2	7.8	98	601	78.2	8.1	
LOS BANOS		ACALA 4-42		100 PERCENT													
M	35	1.10	49	4.3	93	46.0	25.3	5.9	1.3	2.3	78.0	8.1	102	501	79.8	8.2	
M	35	1.08	49	4.3	90	44.6	26.0	5.9	1.6	2.7	77.7	8.0	102	551	79.2	7.8	
SLM	35	1.07	45	3.6	96	47.5	26.1	5.6	2.1	3.1	76.0	7.2	99	601	78.2	7.2	
MENDOTA		ACALA 4-42		100 PERCENT													
M	35	1.07	47	4.4	90	44.6	25.4	5.9	1.2	1.9	78.3	8.2	103	501	80.0	8.3	
M	35	1.07	48	4.5	91	45.0	24.8	5.8	1.7	2.6	77.7	8.0	102	551	80.3	8.1	
M	34	1.03	45	3.8	94	46.5	25.0	5.8	1.6	2.5	78.1	7.6	102	551	80.2	7.7	

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Grade	Staple	Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprctns.		Spn. potential	Trash in fabric	Color-22s grey yarn			Color 22s blchd.yarn			Color 22s dyed yarn		
						22s or 26.8tex	50s or 11.8tex	Average brk.fctr.	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	blue-ness	Com-posite
						32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index			Index	No.	No.	No.	Index	Ra	+b	Index	Ra
CALIFORNIA----CONTINUED																										
DLYTHE		DPL SM. LEAF 100 PERCENT																								
M	34	6.6	12	95	31	1820	5.6	4.3	110	100	105	29	19	46	90	74.2	10.6	102	81.7	2.4	99	27.4	28.3	112		
M	34	6.8	23	95	30	1795	5.3	3.7	110	100	105	27	22		90	72.8	11.1	101	83.8	2.4	105	28.0	26.9	106		
SLM	34	8.3	31	89	29	1704	5.0	3.7	100	90	95	39	28		80	71.6	11.3	100	82.0	2.7	99	28.4	26.2	102		
M LT GR	32	10.0	88	85	25	1560	4.8	3.4	80	60	70	87	72		60	68.3	09.4	87	81.0	3.1	95	29.9	24.1	91		
BRAWLEY		DPL SM. LEAF 100 PERCENT																								
M	34	6.4	14	101	34	1961	4.8	3.8	120	100	110	21	18	52	90	74.5	11.0	103	83.5	2.3	104	27.2	26.4	105		
M	34	6.5	17	98	32	1878	5.2	3.7	120	100	110	18	14		100	74.4	10.4	102	83.3	2.4	104	28.1	26.3	103		
M	34	5.9	12	100	35	1975	5.3	4.0	120	110	115	19	12		100	73.4	10.6	101	82.3	2.2	102	27.4	27.0	107		
SLM	34	6.2	34	100	33	1925	5.4	3.9	100	90	95	38	26	50	80	72.6	10.5	99	82.6	2.9	100	28.6	25.3	98		
SLM	34	7.4	45	102	33	1947	6.2	4.4	100	70	85	55	45		90	74.0	09.8	99	82.0	3.0	98	29.4	25.3	96		
BUTTONWILLOW		ACALA 4-42 100 PERCENT																								
M	35	7.4	12	124	49	2589	6.0	4.8	110	100	105	29	16	67	80	74.3	11.5	105	83.8	2.4	105	26.6	25.9	104		
M	35	7.1	18	122	45	2467	5.6	4.8	110	100	105	22	16		100	73.8	10.8	102	83.0	2.4	103	27.0	26.6	106		
M	35	9.4	26	118	44	2398	5.4	4.3	110	100	105	31	20		100	72.8	10.7	100	83.6	2.6	104	28.3	25.7	100		
CHOWCHILLA		ACALA 4-42 100 PERCENT																								
SLM	35	8.5	11	125	49	2600	6.1	4.9	120	110	115	25	13	70	90	70.6	10.9	97	83.0	3.0	100	27.0	26.3	105		
SLM	35	6.9	17	121	46	2481	5.6	4.8	110	100	105	22	17		100	70.1	10.9	96	82.1	3.0	98	28.2	25.6	100		
SLM	34	8.1	27	118	44	2398	5.4	4.5	110	100	105	31	23		80	69.6	10.5	93	82.4	2.9	100	27.5	26.0	103		
FIVE POINTS		ACALA 4-42 100 PERCENT																								
M	35	6.3	11	130	49	2655	6.3	4.8	120	110	115	25	17	68	100	73.0	11.6	103	83.1	2.5	103	26.2	27.9	113		
SLM	35	8.2	14	126	48	2586	6.4	5.0	110	100	105	30	18		90	72.7	11.4	102	84.6	2.6	106	26.8	25.6	103		
SLM	35	8.4	19	118	44	2398	5.7	4.5	120	100	110	27	18		100	70.6	11.4	98	83.1	2.9	101	26.7	26.4	106		
FRESNO		ACALA 4-42 100 PERCENT																								
M	35	6.6	10	127	48	2597	6.2	4.8	120	100	110	27	18	68	90	73.1	10.8	101	82.3	2.7	100	26.9	27.6	111		
M	35	6.3	9	127	49	2622	5.8	4.6	120	110	115	18	12		110	72.4	11.0	100	82.4	2.6	100	27.2	26.8	107		
M	35	7.3	18	124	47	2539	5.6	4.4	120	110	115	25	13		100	73.6	10.8	101	83.1	2.7	102	26.6	26.6	107		
HANFORD		ACALA 4-42 100 PERCENT																								
M	35	7.1	21	122	48	2542	5.5	4.4	110	100	105	22	16	70	90	72.2	11.7	102	82.5	2.5	101	27.5	25.4	101		
M	35	7.0	13	120	44	2420	5.4	4.4	110	110	110	22	15		90	71.8	10.6	98	82.2	2.7	100	27.8	26.0	102		
SLM	34	7.6	29	115	42	2315	5.2	4.1	100	90	95	37	28		90	70.5	10.5	95	81.7	2.7	99	28.0	25.9	102		
HURON		ACALA 4-42 100 PERCENT																								
SM	35	6.6	18	124	46	2514	6.0	4.9	110	100	105	29	20	70	90	75.3	12.1	108	83.4	2.2	105	25.6	27.2	111		
M	35	7.0	23	120	45	2445	5.6	4.6	110	100	105	29	19		90	72.0	11.7	102	82.6	3.0	99	25.8	26.4	108		
SLM	34	8.5	40	115	43	2340	5.7	4.4	90	90	90	42	35		90	69.2	11.2	95	81.2	3.7	93	27.5	25.1	99		
LOS BANOS		ACALA 4-42 100 PERCENT																								
M	35	6.8	13	130	50	2680	6.7	5.2	110	100	105	30	18	69	90	72.6	11.2	101	82.9	2.6	102	26.1	27.6	112		
M	35	6.8	17	128	50	2658	6.5	5.1	110	100	105	25	16		90	72.7	11.4	102	83.8	2.6	104	27.3	26.4	105		
SLM	35	8.0	18	127	49	2622	6.1	5.0	110	90	100	35	25		80	69.8	10.6	94	83.0	3.3	99	27.1	25.6	102		
MENDOTA		ACALA 4-42 100 PERCENT																								
M	35	7.0	13	127	47	2572	6.3	5.6	120	110	115	24	14	72	100	73.3	11.4	103	83.0	2.6	102	26.0	26.8	109		
M	35	6.3	14	122	46	2492	5.9	4.8	110	100	105	18	17		100	72.9	11.2	102	83.4	2.5	103	27.5	25.8	102		
M	34	7.6	20	124	47	2539	5.7	4.7	110	100	105	23	16		100	73.0	10.7	100	82.7	2.8	101	27.0	26.2	105		

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results																
		Digital Fibrograph		Micro- naire	Fiber strength			Elo- gation 1/8"	Shirley Analyzer			Color of raw stock				Color of cleaned lint		
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	G/tex		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite		Reflect- ance	Yellow- ness		
Grade	Staple	3rd in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	Yb	Index	Code	Rd	Yb	
CALIFORNIA ROSEDALE		CONTINUED																
		ACALA 4-42				100 PERCENT												
M	35	1.09	47	4.7	95	47.0	25.8	4.7	1.1	2.0	77.5	8.0	102	551	79.1	7.9		
SLM	35	1.08	47	4.3	92	45.5	24.7	5.5	2.1	2.6	75.3	7.8	99	601	78.5	8.0		
M	35	1.06	47	4.6	94	46.5	26.3	5.0	1.2	2.6	77.1	7.6	101	551	79.8	7.7		
		STRATFORD				100 PERCENT												
M	35	1.05	47	4.3	94	46.5	24.6	5.0	1.7	2.6	77.2	8.5	101	502	78.5	8.7		
M	35	1.05	48	4.4	94	46.5	25.8	5.8	1.8	2.4	76.9	8.2	101	551	79.1	8.0		
SLM	34	1.02	45	3.2	92	45.5	26.4	5.4	2.6	4.6	75.0	7.7	98	601	77.0	7.9		
		TULARE				100 PERCENT												
M	35	1.07	48	4.8	99	49.0	25.1	4.6	1.1	1.9	77.0	8.1	101	551	78.2	8.3		
M	35	1.07	46	4.5	95	47.0	24.9	4.8	1.4	2.0	75.7	8.0	99	602	79.0	7.8		
SLM	34	1.04	46	3.9	94	46.5	25.1	4.4	1.5	3.3	75.1	7.4	98	601	78.1	7.6		
		VISALIA				100 PERCENT												
SLM	35	1.09	47	4.4	95	47.0	25.3	5.4	2.5	3.4	75.1	8.1	99	602	77.5	8.2		
SLM	35	1.06	47	4.6	100	49.5	26.2	4.6	1.8	3.0	74.0	8.0	97	602	76.1	8.0		
SLM	34	1.05	47	4.4	99	49.0	23.9	4.9	1.7	3.4	75.0	7.5	98	601	78.5	7.6		
		WASCO				100 PERCENT												
M	34	1.07	47	4.3	93	46.0	24.6	5.0	1.2	2.2	77.9	8.3	102	501	79.7	8.1		
M	35	1.08	46	4.4	93	46.0	24.8	5.5	1.1	1.9	76.8	8.2	101	552	79.8	8.1		
SLM	34	1.04	44	3.2	96	47.5	25.4	5.2	2.3	3.6	75.8	7.7	99	601	78.8	7.8		
		WHEELER RIDGE				100 PERCENT												
M	34	1.04	46	4.7	98	48.5	25.5	5.0	1.5	2.7	76.7	8.7	101	502	79.1	8.6		
M	35	1.07	47	4.5	90	44.6	23.7	5.6	1.8	2.6	76.8	8.3	101	552	78.2	8.2		
SLM	34	1.05	47	4.4	93	46.0	26.2	5.1	1.8	3.5	75.0	8.2	98	602	78.2	8.5		
		WOODVILLE				100 PERCENT												
M	35	1.08	48	4.4	98	48.5	25.6	4.5	1.2	2.5	76.1	8.5	100	552	78.4	8.3		
M	35	1.06	47	4.5	93	46.0	24.3	5.2	1.2	1.9	76.8	8.0	100	551	78.3	7.9		
SLM	34	1.03	46	3.7	91	45.0	24.7	4.6	1.3	3.2	74.0	7.3	96	651	77.1	7.2		
FLORIDA		JAY																
		COKER 100				70 PERCENT												
LM	34	1.06	47	4.0	81	39.9	22.5	6.2	3.8	4.5	71.3	8.4	92	652	75.2	9.0		
LM	34	1.05	46	4.0	78	38.7	21.6	6.6	3.9	4.9	70.8	8.6	91	653	75.6	9.2		
LM	32	.98	46	3.7	75	37.0	20.4	6.3	3.0	4.2	70.0	8.0	90	702	72.0	8.2		
GEORGIA		BUTLER																
		EMPIRE				97 PERCENT												
M	34	1.02	44	3.9	84	41.8	22.8	5.4	1.2	1.9	75.0	9.2	99	553	76.0	9.4		
SLM	33	1.01	43	4.0	80	39.7	20.8	5.4	1.5	3.0	73.8	7.8	96	602	74.5	8.2		

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Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 -Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spinn. potential	Trash in fabric	Color 22s grey yarn			Color 22s blchd. yarn			Color 22s dyed yarn				
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index	
CALIFORNIA---CONTINUED																										
ROSEDALE		ACALA 4-42										100 PERCENT														
M	35	5.9	15	125	49	2600	5.7	4.9	110	100	105	25	14	73	90	73.0	10.8	101	83.9	2.6	104	27.0	26.0	104		
SLM	35	7.6	13	124	48	2564	5.7	4.6	120	100	110	29	19		80	71.5	11.0	99	83.5	2.7	103	27.2	26.1	104		
M	35	8.8	13	124	46	2514	5.8	4.6	120	100	110	23	14		90	72.6	10.4	99	82.8	2.5	102	28.2	26.2	102		
STRATFORD		ACALA 4-42										100 PERCENT														
M	35	7.7	15	125	47	2550	5.7	4.4	120	100	110	24	16	69	100	72.1	11.8	103	82.9	2.7	101	26.3	26.3	106		
M	35	7.0	15	127	49	2622	5.8	4.6	120	100	110	21	13		100	71.8	11.2	100	82.9	2.7	101	26.3	26.5	101		
SLM	34	9.7	43	120	44	2420	5.6	4.3	90	70	80	52	37		90	69.9	10.8	95	82.0	3.5	96	27.4	25.6	102		
TULARE		ACALA 4-42										100 PERCENT														
M	35	6.2	11	126	47	2561	5.3	4.5	120	100	110	18	14	69	100	73.4	11.3	103	83.8	2.6	104	27.5	25.8	102		
M	35	5.8	13	125	46	2525	5.4	4.5	110	100	105	21	14		90	70.8	10.7	97	83.0	2.7	102	27.4	26.4	105		
SLM	34	7.0	26	117	42	2337	5.3	4.4	100	90	95	32	22		90	70.9	10.6	96	81.5	3.0	97	27.1	26.2	104		
VISALIA		ACALA 4-42										100 PERCENT														
SLM	35	8.2	16	122	48	2542	6.3	4.7	110	100	105	28	18	71	90	71.3	11.4	100	81.9	2.8	99	25.9	27.9	114		
SLM	35	7.4	18	124	46	2514	5.4	4.5	110	100	105	22	15		100	70.6	11.1	97	83.0	2.7	102	27.7	25.4	100		
SLM	34	8.0	21	119	44	2409	5.1	4.3	110	100	105	33	21		80	70.8	10.4	96	82.3	2.8	100	28.2	25.8	101		
WASCO		ACALA 4-42										100 PERCENT														
M	34	7.2	16	119	46	2459	5.9	4.9	110	100	105	25	18	67	90	72.8	11.7	103	83.9	2.8	104	26.0	26.3	107		
M	35	6.6	22	125	48	2575	5.6	4.9	110	100	105	22	16		90	71.4	11.1	99	83.7	2.7	103	27.0	26.3	105		
SLM	34	8.5	42	121	44	2431	5.9	5.0	100	80	90	47	33		90	71.8	10.8	99	82.5	2.9	100	28.2	25.4	99		
WHEELER RIDGE		ACALA 4-42										100 PERCENT														
M	34	7.5	13	125	47	2550	5.6	4.4	110	100	105	27	18	66	90	72.5	11.7	103	83.4	2.5	104	26.7	26.0	105		
M	35	6.5	17	124	47	2539	5.9	4.9	110	100	105	23	16		90	73.2	11.3	103	83.5	2.5	104	27.7	26.2	103		
SLM	34	7.2	22	121	43	2406	5.4	4.7	120	100	110	28	21		100	71.5	11.2	100	82.8	2.7	101	26.8	26.6	107		
WOODVILLE		ACALA 4-42										100 PERCENT														
M	35	6.9	17	123	48	2553	5.8	4.6	120	100	110	23	18	66	80	71.0	11.4	99	83.0	2.7	102	27.3	24.8	99		
M	35	6.4	13	124	46	2514	5.7	4.4	120	100	110	20	12		100	72.0	10.8	99	83.1	2.6	102	27.9	26.1	103		
SLM	34	6.9	27	120	43	2395	5.5	4.5	110	100	105	27	21		90	70.6	10.6	96	82.4	2.9	100	27.8	25.7	101		
FLORIDA JAY		COKER 100										70 PERCENT														
LM+	34	8.4	26	115	41	2290	6.4	5.4	100	90	95	52	30	60	70	69.4	11.8	97	84.0	2.9	103	26.9	26.5	106		
LM	34	9.9	42	109	38	2149	6.3	4.9	100	90	95	46	31		70	67.8	12.0	94	83.0	3.1	100	29.2	25.2	96		
LM	32	10.7	46	98	33	1903	6.1	4.4	100	90	95	49	42		70	67.4	11.2	91	84.1	2.9	103	30.5	25.1	94		
GEORGIA BUTLER		EMPIRE										97 PERCENT														
M	34	7.2	36	112	38	2182	5.8	4.7	100	90	95	41	29	52	80	70.9	12.2	102	81.9	3.1	97	27.5	25.8	102		
SLM	33	9.4	38	101	32	1911	5.4	4.0	100	100	100	36	29		90	70.0	10.7	95	83.3	2.9	102	31.1	25.1	92		

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results														Color of raw stock		Color of cleaned lint				
		Digital Fibrograph			Micro- naire	Fiber strength			Elongation 1/8"	Shirley Analyzer			Reflect- ance	Yellow- ness	Composite		Reflect- ance	Yellow- ness				
		2.5% span length	50/2.5 unif.	Pct.		Zero gauge	1/8" gauge	G/tex		Visible waste	Total waste	Pct.			Pct.	Pct.			R <sub>1</sub>	+b	R <sub>2</sub>	+b
Grade	Staple	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	R <sub>1</sub>	+b	Index	Code	R <sub>1</sub>	+b					
GEORGIA CONTINUED																						
CONCORD		COKER 100			100 PERCENT																	
SM	35	1.08	45	4.6	83	41.1	23.2	6.6	.5	1.5	76.0	8.4	100	552	77.0	8.8						
M	33	1.03	44	4.4	82	40.8	22.1	6.8	1.3	2.0	74.8	9.1	99	552	75.7	9.3						
SLM	33	1.04	43	4.4	78	38.6	19.7	6.5	1.5	1.9	74.0	8.2	97	602	76.0	8.7						
DANIELSVILLE		DEKALB 108			100 PERCENT																	
M	34	1.02	47	5.2	85	42.1	22.8	6.3	1.6	2.1	76.2	9.0	101	502	79.8	9.0						
M LT SP	34	1.04	46	4.4	81	39.9	22.5	6.4	1.1	2.8	73.2	9.5	97	553	73.5	9.4						
SLM	33	1.03	44	4.3	78	38.6	19.3	6.3	2.3	3.2	73.1	8.3	96	602	76.5	8.3						
HARALSON		EMPIRE			100 PERCENT																	
M	34	1.07	47	4.2	89	44.2	22.6	6.0	1.4	2.4	75.8	8.9	100	502	78.5	9.0						
M	34	1.05	45	4.3	82	40.4	21.3	5.9	.9	1.9	74.8	8.9	99	552	76.5	8.9						
SLM	33	1.03	45	4.3	84	41.6	20.3	5.5	2.3	3.1	74.2	8.6	98	602	76.5	8.8						
NEWMAN		DIXIE KING			100 PERCENT																	
M	34	1.06	45	4.6	82	40.8	22.1	5.9	1.3	2.1	75.0	9.6	100	503	76.0	9.4						
M	33	1.02	45	4.6	79	39.0	20.5	5.0	1.4	2.4	75.5	9.1	100	502	75.7	9.4						
OCILLA		MIXED--MAINLY AUBURN			100 PERCENT																	
M	33	1.02	45	4.0	83	41.0	19.5	6.2	.9	1.5	74.7	9.4	99	553	75.0	9.4						
SLM	33	.97	43	4.1	86	42.6	20.3	5.8	4.1	5.3	71.0	8.8	92	653	75.0	8.8						
SLM	32	1.00	43	4.2	82	40.6	20.2	6.0	1.2	2.2	71.8	8.5	93	652	75.0	8.6						
OMAHA		DIXIE KING			100 PERCENT																	
SLM	33	1.02	44	4.0	83	40.9	20.6	5.8	1.8	2.4	72.6	8.8	95	603	75.2	9.2						
SLM	34	1.03	46	4.2	84	41.7	21.2	5.5	1.3	2.1	74.5	8.9	98	552	76.3	8.7						
SLM	33	1.02	43	4.6	89	44.2	20.9	4.8	1.4	2.1	71.5	8.6	93	653	74.5	9.0						
PINEHURST		COKER 100			90 PERCENT																	
SM	33	1.00	45	4.2	87	42.9	22.4	6.0	.6	1.2	76.0	9.0	101	502	76.0	9.4						
M	33	1.02	46	4.0	82	40.6	23.1	5.9	1.1	2.0	76.5	9.2	101	502	77.0	9.3						
SLM	32	1.00	43	4.4	86	42.7	20.6	5.7	1.5	2.3	72.0	8.7	94	603	73.8	8.8						
REYNOLDS		COKER 100			90 PERCENT																	
M	35	1.06	46	4.6	80	39.6	22.0	6.0	1.6	2.5	76.0	8.9	101	502	78.0	9.2						
LM	34	1.07	47	4.3	78	38.7	21.4	6.2	4.5	5.1	70.0	8.5	90	653	72.5	8.8						
SLM	33	1.03	44	4.6	79	39.1	20.4	6.1	1.4	2.3	72.6	8.0	94	652	75.2	8.2						
SOPERTON		EMPIRE			80 PERCENT																	
M	33	1.02	44	4.0	84	41.6	20.8	6.1	.8	1.6	75.5	9.2	100	502	76.5	9.2						
M	33	1.00	44	4.3	82	40.6	20.5	5.5	.7	1.7	74.0	9.0	98	553	76.3	8.8						
M	33	1.00	43	4.4	79	39.2	19.6	5.5	.8	1.7	74.3	8.6	98	602	74.2	8.9						
SYLVANIA		COKER 100			90 PERCENT																	
M	34	1.04	45	4.0	88	43.8	22.9	5.8	.7	1.5	76.0	9.1	100	502	76.3	9.1						
SLM	34	1.03	45	4.1	93	41.3	22.4	6.0	.9	1.9	73.0	8.7	96	602	74.9	8.9						
M	33	1.01	45	4.6	89	44.3	19.9	5.8	.8	1.5	75.0	8.5	99	552	76.0	8.8						
THOMSON		COKER 100			90 PERCENT																	
M	33	1.02	46	4.6	84	41.3	20.9	5.9	1.8	2.5	76.0	9.0	100	502	77.5	9.0						
M	33	1.01	47	5.0	82	40.7	22.4	5.9	2.2	3.3	74.2	8.8	98	552	74.7	9.0						
M	34	1.01	47	4.8	84	41.3	21.2	6.1	2.0	2.9	74.8	9.0	99	552	74.8	9.0						

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Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																							
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imperfections		Spin. potential	Trash in fabric	Color 22s grey yarn			Color 22s bleached yarn			Color 22s dyed yarn			
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			22s or 26.8tex	50s or 11.8tex	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	Blue-ness
Grade	Staple	22d in-	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index
GEORGIA---CONTINUED																									
CONCORD		COKER 100 100 PERCENT																							
SM	35	6.6	19	118	41	2323	6.1	5.1	110	100	105	21	14	55	110	71.6	12.3	103	83.0	2.8	101	26.5	27.0	109	
M	33	8.0	26	110	37	2135	6.0	4.6	110	100	105	21	17		110	71.0	12.0	101	82.9	3.7	98	28.0	26.4	104	
SLM	33	7.3	21	100	32	1900	5.9	4.5	110	100	105	19	12		90	70.7	11.2	98	82.6	3.4	98	30.6	24.8	92	
DANIELSVILLE		DEKALB 10B 100 PERCENT																							
M	34	7.8	16	114	36	2154	5.6	4.5	110	100	105	12	12	48	100	72.4	12.4	105	82.2	2.7	100	25.4	27.0	111	
M LT SP	34	7.5	34	108	38	2138	6.0	4.6	100	90	95	32	20		100	68.5	12.6	99	83.0	4.2	96	27.6	26.1	103	
SLM	33	7.8	26	99	32	1889	5.6	4.2	100	100	100	29	22		90	70.5	11.3	98	83.8	2.8	103	29.8	25.7	97	
HARALSON		EMPIRE 100 PERCENT																							
M	34	7.3	23	117	41	2312	6.1	4.7	100	100	100	29	20	57	100	71.0	12.3	102	82.0	2.7	99	26.2	26.8	109	
M	34	7.1	29	105	35	2030	5.7	4.2	100	100	100	24	17		90	70.3	11.6	98	83.9	3.1	102	27.4	26.2	104	
SLM	33	6.7	19	98	31	1853	5.6	3.9	110	100	105	19	12		90	71.2	11.5	100	83.0	3.8	97	29.6	25.1	95	
NEWMAN		DIXIE KING 100 PERCENT																							
M	34	8.5	26	110	37	2135	5.9	4.6	100	100	100	24	19	50	100	70.4	12.6	102	83.5	3.1	101	28.2	26.5	104	
M	33	8.0	34	100	33	1925	5.6	3.9	100	90	95	21	18		100	70.2	11.8	99	83.5	3.4	100	28.1	25.9	101	
OCILLA		MIXED-MAINLY AUBURN																							
SLM	33	8.6	35	96	29	1781	5.1	3.7	100	100	100	22	24		100	69.2	11.6	96	82.3	2.9	99	30.8	25.0	92	
SLM	32	8.4	40	96	30	1806	4.8	3.7	100	90	95	25	25		100	68.9	11.3	95	83.5	2.9	102	32.0	24.7	89	
M	33	6.1	19	100	31	1875	5.9	4.0	110	100	105	11	12	47	100	71.4	11.9	102	82.3	2.7	100	28.8	25.5	98	
OMAHA		DIXIE KING 100 PERCENT																							
SLM	33	8.4	79	106	36	2066	5.7	4.3	100	90	95	36	30	52	90	69.4	12.0	98	81.4	3.1	96	28.9	25.6	99	
SLM+	34	7.9	33	106	34	2016	5.6	3.9	100	90	95	33	25		90	71.0	12.1	102	82.5	3.2	98	30.4	25.4	94	
SLM	33	7.4	34	90	25	1672	5.3	3.8	100	70	85	20	13		100	70.0	11.5	98	82.7	3.5	98	32.1	24.2	87	
PINEHURST		COKER 100 90 PERCENT																							
SM	33	5.6	21	110	35	2085	5.9	4.4	110	100	105	14	14	51	110	71.8	12.4	104	83.3	2.9	102	27.7	25.6	101	
M	33	7.6	29	113	38	2193	6.1	4.7	100	90	95	27	24		100	70.8	12.5	102	82.1	3.0	98	27.6	25.9	102	
SLM	32	9.3	40	96	28	1756	5.1	3.9	100	90	95	32	24		90	67.3	11.3	91	82.2	3.2	98	31.0	24.6	90	
REYNOLDS		COKER 100 90 PERCENT																							
M	35	7.5	20	111	39	2196	6.2	4.9	110	100	105	19	11	58	100	72.6	11.9	103	82.5	2.7	100	27.5	26.6	105	
LM	34	10.4	27	111	39	2196	5.9	4.7	100	90	95	42	29		70	67.2	11.8	93	83.1	3.0	101	29.7	25.7	97	
SLM	33	8.7	22	98	31	1853	5.5	3.9	110	100	105	26	19		90	69.5	10.6	94	83.9	2.8	103	30.5	25.6	95	
SOPERTON		EMPIRE 80 PERCENT																							
M	33	6.0	19	103	32	1933	5.7	3.9	110	100	105	23	18	47	90	71.5	12.3	103	83.2	2.9	101	27.7	26.3	104	
M	33	8.6	29	103	33	1958	5.3	3.8	100	90	95	27	20		90	70.7	11.6	99	82.1	2.8	99	29.1	25.2	97	
M	33	8.4	32	94	28	1734	5.4	3.6	110	100	105	26	26		90	69.2	11.6	96	82.7	2.8	101	29.5	25.8	98	
SYLVANIA		COKER 100 90 PERCENT																							
M	34	5.4	18	118	41	2323	6.0	5.0	120	100	110	16	10	57	100	71.8	12.0	102	83.2	2.8	102	28.2	25.8	101	
SLM	34	8.2	26	109	36	2099	5.7	4.3	110	100	105	26	19		90	68.5	11.7	95	82.6	2.8	100	29.4	25.8	98	
M	33	7.4	26	103	32	1933	5.3	3.6	110	100	105	19	15		100	70.4	11.6	99	83.5	2.9	102	30.7	25.5	94	
THOMSON		COKER 100 90 PERCENT																							
M	33	8.2	20	104	34	1994	5.6	4.2	110	100	105	22	16	47	90	72.2	12.1	104	81.9	2.5	100	27.8	26.3	104	
M	33	8.4	20	100	30	1850	5.5	4.0	110	100	105	20	17		100	69.4	11.7	97	81.6	2.3	100	28.9	26.0	100	
M	34	8.4	16	102	34	1972	5.3	3.9	110	100	105	23	17		100	70.8	12.0	101	82.4	2.7	100	28.4	26.4	103	

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Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 --Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results																
		Digital Fibrograph		Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint			
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	Pct.		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite		Reflect- ance	Yellow- ness		
Grade	Staple	<u>32d in.</u>	<u>In.</u>	<u>Pct.</u>	<u>Rdg.</u>	<u>Mpsi</u>	<u>G/tex</u>	<u>G/tex</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Rd</u>	<u>+b</u>	<u>Index</u>	<u>Code</u>	<u>Rd</u>	<u>+b</u>	
GEORGIA	CONTINUED																	
WRENS		MIXED-MAINLY DIXIE KING																
SM	34	1.02	47	4.2	87	43.3	22.1	5.7	.4	1.1	76.0	9.3	101	502	76.5	9.4		
SM	33	1.03	45	4.6	90	44.5	22.4	6.0	.9	1.7	76.8	9.1	101	502	77.7	9.0		
M	33	1.01	45	4.8	86	42.4	22.3	5.7	.9	2.0	73.7	9.0	97	553	74.5	9.2		
LOUISIANA																		
DELHI		DPL SM. LEAF 100 PERCENT																
M	35	1.10	48	5.0	90	44.6	25.5	5.8	1.0	2.2	77.1	8.4	101	502	79.9	8.7		
M	34	1.06	45	4.8	87	43.1	23.3	5.8	1.0	1.9	77.7	7.8	101	551	80.2	8.0		
SLM	35	1.10	45	4.6	84	41.6	23.3	6.1	1.6	2.6	74.4	7.7	97	601	77.0	8.0		
NATCHITOCHE		DPL SM. LEAF 99 PERCENT																
M	34	1.05	45	4.2	88	43.6	22.6	6.1	1.0	1.6	76.1	9.5	101	453	78.6	9.6		
SLM	34	1.04	44	4.3	88	43.6	22.0	5.4	1.0	2.0	71.1	9.2	93	603	74.0	9.1		
SLM	34	1.05	43	4.2	88	43.6	21.6	5.4	1.6	2.6	70.8	8.8	92	653	73.2	9.2		
OPELOUSAS		DPL SM. LEAF 99 PERCENT																
SM	34	1.03	46	4.9	94	46.5	24.5	6.2	.7	1.1	78.6	9.2	104	402	79.7	8.9		
M LT SP	33	1.03	45	4.8	88	43.6	22.3	5.8	1.1	2.3	71.9	9.8	95	553	74.8	10.2		
SLM LT SP	33	1.02	45	4.6	85	42.1	20.3	5.3	1.0	2.4	68.3	9.0	88	653	71.9	9.0		
OPELOUSAS		MIXED-MAINLY DPL 15																
SM	34	1.05	45	4.6	87	43.1	23.4	5.8	.7	1.2	78.7	9.0	104	452	80.1	8.8		
M LT SP	34	1.06	44	4.6	85	42.1	21.5	5.4	1.3	2.6	73.1	9.2	97	553	75.0	9.6		
SLM LT SP	33	1.00	44	4.8	87	43.1	21.2	5.2	1.8	2.9	69.2	9.0	89	653	73.2	8.7		
OPELOUSAS		STONEVILLE 7 75 PERCENT																
SM	34	1.05	46	4.9	89	44.1	22.5	4.8	1.1	1.6	77.9	9.0	103	452	78.9	9.1		
M	34	1.03	46	5.0	90	44.6	21.0	4.3	1.5	2.6	73.9	9.0	98	553	77.0	9.2		
M LT SP	33	1.03	45	5.0	88	43.6	19.6	4.6	1.3	2.3	73.1	8.8	96	602	75.0	9.0		
RAYVILLE		DPL 15 90 PERCENT																
M	34	1.07	45	5.0	89	44.1	23.7	5.8	.9	1.7	73.7	9.7	98	553	75.1	9.5		
M	34	1.03	45	4.6	88	43.6	23.6	5.7	.8	1.5	75.1	8.8	99	552	78.3	9.2		
M	34	1.08	44	5.0	86	42.6	22.2	5.9	.6	1.2	76.0	8.2	100	552	79.1	8.4		
SHREVEPORT		STARDEL 100 PERCENT																
SLM	34	1.07	44	4.3	101	50.0	25.6	4.5	2.1	3.3	73.4	8.8	97	602	77.2	9.2		
LM	34	1.08	45	4.6	95	47.0	24.3	4.5	3.4	4.3	70.6	8.4	91	652	74.8	8.9		
SLM	34	1.08	46	4.9	96	47.5	24.6	4.3	2.0	3.5	73.1	8.4	96	602	77.0	8.5		
SHREVEPORT		DPL 15 90 PERCENT																
SLM	34	1.06	45	4.2	88	43.6	22.5	5.4	1.3	2.2	71.2	9.2	94	603	74.9	9.4		
SLM	34	1.06	44	4.6	81	40.1	22.1	6.3	1.5	2.6	73.0	8.6	96	602	76.8	8.8		
SLM	34	1.08	45	4.8	80	39.6	21.6	5.6	.8	2.0	72.8	8.6	95	602	76.1	8.9		

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																						
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imperfections		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s blechd. yarn			Color 22s dyed yarn		
				22s or 26.8tex	50s or 11.8tex	Average brk. futr.	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			Reflectance	Yellow-ness	Com-posite	Reflectance	Yellow-ness	Com-posite	Reflectance	Blue-ness	Com-posite
				32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index			Index	No.	No.	No.	Index	R <sub>a</sub>	±b	Index	R <sub>a</sub>
GEORGIA---CONTINUED		WRENS																						
		VIXED-MAINLY DIXIE KING																						
SM	34	6.1	16	112	39	2207	5.8	4.5	120	100	110	19	12	55	100	71.9	12.2	103	83.3	3.0	101	26.8	26.9	108
SM	33	7.1	21	103	31	1908	5.3	3.8	110	100	105	16	10		100	72.2	11.7	103	82.6	2.6	101	27.2	26.8	107
M	33	9.1	25	101	31	1886	5.5	3.9	110	100	105	21	15		100	67.8	11.7	94	82.9	3.2	99	29.8	26.2	99
LOUISIANA																								
DELHI		DPL SM. LEAF																						
		100 PERCENT																						
M	35	6.9	15	119	44	2409	6.2	5.0	120	110	115	19	13	66	90	74.0	11.5	104	83.9	2.6	104	26.2	27.8	115
M	34	6.6	12	109	39	2174	5.9	4.4	120	100	110	24	20		90	73.4	10.4	100	83.3	2.2	104	26.7	27.1	109
SLM	35	7.1	19	106	39	2163	6.4	4.9	110	100	105	31	24		80	71.7	10.4	97	83.3	2.4	103	26.6	26.5	97
		NATCHITOCHES																						
		DPL SM. LEAF																						
		99 PERCENT																						
M	34	7.1	19	109	38	2149	6.0	4.7	120	110	115	21	17	61	90	71.7	12.8	105	83.2	2.6	103	26.8	27.5	112
SLM	34	8.0	33	101	35	1986	5.9	4.4	110	100	105	27	20		90	67.3	12.0	93	83.1	3.1	100	27.9	26.1	102
SLM	34	7.0	31	94	30	1784	5.2	3.8	110	90	100	34	22		90	66.4	11.4	90	82.9	2.9	101	30.2	26.2	94
		OPLOUSAS																						
		DPL SM. LEAF																						
		99 PERCENT																						
SM	34	6.9	14	115	39	2240	6.2	4.8	120	110	115	15	11	62	90	71.9	12.4	104	81.7	2.6	100	24.1	28.2	119
M LT SP	33	7.0	13	99	32	1889	5.7	4.1	120	110	115	20	11		90	66.8	12.7	96	82.9	3.0	100	27.3	26.6	106
SLM LT SP	33	8.5	7	87	26	1607	4.7	3.2	120	100	110	23	14		90	65.3	11.2	87	82.7	3.0	100	29.3	26.3	101
		OPELOUSAS																						
		MIXED-MAINLY DPL 15																						
SM	34	6.9	20	110	38	2160	6.3	4.7	120	110	115	15	11	58	100	73.7	11.8	104	82.6	2.3	102	25.1	27.8	115
M LT SP	34	7.8	24	99	34	1939	5.6	4.1	110	100	105	20	15		100	68.2	12.2	97	81.8	3.0	98	27.6	26.9	106
SLM LT SP	33	8.2	8	90	29	1715	5.0	3.5	120	110	115	19	10		90	65.6	11.4	88	82.2	3.2	98	30.1	26.3	99
		OPELOUSAS																						
		STONEVILLE 7																						
		75 PERCENT																						
SM	34	6.3	16	107	35	2052	5.8	4.5	120	110	115	14	10	57	100	72.6	12.1	104	81.9	2.6	99	26.1	27.2	111
M	34	6.9	21	100	34	1950	5.4	4.1	120	110	115	16	14		100	70.5	11.7	99	82.5	2.9	100	27.1	27.0	108
M LT SP	33	7.8	12	89	27	1654	4.7	3.2	120	110	115	15	11		100	69.2	11.6	96	82.3	2.7	100	29.6	25.9	98
		RAYVILLE																						
		DPL 15																						
		90 PERCENT																						
M	34	7.0	21	104	35	2019	5.8	4.4	120	100	110	20	16	55	90	69.1	12.6	100	83.4	2.8	102	27.1	26.8	107
M	34	7.4	27	103	37	2058	5.6	4.4	120	100	110	20	14		100	70.6	11.6	99	81.1	2.8	97	27.8	26.6	105
M	34	6.1	22	101	34	1961	5.5	4.2	120	100	110	14	11		100	70.8	10.9	97	82.6	2.5	102	27.2	26.9	107
		SHREVEPORT																						
		STARDEL																						
		100 PERCENT																						
SLM	34	8.2	21	112	40	2232	5.2	4.1	110	100	105	26	18	59	80	69.1	12.2	98	82.9	3.1	100	30.0	25.0	94
LM	34	8.8	14	109	38	2149	5.4	4.2	110	100	105	28	19		90	68.1	11.6	94	83.2	2.5	103	28.0	26.2	103
SLM	34	8.0	19	107	37	2102	5.0	4.1	120	100	110	24	16		90	68.9	11.1	94	83.6	2.6	104	28.2	26.3	103
		SHREVEPORT																						
		DPL 15																						
		90 PERCENT																						
SLM	34	7.7	29	108	39	2163	6.2	4.8	110	90	100	29	23	57	80	68.1	12.4	97	83.1	3.2	100	27.3	26.3	105
SLM	34	7.4	12	100	36	2000	5.8	4.6	120	110	115	18	15		90	69.5	11.7	97	83.7	2.7	103	27.6	26.5	105
SLM	34	7.7	22	100	35	1975	5.8	4.4	120	100	110	19	17		90	70.6	11.2	98	84.3	2.5	105	27.9	25.3	99

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962 --Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph		Micro- naire	Fiber strength			Elonga- tion 1/8"	Shirley Analyzer		Color of raw stock			Color of cleaned lint			
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	Pct.		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness		
Grade	Staple	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
LOUISIANA WINNSBORO	CONTINUED	DPL SM. LEAF			90 PERCENT												
SM	34	1.03	46	4.8	87	43.1	23.5	6.2	.4	1.2	78.3	9.5	104	402	80.1	9.3	
SLM	34	1.06	46	4.2	90	44.6	23.4	5.3	1.7	2.8	69.9	9.6	91	603	73.1	10.1	
SLM	33	1.02	45	4.6	89	44.1	22.3	5.3	1.2	2.1	71.9	8.5	94	602	74.2	9.1	
MISSISSIPPI ABERDEEN		DPL SM. LEAF			95 PERCENT												
SM	34	1.06	43	4.8	85	42.0	21.6	6.6	.8	1.7	76.8	8.7	101	502	77.8	8.7	
M	34	1.05	44	4.8	86	42.8	20.4	6.3	.8	2.7	75.3	8.2	99	552	76.5	8.4	
M	34	1.08	44	4.8	81	40.0	21.2	6.6	.8	1.5	75.3	8.2	99	602	77.5	8.2	
BELZONI		DELFO 9169			75 PERCENT												
SLM	34	1.07	41	4.3	86	42.3	22.0	6.1	2.8	3.7	75.8	9.2	100	502	77.7	9.3	
SLM	35	1.12	43	4.2	84	41.4	21.3	6.6	2.7	3.5	75.3	8.1	99	602	78.4	8.4	
SLM LT SP	34	1.07	39	4.2	78	38.6	18.7	5.6	2.5	3.2	70.5	9.2	91	653	72.2	9.2	
BOONEVILLE		DIXIE KING			75 PERCENT												
M	35	1.11	47	4.2	83	41.0	22.9	5.9	1.7	2.4	76.2	8.6	100	552	77.8	8.6	
M	35	1.05	46	4.6	85	42.1	21.7	5.6	.8	1.7	76.2	8.6	100	552	76.8	8.6	
M	34	1.06	45	4.6	80	39.8	20.1	5.7	1.2	1.7	76.5	8.4	100	552	78.7	8.2	
CLARKSDALE		DPL SM. LEAF			100 PERCENT												
SLM	35	1.10	43	4.4	83	41.1	25.9	6.6	2.1	3.0	74.0	8.2	97	602	76.5	8.4	
SLM	34	1.06	45	4.4	85	42.3	22.3	7.2	2.0	2.4	75.8	7.9	99	601	77.5	8.3	
SLM	35	1.09	44	5.0	78	38.4	20.9	7.5	1.7	2.3	75.9	7.8	99	601	77.8	8.1	
SLM	34	1.04	41	4.0	83	41.1	21.3	6.4	1.7	2.8	74.2	7.8	97	602	77.1	7.8	
COMO		STONEVILLE 7 A			100 PERCENT												
M	34	1.04	44	4.7	84	41.5	19.9	5.4	1.0	1.9	75.0	9.3	100	503	75.0	9.3	
M	34	1.05	45	5.0	88	43.8	19.8	5.4	.8	1.8	75.7	8.7	100	552	77.3	8.9	
SLM	34	1.05	45	4.6	81	40.1	19.9	6.6	1.4	2.9	72.9	7.8	95	652	77.5	8.1	
DREW		DPL 15			100 PERCENT												
SLM	34	1.05	47	4.2	86	42.7	21.8	6.4	3.0	3.7	74.0	9.2	98	553	76.2	9.6	
SLM LT SP	34	1.03	44	4.6	89	43.9	21.0	6.8	3.0	4.1	71.5	9.5	94	603	73.5	9.6	
SLM	34	1.04	45	4.7	85	41.9	20.7	6.2	2.0	3.8	76.3	8.5	100	552	77.2	9.2	
SLM LT SP	34	1.06	43	4.6	81	39.9	22.0	5.4	2.6	3.4	73.7	8.5	97	602	73.7	9.4	
DURANT		DPL SM. LEAF			90 PERCENT												
M	34	1.06	47	4.5	85	42.1	22.0	6.3	1.2	1.9	76.0	9.0	100	502	77.5	9.1	
M	34	1.05	43	4.1	85	41.9	21.7	6.2	1.8	2.5	78.0	8.8	103	452	79.7	9.0	
M	34	1.04	43	4.4	76	37.9	20.3	6.2	1.7	2.3	77.5	8.6	102	502	78.0	8.6	
SLM	34	1.03	42	4.4	81	39.9	21.2	5.9	2.1	3.1	74.0	8.4	98	602	76.5	8.4	
GREENWOOD		DPL SM. LEAF			95 PERCENT												
M	34	1.07	44	4.3	83	41.3	23.8	7.1	.5	.8	76.5	9.1	101	502	77.6	8.8	
M	34	1.07	43	4.4	79	39.3	22.0	7.1	.8	1.9	78.2	8.2	103	501	79.0	8.2	
M	34	1.05	43	4.5	82	40.4	21.3	6.8	.7	1.4	77.0	8.4	101	502	78.5	8.4	
SLM LT SP	34	1.08	40	4.2	84	41.3	20.7	6.2	1.0	1.6	74.7	8.4	98	602	77.0	8.0	

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s blehd yarn			Color 22s dyed yarn				
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			No.	No.	Rflect-ance	Yellow-ness	Com-posite	Rflect-ance	Yellow-ness	Com-posite	Rflect-ance	Blue-ness	Com-posite
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index	
LOUISIANA---CONTINUED																										
WINNABORO		DPL SM. LEAF										90 PERCENT														
SM	34	5.7	14	111	37	2146	6.1	4.6	120	100	110	10	7	57	120	72.3	12.9	106	83.6	2.4	104	25.7	27.8	114		
SLM	34	8.1	17	109	37	2124	5.8	4.8	120	100	110	26	18		80	64.6	12.6	90	82.8	2.8	101	27.3	26.6	106		
SLM	33	6.4	24	102	35	1997	5.8	4.3	110	100	105	18	14		90	69.3	11.9	98	82.6	2.8	100	29.7	25.1	95		
MISSISSIPPI																										
ABERDEEN		DPL SM. LEAF										95 PERCENT														
SM	34	7.4	20	108	35	2063	5.8	4.5	110	100	110	16	15	52	100	73.1	11.5	103	82.4	2.4	102	26.5	27.0	109		
M	34	7.8	24	101	32	1911	5.5	3.9	110	100	105	23	18		100	72.6	11.1	101	81.7	2.6	99	28.1	26.9	106		
M	34	6.3	21	104	35	2019	6.0	4.5	120	100	110	15	14		100	73.4	10.8	101	84.6	2.2	108	28.4	26.6	104		
BELZONI		DELFOF 9169										75 PERCENT														
SLM	34	8.7	38	109	38	2149	5.9	4.3	100	90	95	28	23	56	100	71.6	12.0	102	84.5	3.0	104	27.6	27.1	107		
SLM	35	8.7	24	105	35	2030	5.6	4.3	110	100	105	23	17		100	72.0	11.4	101	84.2	2.4	105	29.2	25.9	99		
SLM LT SP	34	9.4	31	86	25	1628	5.0	3.6	100	70	85	22	15		90	67.4	11.6	92	82.8	2.4	103	30.5	25.2	94		
BOONEVILLE		DIXIE KING										75 PERCENT														
M	35	7.8	32	125	44	2475	6.4	5.2	110	100	105	27	19	68	90	72.1	12.1	104	82.7	2.7	101	26.4	26.6	108		
M	35	7.4	24	112	39	2207	5.8	4.3	110	90	100	22	20		100	71.0	11.6	100	82.9	2.6	102	28.0	26.7	105		
M	34	6.6	26	98	31	1853	5.8	4.5	110	100	105	17	12		110	72.3	11.1	101	82.6	2.6	101	28.8	26.5	102		
CLARKSDALE		DPL SM. LEAF										100 PERCENT														
SLM	35	8.2	33	117	40	2287	6.2	4.9	100	100	100	32	21	59	80	70.0	11.0	96	82.4	2.6	101	27.0	26.8	107		
SLM	34	7.4	34	113	39	2216	6.2	4.4	110	100	105	28	21		80	71.6	10.8	98	83.0	2.6	102	27.2	26.9	107		
SLM	35	7.0	22	107	37	2102	6.4	4.7	120	110	115	21	12		90	72.2	10.7	99	84.7	1.9	109	27.2	26.9	107		
SLM	34	7.7	40	100	32	1900	6.2	4.9	100	90	95	24	20	50	80	71.2	10.5	97	84.4	2.0	108	29.4	26.2	100		
COMO		STONEVILLE 7 A										100 PERCENT														
M	34	8.2	29	90	29	1583	4.8	3.4	110	80	95	20	13	42	100	71.2	12.0	102	81.9	2.5	100	27.4	26.6	106		
M	34	7.6	27	93	28	1586	5.0	3.5	110	80	95	19	13		110	72.7	11.5	102	83.1	2.5	103	27.6	27.0	107		
SLM	34	7.3	27	95	29	1770	5.2	3.8	110	100	105	24	19		100	71.2	10.5	96	84.0	2.3	106	28.5	26.4	103		
DREW		DPL 15										100 PERCENT														
SLM	34	8.8	13	117	41	2312	5.8	4.8	120	100	110	18	12	57	90	69.6	13.0	102	81.4	3.0	97	26.3	26.6	108		
SLM LT SP	34	10.0	16	101	33	1936	5.2	3.9	120	100	110	23	18		80	68.3	12.6	98	82.0	3.1	98	28.1	26.1	102		
SLM	34	9.4	21	104	32	1944	5.6	4.0	110	100	105	22	16		100	72.4	11.4	102	82.4	2.8	99	27.4	26.2	104		
SLM LT SP	34	8.5	18	98	30	1828	5.5	4.0	120	100	110	16	12	46	90	71.8	11.8	102	84.2	2.6	105	28.2	26.0	102		
DURANT		DPL SM. LEAF										90 PERCENT														
M	34	7.3	12	119	42	2359	6.1	4.9	120	110	115	13	9	60	100	72.6	12.0	104	82.8	2.4	102	26.1	27.5	112		
M	34	7.4	22	119	41	2334	6.0	4.6	110	110	110	17	13		100	73.4	11.8	104	81.6	2.4	99	27.3	26.3	105		
M	34	8.6	25	105	34	2005	6.2	4.5	100	100	100	21	16		100	72.9	11.3	102	83.4	2.7	103	26.8	26.4	106		
SLM	34	8.3	22	99	31	1864	5.4	4.1	110	100	105	15	10	50	90	71.8	11.2	100	84.4	2.6	105	30.0	25.9	98		
GREENWOOD		DPL SM. LEAF										95 PERCENT														
M	34	8.0	30	116	40	2276	6.0	5.1	110	100	105	23	23	60	90	71.7	11.7	101	82.5	2.8	100	26.4	26.7	108		
M	34	7.4	40	107	36	2077	6.0	4.6	100	90	95	29	21		100	73.8	10.8	102	83.0	2.3	103	27.4	26.9	107		
SLM LT SP	34	7.8	42	96	31	1831	5.9	4.4	100	80	90	24	20	47	90	71.8	10.9	99	83.5	2.4	104	29.0	26.2	101		

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Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results													Color of cleaned lint			
		Digital Fibrograph			Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer		Color of raw stock			Reflect- ance	Yellow- ness		
		2.5% span length	50/2.5 unif.	Rdg.		Zero gauge	1/8" gauge	G/tex		Pct.	Visible waste	Total waste	Reflect- ance	Yellow- ness			Composite	
Grade	Staple	32d in.	In.	Pct.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	Yb	Index	Code	Rd	Yb		
MISSISSIPPI GREENWOOD		CONTINUED																
		DPL 15															100 PERCENT	
SLM	34	1.07	48	4.8	87	42.9	23.4	6.4	1.5	2.3	74.0	9.4	98	553	74.8	10.0		
SLM	34	1.07	44	4.4	86	42.7	23.8	6.9	1.9	2.6	73.0	8.7	96	602	76.0	8.7		
SLM	34	1.06	44	4.6	79	38.9	21.7	6.0	1.7	2.9	73.2	8.2	96	602	74.5	8.7		
SLM	34	1.02	42	4.0	83	41.1	22.8	5.9	1.7	3.0	73.2	8.1	96	602	76.9	8.3		
HOLLY SPRINGS		MIXED-MAINLY STONEVILLE 7															100 PERCENT	
M	34	1.05	45	4.1	76	37.6	22.3	6.6	1.2	1.9	74.8	9.3	99	553	77.5	9.1		
M	34	1.05	43	4.3	82	40.7	19.9	6.2	1.0	1.5	75.7	8.6	100	552	77.0	8.6		
M	34	1.03	44	4.5	78	38.6	19.4	6.4	1.0	1.9	75.7	8.6	100	552	76.7	8.8		
INDIANOLA		DIXIE KING															100 PERCENT	
M	34	1.04	45	4.8	101	50.0	21.3	4.8	1.6	2.5	73.2	9.2	96	553	74.7	9.5		
M LT SP	34	1.03	43	4.8	96	47.4	20.3	4.9	2.6	3.3	70.2	9.2	91	603	71.7	9.6		
SLM	34	1.02	44	4.6	94	46.8	21.0	5.0	.8	1.9	73.0	8.7	96	602	74.3	9.0		
LELAND		FOX 4															100 PERCENT	
SLM	34	1.06	47	5.2	91	45.2	22.4	5.5	1.2	3.1	73.0	9.0	96	603	75.0	9.2		
SLM	34	1.04	45	5.3	88	43.7	23.7	5.7	2.7	3.4	70.2	8.9	91	653	72.3	9.2		
SLM	34	1.08	47	5.2	81	40.1	22.6	5.3	2.1	3.1	73.0	8.5	95	602	73.8	9.1		
LM	34	1.06	45	4.8	89	44.0	23.1	5.0	2.5	2.8	69.5	8.1	89	702	71.2	8.7		
LELAND		STONEVILLE 213															100 PERCENT	
SLM	35	1.12	46	5.0	92	45.5	24.4	5.4	3.1	3.8	72.8	9.4	96	553	74.7	9.8		
LEXINGTON		DPL SM* LEAF															90 PERCENT	
M	34	1.05	47	5.2	87	43.1	25.3	6.7	.8	1.6	75.8	9.0	100	502	76.5	9.0		
M	34	1.06	45	4.8	83	41.3	22.7	6.9	.8	1.6	77.3	8.5	102	502	79.3	8.6		
M	35	1.08	44	4.7	80	39.8	21.4	6.4	.8	1.7	77.0	8.3	101	552	77.2	8.6		
M LT SP	34	1.06	42	4.8	80	39.8	22.1	6.4	1.1	1.9	72.7	8.6	95	602	74.9	8.8		
OXFORD		DPL SM* LEAF															95 PERCENT	
M	36	1.12	45	4.4	84	41.7	23.1	5.8	1.2	2.3	77.0	8.9	102	502	78.2	9.1		
M	34	1.06	44	4.6	83	40.9	20.7	6.3	.7	1.3	77.0	8.6	101	502	78.0	8.8		
SLM	34	1.06	46	4.8	76	37.8	20.8	7.4	1.9	2.7	73.7	7.9	96	602	75.0	8.5		
ROLLING FORK		DPL SM* LEAF															90 PERCENT	
M	36	1.13	47	4.5	84	41.4	23.1	6.6	1.6	2.8	76.5	8.9	101	502	78.0	9.0		
SLM	35	1.10	43	4.4	81	39.9	22.2	6.6	2.7	3.3	74.9	8.2	98	602	76.5	8.2		
SLM	35	1.11	45	4.9	83	40.9	22.2	7.0	1.9	2.1	75.3	8.0	99	602	76.8	8.2		
SLM LT SP	35	1.10	42	4.2	86	42.4	21.9	6.2	1.8	2.5	72.3	8.2	94	652	74.0	8.4		
ROLLING FORK		DPL SM* LEAF															100 PERCENT	
M	36	1.13	47	4.8	85	42.0	23.1	6.9	1.2	2.0	77.7	8.6	102	502	79.0	8.8		
M	36	1.11	44	4.8	90	44.6	25.1	6.8	1.1	1.7	78.0	8.4	102	501	79.5	8.6		
M	36	1.11	44	4.6	82	40.5	22.1	6.5	1.1	2.0	78.7	7.8	103	501	78.7	8.2		
SLM	35	1.12	44	4.7	81	40.0	22.7	6.6	1.4	2.0	76.5	7.9	100	551	78.3	8.0		
SENTOBIA		DPL 15															90 PERCENT	
M	34	1.05	46	4.2	78	38.7	21.9	6.4	1.3	1.8	74.5	9.3	99	553	76.8	9.6		
M	34	1.06	43	4.5	79	39.2	20.5	6.4	1.3	2.3	75.2	8.8	99	552	77.2	8.9		
M	34	1.04	45	4.8	74	36.4	18.2	7.2	1.2	2.1	76.0	8.2	100	552	77.3	8.4		

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprctns.		Spin. poten- tial	Trash in fabric	Color-22s grey yarn			Color 22s blchd.yarn			Color 22s dyed yarn				
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			22s or 26.8tex	50s or 11.8tex	Reflec- tance	Yellow- ness	Com- posits	Reflec- tance	Yellow- ness	Com- posits	Reflec- tance	Blue- ness	Com- posits
				32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index			Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index
MISSISSIPPI---CONTINUED		100 PERCENT																								
GREENWOOD		DPL 15																								
SLM	34	8.5	17	118	40	2298	5.8	4.6	120	100	110	17	14	60	80	70.2	12.8	103	81.5	2.7	98	26.7	26.8	108		
SLM	34	8.7	36	114	39	2229	5.8	4.3	100	90	95	29	26		70	68.0	11.8	95	82.9	3.1	100	28.0	27.2	107		
SLM	34	9.1	37	101	31	1886	5.5	3.9	100	90	95	35	26		90	68.9	11.1	94	82.9	2.7	102	29.5	25.8	98		
SLM	34	8.4	43	101	32	1911	5.4	4.1	110	100	105	24	18	47	90	71.2	11.0	98	83.6	2.3	105	30.6	25.4	94		
HOLLY SPRINGS		MIXED--MAINLY STONEVILLE 7																								
M	34	7.3	28	109	39	2174	6.5	4.8	110	90	100	29	21	59	90	70.9	12.3	102	82.4	2.9	99	26.7	26.4	106		
M	34	8.2	36	99	33	1914	5.4	4.1	110	90	100	23	18		100	72.2	11.6	102	83.5	2.7	103	28.1	26.6	104		
M	34	6.4	26	96	30	1806	5.7	4.1	110	100	105	21	16		100	72.4	11.3	101	83.6	2.6	104	29.2	26.5	102		
INDIANOLA		DIXIE KING																								
		100 PERCENT																								
M	34	8.0	25	103	32	1933	4.9	3.5	110	100	105	29	24	43	90	69.5	12.0	98	82.1	2.6	100	28.2	26.3	103		
M LT SP	34	9.3	42	86	26	1475	4.4	3.0	100	70	85	51	34		90	67.3	12.0	94	82.7	2.8	101	29.1	25.8	99		
SLM	34	7.2	33	100	29	1825	4.8	3.4	110	100	105	28	22		80	69.4	11.6	97	83.8	2.5	104	30.8	24.6	91		
LELAND		FOX 4																								
		100 PERCENT																								
SLM	34	8.4	13	120	41	2345	5.7	4.6	120	100	110	24	19	53	80	69.5	11.7	97	82.1	2.7	100	24.9	27.3	114		
SLM	34	9.0	23	109	34	2049	5.2	3.8	100	100	100	34	24		80	66.8	11.6	91	81.7	3.0	97	28.2	26.5	104		
SLM	34	8.8	28	109	35	2074	5.8	4.1	110	100	105	28	17		90	69.2	11.2	95	82.7	3.0	100	28.4	26.1	101		
LM	34	9.0	30	107	33	2002	5.4	3.8	110	100	105	24	19	53	80	67.4	11.0	90	82.7	3.1	99	30.7	25.1	93		
LELAND		STONEVILLE 213																								
SLM	35	9.8	28	113	38	2193	5.8	4.2	100	100	100	28	19	57	90	69.1	12.2	98	82.3	2.7	100	26.5	27.2	110		
LEXINGTON		DPL SM. LEAF																								
		90 PERCENT																								
M	34	6.3	12	113	36	2143	5.9	4.7	120	110	115	17	11	50	100	71.7	11.8	102	82.0	2.3	101	25.2	27.7	114		
M	34	7.8	32	116	39	2251	6.1	4.7	110	90	100	23	19		100	72.2	11.4	101	81.6	2.5	99	26.9	26.8	107		
M	35	7.4	31	106	34	2018	6.1	4.4	100	90	95	20	16		100	72.0	10.8	99	82.9	2.6	102	27.2	26.2	104		
M LT SP	34	7.3	27	91	26	1502	5.3	3.9	120	90	105	16	11	44	90	69.0	11.4	95	83.4	2.3	105	28.4	26.4	103		
OXFORD		DPL SM. LEAF																								
		95 PERCENT																								
M	36	9.7	37	123	44	2453	6.1	5.1	100	90	95	32	27	62	90	72.4	12.2	104	82.2	2.8	99	25.4	26.8	110		
M	34	6.6	24	103	33	1958	5.7	4.1	110	100	105	23	14		100	72.4	11.3	101	82.9	2.8	101	27.6	26.5	105		
SLM	34	7.2	29	106	37	2091	6.1	4.8	110	100	105	29	19		80	69.8	10.8	95	84.2	2.4	105	27.6	26.7	105		
ROLLING FORK		DPL SM. LEAF																								
		90 PERCENT																								
M	36	6.6	20	129	46	2569	6.2	5.1	110	130	105	19	16	67	90	71.6	12.2	103	82.2	2.7	100	25.4	27.4	113		
SLM	35	8.7	42	116	41	2301	5.9	4.8	100	100	100	31	24		90	72.2	11.4	101	83.3	2.3	104	28.0	26.2	103		
SLM	35	7.0	20	110	37	2135	6.0	4.5	120	100	110	19	13		90	72.3	10.8	100	83.6	2.1	106	28.3	26.4	103		
SLM LT SP	35	7.9	34	107	36	2077	6.2	4.7	100	100	100	26	18	56	90	68.1	11.0	92	82.9	2.8	101	28.4	26.1	101		
ROLLING FORK		DPL SM. LEAF																								
		100 PERCENT																								
M	36	7.3	17	129	47	2594	6.5	5.3	120	100	110	17	13	67	100	73.3	12.0	105	82.1	2.5	100	25.2	27.4	113		
M	36	7.2	24	123	44	2453	6.0	5.1	120	100	110	22	15		90	73.9	11.2	103	83.3	2.5	103	26.7	27.0	109		
M	36	7.9	32	114	40	2254	6.5	4.9	100	90	95	21	20		100	73.5	10.5	101	81.9	2.6	99	27.5	26.4	104		
SLM	35	8.6	26	114	39	2229	6.2	4.7	110	100	105	17	12	57	80	73.3	11.0	102	83.4	2.0	106	28.6	26.5	103		
SENATOBIA		DPL 15																								
		90 PERCENT																								
M	34	7.9	21	110	38	2160	6.2	4.7	110	100	105	40	25	58	70	70.5	12.4	102	82.6	2.9	100	26.6	26.5	107		
M	34	8.2	25	97	31	1842	5.5	4.1	110	90	100	26	19		100	71.5	11.7	101	83.3	2.7	102	28.3	26.9	105		
M	34	7.1	22	99	31	1864	5.8	4.4	120	100	110	18	14		100	72.8	11.0	101	84.7	2.2	108	29.5	25.9	98		

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results																
		Digital Fibrograph		Micro- naire	Fiber strength			Elonga- tion 1/8"	Shirley Analyzer			Color of raw stock			Color of cleaned lint			
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	G/tex		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness			
Grade	Staple	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Ra	tb	Index	Code	Ra	tb	
MISSISSIPPI CONTINUED																		
TUNICA		DPL SM. LEAF				100 PERCENT												
SLM		36	1.17	46	4.2	81	40.1	24.0	6.9	2.2	3.1	76.2	9.0	100	502	78.0	9.1	
M LT SP		35	1.11	43	4.4	84	41.8	21.1	7.4	2.2	3.5	74.3	8.4	98	602	76.0	8.8	
M		35	1.09	45	4.4	81	40.2	21.6	7.3	1.3	2.1	79.2	8.1	104	501	81.4	7.8	
SLM		34	1.07	42	4.1	81	40.1	21.8	6.3	1.4	2.3	75.8	7.9	99	601	77.7	8.3	
TUNICA		DELTA QUEEN				100 PERCENT												
SLM		34	1.08	43	4.1	82	40.5	22.3	6.4	2.2	3.3	72.3	9.0	95	603	75.8	8.9	
SLM		34	1.07	43	4.1	82	40.8	21.3	6.7	1.6	1.7	74.0	8.5	97	602	74.2	9.2	
SLM		34	1.06	41	3.6	81	40.2	22.1	6.1	2.3	2.9	74.0	8.0	97	602	76.0	8.3	
TUPELO		REX				85 PERCENT												
M		34	1.06	43	4.0	81	40.2	19.5	5.9	1.6	2.3	76.5	8.8	101	502	78.0	9.0	
M		34	1.04	44	4.3	80	39.4	20.9	5.4	1.6	2.5	76.8	8.4	101	552	76.8	8.4	
TUTWILER		STONEVILLE 7				100 PERCENT												
SLM		36	1.12	47	4.9	88	43.5	23.1	5.7	2.9	3.3	73.8	9.4	98	553	76.0	9.9	
SLM		35	1.10	46	5.0	84	41.7	21.3	6.2	3.8	4.8	73.9	8.5	97	602	77.2	8.8	
SLM		36	1.10	47	5.0	82	40.5	21.3	6.1	3.0	4.8	73.8	8.0	96	602	76.5	8.6	
LH		35	1.08	44	5.0	82	40.7	20.4	5.4	4.8	5.7	72.4	7.5	94	652	75.8	8.7	
VICKSBURG		DELTAPINE 15				100 PERCENT												
M		34	1.04	46	4.6	89	44.2	22.1	5.8	1.3	1.9	75.3	8.8	99	552	78.0	8.9	
M		33	1.04	46	4.8	88	43.6	23.2	5.4	1.6	2.2	74.0	9.5	98	553	76.5	9.6	
M		34	1.05	45	4.8	88	43.5	21.2	6.3	1.4	2.0	76.5	8.6	101	502	76.5	9.2	
WEST POINT		DPL SM. LEAF				100 PERCENT												
SM		34	1.06	47	4.6	89	44.3	24.2	6.8	.7	1.3	77.3	8.5	102	502	80.2	8.5	
SLM		34	1.07	42	4.2	84	41.7	21.8	7.0	1.4	2.1	75.0	8.2	99	602	76.8	8.6	
M		33	1.04	42	4.4	80	39.4	21.2	6.6	.8	1.4	76.9	7.8	100	551	79.0	7.8	
WINONA		DPL SM. LEAF				90 PERCENT												
M		34	1.08	46	5.3	84	41.6	22.7	6.7	1.4	2.3	75.0	8.9	99	552	78.0	9.6	
M		35	1.04	44	4.8	80	39.8	21.0	7.0	2.1	2.6	77.2	8.4	102	502	79.0	8.6	
M		34	1.08	44	4.6	78	38.5	20.7	6.6	1.9	2.5	77.7	8.3	102	501	78.0	8.5	
MISSOURI BROSELEY		MIXED--MAINLY STONEVILLE 7				75 PERCENT												
M LT SP		34	1.04	44	4.4	81	40.1	21.2	5.1	1.2	2.0	71.2	9.6	94	603	75.4	9.2	
SLM		34	1.07	43	4.0	82	40.6	21.7	5.7	1.6	2.8	72.4	8.3	95	602	77.2	8.5	
SLM		33	1.00	43	4.0	81	40.1	20.6	5.6	1.9	3.5	71.7	7.9	92	652	74.8	8.2	
CANALOU		FOX				75 PERCENT												
M LT SP		34	1.06	44	3.8	80	39.6	20.8	5.9	1.1	2.3	73.5	9.0	97	553	75.6	8.9	
SLM		34	1.03	44	4.3	77	38.1	21.4	6.1	2.2	3.1	70.6	8.6	91	653	72.8	8.8	
SLM		34	1.05	44	4.0	86	42.6	21.1	5.9	1.9	2.7	72.8	7.4	94	651	76.1	7.7	



Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																							
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s blchd yarn			Color 22s dyed yarn			
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			Rflect-ance	Yellow-ness	Com-posite	Rflect-ance	Yellow-ness	Com-posite	Rflect-ance	Blue-ness	Com-posite	
				Index	Index	Index	No.	No.	No.	Index	Index	Index	No.			No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index
MISSISSIPPI---CONTINUED																									
TUNICA		DPL SM. LEAF										100 PERCENT													
SLM		36	8.0	26	132	48	2652	6.8	5.5	110	100	105	33	22	65	80	72.0	11.9	102	83.0	2.6	102	25.4	27.0	111
M LT SP		35	8.3	35	111	38	2171	6.4	4.8	100	90	95	33	28	80	70.3	11.5	98	83.3	2.7	102	26.7	27.2	109	
M		35	7.1	28	111	39	2196	6.4	4.8	110	100	105	21	18	90	74.9	10.9	104	84.8	2.2	108	27.4	26.8	106	
SLM		34	8.4	33	99	32	1889	6.2	4.7	100	90	95	27	22	51	90	73.6	10.6	101	83.4	2.2	105	29.0	26.6	102
TUNICA		DELTA QUEEN										100 PERCENT													
SLM		34	9.3	45	116	41	2301	6.3	4.5	100	90	95	52	40	50	80	69.2	12.1	98	83.8	3.2	102	28.0	26.5	104
SLM		34	7.8	46	105	36	2055	5.7	4.4	100	90	95	35	26	80	69.8	11.1	96	84.8	2.4	107	29.1	26.0	100	
SLM		34	8.5	60	104	35	2019	6.2	4.6	100	90	95	37	30	80	70.8	11.2	98	83.8	2.6	104	29.2	25.7	98	
TUPELO		REX										85 PERCENT													
M		34	7.6	32	110	37	2135	5.8	4.3	110	90	100	23	18	55	100	72.2	12.0	103	82.7	2.4	102	27.4	26.3	104
M		34	8.6	34	97	32	1867	5.4	3.7	100	90	95	26	22	110	72.6	11.4	102	83.7	2.3	105	28.3	26.4	103	
TUTWILER		STONEVILLE 7										100 PERCENT													
SLM		36	9.5	9	120	42	2370	5.8	4.6	120	120	120	17	10	63	90	71.1	12.6	104	82.1	2.6	100	26.2	27.0	110
SLM		35	9.2	13	108	36	2088	5.2	4.2	120	110	115	16	14	90	71.3	11.8	101	83.1	2.7	102	29.2	25.9	99	
SLM		36	8.5	11	107	36	2077	5.5	4.3	120	110	115	19	10	90	71.7	10.8	98	84.2	2.4	106	29.6	26.0	99	
LM		35	9.4	12	100	31	1875	5.6	4.0	120	100	110	18	11	53	90	71.9	10.8	99	83.6	2.5	104	30.8	25.7	95
VICKSBURG		DELTAPINE 15										100 PERCENT													
M		34	6.8	8	116	39	2251	5.6	4.4	120	110	115	14	8	57	100	72.1	12.4	104	82.8	2.3	103	26.0	27.3	111
M		33	8.0	15	111	37	2146	5.6	4.2	120	110	115	18	13	90	69.8	12.4	100	81.3	2.6	98	27.5	26.4	105	
M		34	7.6	16	102	32	1922	5.3	3.6	120	100	110	21	16	100	71.4	11.2	99	81.6	2.7	98	28.0	26.8	105	
WEST POINT		DPL SM. LEAF										100 PERCENT													
SM		34	7.7	12	128	47	2583	6.6	5.4	120	110	115	16	13	61	100	73.6	12.1	105	83.1	2.4	103	25.0	27.3	113
SLM		34	7.7	29	120	43	2395	6.2	4.9	100	90	95	28	23	90	71.6	11.2	100	83.7	2.7	103	26.9	27.0	108	
M		33	6.7	27	110	38	2160	6.4	4.8	110	110	110	15	15	100	72.7	10.4	99	83.2	2.4	103	28.6	26.0	101	
WINONA		DPL SM. LEAF										90 PERCENT													
M		34	7.2	12	116	39	2251	6.1	4.9	120	120	120	11	10	59	100	71.6	12.6	104	82.0	2.4	100	24.9	27.7	115
M		35	8.4	22	107	35	2052	5.9	4.2	110	100	105	16	13	100	73.2	11.3	103	83.1	2.5	103	27.5	26.8	106	
M		34	7.8	19	105	35	2030	5.9	4.7	110	100	105	12	11	100	72.9	11.0	101	82.1	2.4	101	27.7	26.8	106	
MISSOURI																									
BROSELEY		MIXED--MAINLY STONEVILLE 7																							
M LT SP		34	7.1	21	96	32	1856	5.6	4.2	110	100	105	28	23	55	80	67.5	12.2	95	83.7	3.2	101	28.5	26.0	101
SLM		34	8.3	15	96	33	1881	5.6	4.6	110	100	105	28	20	90	68.6	11.2	93	83.9	3.0	103	27.7	26.1	103	
SLM		33	8.4	48	82	24	1502	5.3	3.5	100	90	95	33	26	90	69.1	10.9	94	83.4	2.7	103	29.6	24.5	93	
CANALOU		FOX										75 PERCENT													
M LT SP		34	8.4	25	103	36	2033	6.3	4.8	110	90	100	28	22	60	90	68.6	11.7	96	83.2	2.9	101	27.6	25.6	101
SLM		34	7.6	25	96	32	1856	5.7	4.3	110	90	100	28	24	90	66.9	11.2	90	82.3	2.9	99	28.1	26.0	102	
SLM		34	8.0	28	102	36	2022	5.4	4.4	110	100	105	24	18	100	69.0	10.2	91	81.4	2.6	98	29.0	26.1	100	

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph		Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer			Color of raw stock			Color of cleaned lint		
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge			Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness		
Grade	Staple			Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	R <sub>a</sub>	+b	Index	Code	R <sub>a</sub>	+b	
	3/32 in.	In.	Pct.														
MISSOURI GIDEON		CONTINUED															
		REX														100 PERCENT	
SLM	34	1.04	42	4.2	81	40.1	20.5	4.9	1.2	3.5	71.5	8.7	93	603	74.9	9.1	
SLM	34	1.03	43	3.6	83	41.1	19.6	5.2	2.0	3.0	73.0	8.1	95	602	76.9	8.6	
LM	33	1.02	42	3.6	85	42.1	19.2	5.5	2.8	3.8	71.1	7.8	92	652	74.9	8.2	
		REX														85 PERCENT	
SLM	35	1.08	45	4.1	78	38.6	20.3	5.4	1.3	2.2	72.8	9.0	96	603	76.5	9.0	
SLM	35	1.10	43	4.2	77	38.1	20.9	5.7	1.7	3.0	71.9	8.6	94	602	74.8	8.5	
SLM	34	1.03	42	4.2	78	38.6	19.6	5.3	1.1	1.8	73.4	8.0	96	602	75.6	7.8	
		DELFO 9169														75 PERCENT	
SLM LT SP	34	1.08	44	4.2	81	40.1	21.5	5.1	2.3	2.9	71.0	9.2	92	603	74.0	9.3	
SLM	34	1.10	45	3.9	83	41.1	20.2	5.8	2.2	3.1	74.0	8.1	97	602	75.9	8.7	
SLM	34	1.02	43	3.8	83	41.1	21.2	5.4	2.0	3.4	73.2	7.8	96	652	75.3	8.0	
		STONEVILLE 213														84 PERCENT	
SLM	34	1.04	48	4.4	83	41.1	21.1	5.1	2.1	3.1	71.7	9.4	94	603	74.2	9.4	
SLM	34	1.04	43	4.3	86	42.6	22.2	5.2	1.9	3.1	72.3	8.6	95	602	77.3	8.5	
SLM	33	.99	43	4.0	81	40.1	19.3	5.6	2.1	3.5	73.2	8.1	96	602	76.8	8.1	
		AUBURN 56														100 PERCENT	
M LT SP	32	1.00	47	4.4	84	41.6	20.7	5.5	1.3	2.5	69.8	9.8	90	604	71.9	9.9	
SLM LT SP	34	1.01	44	4.2	78	38.6	20.9	5.9	1.6	3.1	68.1	9.3	88	653	72.7	9.5	
SLM LT SP	33	.98	43	4.2	78	38.6	19.5	5.8	2.1	3.9	67.5	8.5	86	703	70.2	8.8	
		DPL SM. LEAF														70 PERCENT	
SLM	34	1.08	44	4.6	78	38.6	21.2	6.4	1.4	2.6	69.1	9.0	89	653	71.3	9.2	
SLM	34	1.07	44	4.1	81	40.1	21.0	5.6	1.4	2.6	72.3	8.1	94	652	76.0	8.3	
SLM	34	1.06	43	4.6	79	39.1	21.9	5.8	1.3	2.2	72.1	8.1	94	652	74.4	8.0	
NORTH CAROLINA DUNN		REX														100 PERCENT	
M	33	1.03	43	4.0	75	37.3	19.4	6.6	1.2	2.1	77.2	8.7	102	502	79.0	8.7	
LM	33	1.03	41	4.0	70	34.7	18.6	6.6	1.2	2.5	70.0	8.1	90	652	73.0	8.6	
SLM	34	1.04	42	4.1	72	35.4	19.4	5.8	1.3	1.9	72.2	8.5	94	602	74.0	8.6	
		COKER 100														85 PERCENT	
M	33	1.00	44	3.8	73	36.3	20.3	6.2	1.4	2.3	75.3	8.8	99	552	77.5	9.0	
SLM	33	1.03	42	3.8	73	36.1	19.3	6.7	1.6	1.8	74.8	7.8	98	602	77.0	8.0	
SLM	33	1.01	44	3.9	72	35.7	19.6	6.6	1.6	2.0	75.5	7.8	99	601	76.8	8.3	
		REX														75 PERCENT	
M	33	1.04	45	3.8	77	38.3	20.9	6.5	1.2	1.9	77.0	8.9	102	502	79.0	8.9	
SLM	33	1.01	43	4.0	76	37.7	20.0	7.0	1.2	1.6	74.8	7.9	98	602	75.8	8.4	
M	33	1.01	42	4.2	79	39.3	21.3	5.7	.8	1.5	77.0	8.3	101	552	77.0	8.5	
		CAROLINA QUEEN														100 PERCENT	
SM	34	1.05	47	4.6	84	41.4	22.9	6.1	.8	1.3	77.8	9.2	103	452	78.7	9.0	
SM	34	1.02	46	4.9	81	40.2	21.2	7.4	1.0	1.8	78.2	8.4	103	501	78.8	8.6	
M	34	1.04	44	4.6	78	38.5	21.6	6.6	1.0	1.2	76.0	8.2	100	552	76.7	8.1	

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																								
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s blchd. yarn			Color 22s dyed yarn				
				22s or 26.8tex	50s or 11.8tex	Average brk. fctr.	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index	
MISSOURI-----CONTINUED																										
GIDEON		REX 100 PERCENT																								
SLM	34	8.7	22	92	31	1787	5.4	4.0	110	103	105	29	25	48	90	68.9	11.6	96	82.9	2.8	101	27.8	26.1	103		
SLM	34	8.4	26	92	30	1762	5.4	4.0	110	100	105	25	21		90	69.2	10.8	94	83.4	2.7	103	28.2	26.1	102		
LM	33	10.1	57	85	28	1635	4.9	3.9	100	80	90	44	30		90	68.2	10.8	92	82.7	3.0	100	28.6	25.7	100		
HOLLAND		REX 85 PERCENT																								
SLM	35	7.1	20	100	36	2000	6.1	4.8	120	100	110	34	20	59	80	69.6	11.9	98	83.6	3.1	101	26.8	26.5	106		
SLM	35	8.0	25	97	34	1917	5.7	4.3	110	100	105	25	20		80	67.4	11.4	92	83.3	2.9	102	27.0	26.7	107		
SLM	34	7.2	49	88	29	1693	5.4	4.2	110	90	100	28	25		100	67.8	10.4	89	82.1	2.7	100	27.2	25.8	103		
PARMA		DELFO 9169 75 PERCENT																								
SLM LT SP	34	8.5	21	103	37	2058	6.1	4.8	120	90	105	31	25	60	80	65.7	12.0	90	82.9	3.0	100	26.6	26.5	107		
SLM	34	7.4	14	108	39	2163	6.2	4.9	110	100	105	23	16		90	70.6	11.1	98	83.4	2.9	102	27.2	26.5	106		
SLM	34	8.8	48	94	32	1834	5.6	4.1	100	90	95	36	27		80	69.4	10.8	94	84.2	2.7	104	28.9	24.6	94		
OULIN		STONEVILLE 213 84 PERCENT																								
SLM	34	7.8	18	102	35	1997	5.7	4.7	110	100	105	29	21	55	80	68.4	12.1	96	83.3	3.0	101	26.7	26.8	108		
SLM	34	7.7	11	102	35	1997	5.6	4.4	120	100	110	24	17		80	69.1	11.6	97	83.2	3.1	100	27.3	26.8	106		
SLM	33	7.8	26	87	28	1657	5.3	3.5	110	100	105	30	22		80	69.9	10.6	94	83.1	2.7	102	28.4	26.1	102		
SENATH		AUBURN 56 100 PERCENT																								
M LT SP	32	8.0	16	97	33	1892	5.9	4.4	110	100	105	27	17	53	80	65.1	12.4	90	83.4	3.1	101	26.6	26.9	108		
SLM LT SP	34	9.1	16	92	32	1812	5.3	4.4	120	110	115	24	18		90	63.0	11.8	84	82.6	2.8	100	27.6	26.4	104		
SLM LT SP	33	9.7	30	81	25	1516	5.2	3.4	110	90	100	28	23		100	64.7	10.9	85	84.0	2.7	104	28.9	25.0	96		
STEELE		DPL SM* LEAF 70 PERCENT																								
SLM	34	7.6	25	101	35	1986	6.0	4.4	110	100	105	28	22	52	80	64.9	11.6	87	82.5	3.0	99	27.2	25.7	102		
SLM	34	7.6	22	97	33	1892	5.8	4.1	110	100	105	25	17		90	68.3	10.6	91	82.7	2.7	101	27.5	26.4	105		
SLM	34	8.2	42	95	31	1820	6.0	4.5	110	90	100	26	20		90	67.7	10.8	90	83.5	2.9	102	27.7	25.6	101		
M	34	7.1	39	105	35	2030	6.2	4.7	100	90	95	23	21		90	73.3	11.0	102	84.4	2.4	106	27.7	26.9	106		
NORTH CAROLINA																										
DUNN		REX 100 PERCENT																								
M	33	8.5	32	101	34	1961	6.4	5.0	110	100	105	24	19	48	90	73.2	11.9	104	83.6	2.6	103	26.2	26.5	108		
LM	33	8.4	25	90	29	1715	6.2	4.5	110	100	105	35	21		80	67.0	11.0	90	83.9	2.6	104	29.2	26.0	100		
SLM	34	7.7	27	85	25	1560	5.9	4.1	100	90	95	21	18		90	69.0	10.8	93	83.8	2.5	104	30.1	25.4	95		
ENFIELD		COKER 100 85 PERCENT																								
M	33	7.3	35	103	36	2033	6.3	5.2	100	100	100	38	30	52	90	71.1	11.7	100	83.1	2.6	102	26.7	26.4	106		
SLM	33	6.7	34	101	34	1961	6.4	5.0	110	100	105	30	24		90	70.8	10.6	96	84.9	2.6	107	29.4	25.7	98		
SLM	33	7.7	38	95	32	1845	6.2	5.1	100	90	95	35	28		90	72.2	10.5	99	83.8	2.5	104	29.8	25.5	96		
JACKSON		REX 75 PERCENT																								
M	33	7.8	30	111	38	2171	6.5	5.0	110	100	105	30	20	56	90	73.2	11.9	104	83.6	2.6	104	26.4	26.8	108		
SLM	33	6.7	26	96	30	1806	6.2	4.4	110	100	105	26	21		90	70.8	10.7	97	84.3	2.8	104	29.2	25.8	99		
M	33	6.4	28	96	29	1781	6.2	4.3	100	100	100	22	15		100	72.0	10.7	99	83.3	2.6	103	29.8	25.8	98		
SHELBY		CAROLINA QUEEN 100 PERCENT																								
SM	34	7.2	24	121	51	2606	6.4	5.2	110	100	105	20	14	58	100	71.8	12.4	104	83.3	2.9	102	25.1	27.7	114		
SM	34	6.0	21	108	36	2088	6.1	4.7	110	100	105	16	10		100	73.9	11.4	104	84.7	2.5	106	26.6	27.4	110		
M	34	6.5	21	106	39	2141	6.1	4.6	110	100	105	22	11		100	71.0	11.0	98	80.6	3.1	95	27.5	25.7	102		

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Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph			Micro- naire	Fiber strength			Elonga- tion 1/8"	Shirley Analyzer			Color of raw stock			Color of cleaned lint	
		Grade	Staple	2.5% span length		50/2.5 unif.	Zero gauge	1/8" gauge		Pct.	Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness
32d in.	In.			Pct.	Rdg.	Mpsi			G/tex								
NORTH CAROLINA SHELBY		CONTINUED COKER 100		100 PERCENT													
SM	33	1.03	45	4.2	78	38.5	21.7	7.3	.6	1.4	77.2	9.2	102	452	77.5	9.0	
SM	33	1.01	43	4.4	77	38.1	20.1	7.8	.7	1.4	77.8	8.6	102	502	78.5	8.6	
M	33	1.03	45	4.2	79	39.2	21.6	7.0	.9	1.1	75.8	8.2	99	552	76.5	8.4	
WAKULLA		COKER 100		90 PERCENT													
M	33	1.03	44	4.7	82	40.4	21.6	6.4	1.3	2.0	76.0	8.6	100	552	77.0	9.2	
SLM	33	1.02	44	4.6	78	38.8	19.5	6.8	1.8	2.8	72.5	8.2	95	602	75.8	8.6	
SLM	33	1.03	43	4.2	74	36.4	20.1	6.1	1.7	2.4	73.2	7.8	95	652	76.8	7.9	
SOUTH CAROLINA AIKEN		COKER 100		80 PERCENT													
SM	34	1.08	46	4.1	79	39.2	21.7	6.4	1.7	2.2	77.7	8.8	102	452	76.6	8.3	
SM	34	1.02	45	5.0	82	40.4	21.9	6.4	.6	1.3	76.7	9.0	101	502	79.0	8.9	
M	34	1.03	45	4.4	78	38.5	20.7	6.4	.8	1.6	74.2	8.8	98	552	75.0	8.8	
CAMDEN		COKER 100		100 PERCENT													
M	34	1.06	46	4.7	79	39.1	21.3	6.6	1.3	2.0	75.8	9.0	100	502	76.8	9.2	
M	34	1.07	46	4.6	76	37.4	20.5	7.0	1.4	2.1	75.2	9.0	99	552	75.2	9.0	
SLM	34	1.04	44	4.6	77	38.3	19.5	6.5	1.7	2.4	73.0	8.3	96	602	75.0	8.5	
ESTILL		COKER 100		99 PERCENT													
M	34	1.03	46	4.2	78	38.8	19.9	6.3	.9	1.3	74.2	8.9	98	552	73.9	9.1	
M	33	1.02	45	4.5	80	39.4	20.4	6.2	1.4	2.2	74.5	8.7	98	552	74.5	9.4	
M	33	1.00	44	4.8	83	41.0	20.0	6.1	1.4	2.2	73.5	9.1	97	553	75.5	9.1	
FLORENCE		COKER 100		90 PERCENT													
M	33	1.02	45	4.7	78	38.8	20.4	6.2	1.1	1.8	74.5	8.9	98	552	76.5	8.7	
M	33	1.00	44	4.8	79	39.2	20.2	6.2	.9	1.9	75.0	8.8	99	552	76.2	8.8	
SLM	34	1.05	45	4.6	80	39.6	19.5	6.6	1.2	1.9	74.0	8.2	97	602	75.8	8.2	
HARTSVILLE		COKER 100		100 PERCENT													
M	34	1.06	47	4.6	80	39.4	21.4	6.4	1.6	1.9	76.2	8.5	100	552	78.0	8.8	
SLM	34	1.07	44	4.6	73	36.0	20.5	6.9	2.3	2.9	72.5	8.1	94	652	75.0	8.3	
SLM	34	1.05	44	4.5	78	38.6	20.1	6.8	1.7	2.4	73.7	7.8	96	602	76.2	8.0	
ST. MATTHEWS		ALL-IN-ONE		100 PERCENT													
SM	33	1.00	47	4.8	81	40.1	21.6	6.6	.8	1.2	75.8	9.4	100	503	78.8	9.0	
M	33	1.03	45	4.4	81	40.2	22.2	6.7	.9	1.7	76.2	9.1	101	502	77.2	8.8	
SLM	34	1.07	44	4.2	74	36.8	20.5	7.1	1.5	2.5	73.4	8.3	96	602	75.9	8.4	
SUMMERTON		DIXIE KING		80 PERCENT													
M	34	1.04	45	4.6	80	39.6	21.3	6.2	.7	1.3	75.0	8.7	99	552	79.0	8.8	
SLM	33	1.02	46	4.7	78	38.6	21.6	5.9	1.3	1.7	73.2	8.5	96	602	74.3	8.7	
SLM	34	1.06	44	4.2	77	38.2	20.6	6.2	1.4	2.2	73.0	7.8	95	652	73.5	8.4	
YORK		COKER 100		100 PERCENT													
M	34	1.07	45	4.4	82	40.5	23.4	5.9	1.1	1.7	75.7	9.4	100	503	76.0	9.4	
M	35	1.06	46	4.4	81	40.0	21.2	6.6	1.1	1.8	76.2	8.8	100	502	77.5	8.8	
M	34	1.05	45	4.8	84	41.4	21.6	6.7	1.2	1.5	76.5	8.4	100	552	77.7	8.6	

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																							
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s blchd. yarn			Color 22s dyed yarn			
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			22s or 26.8tex	50s or 11.8tex	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	Yellow-ness	Com-posite	Reflect-ance	plus-ness
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Ra	+b	Index	Ra	+b	Index	Ra	-b	Index
NORTH CAROLINA--		CONTINUED																							
SHELBY		COKER 100										100 PERCENT													
SM	33	8.2	45	113	39	2218	6.8	5.2	100	100	100	30	30	61	90	70.8	12.3	102	83.7	3.5	100	26.1	26.6	108	
SM	33	6.0	30	107	37	2102	6.6	5.1	110	100	105	20	17	100	72.8	11.7	103	84.3	2.9	104	27.6	26.5	105		
M	33	6.0	32	105	35	2030	6.4	5.1	100	90	95	26	18	100	70.3	11.2	97	80.1	3.7	91	27.6	25.7	101		
WAKULLA		COKER 100										90 PERCENT													
SLM	33	8.1	23	97	31	1842	5.5	4.1	110	100	105	28	21	90	68.6	11.1	93	82.9	2.8	101	29.6	25.9	98		
SLM	33	7.1	29	94	31	1809	5.8	4.7	110	100	105	27	17	90	70.7	10.4	95	82.5	2.6	101	31.3	24.6	90		
M	33	7.1	18	104	35	2019	5.8	4.6	110	100	105	21	15	51	90	72.4	11.7	102	82.4	2.7	100	27.4	26.9	107	
SOUTH CAROLINA		CONTINUED																							
AIKEN		COKER 100										80 PERCENT													
SM	34	6.4	32	121	42	2381	6.4	5.2	100	100	100	20	16	58	90	73.0	11.8	104	82.7	2.5	102	26.2	26.6	108	
SM	33	7.1	30	105	34	2005	5.4	4.2	110	100	105	18	13	110	73.1	11.8	104	82.3	2.3	102	26.7	26.9	108		
M	34	8.2	33	97	31	1842	5.7	4.1	100	90	95	32	27	110	70.7	11.5	99	82.9	2.6	102	29.8	25.5	96		
CAMDEN		COKER 100										100 PERCENT													
M	34	7.5	21	114	39	2229	5.9	4.8	110	100	105	32	17	56	90	71.8	12.1	103	81.7	2.8	98	25.6	27.2	112	
M	34	7.4	28	114	40	2254	6.1	5.0	110	100	105	24	21	90	71.7	12.0	102	83.5	2.7	103	27.8	26.4	104		
SLM	34	7.6	26	99	33	1914	5.8	4.3	100	100	100	29	20	90	69.0	11.1	94	84.6	2.4	107	29.8	25.8	98		
ESTILL		COKER 100										99 PERCENT													
M	34	7.4	21	111	38	2171	6.4	4.9	110	100	105	27	17	56	90	71.0	12.0	101	83.4	2.9	102	26.2	26.8	109	
M	33	8.1	18	98	31	1853	5.4	4.2	120	100	110	17	13	100	70.3	11.5	98	82.1	2.7	100	28.2	25.9	101		
M	33	8.8	19	99	28	1789	5.5	3.7	120	100	110	21	16	90	69.6	11.8	98	82.0	2.8	99	29.3	25.9	99		
FLORENCE		COKER 100										90 PERCENT													
M	33	7.8	21	101	32	1911	6.0	4.2	110	100	105	26	17	48	90	71.2	11.7	100	82.4	2.7	100	29.3	25.8	99	
M	33	8.0	25	96	30	1806	5.4	3.9	110	90	100	27	23	90	71.0	11.3	99	83.6	2.6	104	29.0	26.3	101		
SLM	34	6.8	27	98	34	1928	5.4	4.4	100	100	100	25	18	90	70.4	10.8	96	83.9	2.4	105	30.4	25.5	95		
HARTSVILLE		COKER 100										100 PERCENT													
M	34	7.1	18	111	40	2221	5.1	6.2	110	110	110	25	18	61	90	72.7	11.6	102	82.3	2.5	101	27.1	26.8	107	
SLM	34	8.7	30	109	38	2149	5.9	4.9	110	90	100	34	27	80	69.9	11.1	96	83.1	2.6	102	28.2	26.3	103		
SLM	34	7.1	31	104	36	2044	5.9	4.6	110	100	105	22	18	90	70.6	10.6	96	84.6	2.4	107	30.6	25.4	94		
ST. MATTHEWS		ALL-IN ONE										100 PERCENT													
SM	33	7.1	26	107	35	2052	6.0	4.6	110	100	105	25	18	50	100	71.8	12.0	102	82.4	2.9	99	27.0	26.8	107	
M	33	7.6	34	108	37	2113	6.4	4.7	100	90	95	26	22	100	70.8	11.8	100	83.6	2.9	102	28.5	26.5	103		
SLM	34	6.9	43	103	35	2008	6.4	4.8	100	90	95	30	26	100	70.0	11.0	96	84.2	2.8	104	29.6	25.5	97		
SUMMERTON		DIXIE KING										80 PERCENT													
M	34	6.2	23	101	34	1961	5.7	4.4	110	100	105	17	18	44	90	71.7	11.7	101	83.1	2.5	103	27.3	26.3	105	
SLM	33	7.7	39	105	36	2055	5.8	4.6	100	90	95	36	26	80	67.6	11.4	92	83.2	2.7	102	28.6	25.9	100		
SLM	34	8.4	37	96	32	1856	5.9	4.2	100	90	95	31	25	80	69.3	10.5	92	83.1	2.8	102	29.8	25.2	95		
YORK		COKER 100										100 PERCENT													
M	34	7.2	27	118	42	2348	6.4	5.2	110	100	105	22	16	60	100	70.3	12.4	101	82.0	2.9	98	25.6	27.0	111	
M	35	7.2	28	111	38	2171	6.5	4.7	100	90	95	20	16	100	71.2	11.6	100	82.6	2.8	100	27.0	26.6	106		
M	34	7.1	20	105	33	1980	5.8	4.2	120	110	115	14	11	110	72.9	11.2	102	83.8	2.6	104	27.5	26.8	106		

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph		Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer			Color of raw stock				Color of cleaned lint	
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge			Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite		Reflect- ance	Yellow- ness	
Grade	Staple	<u>3rd in.</u>	<u>In.</u>	<u>Pct.</u>	<u>Rdg.</u>	<u>Mpsi</u>	<u>G/tex</u>	<u>G/tex</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Ra</u>	<u>+b</u>	<u>Index</u>	<u>Code</u>	<u>Ra</u>	<u>+b</u>
TENNESSEE																	
BROWNSVILLE		DPL SM. LEAF				95 PERCENT											
M	34	1.07	44	4.3	82	40.5	22.7	6.3	1.1	2.0	75.5	8.8	100	552	77.0	9.0	
M	34	1.01	43	4.2	78	38.5	20.8	6.6	1.2	2.8	75.7	8.9	100	552	75.0	8.8	
M	34	1.05	44	4.7	74	36.8	18.0	6.9	.9	2.1	76.0	8.4	100	552	76.0	8.4	
COVINGTON		MIXED-MAINLY FOX 4															
M	34	1.08	44	4.3	84	41.5	21.2	6.1	.8	1.5	75.0	9.1	99	552	77.4	9.3	
SLM	34	1.05	44	4.3	84	41.4	19.9	5.9	1.5	2.5	70.8	9.0	92	653	72.0	9.2	
SLM	33	1.00	42	3.8	82	40.4	19.0	6.2	1.5	2.8	70.9	8.8	92	653	73.1	9.0	
FORT PILLOW		DPL 15				95 PERCENT											
M	34	1.03	43	4.2	82	40.7	21.4	6.1	1.4	2.5	74.2	9.4	99	553	75.7	9.6	
M LT SP	34	1.08	43	4.2	83	41.0	19.7	6.2	2.6	3.6	73.7	9.4	98	553	75.5	9.6	
LAWRENCEBURG		EMPIRE				90 PERCENT											
M	34	1.02	43	3.8	85	42.0	21.3	5.9	1.0	2.0	77.5	8.9	102	502	78.0	8.9	
M	34	1.02	44	3.9	89	44.3	20.5	5.4	1.0	1.3	77.3	8.6	102	502	78.5	8.6	
M	33	.99	45	4.2	78	38.5	18.3	6.6	1.0	1.8	77.5	8.7	102	502	77.8	8.8	
LEXINGTON		DIXIE KING				90 PERCENT											
M	34	1.02	44	4.2	86	42.4	20.7	5.3	.7	1.8	75.0	9.4	99	503	75.3	9.5	
M	33	.98	44	4.4	83	41.0	19.4	5.1	1.0	1.3	75.8	8.8	100	552	76.5	9.1	
M	33	1.00	43	4.6	82	40.5	19.5	5.9	1.2	1.5	76.5	8.4	101	552	77.2	8.5	
LEXINGTON		REX				95 PERCENT											
M	34	1.03	44	4.2	85	42.2	20.9	5.8	.8	1.8	75.3	9.2	100	503	77.7	9.4	
M	33	.99	44	4.4	86	42.7	19.6	6.0	.6	1.6	76.0	8.8	100	502	76.5	9.0	
SLM	31	.96	44	4.6	77	38.2	17.6	6.3	1.6	2.7	74.7	8.6	98	552	76.5	9.2	
TIPTONVILLE		DPL SM. LEAF				100 PERCENT											
M	34	1.10	44	4.8	79	38.9	23.0	7.0	.7	1.5	74.5	9.2	98	553	75.2	9.1	
SLM	34	1.07	42	4.5	79	39.2	20.7	8.0	1.5	2.4	73.3	8.2	96	602	74.8	8.5	
M	34	1.07	43	4.3	77	38.1	20.9	7.5	.8	2.5	76.0	8.2	100	552	77.5	8.2	
TRENTON		EMPIRE				70 PERCENT											
M	34	1.07	45	4.0	84	41.4	22.3	6.2	1.6	2.4	75.0	9.2	100	503	77.0	9.1	
SLM	34	1.03	44	4.0	86	42.8	20.6	5.1	1.7	2.4	75.5	8.4	99	552	76.0	8.4	
TEXAS																	
BATESVILLE		DPL SM. LEAF				70 PERCENT											
M	34	1.10	44	4.4	82	40.6	23.3	7.0	.8	1.4	76.3	9.2	101	502	78.9	9.0	
M	34	1.07	44	4.5	84	41.6	23.4	6.2	.8	2.0	75.8	9.0	100	502	79.1	9.2	
SLM	34	1.05	44	4.1	80	39.6	22.7	6.2	1.3	2.7	71.4	8.1	92	652	77.3	8.5	
BROWNSVILLE		DPL				70 PERCENT											
M	33	1.01	45	4.4	83	41.1	22.0	6.1	.7	1.3	78.1	8.9	103	452	80.1	8.6	
M	33	1.00	47	4.9	74	36.6	21.1	6.9	1.0	2.0	77.0	8.7	101	502	78.3	8.9	
SLM	33	1.00	44	4.3	78	38.6	19.8	5.9	1.9	2.7	76.1	8.4	100	552	78.0	8.2	
BRYAN		MIXED-MAINLY DPL 15															
M LT SP	32	.99	43	4.0	85	42.1	21.7	5.5	1.2	2.1	74.4	9.8	99	503	77.8	9.7	
LM	33	1.02	45	4.4	80	39.6	20.0	5.5	2.5	3.4	67.1	8.2	85	703	71.3	8.2	
LM LT SP	32	1.00	43	4.4	82	40.6	20.0	5.0	2.1	3.4	65.2	8.7	82	753	68.3	8.6	

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																						
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imperfections		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s blechd. yarn			Color 22s dyed yarn		
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr.	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			Rflect-ance	Yellow-ness	Com-posite	Rflect-ance	Yellow-ness	Com-posite	Rflect-ance	Blue-ness	Com-posite
Grade	Staple	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index
TENNESSEE																								
BROWNSVILLE		DPL SM+ LEAF					95 PERCENT																	
M	34	8.4	38	104	35	2019	6.3	4.2	110	100	105	33	24	53	90	70.8	11.4	99	83.8	2.9	103	27.4	27.1	108
M	34	8.0	30	99	30	1839	5.9	3.9	110	90	100	38	31		80	70.2	12.0	100	83.4	2.6	103	28.2	26.3	103
M	34	6.9	31	92	29	1737	5.6	4.3	100	100	100	23	20		90	71.4	11.1	99	84.0	2.7	104	28.0	26.6	104
COVINGTON		MIXED-MAINLY FOX 4																						
M	34	7.1	29	113	40	2243	6.2	5.0	100	100	100	35	28	56	80	70.4	12.3	101	83.6	2.9	102	26.7	26.6	107
SLM	34	8.7	31	97	31	1842	5.3	3.8	100	100	100	34	26		80	67.1	11.4	91	82.0	3.1	98	27.8	26.7	105
SLM	33	7.7	36	86	25	1439	5.3	3.9	110	80	95	32	21		90	68.1	11.4	93	83.7	3.2	101	30.3	24.6	92
FORT PILLOW		DPL 15					95 PERCENT																	
M	34	7.9	34	105	37	2080	6.2	4.7	100	90	95	37	31	56	90	70.2	12.5	102	82.9	2.6	102	27.4	26.6	106
M LT SP	34	8.9	42	99	33	1914	5.4	4.2	100	90	95	44	36		80	70.0	12.4	101	83.3	3.1	101	28.2	26.1	102
LAWRENCEBURG		EMPIRE					90 PERCENT																	
M	34	8.9	32	111	37	2146	6.2	4.6	100	90	95	31	26	53	80	72.1	12.0	103	83.1	3.2	100	28.3	26.5	103
M	34	8.2	27	99	33	1810	5.5	4.1	100	70	85	29	19		100	72.4	11.4	102	83.7	2.9	102	29.2	26.2	100
M	33	6.4	18	93	28	1723	5.6	4.1	110	100	105	20	17		100	73.4	11.4	103	85.3	2.8	107	27.9	26.8	105
LEXINGTON		DIXIE KING					90 PERCENT																	
M	34	7.6	33	100	33	1925	5.1	3.9	110	90	100	23	23	47	110	69.6	12.2	99	81.3	3.1	96	28.4	25.7	100
M	33	8.2	29	94	28	1591	5.3	3.9	100	70	85	26	17		100	70.3	11.4	98	80.9	3.0	96	28.5	26.3	102
M	33	6.4	21	90	26	1694	5.3	3.9	110	80	95	18	12		100	72.0	11.1	100	82.6	2.8	100	29.2	25.1	96
LEXINGTON		REX					95 PERCENT																	
M	34	6.4	32	102	33	1947	5.8	4.3	100	100	100	23	21	48	100	71.1	12.0	101	82.6	3.1	99	26.8	26.7	107
M	33	7.6	32	89	27	1528	5.3	3.8	110	80	95	20	13		120	71.8	11.8	102	83.3	2.9	102	29.0	26.3	101
SLM	31	7.2	25	77	23	1350	5.2	3.8	110	80	95	22	15		100	70.9	11.7	100	84.7	3.0	104	29.7	26.0	99
TIPTONVILLE		DPL SM+ LEAF					100 PERCENT																	
M	34	7.5	27	103	35	2008	6.1	4.7	110	90	100	24	22	51	90	69.3	11.8	97	82.5	2.3	102	25.8	27.2	111
SLM	34	8.7	39	105	35	2030	6.2	4.9	100	90	95	36	32		90	68.9	10.9	93	83.3	2.3	104	26.1	27.1	110
M	34	8.4	42	99	34	1939	6.3	4.7	100	90	95	25	22		100	72.2	10.7	99	85.3	2.4	108	27.6	26.5	105
TRENTON		EMPIRE					70 PERCENT																	
M	34	8.6	42	109	38	2149	5.5	4.4	110	100	105	31	24	60	90	70.5	12.3	102	83.2	3.1	100	28.7	26.0	101
SLM	34	8.3	42	97	31	1842	5.2	3.6	100	90	95	42	30		90	70.6	11.4	98	83.4	2.5	104	28.7	26.1	101
TEXAS																								
BATESVILLE		DPL SM+ LEAF					70 PERCENT																	
M	34	6.2	41	109	39	2174	6.5	5.2	110	90	100	27	19	59	100	72.1	12.0	103	82.7	2.8	100	27.6	26.6	105
M	34	7.1	33	105	37	2080	6.1	5.0	110	90	100	28	18		90	72.4	12.0	104	84.1	2.9	103	27.2	26.8	107
SLM	34	8.0	49	100	36	2000	6.2	4.8	100	90	95	40	30		80	69.0	11.5	96	82.5	3.0	99	27.9	26.0	102
BROWNSVILLE		DPL					70 PERCENT																	
M	33	7.2	30	97	33	1892	5.6	4.4	110	90	100	23	21	48	100	73.2	11.4	103	84.3	2.6	105	25.6	27.2	111
M	33	6.8	25	96	32	1856	6.2	5.0	110	90	100	25	16		90	72.7	11.6	102	82.9	2.9	100	25.3	27.6	114
SLM	33	9.0	41	93	30	1773	5.8	4.7	100	90	95	36	27		80	72.2	11.2	100	82.8	2.6	102	27.8	26.2	103
BRYAN		MIXED-MAINLY DPL 15																						
M LT SP	32	10.0	43	96	32	1856	5.6	4.2	110	90	100	31	21	48	100	70.0	13.5	105	83.3	3.0	101	27.0	26.9	108
LM	33	9.1	29	94	32	1834	5.5	4.3	120	100	110	26	21		80	64.6	10.8	84	83.1	3.1	100	29.6	25.8	98
LM LT SP	32	8.6	19	90	29	1715	5.1	4.1	120	100	110	23	18		80	61.6	10.8	79	82.1	2.8	99	31.0	24.9	92

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results																
		Digital Fibrograph			Micro- wire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer			Color of raw stock		Color of cleaned lint			
		2.5% span length	50/2.5 unif.	Rdg.		Zero gauge	1/8" gauge	Visible waste		Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness			
					Grade				Staple							Mpsi	G/tex	G/tex
TEXAS CONTINUED		32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	R <sub>a</sub>	+b	Index	Code	R <sub>a</sub>	+b	
CORPUS CHRISTI																		
DELLOS 9169						90 PERCENT												
M	33	1.04	45	4.0	79	39.1	22.6	6.2	1.2	2.0	75.4	8.9	100	552	78.1	8.9		
M	33	1.02	43	4.0	83	41.1	21.0	5.4	1.1	1.8	76.0	9.0	100	502	77.1	8.7		
M	33	1.03	41	4.0	86	42.6	21.1	4.9	1.4	2.4	74.4	8.8	98	552	76.3	9.0		
GANADO						80 PERCENT												
DPL 15																		
SLM	34	1.08	46	4.3	82	40.6	22.0	5.8	2.8	3.0	74.1	9.0	98	552	78.1	9.0		
M	34	1.08	46	4.7	82	40.6	22.3	6.7	1.1	1.5	75.0	9.1	100	552	77.1	9.4		
SLM	32	1.01	43	4.0	90	44.6	22.1	5.1	2.4	3.4	70.1	8.5	91	653	72.9	8.9		
HARLINGEN						95 PERCENT												
STONEVILLE																		
M	33	1.04	46	4.4	83	41.1	22.8	6.1	1.5	1.9	77.0	9.0	102	502	78.4	9.3		
M	33	1.03	47	4.6	80	39.6	23.0	6.4	1.3	2.2	76.3	9.0	101	502	78.7	9.2		
M	33	1.04	45	4.0	78	38.6	20.6	5.6	1.5	2.3	74.4	8.9	98	552	76.0	9.0		
LA VILLA						93 PERCENT												
STONEVILLE																		
SLM	33	1.03	46	4.6	74	36.6	20.9	6.6	1.1	1.6	73.1	9.8	97	553	75.8	9.5		
SLM	34	1.09	47	4.6	77	38.1	20.8	6.4	1.0	2.0	73.3	9.4	97	553	76.0	9.3		
SM LT GR	33	1.04	46	4.2	80	39.6	20.5	5.8	.7	1.6	72.7	8.9	95	603	75.3	8.8		
NAVASOTA						94 PERCENT												
DPL SM+ LEAF																		
M LT SP	34	1.07	44	4.4	86	42.6	23.1	6.8	1.0	1.6	71.1	10.2	94	554	75.8	10.0		
LM	35	1.06	44	4.8	88	43.6	21.3	4.2	2.1	3.2	68.1	8.4	87	703	72.6	8.6		
SLM	34	1.05	43	4.2	86	42.6	22.7	5.9	1.7	3.2	70.9	8.2	92	652	75.1	8.4		
PARIS						98 PERCENT												
REX																		
SLM	34	1.05	45	4.0	88	43.6	21.4	4.5	3.3	4.9	73.1	9.2	96	553	76.6	9.6		
LM	33	1.04	42	3.8	87	43.1	20.4	4.5	3.7	4.9	68.8	8.2	88	703	74.9	9.0		
LM	33	1.04	43	4.2	84	41.6	20.9	4.9	3.5	5.1	68.3	8.1	87	702	73.7	9.4		
PHARR						70 PERCENT												
DPL																		
M	33	1.01	45	4.3	79	39.1	21.6	6.7	1.0	1.4	77.6	9.1	103	452	79.9	9.2		
SLM	33	1.03	47	4.2	77	38.1	22.6	6.7	2.0	3.0	74.9	8.8	99	552	78.0	8.9		
SLM	33	1.03	45	4.1	78	38.6	21.0	5.9	1.9	2.8	73.5	8.8	97	602	77.8	8.9		
QUEEN CITY						95 PERCENT												
DPL																		
M	34	1.05	47	5.0	80	39.6	21.9	6.0	.6	1.2	73.9	9.2	98	553	77.0	9.6		
M	34	1.06	45	4.6	84	41.6	21.8	5.8	.6	1.5	74.7	8.9	99	552	76.8	8.9		
M	34	1.06	45	4.8	81	40.1	21.5	6.3	.8	2.0	74.4	8.6	98	552	76.9	8.8		
ROBSTOWN						MIXED-MAINLY STONEVILLE 7												
M	32	1.01	47	4.8	79	39.1	22.5	5.9	1.5	2.4	75.4	9.5	100	503	78.9	9.4		
SM	32	1.03	44	4.2	80	39.6	21.6	5.4	1.1	1.8	76.2	9.3	101	502	77.3	9.3		
M	32	.99	44	4.2	85	42.1	20.1	5.3	1.5	2.5	75.1	9.3	100	503	77.1	9.4		



Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962.--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																						
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn isprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s blchd. yarn			Color 22s dyed yarn		
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			No.	No.	Rflect-ance	Yellow-ness	Com-positn	Rflect-ance	Yellow-ness	Com-positn	Rflect-ance
Grade	Staple	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Ra	+b	Index	Ra	+b	Index	Ra	-b	Index
TEXAS---CONTINUED																								
CORPUS CHRISTI		DELFOF 9169											90 PERCENT											
M	33	8.8	34	98	33	1903	6.0	4.8	100	90	95	28	22	51	90	70.4	12.0	100	82.4	3.2	98	26.2	26.7	108
M	33	8.3	39	97	32	1867	5.9	4.4	100	90	95	30	21	100	69.4	12.0	98	83.0	3.1	100	27.3	25.9	103	
M	33	8.7	44	90	28	1690	5.4	3.7	90	80	85	41	36	90	68.4	12.0	96	81.9	2.8	99	27.6	26.6	105	
GANADO		DPL 15											80 PERCENT											
SLM	34	9.5	24	104	37	2069	6.3	4.9	110	100	105	30	22	59	80	70.3	12.3	101	83.5	2.8	102	25.7	26.9	110
M	34	7.5	17	102	35	1997	6.3	4.8	110	100	105	21	14	90	70.9	12.2	102	82.6	2.5	101	25.7	27.5	113	
SLM	32	9.3	34	96	31	1831	5.6	4.0	100	90	95	31	26	100	65.8	11.6	89	82.9	2.9	101	27.6	26.4	104	
HARLINGEN		STONEVILLE											95 PERCENT											
M	33	7.5	13	105	37	2080	6.3	4.6	110	100	105	18	11	58	100	71.9	11.9	102	83.3	2.7	102	26.7	26.5	107
M	33	7.0	10	106	38	2116	6.4	5.1	120	110	115	15	9	100	73.0	12.1	105	82.8	2.6	102	27.0	26.5	106	
M	33	8.2	31	100	36	2000	6.3	5.2	100	100	100	31	20	90	68.9	12.5	99	83.2	2.9	101	26.9	26.2	105	
LA VILLA		STONEVILLE											93 PERCENT											
SLM	33	8.3	34	94	33	1859	5.8	4.5	110	90	100	31	26	56	90	68.4	11.8	96	83.4	2.6	103	26.2	26.5	108
SLM	34	8.0	33	100	36	2000	6.3	4.8	110	90	100	23	19	100	69.6	12.1	99	82.0	2.7	99	25.9	26.9	110	
SM LT GR	33	8.1	46	97	34	1917	6.3	4.6	100	100	100	30	20	100	68.6	11.7	96	83.2	3.1	100	26.3	26.4	107	
NAVASOTA		DPL SM+ LEAF											94 PERCENT											
M LT SP	34	6.7	30	103	36	2033	5.8	4.5	110	100	105	20	15	57	110	67.5	13.2	99	83.2	3.4	99	27.0	26.7	107
LM	35	8.6	18	97	34	1917	5.1	3.9	120	100	110	24	18	80	66.1	11.0	88	82.3	3.0	99	29.8	25.0	94	
SLM	34	8.4	23	97	33	1892	5.6	4.4	110	100	105	28	20	80	69.8	10.9	95	82.3	3.0	98	28.5	27.2	106	
PARIS		REX											98 PERCENT											
SLM	34	9.3	26	99	35	1964	5.8	4.6	100	100	100	28	19	55	100	69.7	12.5	100	83.5	3.1	101	27.2	27.0	108
LM	33	10.2	21	93	32	1823	5.4	4.2	110	100	105	34	24	80	67.7	12.0	94	83.7	2.9	102	29.4	24.8	94	
LM	33	9.2	20	90	30	1740	5.3	3.7	110	100	105	30	19	80	69.0	11.6	96	83.0	2.7	102	29.2	25.8	99	
PHARR		DPL											70 PERCENT											
M	33	7.2	19	100	34	1950	6.1	4.6	120	100	110	24	17	57	100	72.8	11.7	103	83.4	2.6	103	26.3	26.3	107
SLM	33	9.0	20	102	36	2022	6.4	5.0	110	90	100	26	19	90	71.9	11.7	102	83.6	2.8	103	26.8	26.3	106	
SLM	33	9.4	31	103	37	2058	6.7	5.0	100	90	95	30	22	90	70.9	11.8	100	82.5	3.2	98	26.0	26.5	108	
QUEEN CITY		DPL											95 PERCENT											
M	34	7.0	17	100	35	1975	5.8	4.6	120	110	115	16	14	56	100	69.6	12.1	99	83.3	3.0	101	28.4	25.8	100
M	34	7.6	18	94	31	1809	5.5	4.0	110	100	105	19	13	100	70.2	11.6	98	83.6	2.4	104	27.3	27.1	108	
M	34	6.6	20	94	31	1809	5.0	4.2	120	100	110	12	11	100	73.0	11.2	102	83.0	2.8	101	27.2	26.4	105	
ROBSTOWN		MIXED-MAINLY STONEVILLE 7																						
M	32	7.7	21	99	33	1914	6.1	4.7	110	90	100	20	13	54	110	71.1	12.7	104	81.6	2.9	98	25.6	27.1	111
SM	32	7.8	32	93	30	1773	5.9	4.1	110	100	105	23	16	110	70.8	12.2	101	82.6	2.9	100	26.4	26.7	108	
M	32	7.2	32	93	30	1773	5.4	4.2	110	100	105	26	20	90	70.1	12.7	102	81.7	3.0	97	29.1	26.6	104	

Table 6.--Cotton: Fiber test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph		Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint		
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	Visible waste		Total waste	Reflect- ance	Yellow- ness	Composite		Reflect- ance	Yellow- ness		
Grade	Staple	<u>32d in.</u>	<u>In.</u>	<u>Pct.</u>	<u>Rdg.</u>	<u>Mpsi</u>	<u>G/tex</u>	<u>G/tex</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Rg</u>	<u>+b</u>	<u>Index</u>	<u>Code</u>	<u>Rd</u>	<u>+b</u>
TEXAS CONTINUED																	
SEBASTIAN		STONEVILLE				90 PERCENT											
M	33	1.01	46	4.6	84	41.6	22.6	6.3	1.3	1.8	75.9	9.0	100	502	79.2	9.0	
M	33	.98	48	4.8	78	38.6	23.2	6.3	1.6	2.3	75.9	9.2	100	502	80.0	9.2	
M	33	1.00	47	5.0	84	41.6	21.3	5.3	1.3	1.9	77.0	9.2	102	452	78.3	9.3	
SUGARLAND		MIXED--MAINLY STONEVILLE 7															
SM	34	1.08	46	5.1	90	44.6	22.5	4.5	.7	1.2	79.9	8.6	105	401	81.3	8.5	
SLM	34	1.07	45	4.5	83	41.1	21.5	5.4	2.6	3.4	74.0	8.9	98	552	76.5	9.2	
LM	34	1.04	45	4.4	90	44.6	20.7	4.2	2.9	4.5	68.0	8.2	86	703	71.8	8.9	
TEXARKANA		DPL SM. LEAF				98 PERCENT											
M	35	1.07	45	4.4	89	44.1	22.4	5.1	1.1	1.7	73.6	9.3	97	553	76.0	9.2	
M	35	1.06	45	4.7	82	40.6	22.4	5.8	1.0	2.0	75.1	8.6	99	552	77.3	8.8	
SLM	34	1.07	45	4.6	80	39.6	20.7	6.1	1.0	1.9	72.2	8.4	94	602	74.7	8.7	
VIRGINIA EMPORIA		COKER 100				80 PERCENT											
M LT SP	34	1.07	45	4.2	78	38.8	20.4	6.9	3.4	4.2	73.9	8.6	98	602	75.0	9.0	
M LT SP	34	1.04	45	4.3	79	39.1	20.1	7.1	2.6	3.6	75.0	8.6	99	552	76.6	8.6	
M LT SP	34	1.02	45	4.2	78	38.4	20.3	6.6	3.2	3.7	74.5	8.4	98	602	75.3	8.8	

Table 6a.--Cotton: Carded yarn processing test results for medium staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																						
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s blehd.yarn			Color 22s dyed yarn		
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			22s or 26.8tex	50s or 11.8tex	Rflect-ance	Yellow-ness	Com-posite	Rflect-ance	Yellow-ness	Com-posite	Rflect-ance
Grade	Staple	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index
TEXAS---CONTINUED																								
SEBASTIAN																								
STONEVILLE		90 PERCENT																						
M	33	7.9	12	104	36	2044	5.9	4.7	120	110	115	18	12	54	100	70.7	11.6	99	83.1	2.8	101	27.0	26.6	106
M	33	7.8	20	100	34	1950	6.1	4.8	120	110	115	17	14		100	71.6	12.2	103	81.6	2.6	99	26.9	26.7	107
M	33	6.6	16	98	31	1853	6.0	4.3	120	100	110	18	14		100	72.3	12.2	104	82.6	2.4	102	27.6	26.6	105
SUGARLAND		MIXED-MAINLY STONEVILLE 7																						
SM	34	6.8	14	112	40	2232	5.9	4.7	120	110	115	12	9	62	100	74.4	11.8	106	82.8	2.5	102	25.2	27.7	114
SLM	34	7.4	18	103	36	2033	6.0	4.6	120	110	115	19	13		100	69.5	12.0	98	83.1	2.6	102	28.3	26.2	102
LM	34	9.3	23	98	34	1938	5.3	4.1	110	100	105	26	16		90	65.6	11.6	89	82.2	2.9	99	28.3	26.2	102
TEXARKANA		DPL SM. LEAF																						
		98 PERCENT																						
M	35	6.6	26	108	38	2138	6.0	4.5	120	100	110	17	14	61	90	69.2	12.1	98	83.4	3.2	101	27.9	26.1	102
M	35	6.0	12	99	34	1939	5.6	4.5	120	110	115	13	11		100	72.0	11.5	101	82.4	2.6	100	28.0	27.6	108
SLM	34	6.4	15	96	33	1881	5.1	4.2	120	100	110	14	11		100	69.0	11.0	93	81.6	2.9	97	27.7	25.9	102
VIRGINIA																								
EMPORIA		COKER 100																						
		80 PERCENT																						
M	LT SP 34	8.9	13	111	38	2171	6.5	4.9	110	100	105	34	21	59	80	70.2	11.6	98	82.5	3.0	99	27.5	26.4	104
M	LT SP 34	7.0	14	104	34	1994	6.2	4.7	110	100	105	27	20		90	71.8	11.7	102	85.0	2.6	107	27.2	26.6	106
M	LT SP 34	7.6	8	95	30	1795	5.8	4.2	110	100	105	21	16		90	70.0	10.9	96	82.5	2.7	100	27.8	26.7	105

Table 7.--Cotton: Fiber test results for long staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results														
		Digital Fibrograph			Micro-naire	Fiber strength			Elongation 1/8"	Shirley Analyzer		Color of raw stock			Color of cleaned lint	
		Grade	Staple	2.5% span length		50/2.5 unif.	Zero gauge	1/8" gauge		Pct.	Visible waste	Total waste	Reflectance	Yellowness	Composite	
32d in.	In.			Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.		Pct.	Pct.	Rq	+b	Index	Code
ARIZONA		ACALA 1517 C 75 PERCENT														
DUNCAN		ACALA 1517 C 75 PERCENT														
M	37	1.17	46	4.4	82	40.4	25.1	7.1	1.2	1.9	77.8	8.2	102	501	78.8	8.2
M	37	1.19	45	3.6	87	43.2	26.0	6.5	1.4	2.2	79.0	7.8	103	501	80.2	8.0
M	36	1.16	41	2.8	89	43.9	26.1	6.5	1.7	2.2	80.5	7.6	105	501	80.5	7.6
SAFFORD		ACALA 1517 D 92 PERCENT														
SLM		ACALA 1517 D 92 PERCENT														
SLM	37	1.16	44	4.0	92	45.6	26.9	6.2	1.4	1.9	73.8	8.6	96	602	76.0	8.6
SLM	37	1.18	44	4.0	92	45.6	27.6	6.4	1.3	2.3	74.3	8.2	98	602	77.6	8.2
SLM	36	1.13	43	3.2	91	45.1	26.8	6.1	1.4	2.3	78.0	7.1	101	551	79.2	7.7
NEVADA		MIXED ACALA 1517 C + D														
PAHRUMP		MIXED ACALA 1517 C + D														
M	38	1.19	45	4.0	86	42.7	25.9	6.6	1.7	2.4	78.2	8.3	103	501	78.8	8.3
M	37	1.16	44	3.6	89	43.9	24.4	6.0	1.7	2.4	79.5	8.2	104	451	80.2	8.5
M	37	1.16	43	3.6	91	45.1	25.1	6.1	1.3	2.2	80.0	8.0	104	451	80.0	8.1
SM	37	1.16	43	3.8	93	46.1	25.6	5.9	1.5	2.0	81.0	8.1	106	401	80.0	8.2
NEW MEXICO		ACALA 1517 C 69 PERCENT														
ARTESIA		ACALA 1517 C 69 PERCENT														
M	37	1.18	44	4.1	85	42.1	25.9	6.6	1.3	1.9	76.1	8.4	100	552	78.0	8.4
M	37	1.16	45	3.8	83	41.1	24.2	6.5	1.3	1.7	77.0	8.3	101	552	78.0	8.6
SLM	36	1.13	42	3.1	84	41.6	25.0	6.0	2.5	3.3	77.2	8.1	101	551	78.2	8.3
HATCH		ACALA 1517 D 95 PERCENT														
SLM		ACALA 1517 D 95 PERCENT														
SLM	37	1.17	45	4.0	83	41.1	25.3	7.5	1.2	1.5	76.3	8.0	100	552	77.7	8.2
SLM	37	1.18	45	3.6	85	41.9	25.9	7.5	1.8	2.7	76.3	7.7	100	601	77.5	8.1
SLM	37	1.17	44	3.8	88	43.8	24.8	6.3	1.8	2.3	76.1	7.7	99	601	79.2	8.0
SLM	36	1.16	43	3.1	86	42.7	25.4	5.9	2.8	3.7	76.8	7.5	100	601	79.0	8.7
MESILLA PARK		ACALA 1517 C 60 PERCENT														
SLM		ACALA 1517 C 60 PERCENT														
SLM	37	1.18	46	3.8	83	41.1	25.5	7.0	2.0	2.5	74.7	8.3	98	602	76.0	8.4
SLM	36	1.16	45	3.6	94	46.5	26.5	7.4	1.6	2.2	75.8	7.8	99	601	77.5	8.0
SLM	36	1.16	42	3.0	82	40.6	24.8	6.5	2.2	3.2	76.7	8.0	100	551	78.7	7.8
ROSWELL		ACALA 1517 D 85 PERCENT														
M		ACALA 1517 D 85 PERCENT														
M	37	1.17	44	4.0	87	42.9	25.5	6.9	1.2	1.5	76.2	8.6	100	552	77.5	8.8
M	37	1.18	44	3.9	87	43.2	26.1	6.9	1.4	1.9	77.0	8.4	101	552	77.0	8.7
M	37	1.19	46	3.4	88	43.7	25.8	6.2	1.3	2.1	78.2	8.4	102	501	77.8	8.6
TEXAS		ACALA 1517 D 60 PERCENT														
CANUTILLO		ACALA 1517 D 60 PERCENT														
SLM	37	1.17	45	4.0	87	43.0	25.3	6.2	1.1	2.0	74.0	8.2	97	602	76.0	8.7
SLM	36	1.16	41	3.2	88	43.6	24.8	6.1	1.7	2.3	76.5	7.8	100	551	77.2	7.9
SLM	35	1.16	42	3.2	88	43.6	25.7	6.3	2.1	3.0	76.0	7.9	99	601	76.0	8.6
MUNDAY		MIXED MOSTLY ACALA 1517 B														
M LT SP		MIXED MOSTLY ACALA 1517 B														
M LT SP	36	1.15	43	4.2	91	45.0	25.7	5.9	1.3	2.2	71.0	9.3	92	603	71.5	9.6
SLM LT SP	36	1.15	43	4.4	82	40.8	25.1	5.0	2.3	2.9	70.5	9.2	92	603	73.0	9.7
SLM LT SP	36	1.14	44	3.8	84	41.4	24.3	6.5	1.4	2.2	70.5	8.7	91	653	72.0	9.0

Table 7a.--Cotton: Carded yarn processing test results for long staple varieties, by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																							
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imperfections		Spin. poten- tial	Trash in fabric	Color-22s grey yarn			Color 22s blechd. yarn			Color 22s dyed yarn			
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			22s or 26.8tex	50s or 11.8tex	Rflect- ance	Yellow- ness	Com- posite	Rflect- ance	Yellow- ness	Com- posite	Rflect- ance	blue- ness
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Ra	+b	Index	Ra	+b	Index	Ra	-b	Index
ARIZONA DUNCAN		ACALA 1517 C 75 PERCENT																							
M	37	6.2	24	139	53	2854	6.4	5.3	100	90	95	34	22	77	90	72.9	11.2	102	84.4	2.5	106	27.5	26.6	105	
M	37	7.4	35	144	53	2909	6.6	5.7	100	90	95	40	29	90	74.4	10.8	103	85.0	2.2	108	27.5	26.4	104		
M	36	7.5	22	148	56	3028	7.0	5.9	90	90	90	49	38	90	74.3	10.9	103	84.7	2.9	105	28.1	25.6	100		
SAFFORD		ACALA 1517 D 92 PERCENT																							
SLM	37	6.8	19	138	53	2843	6.1	5.0	110	90	100	29	19	70	90	70.7	11.1	97	82.2	2.8	97	28.1	26.2	102	
SLM	37	7.9	41	143	52	2873	6.4	5.1	100	90	95	27	21	90	70.8	11.2	98	84.6	2.4	109	28.1	26.0	102		
SLM	36	7.2	57	139	50	2779	5.8	4.9	90	80	85	47	35	90	73.7	10.4	100	83.2	3.0	101	29.7	25.1	95		
NEVADA PAHRUMP		MIXED-ACALA 1517 C + D																							
M	38	8.0	24	144	54	2934	6.8	5.5	100	90	95	33	26	82	90	72.6	11.7	103	83.5	2.7	103	26.3	26.9	109	
M	37	7.5	28	136	51	2771	6.6	5.4	100	90	95	22	18	100	74.4	11.6	105	84.8	2.6	106	27.4	26.6	106		
M	37	7.0	12	136	49	2721	6.6	5.2	110	100	105	21	15	100	73.8	10.8	102	84.1	2.5	105	27.7	26.1	103		
SM	37	6.4	9	144	52	2884	6.4	4.9	120	110	115	14	9	77	100	74.6	10.6	103	83.5	2.6	103	27.0	26.4	106	
NEW MEXICO ARTESIA		ACALA 1517 C 69 PERCENT																							
M	37	6.0	16	144	53	2909	6.7	5.5	110	100	105	24	18	84	90	70.9	11.2	98	83.6	2.9	102	26.6	26.4	106	
M	37	7.4	24	128	45	2533	6.6	5.2	100	100	100	28	22	90	71.9	11.3	100	84.5	2.5	106	28.1	25.8	101		
SLM	36	9.9	59	131	49	2666	7.0	6.6	80	70	75	53	40	80	70.1	11.7	99	83.3	2.8	102	28.2	25.2	98		
HATCH		ACALA 1517 D 95 PERCENT																							
SLM	37	6.7	18	138	53	2843	6.8	5.7	100	90	95	46	28	80	80	71.1	11.1	98	84.1	2.9	103	26.8	26.3	106	
SLM	37	7.7	32	141	53	2876	6.8	5.5	100	90	95	38	32	80	72.1	11.1	100	84.6	2.6	105	27.4	25.3	100		
SLM	37	9.3	43	138	51	2793	6.8	5.6	100	90	95	29	22	80	72.2	11.1	100	84.3	2.5	106	27.6	26.4	104		
SLM	36	8.7	46	139	51	2804	6.2	5.4	90	80	85	63	47	84	80	72.0	11.2	100	83.7	3.1	102	27.4	25.7	102	
MESILLA PARK		ACALA 1517 C 60 PERCENT																							
SLM	37	7.1	20	138	52	2818	6.7	5.5	100	90	95	41	26	81	80	70.4	11.2	97	84.5	2.9	104	27.4	26.2	104	
SLM	36	7.5	39	143	53	2898	6.9	5.4	100	90	95	50	31	80	71.8	11.3	100	85.1	2.6	107	28.3	25.2	98		
SLM	36	8.4	17	137	50	2757	6.8	5.6	90	90	90	56	36	80	71.1	11.2	99	83.2	2.8	102	28.2	25.5	100		
ROSWELL		ACALA 1517 D 85 PERCENT																							
M	37	6.2	18	143	53	2898	6.5	5.4	110	90	100	34	28	76	80	70.6	11.3	98	83.0	2.8	101	27.2	26.3	105	
M	37	7.1	35	140	51	2815	6.8	5.4	100	90	95	36	27	80	72.0	11.6	102	82.9	2.8	101	26.9	26.4	106		
M	37	8.7	57	144	53	2909	6.9	5.7	90	80	85	42	33	90	70.6	12.0	100	84.1	2.8	104	26.5	26.1	105		
TEXAS CANUTILLO		ACALA 1517 D 60 PERCENT																							
SLM	37	6.5	22	131	49	2666	6.5	5.0	100	90	95	31	22	67	80	68.3	10.9	92	83.4	2.7	103	27.3	26.3	104	
SLM	36	10.3	47	134	49	2699	6.6	5.1	100	90	95	38	30	80	71.6	11.1	99	83.2	2.7	102	28.2	25.7	100		
SLM	35	8.0	14	135	52	2785	7.0	5.6	100	90	95	40	28	80	69.3	11.0	94	82.5	2.6	101	28.8	25.2	97		
MUNDAY		MIXED-MOSTLY ACALA 1517 BR																							
M LT SP	36	8.4	30	139	51	2804	6.1	4.9	100	90	95	33	24	74	90	65.6	12.0	89	82.5	3.4	98	28.5	25.2	98	
SLM LT SP	36	8.4	16	109	38	2149	6.0	4.5	110	100	105	26	18	80	65.5	11.9	89	83.3	3.2	101	29.0	25.4	98		
SLM LT SP	36	7.7	9	125	45	2500	6.2	4.9	100	100	100	25	19	90	64.3	11.1	85	81.3	3.7	94	28.8	24.7	95		

Table 7.--Cotton: Fiber test results for long staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results															
		Digital Fibrograph		Micro- naire	Fiber strength			Elong- ation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint		
		2.5% span length	50/2.5 unif.		Zero gauge	1/8" gauge	Visible waste		Total waste	Reflect- ance	Yellow- ness	Composite		Reflect- ance	Yellow- ness		
Grade	Staple	<u>32d in.</u>	<u>In.</u>	<u>Pct.</u>	<u>Rdg.</u>	<u>Mpsi</u>	<u>G/tex</u>	<u>G/tex</u>	<u>Pct</u>	<u>Pct.</u>	<u>Pct.</u>	<u>Rd</u>	<u>tb</u>	<u>Index</u>	<u>Code</u>	<u>Rd</u>	<u>tb</u>
TEXAS CONTINUED																	
PECOS		ACALA 1517 C				70 PERCENT											
M	LT SP	36	1.15	45	4.2	94	46.6	26.4	6.2	2.0	3.0	73.5	9.4	97	553	73.5	9.8
SLM		37	1.17	44	4.2	89	44.2	25.2	6.2	2.3	3.2	71.7	8.6	94	603	74.3	8.9
M		37	1.17	43	3.6	85	42.1	23.9	6.4	1.2	1.6	78.3	8.1	102	501	79.3	8.2
STANTON		MIXED MAINLY ACALA 1517 B															
M	LT SP	34	1.13	44	4.4	90	44.5	25.3	4.6	1.2	2.5	73.8	9.4	98	553	74.8	9.8
SLM		36	1.15	45	3.8	96	47.6	26.9	5.0	1.5	3.0	74.0	8.0	97	602	76.0	8.2
TORNILLO		ACALA 1517 C															
85 PERCENT																	
SLM		37	1.19	44	4.0	82	40.6	24.5	6.3	1.7	2.6	75.7	8.8	100	552	77.0	8.8
SLM		37	1.17	43	3.8	88	43.5	25.3	6.7	1.2	2.0	75.5	8.4	99	552	78.5	8.3
SLM		36	1.16	42	3.2	87	42.9	24.8	5.9	1.9	2.9	76.8	7.6	100	601	76.8	8.1

Table 7a.--Cotton: Carded yarn processing test results for long staple varieties, by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area, Chronological sampling, and Classification		Predominant variety, percentage of variety at gin, and carded yarn processing results																							
		Picker & card waste	Neps in card web	Yarn skein strength			Yarn elongation		Yarn appearance			Yarn imprfctns.		Spin. potential	Trash in fabric	Color-22s grey yarn			Color 22s bichd.yarn			Color 22s dyed yarn			
				22s or 26.8tex	50s or 11.8tex	Average brk.fctr	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	Average	22s or 26.8tex	50s or 11.8tex			No.	No.	No.	Rflect-ance	Yellow-ness	Com-posite	Rflect-ance	Yellow-ness	Com-posite	Rflect-ance
Grade	Staple	32d in.	Pct.	No.	Lbs.	Lbs.	No.	Pct.	Pct.	Index	Index	Index	No.	No.	No.	Index	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index
TEXAS-----CONTINUED																									
					ACALA 1517 C			70 PERCENT																	
M	LT SP	36	7.6	24	128	47	2583	6.0	4.9	100	90	95	40	29	68	70	67.9	12.0	95	82.7	3.2	99	26.9	26.2	105
SLM		37	7.8	35	133	48	2663	6.1	4.8	100	90	95	30	21		90	66.8	11.6	91	83.0	3.0	100	28.3	25.6	100
M		37	6.8	35	136	51	2771	6.7	5.6	100	90	95	24	20		90	72.5	11.6	103	83.2	2.6	102	26.0	26.5	108
					MIXED-MAINLY ACALA 1517 BR																				
M	LT SP	34	7.4	21	129	44	2519	5.4	4.1	100	100	100	31	21	64	80	68.6	11.9	96	82.0	3.2	97	26.7	26.2	105
SLM		36	8.7	27	133	48	2663	6.6	5.6	100	100	100	28	21		90	68.8	11.1	94	81.0	3.0	96	27.4	25.8	102
					ACALA 1517 C			85 PERCENT																	
SLM		37	8.3	29	133	50	2713	6.4	5.1	100	100	100	28	21	73	80	70.0	11.9	99	83.5	3.0	102	27.6	25.8	102
SLM		37	6.9	34	135	49	2710	6.4	5.3	100	90	95	36	25		90	70.8	11.3	99	83.9	2.8	103	27.8	25.2	99
SLM		36	8.7	57	126	46	2536	5.5	4.6	80	70	75	50	40		80	70.6	11.3	98	81.7	3.1	97	27.3	25.7	102

Table 7b.--Cotton: Combed yarn processing test results for long staple varieties, by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962--Continued

State, Production Area Chronological Sampling and Classification		Comber waste	Yarn skein strength				Yarn elongation		Yarn appearance			Yarn imperfections		Trash in fabric	Luster of 50s or 11.8 tex yarn	
			22s or 26.8 tex	50s or 11.8 tex	Average brk.fctr.	50s Merc.	22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex	Average	22s or 26.8 tex	50s or 11.8 tex		Grey	Merc.
Grade	Staple		Lbs.	Lbs.	No.	Lbs.	Pct.	Pct.	Index	Index	Index	No.	No.	Index	Pct.	Pct.
Abbr.	32d in.	Pct.														
<b>ARIZONA</b>																
<u>Duncan</u>	<u>Acala 1517C</u>	<u>75%</u>														
M	37	14.7	155	59	3180	62	6.5	5.7	120	100	110	16	13	110	30.1	41.4
M	37	12.3	157	60	3227	62	7.1	5.9	100	90	95	28	23	100	30.5	40.4
M	36	16.5	169	64	3459	66	7.5	6.1	100	90	95	23	17	110	32.1	43.0
<u>Safford</u>	<u>Acala 1517D</u>	<u>92%</u>														
SIM	37	16.9	158	60	3238	65	6.4	5.2	120	100	110	16	8	100	31.4	41.6
SIM	37	12.6	156	58	3166	61	6.5	5.4	100	90	95	26	20	100	32.0	43.3
SIM	36	17.5	158	60	3238	61	6.0	5.5	100	90	95	32	35	100	31.4	43.2
<b>NEVADA</b>																
<u>Pahrump</u>	<u>Mixed Acala 1517 C &amp; D</u>															
M	38	13.6	159	61	3274	64	6.9	5.5	100	90	95	30	21	100	30.1	41.2
M	37	11.6	148	55	3003	58	7.1	5.4	100	100	100	18	13	110	29.2	42.7
M	37	14.2	151	56	3061	60	7.0	5.4	120	100	110	17	12	100	29.4	40.9
SM	37	14.6	160	60	3260	63	6.5	5.2	120	100	110	10	8	110	31.4	42.1
<b>NEW MEXICO</b>																
<u>Artesia</u>	<u>Acala 1517C</u>	<u>69%</u>														
M	37	13.5	155	60	3205	62	6.8	5.5	120	100	110	17	14	100	31.0	41.8
M	37	13.2	142	52	2862	53	6.9	5.3	110	100	105	26	19	100	29.7	42.1
SIM	36	16.1	150	56	3050	59	8.0	6.8	90	80	85	47	41	90	29.9	41.8
<u>Hatch</u>	<u>Acala 1517D</u>	<u>95%</u>														
SIM	37	14.0	154	58	3144	60	7.2	5.7	110	100	105	27	23	90	30.0	43.5
SIM	37	9.2	152	58	3122	60	7.0	5.8	100	90	95	36	25	90	30.5	42.7
SIM	37	10.5	148	56	3028	59	7.4	5.9	100	100	100	27	20	90	29.7	41.9
SIM	36	15.2	155	58	3155	60	6.6	5.9	90	90	90	47	37	90	31.6	42.2
<u>Mesilla Park</u>	<u>Acala 1517C</u>	<u>60%</u>														
SIM	37	15.2	155	57	3130	62	7.0	5.6	110	100	105	23	12	100	29.2	42.3
SIM	36	14.6	159	60	3249	61	6.9	5.6	100	90	95	28	22	90	31.1	43.1
SIM	36	17.2	160	59	3235	62	7.2	5.8	120	100	110	22	15	100	32.1	42.0
<u>Roswell</u>	<u>Acala 1517D</u>	<u>85%</u>														
M	37	14.6	154	58	3144	61	6.5	5.4	110	100	105	27	18	90	30.7	41.7
M	37	12.2	150	57	3075	59	6.7	5.9	100	90	95	30	26	100	30.6	42.6
M	37	13.2	156	60	3216	63	7.1	6.1	90	80	85	41	34	90	31.1	43.2
<b>TEXAS</b>																
<u>Canutillo</u>	<u>Acala 1517D</u>	<u>60%</u>														
SIM	37	14.4	146	55	2981	58	6.9	5.3	100	90	95	32	18	90	29.8	42.5
SIM	36	11.9	144	56	2984	57	6.7	5.9	100	90	95	38	25	80	31.2	43.4
SIM	35	17.4	159	61	3274	62	7.1	5.9	110	100	105	17	13	100	32.2	44.8
<u>Munday</u>	<u>Mixed Acala 1517ER</u>	<u>50%</u>														
Mltsp	36	15.2	155	59	3180	62	6.1	4.9	100	90	95	27	20	90	32.8	43.9
SIMltsp	36	12.7	125	46	2525	49	6.0	4.9	110	100	105	19	13	90	31.1	42.6
SIMltsp	36	17.2	147	55	2992	58	6.2	5.3	120	110	115	7	7	110	33.8	41.6
<u>Pecos</u>	<u>Acala 1517C</u>	<u>70%</u>														
Mltsp	36	15.6	147	55	2992	61	6.4	5.2	100	90	95	32	22	90	32.0	45.1
SIM	37	13.1	143	54	2923	59	6.0	4.9	110	90	100	24	19	90	32.8	44.5
M	37	14.3	152	57	3097	61	6.9	5.9	100	100	100	19	14	110	29.6	43.4
<u>Stanton</u>	<u>Mixed Acala 1517ER</u>	<u>65%</u>														
Mltsp	34	15.7	146	53	2931	58	5.6	4.5	100	100	100	27	19	90	32.8	43.4
SIM	36	15.9	149	56	3039	60	6.7	5.6	110	100	105	24	17	110	33.4	44.4
<u>Tornillo</u>	<u>Acala 1517C</u>	<u>85%</u>														
SIM	37	14.3	146	55	2981	56	6.7	5.4	110	100	105	23	18	100	31.4	42.6
SIM	37	10.0	144	55	2959	57	6.6	5.5	100	90	95	31	21	90	31.0	43.3
SIM	36	17.2	145	54	2945	56	5.9	5.3	90	90	90	48	35	100	31.8	41.2



Table 8.--Cotton: Fiber and combed yarn processing test results for extra long staple varieties by state and market area for samples of modal quality, collected at triweekly intervals, crop of 1962

State, Production Area Chronological sampling and Classification		Array length		Micro- naire	Fiber strength			Elon- gation 1/8"	Shirley Analyzer			Color of raw stock			Color cl. lint		Picker & card waste	Comber waste	Neps in card web		
		Upper quart.	Coef. var.		Zero gauge		1/8" gauge		Visible waste	Total waste	Reflect- ance	Yellow- ness	Composite	Reflect- ance	Yellow- ness	Pct.				Pct.	No.
					32d in.	In.															
<b>ARIZONA</b>																					
<u>Case Grande</u>		Pima S-2		100 Percent																	
3	46	1.37	27	4.0	97	48.0	33.5	7.2	2.6	2.9	70.5	10.5	93	554	72.0	10.6	8.2	13.8	11		
2	46	1.41	27	4.0	103	51.1	36.7	5.9	1.9	2.3	73.0	9.9	97	553	74.2	10.2	9.2	17.1	16		
2	46	1.41	29	3.8	102	50.3	33.6	6.7	1.3	1.8	72.5	10.2	96	553	73.0	10.7	7.9	15.7	8		
3	46	1.42	27	3.8	100	49.4	34.2	6.6	1.9	2.6	70.0	9.8	91	604	74.7	10.1	9.5	17.7	9		
<u>Glendale</u>		Pima S-2		100 Percent																	
3	46	1.36	29	4.0	94	46.3	32.2	6.3	1.5	2.6	76.8	10.2	95	403	74.1	10.2	10.4	15.0	17		
3	44	1.39	28	3.9	101	50.0	35.3	5.9	2.0	3.0	71.3	10.4	94	554	74.9	10.4	10.3	18.1	10		
3	44	1.46	28	4.0	101	50.1	33.3	7.2	1.6	1.9	74.0	9.3	98	553	75.0	9.5	8.2	15.1	12		
3	46	1.45	28	3.5	101	49.8	33.4	6.8	1.4	2.0	71.0	9.5	92	603	73.3	9.6	8.9	18.2	11		
<u>Safford</u>		Pima S-2		100 Percent																	
3	44	1.40	28	3.9	98	48.7	33.9	8.2	1.0	2.2	69.0	10.5	90	605	71.8	10.5	8.5	17.6	13		
2	46	1.45	25	4.2	99	49.2	33.1	7.1	1.3	1.5	71.0	10.2	93	554	73.3	10.3	8.0	14.9	5		
2	44	1.39	28	4.0	97	48.2	33.6	7.8	1.5	1.8	71.8	10.4	95	554	73.0	10.6	7.7	15.2	7		
<b>NEW MEXICO</b>																					
<u>Mesilla Park</u>		Pima S-2		75 Percent																	
3	44	1.34	30	4.0	93	46.0	33.0	8.4	1.7	2.2	68.3	10.8	89	605	69.3	11.3	7.8	13.7	12		
2	44	1.40	29	3.8	94	46.7	34.1	7.0	0.9	1.3	69.8	10.5	91	604	71.7	10.6	8.5	18.3	14		
2	44	1.37	30	3.5	95	47.2	31.8	8.5	1.5	1.8	71.8	10.3	95	554	73.0	10.4	8.3	16.9	7		
<b>TEXAS</b>																					
<u>Clint</u>		Pima S-2		70 Percent																	
4	44	1.38	27	4.2	96	47.3	31.8	8.6	2.6	3.4	67.3	10.8	87	605	69.0	11.2	9.3	14.0	11		
3	44	1.34	32	3.7	93	46.0	33.1	7.1	1.8	3.0	68.5	10.6	89	605	70.9	10.8	9.4	18.5	12		
3	44	1.40	30	3.4	102	50.6	34.6	6.8	1.8	2.6	70.8	10.0	93	604	71.3	9.8	9.3	19.8	10		
<u>El Paso</u>		Pima S-2		70 Percent																	
4	44	1.38	27	4.0	91	44.8	32.7	8.3	2.6	2.8	68.0	10.7	88	605	69.9	10.9	9.3	18.1	13		
3	44	1.38	29	3.5	96	47.8	35.5	7.0	2.1	2.7	70.9	10.0	93	604	74.2	10.4	10.1	18.1	18		
3	44	1.40	31	3.1	102	50.6	33.6	6.7	3.1	3.9	70.5	10.2	92	604	71.8	11.0	11.4	16.5	16		

Table 8.--Continued

State, Production Area Chronological sampling and classification	Yarn skein strength				Yarn elngtn		Yarn appearance			Yarn imprfctns		Color 50s grey yarn			Color 50s blehd yarn			Color 50s dyed yarn			Luster of 50s or 11.8 tex yarn		
	50s or 11.8tex	80s or 7.4tex	Average brk.fctr.	50s Merc.	50s or 11.8tex	80s or 7.4tex	50s or 11.8tex	80s or 7.4tex	Average	50s or 11.8tex	80s or 7.4tex	Rflect- ance	Yellow- ness	Com- posite	Rflect- ance	Yellow- ness	Com- posite	Rflect- ance	Blue- ness	Com- posite	Grey	Merc.	
	32d in. Lbs.	Lbs.	No.	Lbs.	Pct.	Pct.	Index	Index	Index	No.	No.	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index	Pct.	Pct.	
<b>ARIZONA</b>																							
<u>Casa Grande</u>		Pima S-2				100 Percent																	
3	46	69	37	3205	76	5.1	4.3	120	100	110	7	3	67.1	13.4	99	82.6	3.7	97	29.7	26.2	99	35.6	46.9
2	46	72	38	3320	78	5.6	4.6	120	100	110	3	2	70.1	13.2	104	83.5	3.2	101	30.0	25.8	97	35.9	48.6
2	46	75	40	3475	79	5.7	5.0	120	110	105	2	2	68.1	13.5	102	82.1	3.4	97	28.4	25.9	101	37.0	50.0
3	46	75	40	3475	80	5.4	4.7	120	100	110	5	3	68.5	12.9	100	82.4	3.7	96	30.2	25.2	94	36.4	48.7
<u>Glendale</u>		Pima S-2				100 Percent																	
3	46	68	37	3180	75	5.1	4.5	110	100	105	7	6	67.7	13.3	100	83.2	3.6	98	29.6	25.9	98	35.1	49.0
3	44	72	38	3320	78	5.4	4.6	110	100	105	4	2	69.1	13.6	104	83.7	3.2	101	28.9	26.0	100	36.8	49.8
3	44	75	40	3475	81	5.4	5.0	130	100	115	2	2	70.0	12.6	102	82.9	3.3	99	28.9	25.7	99	38.7	50.0
3	46	77	42	3605	83	5.8	5.2	120	100	110	4	2	68.6	13.0	100	83.2	3.8	97	29.9	25.4	96	35.8	48.0
<u>Safford</u>		Pima S-2				100 Percent																	
3	44	69	37	3205	72	5.6	4.7	130	110	120	4	3	66.0	13.9	98	83.3	3.6	99	28.6	26.2	101	35.9	47.2
2	46	71	39	3335	74	5.7	4.8	130	100	115	2	2	68.1	13.2	100	82.2	3.3	97	28.3	26.0	102	35.9	49.6
2	44	74	39	3410	79	6.1	5.2	130	110	120	2	1	67.6	13.4	100	82.7	3.5	98	27.8	26.1	103	38.0	48.7
<b>NEW MEXICO</b>																							
<u>Mesilla Park</u>		Pima S-2				75 Percent																	
3	44	67	36	3115	72	5.7	5.1	110	100	105	7	7	64.8	14.2	97	85.2	4.3	100	28.1	26.4	103	34.7	48.0
2	44	68	37	3180	71	6.0	5.2	120	100	110	4	3	67.4	14.0	102	83.8	4.0	98	27.6	26.7	106	34.1	49.3
2	44	73	38	3345	77	6.1	5.3	120	100	110	3	2	66.1	13.7	98	83.6	3.8	99	26.6	26.7	107	36.	49.2
<b>TEXAS</b>																							
<u>Clint</u>		Pima S-2				70 Percent																	
4	44	66	35	3050	70	5.5	4.8	120	100	110	7	6	64.6	14.2	96	83.6	4.0	98	28.7	26.0	101	34.8	48.4
3	44	68	37	3180	71	6.0	4.9	110	110	110	5	4	67.7	13.9	102	83.0	3.8	97	28.9	26.1	101	35.6	47.2
3	44	75	40	3475	80	5.8	5.3	120	110	115	4	3	65.2	13.2	94	79.9	4.1	89	27.6	25.6	101	37.2	47.9
<u>El Paso</u>		Pima S-2				70 Percent																	
4	44	66	35	3050	69	5.6	4.9	120	100	110	6	4	65.1	13.8	96	82.4	4.2	95	28.1	26.4	103	35.4	49.6
3	44	73	38	3345	75	6.1	4.7	110	100	105	5	4	68.0	13.5	101	83.7	3.9	98	27.4	26.5	105	35.1	47.9
3	44	77	41	3565	81	6.1	5.2	100	90	95	7	6	65.7	13.8	98	82.6	4.1	95	27.0	26.1	104	36.3	49.9

Table 9.--Cotton: Results of simple correlation analyses for the fiber and processing tests performed on 163 short staple samples, collected at triweekly intervals from selected gin points, crop of 1962

Item	Grade	Staple	Fiber length			Micro- naire	Fiber strength		Elongation 1/8"	Shirley Analyzer			Color of raw stock			Color cl. lint		Picker & card waste	Neps in card web
			2.5% span	50/2.5 unif.	Rdg.		Mpsi	Zero gauge		1/8" gauge	Visible waste	Total waste	Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Yellow- ness		
	Index	32d in.	In.	Pct.	Rdg.	Mpsi	O/tex	Pct.	Pct.	Pct.	R <sub>a</sub>	+b	Index	R <sub>a</sub>	+b	Pct.	No.		
<b>Sample Distribution:</b>																			
Mean.....	92.3	30.2	.93	45.0	3.97	78.6	20.3	6.30	1.91	3.23	71.8	9.3	94.0	74.7	9.4	8.26	31.8		
Standard deviation (+)..	5.1	.8	.04	1.4	.53	5.7	1.3	1.09	.69	.82	2.2	.5	3.9	2.0	.5	.95	14.9		
<b>Correlation Coef. for:</b>																			
<b>Classification:</b>																			
Grade.....index		-.0532	-.0681	+.0152	+.0540	-.1873	-.2071	+.1530	-.7013	-.6811	+.7832	-.0684	+.7946	+.6179	-.2727	-.5536	+.0210		
Staple.....32d inches	-.0532		+.7836	-.1139	+.2321	-.1484	-.2475	+.0070	-.0785	-.0873	-.1389	+.0513	-.1545	-.1765	+.0529	-.0662	-.0520		
<b>Fiber length:</b>																			
2.5% span.....inches	-.0681	+.7836		-.4226	+.2172	-.2571	-.4604	-.0192	-.1584	-.0862	-.2160	+.2055	-.2142	-.2956	+.1525	-.0064	-.0718		
50/2.5 unif....percent	+.0152	-.1139	-.4226		+.3537	+.2780	+.3840	-.1034	+.0770	-.1187	-.0066	-.2396	-.0341	+.0131	-.0694	-.2597	-.3044		
<b>Micronaire.....reading</b>	+.0540	+.2321	+.2172	+.3537		+.2181	-.1711	-.4170	-.3197	-.4516	-.2732	-.1364	-.2628	-.3937	+.2147	-.3804	-.6364		
<b>Fiber strength:</b>																			
Zero gauge....1,000 psi	-.1873	-.1484	-.2571	+.2780	+.2181		+.6277	-.7473	+.1842	+.0609	-.1199	+.1702	-.0991	-.0459	+.2459	-.1047	-.1982		
1/8" gauge....grams/tex	-.2071	-.2475	-.4604	+.3840	-.1711	+.6277		-.1968	+.3890	+.2730	+.0629	-.2553	+.0336	+.1792	-.1084	+.0493	+.0811		
Elongation (1/8")...pct	+.1530	+.0070	-.0192	-.1034	-.4170	-.7473	-.1968		+.0790	+.0874	+.2874	-.3727	+.2547	+.3082	-.3833	+.1282	+.3952		
<b>Shirley Analyzer:</b>																			
Visible waste...percent	-.7013	-.0785	-.1584	+.0770	-.3197	+.1842	+.3890	+.0790		+.8909	+.8026	-.1168	-.4261	-.1827	+.0876	+.6682	+.1066		
Total waste....percent	-.6811	-.0873	-.0862	-.1187	-.4516	+.0609	+.2730	+.0874	+.8909		-.3899	-.0635	-.4137	-.1749	+.0675	+.7368	+.2604		
<b>Color of raw stock:</b>																			
Reflectance.....R <sub>d</sub>	+.7832	-.1389	-.2160	-.0066	+.2732	-.1199	+.0629	+.2874	-.4026	-.3899		-.2981	+.9878	+.8896	-.4469	+.4030	+.2115		
Yellowness.....+b	-.0684	+.0513	+.2055	-.2396	+.1364	+.1702	-.2553	-.3727	-.1168	-.0635	-.2891	-.1866		-.3951	+.8794	-.0031	-.0570		
Composite.....index	+.7946	-.1545	-.2142	-.0341	-.2628	-.0991	+.0336	+.2547	-.4261	-.4137	+.9878	-.1866		+.8644	-.3582	-.4195	+.2101		
<b>Color of cleaned lint:</b>																			
Reflectance.....R <sub>d</sub>	+.6179	-.1765	-.2956	+.0131	-.3937	-.0459	+.1792	+.3082	-.1827	+.1749	+.8896	-.3951	+.8644		-.5408	+.0701	+.2598		
Yellowness.....+b	-.2727	+.0529	+.1525	-.0694	+.2147	+.2459	-.1084	-.3833	+.0876	+.0675	-.4469	+.8794	-.3582	-.5408		+.0701	-.1366		
<b>Picker &amp; card waste...pct</b>	-.5536	-.0662	-.0064	-.2597	-.3804	-.1047	+.0493	+.1282	+.6682	+.7368	-.4030	-.0031	-.4195	-.2234	+.0701		+.3138		
<b>Neps in card web...number</b>	+.0210	-.0520	-.0718	-.3044	-.6364	-.1982	+.0811	+.3952	+.1066	+.2604	+.2115	-.0570	+.2101	+.2598	-.1366		+.3138		
<b>Yarn skein strength:</b>																			
8s (73.8 tex)...pounds	-.0861	-.0750	-.2614	+.3546	-.3671	+.2617	+.7060	+.1933	+.3485	+.2227	+.2800	-.3312	+.2395	+.3824	-.2436	-.0403	+.1349		
22s (26.8 tex)...pounds	-.1384	+.0160	-.1924	+.3553	-.2602	+.3661	+.7221	+.0616	+.3639	+.2036	+.1996	-.2748	+.1611	+.3076	-.1706	-.0389	+.0728		
<b>Yarn elongation:</b>																			
8s (73.8 tex)...percent	+.1034	+.1022	+.0933	-.1523	-.4739	-.6280	-.1417	+.8196	+.0961	+.0898	+.3129	-.2118	+.2895	+.3414	-.2518	+.0891	+.3103		
22s (26.8 tex)...percent	+.0938	+.0629	+.0263	-.1450	-.5394	-.6449	-.1293	+.8517	+.1393	+.1247	+.3073	-.3096	+.2737	+.3508	-.3346	+.1058	+.3388		
<b>Yarn appearance:</b>																			
8s (73.8 tex)...index	+.0428	+.0304	+.0013	+.2860	+.4928	+.2183	+.0602	-.3554	-.1884	-.2922	-.0764	+.0137	-.0716	-.1613	+.0505	-.3908	-.7540		
22s (26.8 tex)...index	+.0361	+.0861	+.0214	+.3935	+.6198	+.2650	+.0648	-.4063	-.2297	-.3695	-.1239	-.0539	-.1251	-.2033	+.0090	-.4698	-.6924		
<b>Yarn imperfections:</b>																			
8s (73.8 tex)...number	-.2383	-.1030	-.0394	-.4120	-.7052	-.2848	+.0068	+.4409	+.3730	+.5099	-.0153	-.0777	-.0291	+.1130	-.1035	+.5171	+.7066		
22s (26.8 tex)...number	-.2225	-.0756	-.0098	-.4208	-.6646	-.2435	-.0061	+.3705	+.3301	+.4676	-.0364	-.0198	-.0452	+.0898	-.0604	+.4945	+.7147		
<b>Trash in fabric....index</b>	+.4802	+.0965	+.1279	+.0844	+.4184	+.1839	-.1446	-.3457	-.5467	-.5143	+.3038	+.1460	+.3195	+.1376	+.0345	-.5907	-.3218		
<b>Color-22s grey yarn:</b>																			
Reflectance.....R <sub>d</sub>	+.6964	-.1379	-.2582	+.1689	-.0923	-.0570	+.1344	+.2304	-.3497	-.3660	+.8721	-.4695	+.8408	+.8166	-.5537	-.4102	+.1004		
Yellowness.....+b	-.1403	-.0213	+.0402	-.1081	-.0183	+.3345	+.0606	-.3421	+.1320	+.1204	-.1635	+.8290	-.0650	-.2184	+.8101	+.0696	+.0299		
Composite.....index	+.6453	-.1640	-.2437	+.1047	-.1188	+.1074	+.1646	+.0630	-.2875	-.3047	+.8098	-.0300	+.8342	+.7228	-.1342	-.3814	+.1333		
<b>Color-22s bleached yarn:</b>																			
Reflectance.....R <sub>d</sub>	+.1843	-.0400	-.0892	-.0394	-.1272	-.0869	+.0045	+.1397	-.0601	-.0728	+.3166	+.1243	+.3414	+.2629	+.0869	-.0714	+.0782		
Yellowness.....+b	-.3726	+.0884	+.0864	-.1182	-.1995	+.1432	+.1109	.0692	+.3015	+.3496	-.2808	+.1254	-.2685	-.2013	+.1406	+.2266	+.3034		
Composite.....index	+.3975	-.0462	-.0929	+.0701	+.0740	-.1621	-.0683	+.1755	-.2627	-.3063	+.4302	-.0661	+.4343	+.3353	-.1059	-.2315	-.1236		
<b>Color-22s dyed yarn:</b>																			
Reflectance.....R <sub>d</sub>	-.2249	-.0553	-.0250	-.1785	-.0519	+.0540	-.0426	-.1061	+.1614	+.1948	-.2307	-.1188	-.2508	-.2124	-.0715	+.1480	+.0005		
Blueness.....+b	+.2683	+.1536	+.1203	+.2612	+.4234	+.0595	-.0939	-.0816	-.2184	-.3345	+.1436	+.1861	+.1762	+.0489	+.2002	-.2560	-.3031		
Composite.....index	+.2846	+.1412	+.1133	+.2469	+.3282	+.0108	-.0654	-.0198	-.2235	-.3201	+.1912	+.1863	+.2215	+.1128	+.1769	-.2407	-.2214		

Table 9.--Continued

Item	Yarn strength		Yarn elongation		Yarn appearance		Yarn imperfections		Trash in fabric	Color-22s gray yarn			Color-22s bleached yarn			Color-22s dyed yarn		
	8s or 73.8tex	22s or 26.8tex	8s or 73.8tex	22s or 26.8tex	8s or 73.8tex	22s or 26.8tex	8s or 73.8tex	22s or 26.8tex		Reflectance	Yellowness	Composite	Reflectance	Yellowness	Composite	Reflectance	Blueness	Composite
	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.		Index	Rd	+b	Index	Rd	+b	Index	Rd	-b
<b>Sample distribution:</b>																		
Mean.....	284.7	89.1	6.69	5.97	115.8	104.9	61.2	38.8	85.7	67.7	12.3	95.6	82.7	3.3	98.4	27.6	25.8	102.2
Standard deviation (s)....	17.7	6.2	.74	.62	6.3	7.1	19.2	12.8	8.6	1.9	.6	3.9	.9	.5	2.9	.8	.7	3.9
<b>Correlation Coef. for:</b>																		
<b>Classification:</b>																		
Grade.....index	-.0861	-.1384	+.1034	+.0938	+.0428	+.0361	-.2383	-.2225	+.4802	+.6964	-.1403	+.6453	+.1843	-.3726	+.3975	-.2249	+.2683	+.2846
Staple.....32d inches	-.0750	+.0160	+.1022	+.0629	+.0304	+.0861	-.1030	-.0756	+.0965	-.1379	-.0213	-.1640	-.0400	+.0884	-.0462	-.0553	+.1536	+.1412
<b>Fiber length:</b>																		
2.5/ span.....inches	-.2614	-.1924	+.0933	+.0263	+.0013	+.0214	-.0394	-.0098	+.1279	-.2582	+.0402	-.2437	-.0892	+.0864	-.0929	-.0250	+.1203	+.1133
50/2.5 unif.....percent	+.3546	+.3553	-.1523	-.1450	+.2860	+.3935	-.4120	-.4208	+.0844	+.1689	-.1081	+.1047	-.0394	-.1182	+.0701	-.1785	+.2612	+.2469
Micronaire.....reading	-.3671	-.2602	-.4739	-.5394	+.4928	+.6198	-.7052	-.6646	+.4184	-.0923	-.0183	-.1188	-.1272	-.1995	+.0740	-.0519	+.4234	+.3282
<b>Fiber strength:</b>																		
Zero gauge....1,000 psi	+.2617	+.3661	-.6280	-.6449	+.2183	+.2650	-.2848	-.2435	+.1839	-.0570	+.3345	+.1074	-.0869	+.1432	-.1621	+.0540	+.0595	+.0108
1/8" gauge....grams/tex	+.7060	+.7221	-.1417	-.1293	+.0602	+.0648	+.0068	-.0061	-.1446	+.1344	+.0606	+.1646	+.0045	+.1109	-.0683	-.0426	-.0939	-.0654
Elongation (1/8")...pct	+.1933	+.0616	+.8196	+.8517	-.3554	-.4063	+.4409	+.3705	-.3457	+.2304	-.3421	+.0630	+.1397	-.0692	+.1755	-.1061	-.0816	-.0198
<b>Shirley Analyzer:</b>																		
Visible waste....percent	+.3485	+.3639	+.0961	+.1393	-.1884	-.2297	+.3730	+.3301	-.5467	-.3497	+.1320	-.2875	-.0601	+.3015	-.2627	+.1614	-.2184	-.2235
Total waste....percent	+.2036	+.0898	+.1247	+.2922	-.3695	-.3695	+.5099	+.4676	-.5143	-.3660	+.1204	-.3047	-.0728	+.3496	-.3063	+.1948	-.3345	-.3201
<b>Color of raw stock:</b>																		
Reflectance.....Rd	+.2800	+.1996	+.3129	+.3073	-.0764	-.1239	-.0153	-.0364	+.3038	+.8721	-.1635	+.8098	+.3166	-.2808	+.4302	-.2307	+.1436	+.1912
Yellowness.....+b	-.3312	-.2748	-.2118	-.3096	+.0137	-.0539	-.0777	-.0198	+.1460	-.4695	+.8290	-.0300	+.1243	+.1253	-.0661	-.1188	+.1861	+.1863
Composite.....index	+.2395	+.1611	+.2895	+.2737	-.0716	-.1251	-.0291	-.0452	+.3195	+.8408	-.0650	+.8342	+.3414	-.2685	+.4343	-.2508	+.1762	+.2215
<b>Color of cleaned lint:</b>																		
Reflectance.....Rd	+.3824	+.3076	+.3414	+.3508	-.1613	-.2033	+.1130	+.0898	+.1376	+.8166	-.2184	+.7228	+.2629	-.2013	+.3353	-.2124	+.0489	+.1128
Yellowness.....+b	-.2436	-.1706	-.2518	-.3346	+.0505	+.0090	-.1035	-.0604	+.0345	-.5537	+.8101	-.1342	+.0869	+.1406	-.1059	-.0715	+.2002	+.1769
Picker & card waste...pct	-.0403	-.0389	+.0891	+.1058	-.3908	-.4698	+.5171	+.4945	-.5907	-.4102	+.0696	-.3814	-.0714	+.2266	-.2315	+.1480	-.2560	-.2407
Neps in card web...number	+.1349	+.0728	+.3103	+.3388	-.7540	-.6924	+.7066	+.7147	-.3218	+.1004	+.0299	+.1333	+.0782	+.3034	-.1236	+.0005	-.3031	-.2214
<b>Yarn skein strength:</b>																		
8s (73.8 tex)...pounds		+.9511	+.3472	+.3567	+.0365	-.0056	+.1045	+.0598	-.1718	+.2590	-.0489	+.2377	+.1327	+.0851	+.0592	-.2654	-.0392	+.0670
22s (26.8 tex)...pounds	+.9511		+.2565	+.2644	+.0854	+.0733	+.0128	-.0147	-.1280	+.1796	+.0091	+.1874	+.1193	+.1205	+.0362	-.2639	+.0237	+.1140
<b>Yarn elongation:</b>																		
8s (73.8 tex)...percent	+.3472	+.2565		+.8853	+.8853	-.2618	-.3400	+.3399	+.2957	-.2811	+.1979	-.1372	+.1312	+.2260	-.0440	+.2144	-.2377	+.0362
22s (26.8 tex)...percent	+.3567	+.2644	+.8853		-.3003	-.3718	+.4001	+.3519	-.3451	+.2100	-.2384	+.0960	+.2153	-.0287	+.1991	-.1952	-.0655	+.0305
<b>Yarn appearance:</b>																		
8s (73.8 tex)...index	+.0365	+.0853	-.2618	-.3003		+.7366	-.7084	-.7165	+.3701	+.0222	-.0433	-.0010	-.0163	-.2085	+.1421	-.0734	+.2861	+.2400
22s (26.8 tex)...index	-.0056	+.0733	-.3400	-.3718	+.7366		-.7588	-.7584	+.4304	+.0138	-.1153	-.0436	-.1049	-.1696	+.0556	-.0401	+.2725	+.2159
<b>Yarn imperfections:</b>																		
8s (73.8 tex)...number	+.1045	+.0128	+.3399	+.4001	-.7084	-.7588		-.9687	-.6022	-.1312	-.0174	-.1344	-.0171	+.2738	-.2186	+.1397	-.4751	-.3977
22s (26.8 tex)...number	+.0598	-.0147	+.2957	+.3519	-.7165	-.7584	+.9687		-.5782	-.1434	+.0327	-.1202	-.0209	+.2493	-.2192	+.0886	-.4327	-.3491
<b>Trash in fabric....index</b>	-.1718	-.1280	-.2811	-.3451	+.3701	+.4304	-.6022	-.5782		+.2695	+.0328	+.3024	-.0023	-.1762	+.1536	-.1512	+.3285	+.2919
<b>Color-22s gray yarn:</b>																		
Reflectance.....Rd	+.2590	+.1796	+.1979	+.2100	+.0222	+.0138	-.1312	-.1434	+.2695		-.3149	+.8355	+.2499	-.2986	+.3987	-.2031	+.1670	+.1970
Yellowness.....+b	-.0489	+.0091	-.1372	-.2384	-.0433	-.1153	-.0174	+.0327	+.0326	-.3149		+.2129	+.2853	+.1601	+.0355	-.1611	+.1688	+.1863
Composite.....index	+.2377	+.1874	+.1312	+.0960	-.0010	-.0436	-.1344	-.1202	+.3024	+.8533	+.2129		+.3939	-.2156	+.4128	-.3035	+.2642	+.3084
<b>Color-22s bleached yarn:</b>																		
Reflectance.....Rd	+.1327	+.1193	+.2260	+.2153	-.0163	-.0149	-.0171	-.0209	-.0023	+.2499	+.2853	+.3939		-.1280	+.8243	-.2493	+.1516	+.2130
Yellowness.....+b	+.0851	+.1205	-.0440	-.0287	-.2085	-.1696	+.2738	+.2493	-.1762	-.2986	+.1601	-.2156	-.1280	-.5862	+.5862	+.1691	-.2664	-.2494
Composite.....index	+.0592	+.0362	+.2144	+.1991	+.1421	+.0556	-.2186	-.2192	+.1536	+.3987	+.0355	+.4128	+.8243	-.5862		-.3081	+.3165	+.3503
<b>Color-22s dyed yarn:</b>																		
Reflectance.....Rd	-.2654	-.2639	-.2377	-.1952	-.0734	-.0401	+.1397	+.0886	-.1512	-.2031	-.1611	-.3035	-.2493	+.1691	-.3081		-.5552	-.7824
Blueness.....-b	-.0392	-.0237	+.0362	-.0655	+.2861	+.2725	-.4751	-.4327	+.3285	+.1676	+.1688	+.2642	+.1516	-.2664	+.3165	-.5552		+.9437
Composite.....index	+.0670	+.1140	+.1194	+.0305	+.2400	+.2159	-.3977	-.3491	+.2919	+.1970	+.1863	+.3084	+.2130	-.2494	+.3503	-.7824		

Table 10.--Cotton: Results of simple correlation analyses for the fiber and processing tests performed on 491 medium staple samples, collected at triweekly intervals from selected gin points, crop of 1962

Item	Grade	Staple	Fiber length		Micro- naire	Fiber strength		Elong- ation 1/8"	Shirley Analyzer			Color of raw stock			Color cl. lint		Picker & card waste	Neps in card web
			2.5% span	50/2.5 unif.		Zero gauge	1/8" gauge		Visible waste	Total waste	Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Yellow- ness	Pct.		
	Index	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Pct.	Ra	+b	Index	Ra	+b	Pct.	No.	
<b>Sample distribution:</b>																		
Mean.....	96.2	33.9	1.05	44.6	4.40	83.8	21.8	5.83	1.57	2.53	74.2	8.6	97.2	76.4	8.7	7.78	25.1	
Standard deviation (+)....	4.7	.8	.03	1.7	.39	5.3	1.7	.72	.76	.91	2.6	.5	4.1	2.2	.5	1.01	10.4	
Correlation Coef. for:																		
<b>Classification:</b>																		
Grade.....index		+0269																
Staple.....32d in.	+0269																	
Fiber length:																		
2.5% span.....inches	-.0248	+7894																
50/2.5 unif.....percent	+3435	+2738																
Micronaire.....reading	+2474	+1408																
Fiber strength:																		
Zero gauge....1,000 psi	+1501	+3019																
1/8" gauge....grams/tex	+2692	+4327																
Elongation (1/8")...pct	+2440	+0871																
Shirley Analyzer:																		
Visible waste....percent	-.7021	+1235																
Total waste....percent	-.7476	+1133																
Color of raw stock:																		
Reflectance.....Ra	+8212	+1775																
Yellowness.....+b	+.2350	-.2308																
Composite.....index	+.8530	+1508																
Color of cleaned lint:																		
Reflectance.....Ra	+.6500	+2334																
Yellowness.....+b	+.0415	-.2316																
Picker & card waste...pct	-.5784	-.0933																
Neps in card web...number	-.1237	-.2552																
Yarn skein strength:																		
22s (26.8 tex)...pounds	+4007	+5091																
50s (11.8 tex)...pounds	+3132	+5686																
Yarn elongation:																		
22s (26.8 tex)...percent	+2921	+1997																
50s (11.8 tex)...percent	+2848	+3397																
Yarn appearance:																		
22s (26.8 tex)...index	+0743	+2368																
50s (11.8 tex)...index	+1294	+2448																
Yarn imperfections:																		
22s (26.8 tex)...number	-.4307	-.1043																
50s (11.8 tex)...number	-.3596	-.1626																
Trash in fabric....index	+5125	-.0807																
Color-22s grey yarn:																		
Reflectance.....Ra	+6737	+1935																
Yellowness.....+b	+2766	-.1385																
Composite.....index	+7512	+1167																
Color-22s bleached yarn:																		
Reflectance.....Ra	+0142	+0612																
Yellowness.....+b	-.1628	-.2217																
Composite.....index	+0846	+1570																
Color-22s dyed yarn:																		
Reflectance.....Ra	-.4528	-.2940																
Blueness.....+b	+3729	+2249																
Composite.....index	+4327	+2654																

Table 10.--Continued

Item	Yarn strength		Yarn elongation		Yarn appearance		Yarn imperfections		Trash in fabric	Color-22 gray yarn			Color-22s bleached yarn			Color-22s dyed yarn			
	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex		Reflectance	Yellowness	Composite	Reflectance	Yellowness	Composite	Reflectance	Blueness	Composite	
	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.		Index	Ra	+b	Index	Ra	+b	Index	Ra	-b	Index
<b>Sample Distribution</b>																			
Mean.....	103.9	35.4	5.74	4.38	110.0	97.9	26.2	19.4	91.6	70.4	11.5	98.0	83.0	2.8	101.3	27.9	26.3	103.3	
Standard deviation (+)....	10.8	5.6	.45	.48	7.7	7.8	8.6	6.6	8.7	2.3	.6	4.8	.8	.3	2.8	1.3	.7	5.3	
<b>Correlation Coef. for:</b>																			
<b>Classification:</b>																			
Grade.....index	+4007	+3132	+2921	+2848	+0743	+1294	-4307	-3596	+5125	+6737	+2766	+7512	+0142	-1628	+0846	-4528	+3729	+4327	
Staple.....32d inches	+5091	+5686	+1997	+3397	+2368	+2448	-1043	-1626	-0807	+1935	-1385	+1167	+0612	-2217	+1570	-2940	+2249	+2664	
<b>Fiber length:</b>																			
2.5% span.....inches	+4713	+5389	+3225	+4485	+1632	+2312	-0483	-0954	-1665	+1402	-0447	+1073	+0912	-1864	+1566	-3480	+2903	+3378	
50/2.5 unif.....percent	+5893	+5886	+2233	+3738	+4033	+4458	-3817	-4617	+1997	+2534	+2785	+3530	-0940	-0438	-0478	-4860	+3780	+4492	
<b>Micronaire.....reading</b>	+0302	-0165	-1649	-1216	+5299	+4568	-5581	-5911	+3036	+2244	+0999	+2472	-0614	-3944	+1554	-2188	+4374	+3568	
<b>Fiber strength:</b>																			
Zero gauge....1,000 psi	+4853	+4850	-2613	-0696	+1978	+1470	-0757	-1444	+0710	+1755	+0137	+1691	-2091	+0173	-1476	-1664	+0603	+1128	
1/8" gauge....grams/tex	+7412	+7611	+2116	+3992	+1526	+2027	-0350	-1006	+0160	+3542	+0032	+3307	-1421	-1123	-0467	-4432	+2604	+3614	
Elongation (1/8")...pct	+1623	+0735	+5710	+4470	-1426	-0554	-0894	-0042	+0548	+2823	+0083	+2719	+2079	-1564	+2160	-1622	+2295	+2078	
<b>Shirley Analyzer:</b>																			
Visible waste...percent	-0903	-0370	-1593	-0917	-0587	+0156	+3500	+2483	-3987	-3600	-0964	-3803	-0643	+1087	-0950	+2201	-1767	-2105	
Total waste...percent	-1890	-1122	-2757	-2167	-0821	-0259	+4201	+3333	-4124	-4199	-1814	-4739	-0606	+1157	-0967	+2696	-2503	-2742	
<b>Color of raw stock:</b>																			
Reflectance.....Ra	+5709	+4928	+4081	+4414	+0318	+0833	-3496	-3060	+4283	+9009	+0249	+8601	+1156	-3090	+2383	-4503	+3535	+4178	
Yellowness.....+b	-1081	-1510	+0162	-0478	+1155	+1039	-2102	-1869	+1548	-2452	+8736	+1439	-1702	+2962	-2746	-2521	+2419	+2722	
Composite.....index	+5474	+4648	+4109	+4312	+0404	+0933	-3740	-3234	+4386	+8812	+1285	+8870	+1157	-2699	+2099	-4661	+3762	+4401	
<b>Color of cleaned lint:</b>																			
Reflectance.....Ra	+5282	+5233	+3400	+4441	+1230	+1681	-2777	-2682	+3380	+8700	-0805	+7810	+1245	-3628	+2676	-4781	+4003	+4561	
Yellowness.....+b	-1761	-2232	-0357	-1086	+1002	+0999	-1325	-1314	+0552	-3285	+8236	+0450	-1876	+3271	-2959	-1376	+1621	+1707	
<b>Picker &amp; card waste...pct</b>	-2430	-2138	-1794	-2121	-2766	-2425	+4913	+4581	-3871	-4852	+0172	-4481	-1298	+2173	-1980	+2435	-2368	-2518	
<b>Neps in card web...number</b>	-1880	-2166	+0884	-0445	-7324	-6561	+5945	+7046	-2009	-1769	-0797	-1881	+0301	+2794	-1177	+3074	-3853	-3673	
<b>Yarn skein strength:</b>																			
22s (26.8 tex)...pounds		+9532	+5283	+6911	+0805	+2319	-1240	-1509	+0413	+4621	+1401	+4934	-0605	-0200	-0337	-5076	+2874	+4092	
50s (11.8 tex)...pounds	+9532		+5142	+7158	+1166	+2551	-0634	-1132	-0149	+3970	+0934	+4101	-0203	-0246	-0044	+5406	+2847	+4234	
<b>Yarn elongation:</b>																			
22s (26.8 tex)...percent	+5283	+5142		+8269	-1084	+0564	-0298	-0084	-0347	+3015	+1713	+3601	+1646	+0157	+0940	-4468	+3072	+3923	
50s (11.8 tex)...percent	+6911	+7158	+8269		-0004	+1660	-0601	-0681	-0587	+3587	+1601	+4029	+0957	-0216	+0662	-5396	+3377	+4552	
<b>Yarn appearance:</b>																			
22s (26.8 tex)...index	+0805	+1166	-1084	-0004	+6565	-6008	-6664	+2195	+0919	+0728	+1067	+1067	+0179	-2082	+1621	-2395	+3049	+2902	
50s (11.8 tex)...index	+2519	+2551	+0564	+1660	+6565	-5409	-5866	+1393	+1252	+1267	+1583	+1583	+0041	-2543	+1276	-2967	+3455	+3423	
<b>Yarn imperfections:</b>																			
22s (26.8 tex)...number	-1240	-0634	-0298	-0601	-6008	-5409	+9197	+9197	-5988	-3302	-1630	-3752	-0725	+2997	-2021	+2300	-3367	-3027	
50s (11.8 tex)...number	-1509	-1132	-0084	-0681	-6664	-5866			-5419	-3060	-1633	-3511	-0430	+2994	-1837	+2546	-3672	-3319	
<b>Trash in fabric.....index</b>	+0413	-0149	-0347	-0587	+2195	+1393	-5988	-5419		+3748	+1291	+4023	-0376	-1744	+0583	-1634	+2243	+2054	
<b>Color-22s gray yarn</b>																			
Reflectance.....Ra	+4621	+3970	+3015	+3587	+0919	+1252	-3302	-3060	+3748		-0950	+9011	+1892	-4482	+3583	-3451	+3383	+3588	
Yellowness.....+b	+1401	+0934	+1713	+1501	+0728	+1267	-1630	-1633	+1291	-0950		+3407	-1574	+3284	-2834	-3647	+2762	+3450	
Composite.....index	+4934	+4101	+3601	+4029	+1067	+1583	-3752	-3511	+4023	+9011	+3407		+1195	-2671	+2075	-4653	+4231	+4701	
<b>Color-22s bleached yarn:</b>																			
Reflectance.....Ra	-0605	-0203	+1646	+0957	+0179	+0041	-0725	-0430	-0376	+1892	-1574	+1195	-2912	-2912	+8891	+1299	-0640	-1015	
Yellowness.....+b	-0200	-0246	+0157	-0216	-2982	-2543	+2997	+2994	-1744	-4482	+3284	+2671	-2912	-7072	-7072	+1518	-2900	-2395	
Composite.....index	-0337	-0044	+0940	+0662	+1621	+1276	-2021	-1837	+0583	+3583	-2834	+2075	+8891	-7072		+0274	+0950	+0402	
<b>Color-22s dyed yarn:</b>																			
Reflectance.....Ra	-5076	-5406	-4468	-5396	-2395	-2967	+2300	+2546	-1634	-3451	-3647	-4653	+1299	+1518	+0274	-7585	-9269	-9269	
Blueness.....-b	+2874	+2847	+3072	+3377	+3049	+3455	-3367	-3672	+2243	+3383	+2762	+4231	-0640	-2900	+0950	-7585		+9423	
Composite.....index	+4092	+4234	+3923	+4552	+2902	+3423	-3319		+2054	+3588	+3450	+4701	-1015	-2395	+0402	-9269		+9423	

Table 11.--Cotton: Results of simple correlation analyses for the fiber and processing tests performed on 37 long staple samples, collected at triweekly intervals from selected gin points, crop of 1962

Item	Grade	Staple	Fiber length		Micro- naire	Fiber strength		Elongation 1/8"	Shirley Analyzer		Color of raw stock			Color cl. lint		Picker & card waste	Neps in card web	
			2.5% span	50/2.5 unif.		Zero gauge	1/8" gauge		Visible waste	Total waste	Reflect- ance	Yellow- ness	Com- posite	Reflect- ance	Yellow- ness			
	Index	32d In.	In.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Rd	+b	Pct.	No.	
<b>Sample Distribution:</b>																		
Mean.....	96.2	36.5	1.16	43.8	3.74	87.5	25.5	6.32	1.62	2.37	76.1	8.2	99.5	77.3	8.5	7.68	29.6	
Standard deviation (+)....	3.4	.7	.02	1.3	.41	3.7	.8	.61	.41	.52	2.6	.5	3.4	2.2	.5	.98	13.7	
<b>Correlation Coef. for:</b>																		
<b>Classification:</b>																		
Grade.....index		+3550	+3200	+1386	+0322	+1494	+1460	.0000	-.3969	-.4571	+6941	-.0205	+7278	+5348	-.1490	-.4286	-.1306	
Staple.....32d inches	+3550		+7325	+4300	+2099	-.2022	-.1947	-.0238	-.2604	-.4455	+2940	-.1289	+3042	+3872	-.3166	-.3299	-.0377	
Fiber length:																		
2.5% span.....inches	+3200	+7325		+4220	+1357	-.2469	-.2469	+0565	-.1667	-.2807	+2513	-.0973	+3014	+3129	-.2353	-.2000	-.0200	
50/2.5 unif.....percent	+1386	+4300	+4220		+5731	-.0351	-.0323	+1933	-.3370	-.2766	-.1435	+2364	-.0839	-.1091	+1942	-.3816	-.1308	
Micronaire.....reading	+0322	+2099	+1357	+5731		+0115	+0163	+0678	-.3742	-.3063	-.5281	+7373	-.4452	-.4918	+6337	-.4197	-.4193	
Fiber strength:																		
Zero gauge.....1,000 psi	+1494	-.2022	-.2469	-.0351	+0115		+9979	+6311	-.1762	+0302	+0015	-.0076	.0000	-.0511	+0217	-.0020	+0961	
1/8" gauge.....grams/tex	+1460	-.1947	-.2469	-.0323	+0163	+9979		+6361	-.1611	+0438	-.0023	-.0076	-.0058	-.0497	+0238	+0160	+1063	
Elongation (1/8")....pct	.0000	-.0238	+0565	+1933	+0678	+6311	+6361		-.1114	+0345	-.0689	-.0832	-.0455	-.0355	-.0876	-.1300	+0940	
Shirley Analyzer:																		
Visible waste....percent	-.3969	-.2604	-.1667	-.3370	-.3742	-.1762	-.1611	-.1114		+8780	-.1145	-.1293	-.1309	-.0885	+0714	+5799	+2178	
Total waste.....percent	-.4571	-.4455	-.2807	-.2766	-.3063	+0302	+0438	+0345	+8780		-.2283	-.0539	-.2282	-.2605	+1542	+6216	+2513	
Color of raw stock:																		
Reflectance.....Rd	+6941	+2940	+2513	-.1435	-.5281	+0015	-.0023	-.0689	-.1145	-.2283		-.6151	+9873	+9216	-.6707	-.1491	+1552	
Yellowness.....+b	-.1289	-.0973	+2364	+7373	-.0076	-.0076	-.0832	-.1293	-.1293	-.0539	-.6151	-.5417		-.7006	+8892	-.1257	-.4062	
Composite.....index	+7278	+3042	+3014	-.0839	-.4452	.0000	-.0058	-.0455	-.1309	-.2282	+9873	-.5417		+9128	-.6215	-.1762	+1311	
Color of cleaned lint:																		
Reflectance.....Rd	+5348	+3872	+3129	-.1091	-.4918	-.0511	-.0497	-.0355	-.0885	-.2095	+9216	-.7006	+9128		-.7734	-.1484	+2038	
Yellowness.....+b	-.1490	-.3166	-.2353	+1942	+6337	+0217	+0238	-.0876	+0714	+1542	-.6707	+8892	-.6215	-.7734	-.0245	-.2737	-.2737	
Picker & card waste....pct	-.4286	-.3299	-.2000	-.3816	-.4197	-.0020	+0160	-.1300	+5799	+6216	-.1491	-.1257	-.1762	-.1484	-.0245		+5606	
Neps in card web....number	-.1306	-.0377	-.0200	-.1308	-.4193	+0961	+1063	+0940	+2178	+2513	+1552	-.4062	+1311	+2038	-.2737	+5606		
Yarn skein strength:																		
22s (26.8 tex)....pounds	+5638	+3766	+4777	+1306	-.2506	+2432	+2359	+4211	-.2776	-.3307	+5747	-.4199	+5753	+5817	-.5438	-.2724	+0963	
50s (11.8 tex)....pounds	+4684	+4264	+5270	+1388	-.2668	+1221	+1118	+3547	-.1990	-.3112	+5421	-.4315	+5385	+5454	-.5516	-.2632	+0583	
Yarn elongation:																		
22s (26.8 tex)....percent	+2409	+3862	+4422	+0720	-.3562	-.1962	-.1895	-.0186	+0212	-.1761	+4331	-.3675	+4230	+4567	-.5070	+0507	-.0604	
50s (11.8 tex)....percent	+1934	+2977	+2698	-.0015	-.5003	-.2130	-.2083	+0166	+1616	-.0045	+4739	-.4614	+4501	+5229	-.5478	+1531	+1983	
Yarn appearance:																		
22s (26.8 tex)....index	+2604	+2968	+1964	+2347	+6049	+1918	+1967	+0950	-.3793	-.4536	-.1023	+3711	-.0704	-.0965	+2439	-.5396	-.6992	
50s (11.8 tex)....index	+1875	+0660	+0643	+1753	+5029	+0905	+0914	-.0667	-.3454	-.3036	-.1286	+3907	-.0856	-.1388	+2393	-.3888	-.7758	
Yarn imperfections:																		
22s (26.8 tex)....number	-.2660	-.3283	-.1245	-.2081	-.6061	-.1550	-.1570	+1369	+4892	+4357	+1173	-.4163	+0894	+1299	-.2538	+3556	+4868	
50s (11.8 tex)....number	-.2000	-.2865	-.0941	-.2716	-.6761	-.1465	-.1523	+1053	+4886	+4442	+1778	-.4567	+1472	+1695	-.2633	+4371	+6005	
Trash in fabric.....index	+5237	+3949	+1081	+0050	+0221	+2362	+2308	+0280	-.4162	-.3768	+3906	-.1206	+3494	+3630	-.2599	-.3326	-.1545	
Color-22s grey yarn:																		
Reflectance.....Rd	+6126	+3685	+3040	-.0510	-.4289	+0606	+0593	+0718	-.1486	-.2769	+9315	-.6663	+9245	+9455	-.7289	-.2107	+1741	
Yellowness.....+b	-.0161	-.0949	+0581	+1614	+3860	-.1443	-.1382	-.2073	+1696	+1943	-.3871	+7234	-.3169	-.4662	+6847	+2846	+1319	
Composite.....index	+6650	+3825	+3646	-.0064	-.3647	.0000	+0018	+0061	-.1124	-.2420	+9146	-.5208	+9360	+9139	-.6180	-.1414	+2443	
Color-22s bleached yarn:																		
Reflectance.....Rd	+3163	+4661	+4840	+2431	-.1233	-.1961	-.1931	+0063	-.0405	-.2455	+5006	-.3403	+5162	+6066	-.4166	-.1731	+1088	
Yellowness.....+b	-.4541	-.4663	-.4867	-.1467	+1602	-.0249	-.0337	-.0872	+1983	+2934	-.6347	+4755	-.6514	-.7280	+5866	+1604	-.0949	
Composite.....index	+3618	+4953	+5269	+2269	-.1508	-.1402	-.1373	+0444	-.0765	-.2511	+5694	-.4174	+5839	+6825	-.5041	-.1419	+1217	
Color-22s dyed yarn:																		
Reflectance.....Rd	-.5664	-.3595	-.4826	-.3918	-.2306	+0550	+0505	+1064	+2742	+2776	-.3351	-.1375	-.4160	-.2682	-.0460	+2771	+0717	
Blueness.....+b	+6463	+5136	+5088	+4233	+3621	-.0075	+0023	-.0017	-.3243	-.3984	+4024	+0860	+4752	+3911	-.0332	-.3839	-.1841	
Composite.....index	+6605	+4868	+5333	+4206	+3335	-.0398	-.0296	-.0599	-.3026	-.3644	+3962	+1301	+4780	+3551	+0155	-.3691	-.1649	

Table 11.--Continued

Item	Yarn strength		Yarn elongation		Yarn appearance		Yarn impurities		Trash in Fabric	Color-22s grey yarn			Color-22s bleached yarn			Color-22s dyed yarn		
	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex	22s or 26.8tex	50s or 11.8tex		Reflectance	Yellowness	Composite	Reflectance	Yellowness	Composite	Reflectance	Blueness	Composite
	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.		Index	R <sub>a</sub>	+b	Index	R <sub>a</sub>	+b	Index	R <sub>a</sub>	-b
<b>Sample Distribution:</b>																		
Mean.....	136.2	50.2	6.48	5.28	99.4	90.8	35.6	26.0	85.9	70.8	11.3	98.1	83.5	2.8	102.3	27.6	25.9	102.2
Standard deviation (+)...	7.2	3.4	.39	.44	7.7	7.8	10.7	7.8	6.8	2.5	.4	4.4	1.0	.3	3.2	.8	.5	3.5
<b>Correlation Coef. for:</b>																		
<b>Classification:</b>																		
Grade.....index	+5638	+4684	+2409	+1934	+2604	+1875	-2660	-2000	+5237	+5126	-.0151	+6650	+3163	-.4541	+3618	-.5664	+6463	+6605
Staple.....32d inches	+3766	+4264	+3862	+2977	+2968	+0660	-3283	-2865	+3949	+3685	-.0949	+3825	+4661	-.4663	+4953	-.3595	+5136	+4868
<b>Fiber length:</b>																		
2-5% span.....inches	+4777	+5270	+4422	+2698	+1964	+0643	-1245	-.0941	+1081	+3040	+0581	+3646	+4840	-.4867	+5286	-.4826	+5088	+5333
50/2.5 unif.....percent	+1306	+1388	+0720	-.0015	+2347	+1753	-.2801	-.2716	+0050	-.0510	+1614	-.0064	+2431	-.1467	+2269	-.3918	+4233	+4206
<b>Micronaire.....reading</b>																		
Fiber strength:	-2506	-2668	-3562	-5003	+6049	+5029	-6061	-.6761	+0221	-.4289	+3860	-.3647	-.1233	+1602	-.1508	-.2306	+3621	+3335
Zero gauge.....1,000 psi	+2432	+1221	-.1962	-.2130	+1918	+0905	-.1550	-.1465	+2362	+0606	-.1443	.0000	-.9161	-.0249	-.1402	+0550	-.0075	-.0398
1/8" gauge.....grams/tex	+2359	+1118	-.1895	-.2083	+1967	+0914	-.1570	-.1523	+2308	+0593	-.1382	+0018	-.1931	-.0337	-.1373	+0505	-.0023	-.0296
Elongation (1/8")...pet	+4211	+3547	-.0186	+0166	+0950	-.0667	+1369	+1053	+0280	+0718	-.2073	+0061	+0063	-.0872	+0444	+1064	-.0017	-.0599
<b>Shirley Analyzer:</b>																		
Visible waste...percent	-2776	-1990	+0212	+1616	-.3793	-.3454	+4892	+4886	-.4162	-.1486	+1696	-.1124	-.0405	-.1983	-.0765	+2742	-.3243	-.3026
Total waste.....percent	-3307	-3112	-.1761	-.0045	-.4536	-.3036	+4357	+4442	-.3768	-.2769	+1943	-.2420	-.2455	+2934	-.2511	+2776	-.3984	-.3644
<b>Color of raw stock:</b>																		
Reflectance.....R <sub>d</sub>	+5747	+5421	+4331	+4739	-.1023	-.1286	+1173	+1778	+3906	+9315	-.3871	+9146	+5006	-.6347	+5694	-.3351	+4024	+3962
Yellowness.....+b	-.4199	-.4315	-.3675	-.4614	+3711	+3907	-.4163	-.4567	-.1206	-.6663	+7234	-.5208	-.3403	+4755	-.4174	-.1375	+0860	+1301
Composite.....index	+5753	+5385	+4230	+4501	-.0704	-.0856	+0894	+1472	+3494	+9245	-.3169	+9360	+5162	-.6514	+5839	-.4160	+4752	+4780
<b>Color of cleaned lint:</b>																		
Reflectance.....R <sub>d</sub>	+5817	+5454	+4567	+5229	-.0965	-.1388	+1299	+1695	+3630	+9455	-.4662	+9139	+6066	-.7280	+6825	-.2682	+3911	+3551
Yellowness.....+b	-.5438	-.5516	-.5070	-.5478	+2439	+2393	-.2538	-.2633	-.2599	-.7289	+6847	-.6140	-.4166	+5866	-.5041	-.0460	-.0332	+0155
Picker & card waste...pet	-2724	-2632	+0507	+1531	-.5396	-.3888	+3556	+4371	-.3326	-.2107	+2846	-.1414	-.1731	+1604	-.1419	+2771	-.3839	-.3691
Neps in card web...number	+0963	+0583	-.0604	+1983	-.6992	-.7758	+4868	+6005	-.1545	+1741	+1319	+2443	+1088	-.0949	+1217	+0717	-.1841	-.1649
<b>Yarn skein strength:</b>																		
22s (26.8 tex)...pounds		+9429	+4851	+4819	+0476	-.0933	+1457	+1538	+3273	+6324	-.3308	+5945	+4504	-.4701	+4765	-.3019	+3236	+3265
50s (11.8 tex)...pounds	+9429		+5760	+5688	+0056	-.1873	+1964	+1939	+2441	+5903	-.3060	+5588	+4495	-.4731	+4800	-.2904	+3306	+3250
<b>Yarn elongation:</b>																		
22s (26.8 tex)...percent	+4851	+5760	+8594	+8594	-.0039	-.0031	+1038	+0947	+0893	+3768	-.1453	+3913	+5011	-.5385	+5603	-.1628	+1224	+1433
50s (11.8 tex)...percent	+4819	+5888	+8594	+8594	-.3155	-.3413	+3589	+3774	+0197	+4056	-.1299	+4373	+3963	-.4268	+4371	-.1559	+0636	+0958
<b>Yarn appearance:</b>																		
22s (26.8 tex)...index	+0476	+0056	-.0039	-.3155	+8145	-.7569	-.8159	+3216	-.0110	-.1391	-.0776	+0436	-.1631	+0704	-.1339	+3503	+2912	
50s (11.8 tex)...index	-.0933	-.1873	-.0031	-.3413	+8145	-.7290	-.7955	+3168	-.0978	-.0941	-.1501	-.0371	+0041	-.0287	-.0698	+1726	+1536	
<b>Yarn imperfections:</b>																		
22s (26.8 tex)...number	+1457	+1964	+1038	+3589	-.7569	-.7290	+9560	+9560	-.5370	+0999	-.0329	+1198	+1017	+1122	+0444	+1662	-.3516	-.2970
50s (11.8 tex)...number	+1538	+1939	+0947	+3774	-.8159	-.7955	+9560	+9560	-.4938	+1348	.0000	+1660	+0710	+1084	+0261	+1204	-.3441	-.2764
Trash in fabric.....index	+3273	+2141	+0893	+0197	+3216	+3168	-.5370	-.4938		+3799	-.2623	+3039	+1421	-.2565	+1733	-.0261	+2124	+1562
<b>Color-22s grey yarn:</b>																		
Reflectance.....R <sub>d</sub>	+6324	+5903	+3768	+4056	-.0110	-.0978	+0999	+1348	+3799	-.4771	+9562	+6082	-.7290	+6787	-.2694	+4433	+3897	
Yellowness.....+b	-.3308	-.3060	-.1453	-.1299	-.1391	-.0941	-.0329	.0000	-.2623	-.4771	-.2134	-.1636	+3657	-.2400	-.2810	+0669	+1872	
Composite.....index	+5945	+5588	+3913	+4373	-.0776	-.1501	+1198	+1660	+3039	+9562	-.2134	+5983	-.7001	+6615	-.4189	+5127	+5048	
<b>Color-22s bleached yarn:</b>																		
Reflectance.....R <sub>d</sub>	+4504	+4495	+5011	+3963	+0436	-.0371	+1017	+0710	+1421	+6082	-.1636	+5983	-.6659	+9618	-.0786	+2431	+1895	
Yellowness.....+b	-.4701	-.4731	-.5385	-.2688	-.1631	+0041	+1122	+1084	-.2565	-.7290	+3657	-.7001	-.6659	-.8267	+1974	-.4511	-.3487	
Composite.....index	+4765	+4800	+5603	+4371	+0704	-.0287	+0444	+0261	+1733	+6787	-.2400	+6615	+9618	-.8267	-.0917	+3447	+2353	
<b>Color-22s dyed yarn:</b>																		
Reflectance.....R <sub>d</sub>	-.3019	-.2904	-.1628	-.1559	-.1339	-.0698	+1662	+1204	-.0261	-.2694	-.2810	-.4189	-.0786	+1974	-.0917	-.7660	-.9155	
Blueness.....-b	+3236	+3306	+1224	+0636	+3503	+1726	-.3516	-.3441	+2124	+4433	+0669	+5127	+2431	-.4511	+3147	-.7660	+9556	
Composite.....index	+3265	+3250	+1433	+0958	+2912	+1536	-.2970	-.2764	+1562	+3897	+1872	+5048	+1895	-.3487	+2353	-.9115	+9556	



Table 12.--Cotton: Results of multiple correlation analyses for the relationship of classification and supplemental fiber test measurements with processing tests performed on 491 medium staple samples, collected at triweekly intervals from selected gin points, crop of 1962

Statistical Items	Dependent Variables													
	Picker & card waste	Neps in card web	Yarn skein strength		Yarn elongation		Yarn appearance		Yarn imperfections		Trash in fabric	Color of 22s yarn		
			22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex		Grey yarn	Bleached yarn	Dyed yarn
Pct.	No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.	Index	Index	Index	Index	
<b>Mean Values for:</b>														
Dependent variable.....	7.8	25	104	35	5.7	4.4	110	98	26	19	92	98	101	103
Grade index.....	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Staple length.....	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
Micronaire.....	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Fiber strength (0 gauge)...	84	84	84	84	84	84	84	84	84	84	84	84	84	84
Uniformity ratio.....	45	45	45	45	45	45	45	45	45	45	45	45	45	45
<b>Standard Deviations (+) for:</b>														
Dependent variable.....	1.0	10.4	10.8	5.6	.4	.5	8	8	9	7	9	4.8	2.8	5.3
Grade index.....	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Staple length.....	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
Micronaire.....	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
Fiber strength (0 gauge)...	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Uniformity ratio.....	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
<b>Simple Correlation Coef. for:</b>														
Grade index.....	-.58	-.12	+.40	+.31	+.29	+.28	+.07	+.13	-.43	-.36	+.51	+.75	+.08	+.43
Staple length.....	-.09	-.26	+.51	+.57	+.20	+.34	+.24	+.24	-.10	-.16	+.30	+.12	+.16	+.27
Micronaire.....	-.27	-.54	+.03	-.02	-.16	-.02	+.53	+.46	-.56	-.02	+.08	+.25	+.16	+.36
Fiber strength (0 gauge)...	-.14	-.27	+.49	+.48	-.26	-.07	+.20	+.15	-.08	-.14	+.07	+.17	-.15	+.11
Uniformity ratio.....	-.25	-.51	+.59	+.59	+.22	+.37	+.40	+.45	-.38	-.46	+.20	+.35	-.05	+.45
<b>Multiple Cor. Data for:</b>														
<b>DEPENDENT VARIABLE with</b>														
<b>GRADE INDEX, STAPLE LENGTH</b>														
Multiple Cor. Coef. ....	.58	.28	.64	.64	.35	.44	.25	.27	.44	.39	.52	.76	.18	.50
Partial Cor. Coef. for:														
Grade index.....	-.58	-.12	+.45	+.36	+.29	+.29	+.07	+.13	-.43	-.36	+.52	+.75	+.08	+.44
Staple length.....	-.10	-.25	+.54	+.59	+.20	+.35	+.24	+.24	-.10	-.16	+.11	+.15	+.16	+.28
<b>Beta Coefficients for:</b>														
Grade index.....	-.58	-.12	+.39	+.30	+.29	+.28	+.07*	+.12	-.43	-.36	+.52	+.75	+.08*	+.43
Staple length.....	-.08	-.25	+.50	+.56	+.19	+.33	+.23	+.24	-.09*	-.15	-.09*	+.10	+.15	+.25
<b>Regression Equation:</b>														
Constant (a).....	+22.98	+162.67	-215.15	-133.86	-.56	-5.22	+21.03	-2.50	+135.37	+111.16	+36.39	+4.22	+78.09	-1.86
Regression Coef. for:														
Grade index.....	-.12	-.26	+.89	+.35	+.03	+.03	+.11	+.20	-.78	-.50	+.94	+.77	+.05	+.48
Staple length.....	-.10	-3.33	+6.89	+3.99	+.11	+.20	+2.31	+2.39	-1.02	-1.29	-1.05	+.60	+.55	+1.74
Standard Error (+).....	.82	9.93	8.32	4.28	.42	.43	7.46	7.45	7.70	6.10	7.39	3.16	2.74	4.61
<b>DEPENDENT VARIABLE with</b>														
<b>GRADE INDEX, STAPLE LENGTH, MICRONAIRE</b>														
Multiple Cor. Coef. ....	.60	.57	.66	.67	.44	.50	.56	.49	.64	.64	.56	.76	.21	.55
Partial Cor. Coef. for:														
Grade index.....	-.55	+.01	+.48	+.41	+.36	+.35	-.07	+.02	-.36	-.28	+.48	+.74	+.05	+.39
Staple length.....	-.07	-.21	+.56	+.61	+.25	+.39	+.19	+.21	-.04	-.11	+.14	+.13	+.14	+.26
Micronaire.....	-.16	-.51	-.18	-.23	-.29	-.27	+.52	+.43	-.51	-.55	+.23	+.08	+.12	+.26
<b>Beta Coefficients for:</b>														
Grade index.....	-.54	+.01*	+.42	+.34	+.36	+.34	-.06*	+.02*	-.31	-.23	+.46	+.74	+.05*	+.37
Staple length.....	-.06*	-.18	+.52	+.59	+.23	+.37	+.16	+.18	-.03*	-.08*	-.12	+.09	+.14	+.22
Micronaire.....	-.13	-.51	-.15	-.18	-.29	-.26	+.52	+.43	-.48	-.52	+.21	+.05*	+.12*	+.23
<b>Regression Equation:</b>														
Constant (a).....	+23.06	+166.09	-214.10	-133.19	-.47	-5.14	+18.41	-4.66	+138.05	+113.43	+35.23	+4.05	+77.87	-2.67
Regression Coef. for:														
Grade index.....	-.12	+.02	+.97	+.40	+.03	+.03	-.10	+.03	-.57	-.32	+.85	+.75	+.03	+.42
Staple length.....	-.08	-2.42	+7.17	+4.17	+.13	+.22	+1.62	+1.82	-.32	-.70	-1.35	+.55	+.49	+1.52
Micronaire.....	-.34	-13.78	-4.14	-2.66	-.33	-.32	+10.41	+8.56	-10.61	-8.99	+4.62	+.66	+.89	+3.24
Standard Error (+).....	.81	8.52	8.18	4.16	.40	.42	6.39	6.74	6.62	5.11	7.19	3.15	2.72	4.46

\* Statistically insignificant.

Table 12.--Continued

Statistical Items	Dependent Variables													Color of 22s yarn			
	Picker & card waste	Neps in card web	Yarn skein strength		Yarn elongation		Yarn appearance		Yarn imperfections		Trash in fabric	Grey yarn	Bleached yarn	Dyed yarn			
			22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex							
			Pct.	No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index					No.	No.	Index
DEPENDENT VARIABLE with GRADE INDEX, STAPLE LENGTH, MICRONAIRE, FIBER STRENGTH (0 GAUGE)																	
Multiple Cor. Coef.....	.60	.59	.72	.73	.58	.55	.57	.49	.64	.64	.56	.76	.31	.55			
Partial Cor. Coef. for:																	
Grade index.....	-.54	+.04	+.47	+.39	+.43	+.39	-.09	+.01	-.37	-.27	+.47	+.73	+.08	+.40			
Staple length.....	-.06	-.15	+.50	+.56	+.37	+.44	+.15	+.18	-.05	-.09	-.14	+.12	+.20	+.26			
Micronaire.....	-.15	-.52	-.22	-.27	-.30	-.27	+.52	+.42	+.51	-.54	+.23	+.08	+.13	+.26			
Fiber str. (0 gauge).....	-.03	-.21	+.40	+.40	-.42	-.25	+.12	+.05	+.05	-.03	+.02	+.04	-.23	-.05			
Beta Coefficients for:																	
Grade index.....	-.54	+.03*	+.38	+.30	+.41	+.37	-.07*	+.01*	-.32	-.22	+.46	+.73	+.06*	+.37			
Staple length.....	-.05*	-.13	+.43	+.49	+.35	+.43	+.13	+.17	-.04*	-.07*	-.13	+.08*	+.21	+.24			
Micronaire.....	-.13	-.51	-.16	-.20	-.27	-.25	+.52	+.42	-.48	-.52	+.21	+.05*	+.13	+.24			
Fiber str. (0 gauge).....	-.03*	-.18	+.32	+.31	-.40	-.23	+.11*	+.04*	+.04*	-.03*	+.02*	+.03*	-.24	-.04*			
Regression Equation:																	
Constant (a).....	+23.06	+165.98	-213.90	-133.08	-.48	-5.15	+18.46	-4.64	+138.07	+113.42	+35.24	+4.06	+77.83	-2.69			
Regression Coef. for:																	
Grade index.....	-.12	+.07	+.87	+.36	+.04	+.04	-.12	+.02	-.57	-.31	+.85	+.75	+.05	+.42			
Staple length.....	-.07	-1.72	+5.88	+3.52	+.20	+.27	+1.31	+.02	-.44	-.63	+.50	+.50	+.74	+1.61			
Micronaire.....	-.34	-13.59	-4.51	-2.84	-.31	-.31	+10.32	+8.52	-10.64	-8.97	+4.61	+.64	+.96	+3.26			
Fiber str. (0 gauge).....	-.00	-.35	+.65	+.33	-.03	-.02	+.16	+.07	+.06	-.04	+.03	+.03	-.12	-.04			
Standard Error (+).....	.81	8.33	7.51	3.82	.36	.40	6.34	6.73	6.61	5.11	7.19	3.15	2.65	4.45			
DEPENDENT VARIABLE with GRADE INDEX, STAPLE LENGTH, MICRONAIRE, FIBER STRENGTH (0 GAUGE), UNIFORMITY RATIO																	
Multiple Cor. Coef.....	.60	.65	.81	.83	.65	.66	.59	.55	.64	.66	.56	.76	.33	.59			
Partial Cor. Coef. for:																	
Grade index.....	-.53	+.13	+.40	+.30	+.37	+.31	-.14	-.06	-.33	-.21	+.46	+.72	+.11	+.34			
Staple length.....	-.06	-.10	+.49	+.57	+.34	+.41	+.12	+.14	-.03	-.05	-.14	+.10	+.22	+.22			
Micronaire.....	-.15	-.44	-.41	-.48	-.41	-.42	+.45	+.34	+.46	+.48	+.22	+.04	+.17	+.17			
Fiber str. (0 gauge).....	-.03	-.12	+.31	+.31	-.50	-.38	+.07	-.03	+.08	+.03	+.02	+.02	-.19	-.11			
Uniformity ratio.....	+.02	-.32	+.52	+.57	+.36	+.45	+.21	+.29	-.13	-.22	-.02	+.09	-.13	+.25			
Beta Coefficients for:																	
Grade index.....	-.54	+.10*	+.28	+.19	+.33	+.26	-.12	-.06*	-.29	-.18	+.47	+.72	+.12*	+.32			
Staple length.....	-.06*	-.08*	+.36	+.42	+.29	+.36	+.10*	+.12	-.02*	-.12	+.07*	+.23	+.07*	+.20			
Micronaire.....	-.14	-.41	-.29	-.34	-.38	-.39	+.45	+.33	-.44	-.46	+.21	+.03*	+.18	+.16			
Fiber str. (0 gauge).....	-.03*	-.11*	+.21	+.20	-.48	-.34	+.06*	-.03*	+.07*	+.02*	+.02*	+.01*	-.20	-.10*			
Uniformity ratio.....	+.02*	-.32	+.44	+.48	+.35	+.46	+.21	+.31	-.12	-.21	-.02*	+.07*	-.15	+.26			
Regression Equation:																	
Constant (a).....	+22.95	+188.90	-247.36	-151.75	-1.59	-6.71	+7.03	-21.24	+145.19	+123.16	+36.52	+1.62	+80.85	-12.41			
Regression Coef. for:																	
Grade index.....	-.12	+.23	+.64	+.23	+.03	+.03	-.20	-.09	-.53	-.25	+.86	+.73	+.07	+.36			
Staple length.....	-.07	-1.08	+4.95	+2.99	+.17	+.22	+.99	+1.23	-.24	-.36	-1.37	+.43	+.82	+1.33			
Micronaire.....	-.35	-11.02	-8.27	-4.94	-.44	-.48	+9.03	+6.66	-9.84	-7.87	+4.75	+.37	+1.30	+2.17			
Fiber str. (0 gauge).....	-.01	-.21	+.44	+.21	-.04	-.03	+.09	-.04	+.11	+.03	+.03	+.01	-.11	-.10			
Uniformity ratio.....	+.01	-1.87	+2.73	+1.52	+.09	+.13	+.93	+1.35	-.58	-.79	-.10	+.20	-.25	+.79			
Standard Error (+).....	.81	7.89	6.41	3.14	.34	.36	6.20	6.45	6.56	4.98	7.19	3.13	2.63	4.30			

\* Statistically insignificant.

Table 13.--Cotton: Results of multiple correlation analyses for the relationship of selected fiber test measurements with processing tests performed on 491 medium staple samples, collected at triweekly intervals from selected gin points, crop of 1962

Statistical Items	Dependent Variables													
	Picker & card waste	Neps in card web	Yarn skein strength		Yarn elongation		Yarn appearance		Yarn imperfections		Trash in fabric	Color of 22s yarn		
			22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex		Grey yarn	Bleached yarn	Dyed yarn
Pct.	No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.	Index	Index	Index	Index	
<b>Mean Values for:</b>														
Dependent variable.....	7.8	25	104	35	5.7	4.4	110	98	26	19	92	98	101	103
Color index.....	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Nonlint content (S.A.).....	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2.5% span length.....	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Micronaire.....	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Fiber str. (1/8" gauge).....	21.8	21.8	21.8	21.8	21.8	21.6	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
<b>Standard Deviations (+) for:</b>														
Dependent variable.....	1.0	10.4	10.8	5.6	.4	.5	8	8	9	7	9	4.8	2.8	5.3
Color index.....	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Nonlint content (S.A.).....	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
2.5% span length.....	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03
Micronaire.....	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
Fiber str. (1/8" gauge).....	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
<b>Simple Correlation Coef. for:</b>														
Color index.....	-.53	-.12	+.55	+.46	+.41	+.43	+.04	+.09	-.37	-.32	+.44	+.89	+.21	+.44
Nonlint content (S.A.).....	+.66	+.01	-.19	-.11	-.28	-.22	-.08	-.03	+.42	+.33	-.41	-.47	-.10	-.27
2.5% span length.....	-.05	-.17	+.47	+.54	+.32	+.45	+.16	+.23	-.05	-.10	-.17	+.11	+.16	+.34
Micronaire.....	-.27	-.54	+.03	-.02	-.16	-.12	+.53	+.46	-.56	-.59	+.30	+.25	+.16	+.36
Fiber str. (1/8" gauge).....	-.20	-.23	+.74	+.76	+.21	+.40	+.15	+.20	-.04	-.10	+.02	+.33	-.05	+.36
<b>Multiple Cor. Data for:</b>														
<b>DEPENDENT VARIABLE with</b>														
<b>COLOR INDEX, NONLINT</b>														
Multiple Cor. Coef. ....	.68	.15	.58	.51	.41	.44	.08	.10	.44	.37	.47	.89	.21	.44
<b>Partial Cor. Coef. for:</b>														
Color index.....	-.21	-.15	+.56	+.51	+.32	+.39	-.01	+.10	-.16	-.16	+.26	+.86	+.19	+.36
Nonlint.....	+.50	-.09	+.22	+.25	-.03	+.07	-.07	+.04	+.26	+.18	-.20	+.20	+.04	.00
<b>Beta Coefficients for:</b>														
Color index.....	-.20	-.19	+.69	+.64	+.39	+.48	-.02*	+.12	-.19	-.19	+.30	+.96	+.24	+.44
Nonlint.....	+.54	-.11*	+.24	+.28	-.04*	+.08*	-.09*	+.05*	+.31	+.22	-.23	+.12	+.05*	-.01*
<b>Regression Equation:</b>														
Constant (a).....	+11.02	+74.57	-80.74	-52.91	+1.70	-1.16	+114.95	+73.96	+56.65	+45.24	+36.19	-13.05	+84.97	+48.27
<b>Regression Coef. for:</b>														
Color index.....	-.05	-.48	+1.83	+.86	+.04	+.06	-.03	+.23	-.39	-.31	+.63	+1.13	+.16	+.57
Nonlint.....	+.59	-1.23	+2.83	+1.71	-.02	+.04	-.78	+.43	+2.88	+1.57	-2.18	+.61	+.16	-.03
Standard Error (+).....	.74	10.23	8.83	4.78	.41	.43	7.67	7.71	7.68	6.16	7.62	2.19	2.72	4.79
<b>DEPENDENT VARIABLE with</b>														
<b>COLOR INDEX, NONLINT,</b>														
<b>2.5% SPAN LENGTH</b>														
Multiple Cor. Coef. ....	.68	.21	.70	.69	.50	.59	.19	.24	.45	.38	.51	.89	.25	.53
<b>Partial Cor. Coef. for:</b>														
Color index.....	-.19	-.12	+.54	+.49	+.27	+.34	-.05	+.06	-.15	-.14	+.30	+.85	+.17	+.31
Nonlint.....	+.50	-.06	+.16	+.19	-.09	-.01	-.10	.00	+.27	+.19	-.17	+.20	+.02	-.07
2.5% span length.....	-.09	-.15	+.48	+.54	+.32	+.44	+.18	+.22	-.06	-.10	-.21	-.01	+.13	+.33
<b>Beta Coefficients for:</b>														
Color index.....	-.18	-.15*	+.60	+.52	+.32	+.38	-.06*	+.07*	-.17	-.17	+.34	+.96	+.21	+.36
Nonlint.....	+.55	-.08*	+.15	+.18	-.10*	-.01*	-.13*	.00*	+.32	+.24	-.19	+.12	+.02*	-.07*
2.5% span length.....	-.07*	-.15	+.40	+.47	+.30	+.41	+.18	+.22	-.05*	-.09*	-.19	.00*	+.13	+.30
<b>Regression Equation:</b>														
Constant (a).....	+12.92	+116.67	-195.73	-123.23	-1.42	-6.42	+78.01	+27.53	+68.52	+61.88	+80.54	-12.41	+75.09	+4.82
<b>Regression Coef. for:</b>														
Color index.....	-.04	-.38	+1.57	+.71	+.03	+.04	-.11	+.13	-.36	-.27	+.72	+1.13	+.14	+.47
Nonlint.....	+.61	-.85	+1.79	+1.08	-.05	-.01	-1.11	+.02	+2.99	+1.72	-1.79	+.62	+.07	-.42
2.5% span length.....	-2.24	-49.62	+135.54	+82.87	+4.15	+6.20	+43.53	+54.73	-13.98	-19.61	-52.26	-.75	+11.65	+51.21
Standard Error (+).....	.74	10.11	7.77	4.04	.38	.39	7.55	7.52	7.67	6.13	7.45	2.19	2.70	4.52

\* Statistically insignificant.

Table 13.--Continued

Statistical Items	Dependent Variables													
	Picker & card waste	Neps in card web	Yarn skein strength		Yarn elongation		Yarn appearance		Yarn imperfections		Trash in fabric	Color of 22s yarn		
			22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex	22s or 26.8 tex	50s or 11.8 tex		Grey yarn	Bleached yarn	Dyed yarn
			Pct.	No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index		No.	No.	Index
<b>DEPENDENT VARIABLE with COLOR INDEX, NONLINT, 2.5% SPAN LENGTH, MICRONAIRE</b>														
Multiple Cor. Coef.....	.69	.57	.70	.70	.58	.64	.54	.49	.65	.64	.56	.90	.27	.59
Partial Cor. Coef. for:														
Color index.....	-.19	-.14	+.54	+.49	+.29	+.36	-.06	+.06	-.17	-.16	+.31	+.86	+.17	+.33
Nonlint.....	+.48	-.19	+.14	+.15	-.16	-.07	-.01	+.09	+.20	+.11	-.12	+.25	+.04	-.01
2.5% span length.....	-.07	-.08	+.49	+.56	+.38	+.49	+.11	+.17	+.03	-.01	-.26	-.05	+.11	+.30
Micronaire.....	-.16	-.54	-.13	-.18	-.34	-.31	+.51	+.44	-.52	-.56	+.28	+.27	+.12	+.29
Beta Coefficients for:														
Color index.....	-.18	-.15	+.60	+.52	+.32	+.38	-.06*	+.07*	-.17	-.17	+.34	+.96	+.21	+.36
Nonlint.....	+.52	-.20	+.13	+.14	-.17	-.07*	-.01*	+.11*	+.20	+.11*	-.13*	+.15	+.05*	-.01*
2.5% span length.....	-.05*	-.07*	+.41	+.49	+.34	+.45	+.10*	+.16	+.02*	-.01*	-.23	-.02*	+.11*	+.26
Micronaire.....	-.12	-.55	-.09	-.14	-.30	-.26	+.52	+.45	-.49	-.54	+.25	+.33	+.12*	+.26
Regression Equation:														
Constant (a).....	+13.76	+155.98	-188.63	-117.96	-.89	-5.55	+50.09	+3.53	+97.41	+86.48	+65.60	-16.62	+72.84	-4.73
Regression Coef. for:														
Color index.....	-.04	-.38	+1.57	+.71	+.03	+.04	-.12	+.13	-.36	-.27	+.72	+1.13	+.14	+.47
Nonlint.....	+.58	-2.31	+1.53	+.09	-.08	-.04	-.08	+.90	+1.92	+.81	-1.23	-.77	+.15	-.07
2.5% span length.....	-1.66	-22.25	+140.48	+86.54	+4.80	+6.80	+24.10	+38.02	+6.12	-2.48	-62.66	-3.68	+10.08	+44.57
Micronaire.....	-.31	-14.75	-2.67	-1.98	-.35	-.33	+10.47	+9.01	-10.84	-9.23	+5.61	+1.58	+.84	+3.58
Standard error (+).....	.73	8.50	7.70	3.97	.36	.37	6.48	6.73	6.53	5.09	7.15	2.11	2.68	4.32
<b>DEPENDENT VARIABLE with COLOR INDEX, NONLINT, 2.5% SPAN LENGTH, MICRONAIRE, FIBER STRENGTH (1/8" GAUGE)</b>														
Multiple Cor. Coef.....	.69	.58	.84	.85	.58	.66	.55	.50	.66	.64	.57	.90	.35	.60
Partial Cor. Coef. for:														
Color index.....	-.15	-.08	+.42	+.34	+.27	+.28	-.08	+.03	-.22	-.18	+.32	+.85	+.24	+.26
Nonlint.....	+.49	-.16	+.04	+.05	-.16	-.10	-.02	+.08	+.17	+.09	-.10	+.26	+.08	-.03
2.5% span length.....	-.04	-.04	+.38	+.49	+.36	+.43	+.08	+.14	-.03	-.04	-.21	-.03	+.18	+.25
Micronaire.....	-.15	-.54	-.23	-.32	-.33	-.33	+.51	+.44	-.54	-.56	+.29	+.27	+.14	+.29
Fiber str. (1/8" gauge).....	-.08	-.12	+.64	+.68	-.01	+.18	+.08	+.08	+.17	+.09	-.11	-.08	-.22	+.12
Beta Coefficients for:														
Color index.....	-.15	-.10*	+.36	+.27	+.32	+.31	-.10*	+.03*	-.24	-.20	+.39	+.98	+.32	+.31
Nonlint.....	+.54	-.18	+.03*	+.04*	-.17	-.10*	-.03*	+.09*	+.17	+.10*	-.11*	+.15	+.10*	-.03*
2.5% span length.....	-.03*	-.03*	+.25	+.32	+.34	+.40	+.07*	+.15	+.02*	-.04*	-.20	-.01*	+.19	+.23
Micronaire.....	-.11	-.54	-.14	-.18	-.30	-.27	+.52	+.44	-.50	-.54	+.26	+.13	+.14	+.29
Fiber str. (1/8" gauge).....	-.07*	-.12	+.54	+.57	-.01*	+.17	+.08*	+.08*	+.15	-.08*	-.10*	-.04*	-.25	+.12
Regression Equation:														
Constant (a).....	+13.07	+144.32	-133.33	-87.60	-.93	-4.79	+56.12	+9.65	+109.98	+91.38	+57.02	-18.46	+66.11	+1.32
Regression Coef. for:														
Color index.....	-.04	-.24	+.94	+.36	+.03	+.04	-.19	+.06	-.50	-.32	+.82	+1.15	+.22	+.40
Nonlint.....	+.59	-2.05	+.31	+.22	-.08	-.05	+.21	+.77	+1.64	+.71	-1.04	+.82	+.30	-.20
2.5% span length.....	-.96	-10.46	+84.53	+55.83	+4.83	+6.03	+18.01	+31.82	-6.59	-7.44	-53.98	-1.83	+16.89	+38.44
Micronaire.....	-.30	-14.51	-3.84	-2.62	-.35	-.34	+10.35	+8.88	-11.11	-9.33	+5.79	+1.62	+.99	+3.45
Fiber str. (1/8" gauge).....	-.04	-.71	+3.36	+1.84	.00	+.05	+.37	+.37	+.76	+.30	-.52	-.11	-.41	+.37
Standard Error (+).....	.73	8.44	5.93	2.91	.36	.36	6.45	6.71	6.43	5.07	7.11	2.10	2.61	4.29

\* Statistically insignificant.

BASIS FOR INTERPRETATION

The following explanation of the data published in tables 1 through 8 of this report may be helpful in the interpretation of test results:

Classification

Classification was made in accordance with the Official Cotton Standards for grade and staple length. These results are presented under the usual terms for the individual lots but the grade values were converted to an index for averaging in the summary tables.

Grade index, as reported in the summary tables is designed to reflect differences in market value and provides a method for averaging the grade for a number of individual lots. Middling grade is used as the basis of 100 and higher or lower index numbers reflect higher or lower average market values, respectively. Index values for white, spotted, tinged and gray grades of upland cotton are shown below:

Grade name	Grade index for					
	White	Light Spotted	Spotted	Tinged	Light Gray	Gray
Good Middling	105	103	101	94	99	93
Strict Middling	104	102	99	91	98	91
Middling plus	102					
Middling	100	97	93	82	92	84
Strict Low Middling plus	97					
Strict Low Middling	94	89	83	75	85	75
Low Middling plus	90					
Low Middling	85	80	75	68		
Strict Good Ordinary plus	81					
Strict Good Ordinary	76					
Good Ordinary plus	73					
Good Ordinary	70					
Below Grade	60					

The grade of cotton, as the term is generally understood, is obtained by evaluating in relation to the official standards, the three factors of grade - color, leaf, and preparation in the sample. Grade usually provides an indication of waste content of a sample of cotton. Although, for individual samples, the quantity of waste removed is not always larger for the lower grades. Past experience has shown the average relationship between picker and card waste and various grades of upland cotton to be approximately as given in the tabulation shown in the subsequent section on manufacturing waste. In comparing these average grade figures with the picker

and card waste data, it should be understood that variations from the averages for individual samples are attributable to the nature of the extraneous material present in the cotton, the characteristics of the fiber, and whether the grade designation was low because of poor color.

Staple length provides an estimate of the length of a typical portion of the fibers in a sample of cotton, as determined by customary classing methods. Uniformity of fiber length, as well as other fiber properties, influence to some extent the classer's selection of the typical portion of the fibers on which the staple-length designation is based. In general, there is a fairly close relationship between the staple length as designated by the classer and the fineness and strength of the yarn that can be manufactured from the cotton. These relationships, however, are influenced by other fiber properties, the measurements of which will be discussed in the paragraphs which follow:

#### Fiber Tests

Fiber length data were obtained by the Digital Fibrograph method for the short, medium, and long staple American upland samples and by the array method for the extra long American Egyptian samples. Briefly, the Digital Fibrograph method consists of placing representative specimens of cotton weighing approximately 30 centigrams at random on a pair of combs, parallelizing the beards of cotton extending from one side of the combs, and scanning these beards photoelectrically on the instrument at 3 length intervals beginning at 0.15 inch from the teeth of the combs and ending near the outer fringe. The 2.5 percent span length and the 50/2.5 uniformity ratio values reported for each lot are based on two specimens tested by each of two technicians.

The Digital Fibrograph 2.5 percent span length values reported indicate the length which will be spanned by 2.5 percent of the fibers when they are parallel and randomly distributed. It is also the length where the amount of fibers on the Fibrograph curve is 2.5 percent of the amount of fibers reading at the starting point of 0.15 inch. These values are highly correlated with and are essentially equal to the Servo Fibrograph upper half mean length values reported in previous years. Both the Digital 2.5 percent span length and the Servo upper half mean length values are usually closely related to staple length designations. These relationships may vary, however, because they measure different fiber length characteristics.

The Digital Fibrograph 50/2.5 uniformity ratio values reported indicate the relative uniformity of fiber length in the samples. They represent the ratios between the 50 percent span length and the 2.5 percent span length expressed as percentages. These values are closely correlated with the Servo Fibrograph uniformity ratios reported in previous years but the results are much more reproducible and they are on a lower level. Digital 50/2.5 uniformity ratios of 40 to 45 are equivalent to Servo uniformity ratios of approximately 75 to 80. Larger values in both cases indicate more uniform

fiber length distribution. Unusually low fiber length uniformity tends to increase manufacturing waste, to make processing more difficult, and to lower the quality of the product. The following adjective descriptions will serve to classify cottons from the standpoint of fiber length uniformity:

Digital Fibrograph 50/2.5 uniformity ratio

Above 45.....Uniform in fiber length  
40 - 45.....Average length uniformity  
Below 40.....Irregular in fiber length

Array tests for the extra long staple American Egyptian samples were performed on the Suter-Webb fiber sorter. Briefly, this method consists of parallelizing the fibers in a representative 75-milligram specimen of cotton through a series of combs, separating the fibers into length groups at 1/8-inch intervals, and weighing the fibers in each length group. The upper quartile length and coefficient of variation values reported are based on specimens tested by each of two technicians.

The array upper quartile length values reported indicate the length which is exceeded by 25 percent of the weight of the fibers in the samples. They are usually closely related to and longer than the classer's staple designations. This relationship may vary, however, because the two methods measure different fiber length characteristics.

The array coefficient of length variation values reported indicate the relative variability of fiber length in the samples. They represent the standard deviation of the weight-length frequencies expressed as a percentage of the mean length. Smaller values indicate more uniform fiber length distributions. Excessive fiber length variation tends to increase manufacturing waste, to make processing more difficult, and to lower the quality of the product. It is, therefore, considered desirable for a cotton to have a low coefficient of variation. The following adjective descriptions will serve to classify cottons from the standpoint of fiber length variation:

Array coefficient of fiber length variation

Below 27.....Low variability  
27 to 34.....Average variability  
Above 34.....High variability

Fiber fineness and maturity were determined in combination by the Micronaire method. The Micronaire readings which indicate the resistance to the passage of air through a 50-grain specimen compressed to a given volume were made for each lot of cotton. A linear scale for the Micronaire instrument

was initially adopted to indicate a direct reading in micrograms-per-inch of fiber. Further studies, however, indicated a curvilinear relationship between Micronaire readings and actual weight-per-inch determinations on American upland cottons. As a result of these studies, a curvilinear scale for upland cotton was adopted in September 1950.

Micronaire readings for both American upland and American Egyptian cottons may differ from the actual weight-per-inch for specific samples depending upon the fiber characteristics of the samples. Because of these discrepancies, Micronaire results are reported in terms of "Micronaire reading" instead of micrograms-per-inch. These Micronaire readings are based on the American upland scale for all cottons instead of using a different scale for the American Egyptian cottons. This scale is now used internationally.

Fiber fineness contributes to yarn strength, particularly when fine numbers are spun, but it also tends to increase neppiness and to require a reduced rate of processing.

Fiber maturity is also an important factor affecting the appearance of yarns and fabrics, and is a desirable characteristic from the standpoint of low picker and card waste. Immature fibers are susceptible to the formation of neps, and contribute to lower yarn appearance grades. The desirability of Micronaire reading, therefore, depends on the specific end product or use of the cotton. The following descriptive terms may be applied to the Micronaire data shown in the tables:

#### Micronaire Readings

Below 3.0.....	Very fine
3.0 to 3.9.....	Fine
4.0 to 4.9.....	Average
5.0 to 5.9.....	Coarse
6.0 and above....	Very coarse

Fiber strength is an important factor in determining yarn strength. Cottons with good fiber strength usually give less trouble in the manufacturing processes than the weak fibered cottons. Tests for fiber strength were made without any space between the clamp jaws (0 gauge) using the Pressley flat bundle tester, and with a 1/8-inch spacer between the clamp jaws (1/8-inch gauge) using the Stelometer. Strength results from the Stelometer were controlled at the same level obtained on the Pressley instrument. This provided strength results similar to those reported previously and also furnishes a measure of fiber elongation. Comparative tests have shown that the results of the 1/8-inch gauge tests are more highly correlated with yarn strength than the results of 0 gauge tests. Results for both methods are reported, however, because the 0 gauge tests are still widely used by the cotton industry.



The results for the 0 gauge test are reported in the usual terms of thousand pounds per square inch and also in terms of grams per tex. The results reported may be converted to the other methods of expressing fiber strength by applying the following formulae:

$$(1) \quad S_2 = \frac{(S_1 + 0.12)}{10.81}$$

$$(2) \quad S_2 = \frac{S_3}{5.36}$$

$$(3) \quad S_3 = (S_1 + 0.12) \times 0.496$$

When  $S_1$  = Thousand pounds per square inch (Pressley 0 gauge)

$S_2$  = Strength-weight ratio (Pressley 0 gauge)

$S_3$  = Grams per tex (Pressley 0 gauge)

The following adjective ratings will assist in the interpretation of the 0 gauge fiber strength results reported and will facilitate comparisons between cottons:

#### Fiber Strength (0 Gauge)

<u>Thousand psi</u>	<u>Designation</u>	<u>Grams per tex</u>
Above 95	Very strong	Above 47
86 to 95	Strong	42 to 47
76 to 85	Average	37 to 42
66 to 75	Fair	32 to 37
Below 66	Weak	Below 32

The results of the 1/8-inch gauge tests are reported in terms of grams per tex rather than the index published in earlier years. A tex unit is equal to the weight in grams of 1,000 meters of the material. The decision to report strength measurements in terms of grams per tex was made in accordance with the recommendations of the American Society for Testing Materials (ASTM) and the International Standards Organization (ISO), and after consultation with various interested groups and individuals in the textile industry. Since there is a high degree of correlation between the 1.8-inch gauge strength test results and fiber length, cottons with short staple lengths would tend to have lower average strength values than would the long staple groups. Previous tests have shown the average relationship between staple length and fiber strength to be approximately as follows:

Fiber Strength (1/8-inch Gauge)

<u>Group Numbers and Staple Length</u>	<u>Average Strength grams per tex</u>
American upland:	
Group 1.--Short staple	19.5
Group 2.--Medium staple	21.7
Group 3.--Long staple	23.9
American Egyptian:	
Group 4.--Extra long staple	32.5

The fiber strength results as reported for 1/8-inch gauge tests may be converted to other methods of expressing fiber strength by applying the following formulae:

$$(1) S_5 = \frac{S_4}{6.80}$$

$$(2) S_6 = \frac{S_4}{.21692}$$

Where:  $S_4$  = Grams per tex (1/8-inch gauge)  
 $S_5$  = Strength weight ratio (1/8-inch gauge)  
 $S_6$  = Fiber strength index (1/8-inch gauge)

Fiber elongation results were obtained in connection with the 1/8-inch gauge strength tests and are reported both in the periodic and summary reports. These results will be used in analyses to evaluate the relationship of elongation with spinning test results. The following adjective ratings based on this year's tests will assist in the interpretation of the fiber elongation results reported and will facilitate the comparison between cottons:

Fiber elongation (1/8-inch gauge)

<u>Designation</u>	<u>Percent</u>
Very high	Above 7.6
High	6.7 to 7.6
Average	5.7 to 6.6
Low	4.7 to 5.6
Very low	Below 4.7

Nonlint content for the various lots was determined by the use of the Shirley Analyzer which separates the lint from the foreign matter. The total nonlint values reported include both visible and invisible loss. These results are distinguished from total picker and card waste in that practically no fiber is included; whereas textile mill wastes include appreciable amounts

of fiber. Based on tests made of bales of cotton used in the official standards for grade of upland cotton, the following scale has been developed to represent average percentages of nonlint for the various white grades as determined by the Shirley Analyzer:

Average nonlint content for white grades of upland cotton

<u>Grade of cotton</u>	<u>Nonlint content</u> <u>Percent</u>
Good Middling	2.4
Strict Middling	2.9
Middling	3.7
Strict Low Middling	5.1
Low Middling	7.6
Strict Good Ordinary	11.0
Good Ordinary	17.0

The following scale has been developed to represent the average nonlint content for grades of American Egyptian cotton:

Nonlint content for grades of American Egyptian cotton

<u>Grade of cotton</u>	<u>Nonlint content</u> <u>Percent</u>
1	1.9
2	2.4
3	3.3
4	4.7
5	6.5
6	8.8
7	11.5
8	14.7
9	18.3

The foregoing tabulations of nonlint content are based on Shirley Analyzer tests made on cotton used in the official grade standards. Differences between results obtained for individual lots and the percentages shown for the standards may be caused by two things: (1) There are intentional allowances for variations in trash content among bales in each standard grade (to offset differences in color and to provide a range for the grade) that may result in an overlap; (2) these data are based on weight and do not take into consideration the nature of trash, which may be as important as weight in determining the grade designation.

Color measurements were made on samples of both raw stock and Shirley Analyzer cleaned lint from each lot by using the Nickerson-Hunter Colorimeter. The basic color values reported are percentage reflectance in terms of  $R_d$

and yellowness in terms of +b. Increasing  $R_d$  values indicate increasing brightness of the cotton and increasing +b values indicate increasing degrees of yellowness.

The color of raw cotton is also reported as both a single index number and as a single code number. The index number is related to market value and is equivalent to the grade index described in the earlier section on classification. It also provides a method for averaging the composite color for a number of individual lots. The code number provides an identification of the color measurements for an individual lot with the color of the grade standards, but it cannot be used to average the composite color of a number of individual lots (figure 2). The first digit of this 3-digit code relates to grade as indicated by numbers 3 for Good Middling through 9 for Good Ordinary. The second digit of the code relates to placement within the grade as indicated by 0 for the upper half and by 5 for the lower half. The third digit in the code relates to yellowness as indicated by numbers 1 for the whitest side of the grade through 9 for the color of the yellow stained grades. The color values for the American upland samples may also be plotted on the diagram shown as figure 2, or those for American Egyptian samples may be plotted on the diagram shown as figure 3, for comparison with the color of the cotton in official grade standards.

#### Yarn Processing Tests

The results of yarn processing tests reported in this summary were obtained by newly adopted procedures which include heavier weights for laps, slivers and rovings than those used in previous years. These new procedures also include spinning from single roving instead of double roving for the two standard yarn numbers and the spinning of a third yarn number on selected samples to provide a small-scale measure of spinning end-breakage or spinning performance. These changes reflect similar changes that have taken place in the cotton textile industry including increased emphasis on running quality since the mid-1940's when long-draft systems were adopted for both the roving and spinning processes in the routine laboratory spinning test procedures. These changes were designed to bring the laboratory processing procedures more in line with current textile mill practices and thus make the processing evaluations more applicable to present day mill operations. The processing results previously reported for 1960 and earlier crop years may be compared with those reported this year after proper adjustments to make them comparable. The level of the results obtained by the newly adopted procedures as compared to those published in recent years are as follows:

1. Results on essentially the same level:
  - a. Picker and card waste
  - b. Neps in card web
  - c. Strength of combed 22s, 50s, and 80s yarns
  - d. Appearance of carded and combed yarns
  - e. Imperfections in carded and combed yarns

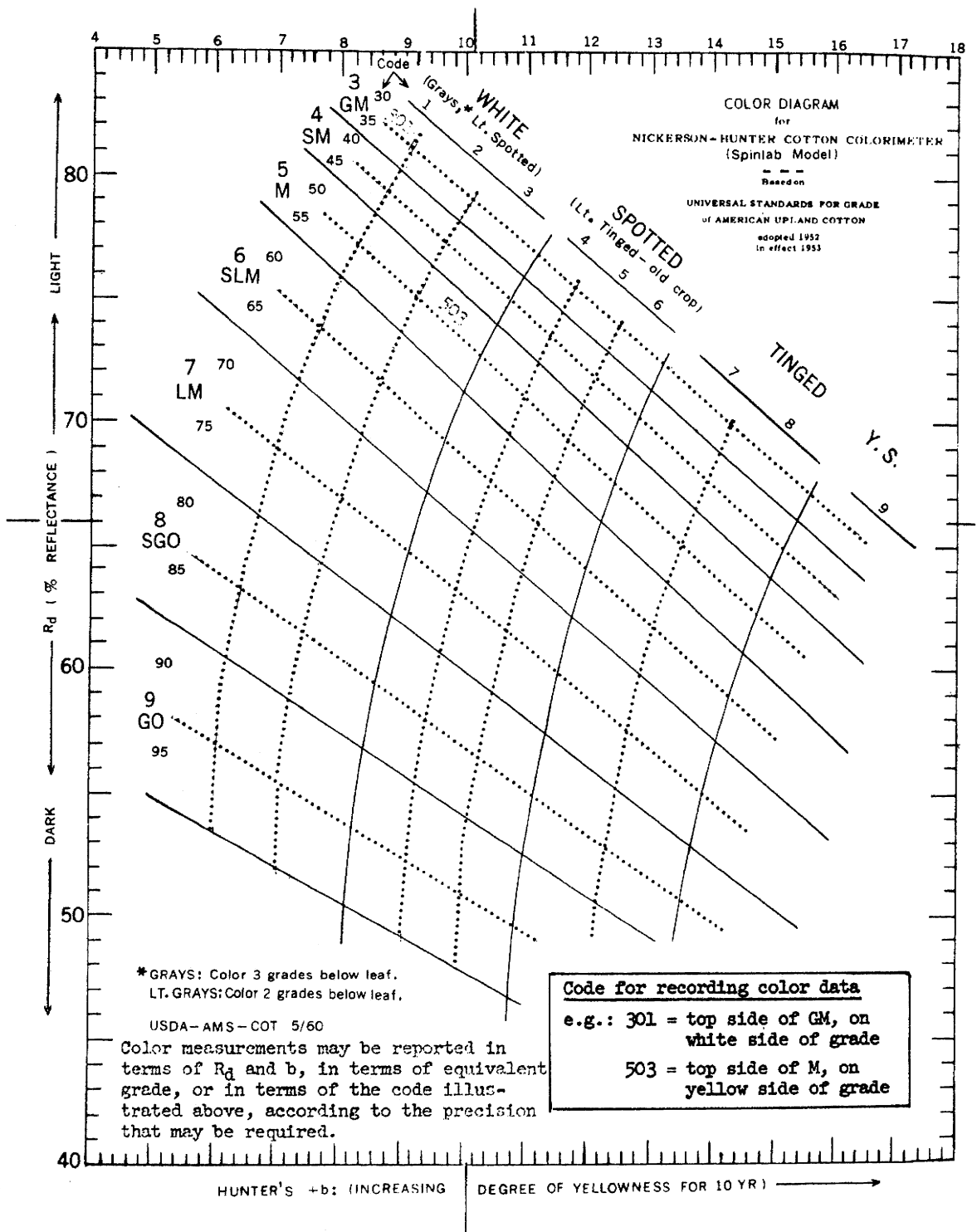


Fig. 2.--Code for relating color measurements of raw cotton to the color of American upland grade standards.

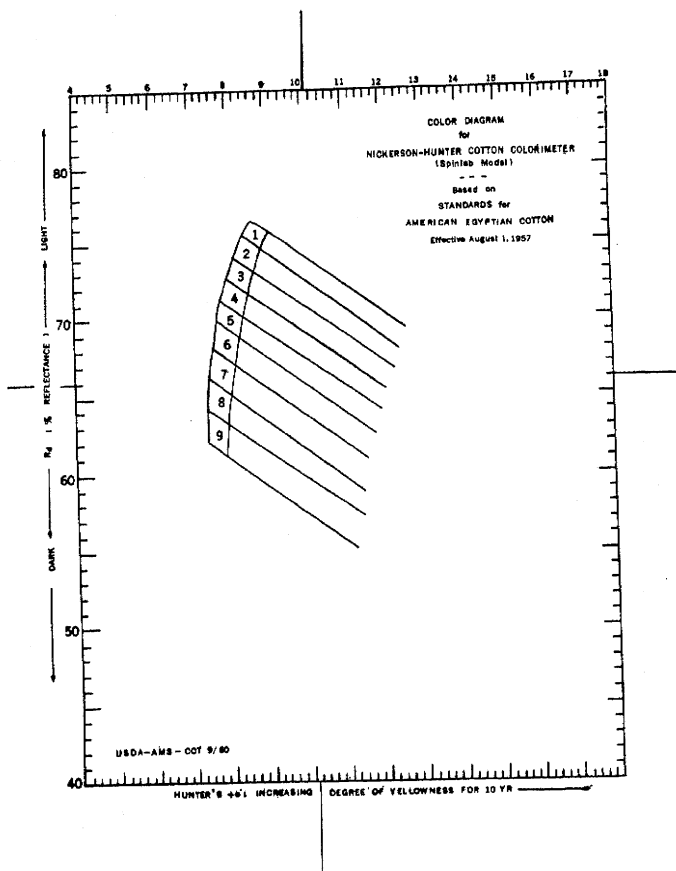


Fig. 3.--Diagram for relating color measurements of raw cotton to the color of American Egyptian grade standards.

2. Results on significantly different levels:

- a. Strength of carded 8s yarns approximately 10 percent lower by the new procedure
- b. Strength of carded 22s and 50s yarns approximately 5 percent lower by the new procedure

The card production rate employed and the yarn numbers spun for each cotton were selected on the basis of the staple length expected in the specified area of growth as described in the earlier section on test procedures. Four different length groupings were used to cover the range of cottons grown in this country and to approach commercial practices in processing these cottons. The spinning twist multipliers were selected to provide maximum yarn strength on the basis of staple length. Details of the spinning test procedures are shown at the end of this section of the report (table 14). Results of previous tests show that decreasing the card production rate results in fewer neps, improved yarn appearance grades, and removal of more waste at the card. Results of tests on the various lots should therefore be compared directly for only those lots in the same length group which were processed in a comparable manner.

Manufacturing waste reported for a sample of cotton is important because excessive waste increases the cost of cotton products. The percentage of waste extracted by the picking and carding processes in performing a spinning test provides a measure of manufacturing waste. There is an average relationship between this waste and grade as discussed in the previous section on the grade of cotton. The rate at which the cotton is carded, however, affects the picker and card waste values because the more thorough carding action obtained when the carding rate is decreased extracts a larger quantity of waste. The longer staple cottons are generally carded at a lower rate than the shorter cottons in order to obtain acceptable yarn quality. Past experience has shown the average relationship between grade and manufacturing waste, as based on medium staple upland cottons when carded at 9-1/2 pounds per hour, to be approximately as follows:

<u>Grade</u>	<u>Average picker and card waste Percent</u>
Good Middling	6.3
Strict Middling	7.2
Middling	8.1
Strict Low Middling	9.3
Low Middling	12.5
Strict Good Ordinary	15.6
Good Ordinary	18.3

The percentage of waste removed by the comb is reported in addition to the picker and card waste for cottons processed into combed yarn. The shorter staple cottons are processed through the comb with a closer

Table 14.--Cotton: Spinning test procedures for specified staple length groupings

Process	Staple length groups			
	Short	Medium	Long	Extra long
<b>1. PICKER</b>				
Standard atmospheric conditions:				
Temperature.....degrees F.:	75	75	75	75
Relative humidity.....percent:	60	60	60	60
Each test lot is processed through a finisher type picker twice to produce the specified weight of lap.....ounces per yard:	14	14	14	11
Type of beater.....	Kirschner 1,000	Kirschner 1,000	Kirschner 1,000	2-blade 1,000
Beater speed.....r.p.m.:				
Settings:				
Feed roll to beater.....inches:	3/16	3/16	3/16	3/8
Girds to beater, top.....inches:	5/16	5/16	5/16	9/16
Girds to beater, bottom.....inches:	11/16	11/16	11/16	11/16
<b>2. CARD</b>				
Standard atmospheric conditions:				
Temperature.....degrees F.:	75	75	75	75
Relative humidity.....percent:	60	60	60	60
Picker lap fed.....ounces per yard:	14	14	14	11
Sliver delivered.....grains per yard:	50	50	50	40
Production rate.....pounds per hour:	12-1/2	9-1/2	6-1/2	4-1/2
Doffer speed.....r.p.m.:	11	8	6	4
Cylinder speed.....r.p.m.:	165	165	165	165
Flat speed.....inches per minute:	2-7/8	2-7/8	2-7/8	2-7/8
Licker-in-speed.....r.p.m.:	435	435	435	435
Cylinder wire.....number:	100	100	120	120
Doffer and flat wire.....number:	110	110	130	130
Settings:				
Feed plate to licker-in.....inches:	0.010	0.010	0.010	0.017
Mote knife to licker-in top.....inches:	.012	.012	.012	.012
Mote knife to licker-in, bottom.....inches:	.010	.010	.010	.010
Licker-in screen, front.....inches:	.029	.029	.029	.029
Licker-in screen, back.....inches:	.017	.017	.017	.017
Licker-in to cylinder.....inches:	.007	.007	.007	.007
Flats to cylinder, back, center, and front.....inches:	.009	.009	.009	.009
Back plate to cylinder, top.....inches:	.029	.029	.029	.029
Back plate to cylinder, bottom.....inches:	.034	.034	.034	.034
Front plate to cylinder, top.....inches:	.029	.029	.029	.029
Front plate to cylinder, bottom.....inches:	.034	.034	.034	.034
Doffer to cylinder.....inches:	.007	.007	.007	.007
Cylinder screen, back.....inches:	.029	.029	.029	.029
Cylinder screen, center.....inches:	.034	.034	.034	.034
Cylinder screen, front.....inches:	3/16	3/16	3/16	3/16
Doffer comb to doffer.....inches:	.022	.022	.022	.022
<b>3. SLIVER LAPPER (combed only)</b>				
Standard atmospheric conditions:				
Temperature.....degrees F.:	-	-	75	75
Relative humidity.....percent:	-	-	60	60
Sliver fed, 20 each.....grains per yard:	-	-	50	40
Lap delivered.....grains per yard:	-	-	595	525
Speed.....yards per minute:	-	-	46	46
Roll settings (center to center):				
First to second.....inches plus fiber length 1/2:	-	-	5/16	5/16
Second to third.....inches plus fiber length 1/2:	-	-	9/16	9/16
<b>4. RIBBON LAPPER (combed only)</b>				
Standard atmospheric conditions:				
Temperature.....degrees F.:	-	-	75	75
Relative humidity.....percent:	-	-	60	60
Laps fed, 4.....grains per yard:	-	-	595	525
Lap delivered.....grains per yard:	-	-	610	610
Speed.....yards per minute:	-	-	47	47
Roll settings (center to center):				
First to second.....inches plus fiber length 1/2:	-	-	4/16	4/16
Second to third.....inches plus fiber length 1/2:	-	-	7/16	7/16
Third to fourth.....inches plus fiber length 1/2:	-	-	10/16	10/16



Table 14.--Cotton: Spinning test procedures for specified staple length groupings--Continued

Process	Staple length groups			
	Short	Medium	Long	Extra long
<b>5. COMBER (Model D-4)</b>				
Standard atmospheric conditions:				
Temperature.....degrees F.:	-	-	75	75
Relative humidity.....percent:	-	-	60	60
Laps fed, 8 each.....grains per yard:	-	-	610	610
Sliver delivered.....grains per yard:	-	-	50	40
Production per hour.....pounds:	-	-	16	13
Setting of cushion plate to detaching roll.....inches:	-	-	.48	.54
Nominal waste.....percent:	-	-	16 to 17	16 to 17
<b>6. DRAWING FRAME (synthetic top rolls)</b>				
Standard atmospheric conditions:				
Temperature.....degrees F.:	75	75	75	75
Relative humidity.....percent:	60	60	60	60
First process:				
Sliver fed, 6 each.....grains per yard:	50	50	50	40
Sliver delivered.....grains per yard:	60	53	53	42
Second process:				
Sliver fed, 6 each.....grains per yard:	60	53	53	42
Sliver delivered.....grains per yard:	70	55	55	44
Speed.....yards per minute:	36	36	36	36
Roll settings (center to center):				
First to second.....inches plus fiber length $\frac{1}{16}$ :	4/16	4/16	4/16	4/16
Second to third.....inches plus fiber length $\frac{1}{16}$ :	7/16	7/16	7/16	7/16
Third to fourth.....inches plus fiber length $\frac{1}{16}$ :	10/16	10/16	10/16	10/16
<b>7. LONG DRAFT ROVING (8 x 4, 2 apron type)</b>				
Standard atmospheric conditions:				
Temperature.....degrees F.:	75	75	75	75
Relative humidity.....percent:	60	60	60	60
Sliver fed.....grains per yard:	70	55	55	44
Roving delivered.....hank:	1.10	1.80	1.80	4.25
Spindle speed.....r.m.p.:	1235	1235	1235	1235
Roll settings (center to center)				
First to second, standard.....inches:	2-1/4	2-1/4	2-1/4	2-1/4
Third to fourth.....inches plus fiber length $\frac{1}{16}$ :	1/4	1/4	1/4	1/4
<b>8. LONG DRAFT SPINNING (two apron type)</b>				
Standard atmospheric conditions:				
Temperature.....degrees F.:	75	75	75	75
Relative humidity.....percent:	65	65	65	65
Roving fed single.....hank:	1.10	1.80	1.80	4.25
Twist multiplier.....number:	4.4	4.0	3.8	3.6
Carded yarns.....number $\frac{2}{16}$ :	8s & 22s	22s & 50s	22s & 50s	-
Combed yarns.....number:	-	-	22s & 50s	50s & 80s
Spindle speed.....r.p.m. $\frac{3}{16}$ :	9000	9000	9000	9000
Roll settings (center to center):				
First to second, standard.....inches:	2-1/16	2-1/16	2-1/16	2-1/16
Second to third, standard.....inches:	1-3/4	1-3/4	1-3/4	1-3/4

1/ Allowances listed are in addition to fiber lengths in terms of "pulls" made on card sliver. These pulls are estimated from Fibrograph length tests except for extra long staple cottons.

2/ Additional yarn is spun for selected lots on a 96 spindle wide gauge frame at 9,000 r.p.m. spindle speed to determine the spinning potential yarn number or the finest yarn number that can be spun without end-breakage.

3/ All standard yarn numbers are spun on narrow gauge frames with spindle speeds of 9,000 r.p.m. except for 8s which are spun on a wide gauge frame with spindle speed of 5,500 r.p.m.

setting than for the longer staple cottons because smaller comber waste percentages are usually extracted from this cotton in commercial practice.

Neps in card web are reported for all cottons tested. A desirable feature of any cotton is its relative freedom from neps because they may be a source of trouble in manufacturing yarns and fabrics. The occurrence of neps in appreciable numbers detracts from the appearance of these products, especially when they are to be dyed or printed, as the neps absorb dye unevenly and appear as spots on the material. When the nep count in card web is high, the cotton is likely to produce rough and neppy yarns, as there is a relationship between yarn appearance and nep count. Excessive neppiness, therefore, limits the uses for which the cotton is suitable. The following adjective descriptions will serve to classify cottons from the standpoint of neppiness, when carded at the standard rates of card production:

Number of neps per 100 square inches of card web

Low.....	15 and below
Average.....	16 to 30
High.....	31 to 45
Very high.....	46 and above

Yarn strength is perhaps the most important and reliable test of yarn quality. Yarn strength not only determines the range of usefulness of a given cotton, but is also an indication of spinning and weaving performance. Yarn strength is reported in terms of skein strength since studies have shown that such strength values are more closely related to fabric strength as well as to fiber properties than single strand yarn strength. Skein strength data for each yarn number and the average "break factor" for gray or natural yarn (number x strength) for the two numbers spun, are reported for each lot. The relative yarn strength of specific cottons as compared with the average yarn strength for cottons of the same staple length may be obtained by comparing the break factor reported with the comparable average values shown at the end of this section of the report (table 15).

Skein strength of mercerized 50s combed yarn, when compared with strength of gray yarn, provides an indication of the relative response of different cottons from the standpoint of increase in yarn strength resulting from the mercerization process.

Yarn elongation results were obtained in connection with skein strength tests. These data are to be used in analyses to investigate their relationship to other test measures.

Yarn appearance refers to the relative evenness, smoothness and freedom from foreign material of the yarn as evaluated by a visual comparison of the yarn with the standards adopted by the American Society for Testing Materials. Since appearance is very important in many types of cotton products, high yarn appearance grades are desirable. Index values shown in the tables represent the average of the appearance indices for both yarn numbers spun. The following descriptive designations will aid in evaluating the results reported:

Table 15.--Cotton: Average or standard skein strength and break factors for specified yarn number combinations and classers' staple lengths

Type of cotton and classers' staple length	Average or standard skein strength for					
	Carded yarns			Combed yarns		
	Coarse	Fine	Average	Coarse	Fine	Average
<u>Inches</u>	<u>Pounds</u>	<u>Pounds</u>	<u>Lb.x No.</u>	<u>Pounds</u>	<u>Pounds</u>	<u>Lb.x No.</u>
<b>AMERICAN UPLAND</b>						
Short staple group:	<u>8s</u>	<u>22s</u>	<u>8s &amp; 22s</u>			
13/16	228.1	72.2	1707			
7/8	255.0	81.9	1921			
29/32	268.4	86.8	2028			
15/16	281.8	91.7	2136			
31/32	295.3	96.6	2244			
1	308.7	101.5	2351			
Medium staple group:	<u>22s</u>	<u>50s</u>	<u>22s &amp; 50s</u>			
31/32	96.6	33.0	1888			
1	101.5	35.2	1996			
1-1/32	106.4	37.3	2103			
1-1/16	111.2	39.5	2211			
1-3/32	116.1	41.6	2317			
1-1/8	121.0	43.8	2426			
Long staple group:	<u>22s</u>	<u>50s</u>	<u>22s &amp; 50s</u>	<u>22s</u>	<u>50s</u>	<u>22s &amp; 50s</u>
1-3/32	116.1	41.6	2317	133.6	47.8	2665
1-1/8	121.0	43.8	2426	139.2	50.3	2789
1-5/32	125.9	45.9	2532	144.8	52.8	2913
1-3/16	130.8	48.1	2641	150.4	55.2	3034
1-7/32	135.7	50.2	2748	156.0	57.7	3159
1-1/4	140.5	52.4	2856	161.6	60.2	3283
1-5/16	150.3	56.7	3071	172.9	65.1	3529
<b>AMERICAN EGYPTIAN</b>						
Extra long staple group:				<u>50s</u>	<u>80s</u>	<u>50s &amp; 80s</u>
1-3/8				64.7	33.1	2942
1-7/16				69.4	36.0	3175
1-1/2				74.1	39.0	3412
1-9/16				78.8	41.9	3646

1/ Yarn numbers listed are those normally spun for the specified group of samples and the averages for the 2 yarn numbers are expressed as pounds strength times yarn number or break factor.

Yarn Appearance Grades

<u>Grade</u>	<u>Designation</u>	<u>Index</u>
A and above	Excellent	130
B+	Very good	120
B	Good	110
C+	Average	100
C	Fair	90
D+	Poor	80
D	Very poor	70
BG	Below grade	60

Yarn imperfections are reported for the two yarn numbers spun for each lot of cotton. These results were obtained on "Neptel" instruments which electronically count the abrupt changes in the silhouette of the yarn while passing it through a beam of light. They are expressed as the number of imperfections per 50 yards of yarn and are based on the average of 10 determinations. This value is an instrument measure of product quality which is associated with the characteristics of the cotton. It is more highly correlated with fiber properties than either neps in card web or yarn appearance grade. The following descriptive designations for carded yarns will aid in evaluating the results reported:

Number of imperfections per 50 yards of yarn

<u>Adjective description</u>	<u>Carded yarn number</u>		
	<u>8s</u>	<u>22s</u>	<u>50s</u>
Low	25 & below	15 & below	10 & below
Average	26 - 45	16 - 30	11 - 20
High	46 - 65	31 - 45	21 - 30
Very high	66 & above	46 & above	31 & above

Spinning Potential yarn number indicates the finest yarn number that can be spun from a cotton sample without any end-breakage when using specific processing procedures. In performing these tests, the yarn number to spin is selected from a list of desired yarn numbers calculated to represent the middle of the range of yarn numbers spun with each traveler number and twist gear. New travelers, draft gears, and twist gears are installed for the selected yarn number and it is spun for a 15-minute trial period. The yarn number selected is considered acceptable if there is an end-breakage involving 5 to 15 of the 96 spindles employed during the trial run. If end-breakages occur on less than 5 or more than 15 of the 96 spindles during the trial period, a different yarn number is selected to be spun for another 15 minute trial period until the acceptable end-breakage rate is obtained. The acceptable trial period is also used for a warm-up period which is followed by a 1-hour test period. The spinning potential yarn number is calculated

from the deviation of the actual yarn number spun from the desired yarn number and the number of spindles with end-breakages during the 1-hour test run. The following tabulation of the average relationship between spinning potential yarn number and staple length based on cottons used in the grade and staple standards will be helpful in evaluating the results for different cottons with respect to spinning performance:

<u>Staple length</u> <u>Inches</u>	<u>Average spinning potential</u> <u>Yarn number</u>
7/8	29
29/32	33
15/16	37
31/32	41
1	45
1-1/32	49
1-1/16	54
1-3/32	58
1-1/8	62
1-5/32	66
1-3/16	70

Trash in fabric tests are based on a sample of cloth woven with 22s yarn from the test lot as the filling in a sateen weave. The test sample for each lot is graded visually against 4 standards which have been selected to represent the range of trash. The standards are designated as A, B, C, and D similar to the ASTM yarn appearance standards. The trash in fabric grade provides an indication of the relative amount of trash that was not removed in processing. The following descriptive designations will aid in evaluating the results reported:

Trash in fabric grade

<u>Grade</u>	<u>Designation</u>	<u>Index</u>
A & above	Excellent	130
B+	Very good	120
B	Good	110
C+	Average	100
C	Fair	90
D+	Poor	80
D	Very poor	70
BG	Below grade	60

Chemical Finishing Tests

Information with respect to the bleaching and dyeing properties of different varieties and growths of cotton is of particular significance to textile manufacturers from the standpoint of providing a basis for avoiding problems that may result from blending different varieties and growths having

different dyeing properties. Data with respect to the chemical finishing properties of the principal varieties and growths of cotton as herein reported may thus be used as a basis for selecting cottons of similar finishing properties. Details of the chemical finishing tests are described in Agricultural Information Bulletin No. 167 - Bleaching, Dyeing, and Mercerizing Test Results on Some Varieties of Cotton Grown by Selected Cotton Improvement Groups, Crop of 1955

Color measurements of cotton yarn samples were made on a Gardner Automatic Color Difference Meter. These values are reported in terms of  $R_d$  and  $b$ , two of the three scales on the instrument. The  $R_d$  scale measures percentages of diffuse reflectance from 0 to 100. The  $b$  scale provides a measure of yellowness in the direction of  $+b$  and of blueness in the direction of  $-b$ . The degree of either yellowness or blueness increases as the scale numbers increase. These data when plotted with  $R_d$  on the vertical ordinate and with  $b$  on the horizontal ordinate are similar to the color values for raw cotton when plotted in relation to the official grade standards as described in the earlier section on color of raw stock.

While the color factors  $R_d$  and  $b$  are not independent of each other and should be considered together in any overall interpretation, for many purposes it would be convenient in evaluating results to have them in terms of a single number. For raw cotton the grade index provides one way to do this in a straight forward manner. A similar method has been followed in developing conversion formulae and diagrams for each form of cotton measured for color as a part of the chemical finishing studies of the Cotton Division. In each, the index for Middling is held at 100 and that for Good Ordinary is held close to 70. By use of such indices the color measurements of raw stock, gray yarns, bleached yarns, and bleached and dyed yarns may be converted to a single number specification. For details see "Grade and Color Indexes Developed for Evaluating Results of USDA Cotton Finishing Tests", (AMS-245, June 1958).

Luster measurements of cotton yarn samples were made by means of Hunter-lab Cotton Lustermeter. Luster is measured as contrast gloss expressed as a ratio of the specular reflectance to the diffuse reflectance of a sample. The results are expressed on a percentage scale, with high luster at 100 percent and zero luster (matte surface) at 0 percent. The scale of this instrument reads directly in terms of  $1-(D/S)$  which, when multiplied by 100, provides a scale in which 100 percent equals high gloss and 0 equals zero gloss. On this scale gray yarns measure approximately 30 to 40 percent and mercerized yarns generally range from 40 to 50 percent luster. Luster is reported only for those yarns that were mercerized (50s combed). A comparison of the before and after luster data indicates the relative degree of improvement caused by mercerization.

The following adjective descriptions of luster values will serve as an aid in the interpretation of the luster results reported:

Relative percentage of luster of 50s combed yarn

<u>Gray</u>	<u>Mercerized</u>	<u>Adjective description</u>
Below 33	Below 40	Low
33 - 34	40 - 44	Average
Above 34	Above 44	High