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AGRICULTURE INFORMATION BULLETIN NO. 284

ANNUAL COTTON QUALITY SURVEY

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

CROP of 1963

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ACKNOWLEDGMENTS

This report was prepared in the Standards and Testing Branch, Cotton Division, AMS. The cooperation of the area and classing offices in furnishing materials, and the work of the field laboratories in performing the tests, is appreciated.

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ERRATA - ANNUAL COTTON QUALITY SURVEY - Summary of Results of Fiber and Processing Tests from Selected Production Areas, Crop of 1963, AIB 284

In preparing Agriculture Information Bulletin No. 284 dated March 1964, one of the automatic data processing cards was placed out of sequence, causing some of the data for two samples to be printed in the wrong place. Please correct your copy to read:

Identification of Test Item	Pages 55 and 56 Calhoun City, Miss. Sample 1		Pages 55 and 56 Calhoun City, Miss. Sample 2	
	From	To	From	To
Digital Fibrograph:				
2.5% span length, inches	No change		5.02	1.06
50/2.5 Uniformity	No change		77	47
Micronaire reading	No change		0.8	4.4
Fiber strength:				
Zero gauge, M/psi	No change		60	79
Zero gauge, G/tex	No change		5.1	39.3
1/8" gauge, G/tex	No change		5.7	20.5
Elongation 1/8" gauge, percent	No change		0.1	5.8
Shirley Analyzer:				
Visible waste, percent	No change		10.8	0.8
Total waste, percent	No change		3.5	1.7
Color of raw stock:				
Reflectance, R_d	No change		20.6	77.0
Yellowness, +b	No change		63.0	8.6
Composite, index	No change		470	101
Composite, code	No change		110	502
Color of cleaned lint:				
Reflectance, R_d	No change		10.0	77.5
Yellowness, +b	No change		10.5	8.5
Picker and card waste, percent	No change		25.0	5.7
Neps in card web, number	No change		0	17
Yarn skein strength:				
22s or 26.8 tex, lbs.	No change		0	108
50s or 11.8 tex, lbs.	No change		0	35
Average break factor, number	No change		0	2063
Yarn elongation:				
22s or 26.8 tex, percent	No change		1.0	6.3
50s or 11.8 tex, percent	No change		7.1	4.7
Yarn appearance:				
22s or 26.8 tex, index	No change		112	110
Average, index	No change		847	105

Identification of Test Item	Pages 55 and 56 Calhoun City, Miss. Sample 1 From	To	Pages 55 and 56 Calhoun City, Miss. Sample 2 From	To
Yarn imperfections:				
22s or 26.8 tex, number	No change		230	23
50s or 11.8 tex, number	No change		107	19
Trash in fabric, index	100	90	90	100
Color-22s gray yarn:				
Reflectance, R_d	34.0	69.6	69.6	71.8
Yellowness, +b	10.6	11.6	11.6	11.2
Composite, index	470	97	97	100
Color-22s bleached yarn:				
Reflectance, R_d	44.0	84.0	84.0	84.7
Yellowness, +b	0.7	2.7	2.7	2.3
Composite, index	393	104	104	107
Color-22s dyed yarn:				
Reflectance, R_d	20.5	26.3	26.3	27.0
Blueness, -b	58.0	27.5	27.5	27.8
Composite, index	8	111	111	111

This also caused some of the averages to be incorrect as published. Please correct your copy to read:

Identification of Test Item	Page 10 S. C. Area average 1963 From	To	Page 10 U. S. average 1963 From	To
Digital Fibrograph:				
2.5% span length, inches	1.08	1.06	1.03	1.02
Fiber strength:				
1/8" gauge, G/tex	21.4	21.5	No change	
Picker and card waste, percent	6.5	6.4	No change	

Identification of Test Item	Pages 11 and 12 Miss. State average 1963 From	To	Pages 15 and 16 Average grade & stapl S.C.Area - 1-1/16" - From	To
Digital Fibrograph:				
2.5% span length, inches	1.14	1.09	1.10	1.05
Fiber strength:				
1/8" gauge, G/tex	21.5	21.7	21.1	21.3
Elongation, 1/8" gauge, percent	6.1	6.2	5.7	5.8
Color of raw stock:				
Reflectance, R_d	76.2	77.0	76.4	77.2
Yellowness, +b	9.1	8.4	9.3	8.6
Composite, index	106	101	106	101
Color of cleaned lint:				
Reflectance, R_d	77.1	78.0	77.8	78.9
Picker and card waste, percent	6.9	6.6	6.2	5.9

Identification of Test Item	Pages 11 and 12 Miss. State average 1963		Pages 15 and 16 Average grade & stapl S.C.Area - 1-1/16" -	
	From	To	From	To
Yarn strength:				
22s or 26.8 tex, lbs.	112	113	104	105
Yarn elongation:				
22s or 26.8 tex, percent	6.5	6.6	5.9	6.0
Yarn imperfections:				
22s or 26.8 tex, number	26	23	24	21
50s or 11.8 tex, number	20	19	18	17
Color of 22s bleached yarn:				
Reflectance, R_d	83.4	83.9	83.6	84.1
Composite, index	109	105	109	105
Color of 22s dyed yarn:				
Reflectance, R_d	26.9	27.0	27.2	27.3
Blueness, -b	27.8	27.4	27.6	27.2
Composite, index	108	109	107	108

ANNUAL COTTON QUALITY SURVEY

Summary of Results of Fiber and Processing Tests from Selected Production Areas, Crop of 1963

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 1963 through January 1964. These reports are entitled "Cotton Fiber and Processing Test Results, Crop of 1963" and are numbered CT (1963) 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 1963 survey have been included in the studies each year since 1946. This affords, in some instances, comparisons of test results over an 18-year period. Thus an indication of the variation in fiber and spinning qualities of cotton grown in the same areas for 18 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 1963 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 1963 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.

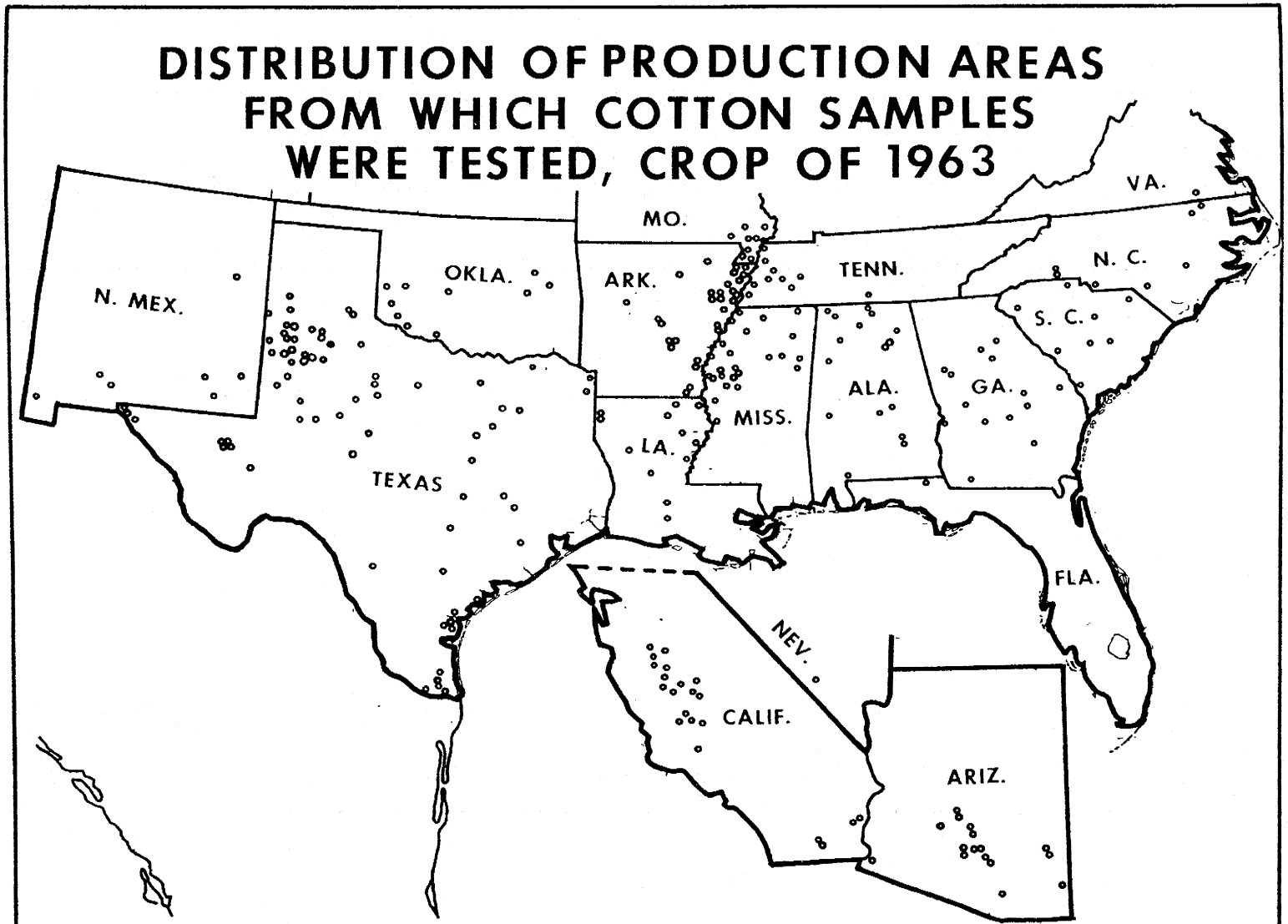
The spinning test lots represent composite samples from a considerable number of individual bales of the same grade and staple length which were classed for producers under the provision of the Smith-Doxey Act. After classification, samples representing the predominant grade and staple length for each 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 degrees F. employing the standard test procedures outlined by the American Society for Testing and 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 1963



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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 1963 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 of the 1963 cottons tested in this study show essentially the same length, length uniformity, fineness and fiber strength as last year. Nonlint content is approximately the same while picker and card waste and neps in card web are lower. Yarn strength is higher but appearance grade and imperfection count remain on approximately the same level (table 1).

The Southeastern Area includes the states of Virginia, North Carolina, South Carolina, Georgia, Florida, and Alabama. Average results from this area show cottons with approximately the same fibrograph 2.5% span length, length uniformity, fineness, and strength by the 1/8-inch gauge test, but weaker when tested by the zero gauge test. Nonlint content and neps in card web remain on approximately the same level; however, manufacturing wastes are lower. Average yarn strength and appearance grades are essentially the same, while the yarn imperfection count is lower (table 1).

The South Central Area includes the states of Tennessee, Missouri, Mississippi, Arkansas, and Louisiana. Average results of tests made on samples from this area show longer fibers with approximately the same length uniformity, fineness, and strength by the 1/8-inch gauge test, but weaker when tested by the zero gauge test. Nonlint content, picker and card waste, and neps in card web are lower than last year. Average yarn strength is higher, while yarn appearance grade and yarn imperfection count remain on the same level (table 1).

The Southwestern Area includes the states of Oklahoma and Texas, except District 6 (west of Pecos River). Samples from the Southwestern Area show shorter fibers with the same length uniformity, fineness, and fiber strength. Nonlint content remains essentially the same as last year, while picker and card waste, and neps in card web are lower. Yarns from these samples show a slight increase in strength and appearance grade; however, the yarn imperfection count is also higher going in the reverse direction to the neps in card web count (table 1).

The Western Area includes the states of California, Arizona, Nevada, New Mexico, and District 6 of Texas. Samples tested from this area show essentially the same length, length uniformity, and fineness, but show lower fiber strength by both the zero and 1/8-inch gauge tests. Nonlint content, picker and card waste and neps in card web remain essentially on the same level. Yarns from these samples show approximately the same strength and appearance grades, but have a higher imperfection count than last year (table 1).

Table 1.--Cotton: Average results of classification, fiber and processing tests for American upland samples from selected gin points, crops of 1962 and 1963 1/

Area and crop year	Lots tested	Classification		Fiber test results						Processing test results				
		Grade	Staple	Fibrograph		Micronaire	Fiber strength		Shirley Analyzer nonlint	Picker & card waste	Neps in card web	Skein strength 22s yarn	Appearance 22s yarn	Yarn imprfctns 22s
				2.5% span	50/2.5 unif.		Zero gauge	1/8" gauge						
	No.	Index	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	No.	Lbs.	Index	No.
Southeast:														
1962	124	97.6	33.5	1.03	45	4.3	81	21.1	2.2	7.7	28	106	106	28
1963	137	98.3	33.3	1.04	45	4.2	79	20.8	2.0	6.5	27	108	104	24
South Central:														
1962	228	95.2	34.1	1.06	44	4.4	83	21.3	2.7	8.0	25	101	111	25
1963	249	97.2	34.1	1.08	45	4.4	81	21.4	2.2	6.5	22	106	110	26
Southwest:														
1962	210	93.1	31.0	.96	45	4.1	80	20.7	3.0	8.2	30	92	106	36
1963	231	95.4	30.6	.94	45	4.1	81	20.8	2.8	7.5	24	95	109	38
West:														
1962	129	96.6	34.8	1.08	45	4.3	89	24.2	2.6	7.5	23	117	108	31
1963	160	95.7	34 6	1.07	45	4.2	86	23.6	2.6	7.2	23	118	108	33
U. S. Average:														
1962	691	95.3	33.2	1.03	45	4.3	83	21.6	2.7	7.9	27	102	108	30
1963	777	96.7	33.0	1.03	45	4.2	82	21.6	2.4	6.9	24	106	108	31

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 points, crops of 1962 and 1963

Area, state and crop year	Spinning lots tested	Classification		Fiber length		Micronaire	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		Total	Reflectance	Yellowness	Composite	Reflectance	Yellowness		
	No.	Index	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Rd	+b	Index	Rd	+b	Pct.	No.
SOUTHEAST AREA:																	
Alabama																	
1962	39	97	33.5	1.04	45	4.2	80	21.4	6.1	2.2	74.8	8.8	98	76.0	9.0	7.8	31
1963	47	98	33.3	1.04	45	4.1	79	20.7	5.9	2.0	75.7	8.5	99	76.9	8.6	6.5	27
Florida																	
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
1963	3	96	32.7	1.02	45	4.2	73	19.4	6.1	2.3	73.2	9.0	96	75.0	8.8	7.2	24
Georgia																	
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
1963	39	98	33.4	1.04	45	4.1	79	20.9	5.7	2.1	75.2	8.7	99	76.3	8.8	6.6	30
North Carolina																	
1962	18	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
1963	21	100	33.3	1.04	46	4.5	79	20.9	6.2	1.7	76.7	8.4	101	77.4	8.5	6.1	20
South Carolina																	
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
1963	25	99	33.4	1.03	45	4.2	80	20.7	5.7	2.1	74.7	8.6	98	76.0	8.7	6.5	27
Virginia																	
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
1963	3	97	33.0	1.04	47	4.1	76	21.8	6.4	2.8	77.2	7.6	100	78.4	8.1	6.9	19
SOUTH CENTRAL AREA:																	
Arkansas																	
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
1963	84	97	34.1	1.05	4.4	4.4	82	21.2	5.7	2.4	75.7	8.5	99	78.0	8.5	6.5	18
Louisiana																	
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
1963	37	98	33.8	1.05	45	4.7	83	21.7	5.8	1.9	75.7	8.7	99	77.9	8.7	6.4	20
Mississippi																	
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
1963	74	98	34.3	1.14	45	4.3	80	21.5	6.1	2.1	76.2	9.1	106	77.1	8.5	6.9	25
Missouri																	
1962	24	93	33.8	1.04	44	4.1	81	20.7	5.6	2.9	71.7	8.5	93	74.8	8.7	8.2	27
1963	24	95	33.9	1.06	45	4.4	81	21.3	6.2	2.6	74.9	8.3	98	77.2	8.4	6.6	16
Tennessee																	
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
1963	30	100	33.9	1.04	46	4.3	80	21.0	5.8	1.6	77.3	8.5	101	78.3	8.6	6.0	28
SOUTHWEST AREA:																	
Oklahoma																	
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
1963	28	96	29.8	.92	45	4.5	81	19.6	6.1	2.6	72.9	9.5	96	75.1	9.5	6.9	16
Northwest Texas																	
Short staple																	
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
1963	122	94	30.0	.92	46	3.9	80	20.8	6.6	3.3	73.4	9.1	96	75.8	9.1	7.8	27
Long staple																	
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
1963	4	96	36.0	1.14	43	3.8	94	25.8	5.0	2.5	74.6	8.7	98	76.6	8.6	7.6	30

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 22-s 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		Reflectance	Yellowness	Composite	Reflectance	Blueness	Composite
	No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.	Index	Rd	+b	Index	Rd	-b	Index
SOUTHEAST AREA:																
Alabama			50s		50s		50s		50s							
1962	39	108	36	6.0	4.6	106	96	28	22	91	82.7	3.1	99	28.0	26.0	102
1963	47	109	36	6.5	4.9	104	95	24	20	98	84.0	2.7	104	28.0	26.5	104
Florida																
1962	3	107	37	6.3	4.9	100	90	49	34	70	83.7	3.0	102	28.9	25.6	99
1963	3	101	33	6.6	4.9	97	93	25	21	96	84.3	2.7	105	28.0	26.8	105
Georgia																
1962	37	105	34	5.6	4.2	106	96	24	18	96	82.8	3.0	100	28.8	25.8	100
1963	39	108	36	6.3	4.8	103	95	27	21	97	84.3	2.7	105	27.9	26.6	105
North Carolina																
1962	18	102	34	6.2	7.1	107	98	34	24	93	83.3	2.8	102	28.1	26.2	102
1963	21	107	34	6.4	4.9	110	102	19	15	98	83.8	2.5	104	27.3	27.2	108
South Carolina																
1962	24	106	35	5.9	4.6	108	98	25	19	94	83.0	2.6	102	28.1	26.2	103
1963	25	107	35	6.2	4.7	103	95	24	19	96	83.6	2.6	103	28.3	26.5	104
Virginia																
1962	3	103	34	6.2	4.6	110	100	27	19	87	83.3	2.8	102	27.5	26.6	105
1963	3	116	38	7.1	5.5	110	105	15	12	99	84.4	2.6	106	26.6	27.5	111
SOUTH CENTRAL AREA:																
Arkansas																
1962	72	95	32	5.5	4.1	112	99	27	19	89	83.0	2.7	102	28.1	26.2	102
1963	84	102	36	5.6	4.4	115	100	28	21	97	84.0	2.7	104	27.4	26.9	107
Louisiana																
1962	27	104	36	5.7	4.3	117	103	21	15	92	82.9	2.7	101	27.6	26.6	105
1963	37	101	35	5.5	4.3	116	99	26	20	97	83.5	2.6	103	27.5	27.0	107
Mississippi																
1962	83	108	36	5.8	4.4	110	98	24	18	92	83.0	2.6	102	27.8	26.5	105
1963	74	112	38	6.5	5.1	104	95	26	20	104	83.4	2.3	109	26.9	27.8	108
Missouri																
1962	24	95	32	5.6	4.3	110	96	28	22	87	83.1	2.9	101	27.8	26.0	102
1963	24	103	36	5.8	4.6	116	100	28	20	95	83.3	2.8	102	26.8	27.1	109
Tennessee																
1962	22	98	32	5.7	4.2	104	90	29	23	93	83.3	2.8	102	28.1	26.3	103
1963	30	110	36	6.5	4.9	104	95	22	18	99	84.2	2.5	105	26.9	27.3	109
SOUTHWEST AREA:																
Oklahoma			8s		8s		8s		8s							
1962	25	85	272	5.8	6.4	108	118	34	54	86	82.4	3.5	97	27.9	25.8	102
1963	28	87	279	5.4	6.1	112	119	32	52	95	83.2	3.2	100	27.5	26.6	105
Northwest Texas																
Short staple																
1962	114	90	288	6.1	7.0	104	115	41	65	86	82.7	3.3	98	27.5	25.7	102
1963	122	95	302	5.9	6.7	105	116	44	69	96	82.7	3.2	99	26.9	26.4	106
Long staple			50s		50s		50s		50s							
1962	5	127	45	6.1	4.8	102	98	29	21	86	82.0	3.3	97	28.1	25.5	100
1963	4	136	48	6.3	5.0	102	92	28	23	96	82.6	3.1	99	27.0	26.4	106

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 1962 and 1963--Continued

Area, state and crop year	Spinning lots tested	Classification		Fiber length		Micronaire	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		Total	Reflectance	Yellowness	Composite	Reflectance	Yellowness		
	No.	Index	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Rd	+b	Index	Rd	+b	Pct.	No.
SOUTHWEST AREA (Continued)																	
Central Texas																	
Short staple:																	
1962	18	90	30.1	.93	45	4.3	82	20.4	5.6	3.2	70.2	9.8	92	73.5	10.1	8.3	25
1963	24	97	29.5	.91	45	4.2	84	20.4	5.7	2.3	73.4	10.0	98	75.3	9.9	7.4	24
Medium staple:																	
1962	21	94	33.8	1.05	44	4.4	84	21.7	5.5	2.7	72.2	8.8	94	75.7	9.0	7.9	24
1963	21	98	33.9	1.06	45	4.4	84	22.0	6.2	1.7	76.4	8.8	101	78.7	8.7	6.3	21
South Texas																	
Short staple:																	
1962	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	9	97	30.0	.92	45	4.4	79	20.1	6.3	2.4	73.0	9.7	97	75.2	9.9	8.0	27
Medium staple:																	
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
1963	23	96	32.3	1.00	46	4.8	79	21.0	6.1	2.3	74.8	9.1	99	76.7	9.2	7.5	18
WESTERN AREA																	
Arizona																	
Medium staple:																	
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
1963	40	96	33.6	1.04	44	4.5	83	22.0	6.6	2.6	75.6	8.4	99	78.2	8.4	7.1	21
Long staple:																	
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
1963	8	98	36.5	1.16	43	3.4	84	25.2	6.2	2.4	78.1	7.9	102	79.2	8.1	7.2	32
California																	
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
1963	74	94	34.3	1.05	46	4.3	90	24.3	6.1	2.5	73.8	7.9	96	76.4	8.0	7.0	17
Nevada																	
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
1963	3	100	37.0	1.17	45	3.6	85	25.4	5.9	2.7	79.8	7.8	104	80.9	8.0	7.7	25
New Mexico																	
Short staple:																	
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
1963	3	89	30.0	.88	45	3.3	81	20.5	6.4	4.4	73.9	9.1	97	77.9	9.1	11.0	55
Long staple																	
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
1963	16	97	36.8	1.17	44	3.4	85	24.9	6.0	3.2	77.0	8.2	101	78.4	8.3	8.0	36
West Texas																	
Short staple:																	
1962	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	3	101	33.3	1.03	43	4.0	76	19.9	7.9	1.9	76.8	8.6	101	78.8	8.5	6.3	37
Medium staple:																	
1962	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	6	100	34.0	1.05	43	3.9	78	20.4	7.0	2.0	78.1	8.4	102	80.0	8.4	6.3	35
Long staple:																	
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
1963	9	97	36.8	1.17	44	3.6	87	25.0	5.8	2.5	75.3	8.5	99	76.7	8.8	7.3	30

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		Reflectance	Yellowness	Composite	Reflectance	Blueness	Composite
	No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.	Index	Rd	+b	Index	Rd	-b	Index
SOUTHWEST AREA: (Continued)																
Central Texas																
Short staple:			8s		8s		8s		8s							
1962	18	89	280	5.7	6.5	107	117	33	51	87	82.8	3.2	99	27.7	26.2	104
1963	24	87	280	5.2	5.9	108	116	39	62	97	83.8	3.0	102	26.7	27.3	110
Medium staple:			50s		50s		50s		50s							
1962	21	99	34	5.6	4.4	114	100	23	17	92	82.9	2.9	100	28.1	26.3	103
1963	21	107	37	5.7	4.5	115	98	27	21	98	84.1	2.6	105	27.0	27.3	109
South Texas																
Short staple:			8s		8s		8s		8s							
1962	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	9	89	283	5.5	6.4	110	118	43	66	97	84.0	3.2	102	26.2	27.2	110
Medium staple:			50s		50s		50s		50s							
1962	24	99	34	6.0	4.6	108	96	26	19	95	82.8	2.8	101	26.6	26.6	107
1963	23	99	34	5.5	4.2	116	103	26	19	99	84.0	2.7	104	26.8	27.0	108
WESTERN AREA																
Arizona																
Medium staple:																
1962	37	99	34	5.5	4.2	111	100	29	21	91	83.0	2.5	102	27.8	26.5	104
1963	40	103	36	5.6	4.4	110	96	34	26	99	83.8	2.5	104	27.9	26.8	105
Long staple:																
1962	8	142	53	6.5	5.4	99	89	39	28	88	84.2	2.6	105	28.1	25.8	101
1963	8	135	49	7.1	5.7	98	92	32	23	100	84.4	2.5	106	27.5	26.3	104
California																
1962	57	118	44	5.7	4.5	111	98	28	20	92	82.8	2.7	101	27.3	26.2	104
1963	74	119	44	5.7	4.7	114	100	29	21	93	83.2	2.8	102	27.8	26.3	104
Nevada																
1962	4	140	52	6.6	5.2	108	98	22	17	98	84.0	2.6	104	27.1	26.5	106
1963	3	140	52	7.1	5.7	97	90	28	21	101	84.3	2.6	105	27.7	26.0	103
New Mexico																
Short staple:			8s		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
1963	3	100	322	6.5	7.3	100	110	77	112	101	83.2	3.4	99	26.8	26.0	104
Long staple:			50s		50s		50s		50s							
1962	13	138	51	6.6	5.5	98	88	40	29	85	83.7	2.8	103	27.5	25.9	103
1963	16	138	51	7.0	5.7	91	81	46	34	98	84.0	2.7	104	26.8	26.6	107
West Texas																
Short staple:			8s		8s		8s		8s							
1962	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	3	96	307	6.7	6.9	100	117	40	61	98	83.5	2.6	103	26.1	26.8	109
Medium staple:			50s		50s		50s		50s							
1962	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	6	103	36	6.3	5.1	103	90	36	30	102	84.4	2.9	104	27.1	26.8	107
Long staple:																
1962	7	132	49	6.4	5.1	97	89	36	27	80	82.9	2.8	101	27.4	25.9	103
1963	9	139	50	6.8	5.5	98	88	37	24	95	83.4	2.8	102	26.8	26.4	106

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 1963

Staple group, area, staple and grade	Spinning lots tested	Fiber length		Micronaire	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		Total	Reflectance	Yellowness	Composite	Reflectance	Yellowness		
	No.	In.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Rd	+b	Index	Rd	+b	Pct.	No.
SHORT STAPLE GROUP															
Southwest Area															
7/8" staple:															
Mltsp	4	.85	46	4.3	90	20.0	5.0	2.6	73.7	9.6	98	75.6	9.6	7.2	20
29/32" staple:															
Mltsp	30	.89	45	4.4	84	20.1	5.7	2.3	73.1	9.8	97	75.3	9.8	7.0	20
SLMltsp	8	.88	45	3.6	83	21.7	6.1	4.5	71.1	9.7	93	73.7	9.9	10.2	50
15/16" staple:															
M	7	.92	47	4.0	77	21.2	7.5	2.5	77.0	8.6	101	79.0	8.6	6.5	23
Mltsp	48	.92	45	4.2	80	20.3	6.3	2.7	73.7	9.5	97	75.8	9.4	7.4	24
SLM	14	.91	46	3.8	80	21.9	7.2	3.3	73.6	8.4	96	76.4	8.5	7.6	28
SLMltsp	24	.93	45	3.6	80	20.5	6.4	3.9	71.6	9.2	93	73.8	9.4	9.0	32
LM	4	.91	48	3.6	83	23.1	7.5	5.5	73.3	8.1	96	77.7	8.4	9.0	22
31/32" staple															
Mltsp	10	.96	45	4.1	77	20.1	7.3	2.4	73.8	9.4	98	75.9	9.3	6.8	27
SLM	4	.97	45	4.2	73	20.0	7.5	3.1	73.3	8.6	96	75.8	8.7	6.9	20
MEDIUM STAPLE GROUP															
Southeast Area															
1-1/32" staple:															
SM	7	1.02	47	4.7	83	20.9	5.7	1.4	77.2	8.7	102	77.6	8.6	5.6	17
M	40	1.02	46	4.2	79	20.9	5.9	1.8	76.5	8.5	101	77.4	8.7	6.4	26
SLM	24	1.03	44	4.0	78	20.5	5.8	2.6	74.0	8.3	97	75.6	8.4	7.0	32
LM	5	1.02	44	3.9	79	20.2	5.9	3.8	71.0	8.2	92	73.9	8.5	8.2	26
1-1/16" staple:															
SM	6	1.05	45	4.1	82	20.8	5.6	1.3	77.0	8.8	101	77.4	8.8	5.8	29
M	40	1.06	45	4.2	79	21.0	5.8	1.7	76.1	8.7	100	77.0	8.7	6.1	26
SLM	6	1.06	45	4.1	77	20.9	5.9	2.8	73.3	8.4	96	75.3	8.6	7.4	27
South Central Area															
1-1/32" staple:															
M	9	1.02	45	4.4	80	20.3	6.1	1.7	77.2	8.5	101	79.0	8.4	6.3	24
SLM	18	1.02	44	4.3	82	21.5	6.2	2.6	74.0	8.3	97	76.7	8.4	6.9	23
1-1/16" staple:															
SM	21	1.05	45	4.5	81	21.4	5.9	1.3	78.2	8.6	103	79.2	8.6	5.6	24
M	75	1.10	46	4.5	81	21.1	5.7	1.8	76.4	9.3	106	77.8	8.6	6.2	20
Mltsp	4	1.06	44	4.5	80	21.9	6.5	1.9	74.0	9.1	98	76.4	9.3	5.8	16
SLM	63	1.06	44	4.4	81	21.2	5.9	2.8	74.8	8.3	98	77.2	8.5	7.0	21
SLMltsp	5	1.07	43	4.4	78	20.8	6.1	3.8	72.2	8.9	94	74.8	9.4	8.0	17

Table 3.--Continued

Staple group, area, staple and grade	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		Reflectance	Yellowness	Composite	Reflectance	Blueness	Composite
	No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.	Index	Rd	+b	Index	Rd	-b	Index
SHORT STAPLE GROUP																
Southwest Area																
7/8" staple:			8s		8s		8s		8s							
Mltsp	4	85	275	4.8	5.3	112	120	29	48	98	83.2	3.1	100	27.4	26.8	106
29/32" staple:																
Mltsp	30	84	273	5.0	5.7	109	118	36	59	97	83.4	3.3	100	26.9	27.0	108
SLMltsp	8	94	299	5.6	6.3	95	109	75	115	92	83.0	3.3	99	27.0	26.1	105
15/16" staple:																
M	7	98	307	6.3	7.1	109	117	33	51	100	83.8	2.7	104	25.9	27.2	111
Mltsp	48	90	291	5.7	6.4	108	117	38	60	97	83.3	3.2	100	26.9	26.8	107
SLM	14	100	320	6.3	6.9	106	119	38	62	94	81.9	3.3	97	27.1	26.1	104
SLMltsp	24	94	303	5.9	6.6	101	114	55	86	92	81.9	3.3	96	27.6	25.8	102
LM	4	107	327	6.5	7.2	110	117	38	67	96	81.8	3.3	96	26.7	26.1	105
31/32" staple:																
Mltsp	10	95	301	6.2	7.2	108	116	41	65	96	83.9	3.0	102	26.0	27.1	110
SLM	4	92	296	6.5	7.5	110	117	37	63	95	82.5	3.1	99	26.8	26.5	107
MEDIUM STAPLE GROUP																
Southeast Area																
1-1/32" staple:			50s		50s		50s		50s							
SM	7	107	34	6.1	4.7	114	104	13	11	99	83.8	2.7	104	27.2	27.4	109
M	40	108	35	6.4	4.8	106	96	23	19	99	84.2	2.6	105	27.8	26.9	106
SLM	24	106	34	6.4	4.8	103	94	29	23	93	83.8	2.7	104	29.2	25.9	99
LM	5	105	34	6.3	4.8	102	94	30	25	91	83.1	3.1	100	29.1	25.9	100
1-1/16" staple:																
SM	6	111	36	6.4	4.8	102	95	23	19	100	84.1	2.7	104	27.1	26.9	107
M	40	111	37	6.5	5.0	104	97	21	17	99	84.0	2.6	104	27.2	26.9	107
SLM	6	107	36	6.2	4.8	102	97	30	20	95	83.9	2.7	103	27.6	26.6	105
South Central Area																
1-1/32" staple:																
M	9	99	32	6.0	4.5	111	98	22	17	99	84.1	2.4	105	27.7	27.2	107
SLM	18	101	35	5.8	4.4	112	96	33	25	95	83.3	2.8	102	27.8	26.6	104
1-1/16" staple																
SM	21	111	37	6.3	4.9	109	99	19	15	101	83.9	2.4	105	26.6	27.7	112
M	75	104	35	5.9	4.6	112	99	24	18	104	83.6	2.5	109	27.2	27.6	107
Mltsp	4	108	37	6.0	4.8	115	102	22	18	94	83.9	2.5	104	27.1	26.7	106
SLM	63	103	36	5.8	4.6	111	98	29	22	96	83.6	2.7	103	27.4	26.9	107
SLMltsp	5	99	34	5.7	4.4	108	94	30	23	92	83.6	2.8	103	27.5	26.8	106

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 1963 (Continued)

Staple group, area, staple and grade	Spinning lots tested	Fiber length		Micronaire	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		Total	Reflectance	Yellowness	Composite	Reflectance	Yellowness		
	No.	In.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Rd	+b	Index	Rd	+b	Pct.	No.
MEDIUM STAPLE GROUP															
South Central Area (Continued)															
1-3/32" staple															
M	24	1.10	45	4.5	81	22.0	6.0	1.7	77.5	8.5	102	78.7	8.6	6.1	21
SLM	12	1.09	43	4.0	80	21.7	6.3	2.8	75.2	8.3	99	77.1	8.4	7.4	26
1-1/8" staple:															
M	6	1.13	45	4.3	80	22.3	6.4	1.6	78.0	8.4	102	78.3	8.6	5.9	22
Southwest Area															
1-1/32" staple:															
SLM	10	1.03	45	4.6	79	21.2	6.1	2.5	74.7	8.7	98	76.7	8.9	7.2	20
1-1/16 staple:															
M	10	1.06	45	4.4	84	22.4	6.4	1.6	77.7	8.9	103	79.4	8.9	6.3	20
SLM	4	1.08	43	4.3	83	22.0	6.2	1.8	74.4	8.4	97	77.6	8.4	5.8	20
Western Area															
1-1/32" staple:															
M	3	1.04	43	4.1	83	22.9	6.1	2.3	77.9	8.1	102	79.8	8.1	7.6	32
SLM	16	1.02	43	4.2	85	21.5	6.4	2.9	74.7	7.8	97	77.6	8.0	8.0	26
1-1/16" staple:															
M	17	1.04	45	4.6	84	22.6	6.7	2.1	77.1	8.4	101	79.1	8.4	6.3	20
Mltsp	4	1.07	45	4.7	82	21.9	6.7	2.0	75.2	9.1	99	77.6	9.1	6.1	19
SLM	39	1.05	46	4.4	88	23.8	6.1	2.5	73.9	8.0	96	76.7	8.1	6.8	17
LM	7	1.05	45	3.9	88	23.5	5.9	3.6	69.1	7.3	88	72.6	7.5	9.8	29
1-3/32" staple															
M	7	1.07	47	4.2	89	24.7	6.7	2.3	77.7	8.4	102	79.6	8.4	6.6	19
SLM	21	1.06	48	4.3	90	24.7	6.1	2.5	74.0	7.9	96	76.4	8.1	6.7	14
LONG STAPLE GROUP															
Western Area															
1-1/8" staple:															
SLM	7	1.12	42	2.9	85	24.8	5.9	4.4	76.7	7.7	100	78.1	8.0	9.4	48
1-5/32" staple:															
M	15	1.19	45	3.7	85	25.0	6.1	2.1	77.6	8.3	102	78.8	8.4	7.0	27
Mltsp	4	1.20	45	3.8	88	25.4	5.8	2.3	75.5	9.1	100	76.3	9.1	6.9	26
SLM	6	1.17	44	3.3	84	24.9	6.2	3.6	76.6	8.0	100	78.5	8.3	8.3	37

Table 3.--Continued

Staple group, area, staple and grade	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		Reflectance	Yellowness	Composite	Reflectance	Blueness	Composite
	No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.	Index	Rd	+b	Index	Rd	-b	Index
MEDIUM STAPLE GROUP																
South Central Area (Continued)																
1-3/32" staple:																
M	24	114	40	6.3	5.0	108	99	24	18	100	84.2	2.5	105	26.5	27.4	111
SLM	12	109	38	6.2	4.8	108	93	35	26	96	84.1	2.8	104	27.3	26.7	106
1-1/8" staple:																
M	6	122	42	7.0	5.4	105	97	21	18	102	84.4	2.4	106	26.2	27.8	113
Southwest Area																
1-1/32" staple:																
SLM	10	104	37	5.7	4.6	117	102	26	19	99	84.4	2.7	105	27.1	26.9	108
1-1/16" staple:																
M	10	109	38	5.8	4.6	114	97	28	22	101	84.4	2.6	105	26.5	27.6	112
SLM	4	110	39	5.7	4.6	117	100	27	19	93	83.7	2.6	103	27.3	26.8	106
Western Area																
1-1/32" staple:																
M	3	104	36	5.6	4.3	100	90	44	35	102	84.0	2.5	104	27.9	26.7	105
SLM	16	98	32	5.6	4.1	107	93	40	32	96	82.9	2.7	101	28.8	26.1	101
1-1/16" staple:																
M	17	107	37	5.7	4.6	112	98	27	21	100	83.7	2.5	104	27.2	27.3	109
Mltsp	4	107	38	5.8	4.6	115	97	29	22	99	84.2	2.5	105	27.3	27.2	108
SLM	39	115	42	5.7	4.6	115	101	29	21	95	83.5	2.6	103	28.1	26.4	104
LM	7	113	41	5.6	4.6	101	90	44	31	84	82.2	3.3	97	28.7	25.2	98
1-3/32" staple:																
M	7	124	46	5.9	5.1	110	96	34	25	100	84.3	2.6	105	26.6	27.1	109
SLM	21	125	47	5.8	4.9	115	101	28	19	93	83.3	2.8	102	27.5	26.4	104
LONG STAPLE GROUP																
Western Area																
1-1/8" staple:																
SLM	7	131	48	6.8	5.4	83	71	72	48	96	83.3	3.0	101	28.3	25.3	98
1-5/32" staple:																
M	15	140	51	7.1	5.7	99	92	28	22	100	84.2	2.5	105	26.6	26.9	108
Mltsp	4	142	52	6.8	5.6	97	87	28	19	95	83.6	2.7	103	26.0	26.7	109
SLM	6	138	51	7.1	5.8	92	82	41	29	98	84.0	2.7	104	27.6	26.4	104

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 1963

Processing group, variety, and state	Spinning lots tested	Classification		Fiber length		Micronaire	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		Total	Reflectance	Yellowness	Composite	Reflectance	Yellowness		
	No.	Index	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Rd	+b	Index	Rd	+b	Pct.	No.
SHORT STAPLE																	
Gregg Northwest Texas	3	96	29.7	.88	48	4.1	84	22.6	6.9	2.9	74.7	8.8	98	77.2	9.0	6.9	22
Lankart Central Texas	6	96	29.0	.88	45	4.3	82	19.9	62	2.5	72.9	10.1	97	75.1	9.9	7.4	20
Lankart 57 Central Texas	3	97	29.7	.91	44	3.6	85	20.4	5.9	2.4	74.5	10.1	99	76.1	10.1	7.3	26
Northwest Texas	3	95	31.0	.96	45	3.5	68	18.4	8.8	2.7	73.3	9.1	96	75.9	9.0	8.1	27
Lankart 611 Northwest Texas	3	98	30.3	.94	44	3.3	73	19.2	8.1	3.0	73.0	9.1	98	75.2	8.8	8.3	30
Lockett 4789 Northwest Texas	4	93	32.0	.98	45	4.5	85	21.9	5.8	3.4	72.0	9.0	94	72.8	9.3	7.3	18
Paymaster 54B Northwest Texas	3	94	30.0	.94	46	3.2	68	18.9	9.1	3.4	75.1	8.8	99	77.7	8.7	8.3	45
Paymaster 101A Northwest Texas	11	94	30.0	.91	46	4.1	84	21.9	6.0	3.7	73.3	9.1	96	75.5	9.4	8.0	22
Watson B-29 Central Texas	3	97	28.3	.85	46	4.2	94	21.1	4.9	2.8	74.1	9.6	98	75.8	9.8	8.2	26
MEDIUM STAPLE																	
Acala 4-42 California	64	94	34.4	1.05	47	4.3	91	24.6	6.1	2.5	73.7	7.8	96	76.3	8.0	7.0	17
All-in-One South Carolina	3	96	33.0	1.02	46	4.1	78	20.5	5.8	2.1	72.6	8.8	95	73.9	9.0	6.5	32
Auburn 56 Alabama	3	98	33.0	1.03	44	4.1	78	21.2	6.0	1.7	74.9	8.9	99	76.2	9.0	6.2	30
Georgia	1	94	33.0	1.02	44	3.8	72	20.1	6.3	2.4	74.5	8.4	98	76.0	8.2	7.5	35
Carolina Queen Georgia	3	101	33.7	1.04	46	4.6	86	21.6	5.2	1.8	76.1	8.7	100	76.1	9.0	6.1	19
North Carolina	3	104	33.3	1.03	47	4.9	84	21.7	5.9	1.1	78.1	8.6	103	77.8	8.7	5.4	13
South Carolina	3	103	33.0	1.02	47	5.0	87	21.2	5.6	1.5	76.4	8.8	101	77.0	8.7	6.2	13
Coker 100 Alabama	7	100	33.3	1.03	45	4.1	80	21.2	5.9	2.0	76.3	8.4	100	77.2	8.5	6.5	26
Florida	3	96	32.7	1.02	45	4.2	73	19.4	6.1	2.3	73.2	9.0	96	75.0	8.8	7.2	24
Georgia	6	99	33.3	1.04	45	4.1	79	20.9	5.9	2.0	75.4	8.7	99	76.7	8.7	6.6	28
Delfos 9169 Arkansas	6	92	34.5	1.09	42	3.9	78	20.7	6.4	2.9	74.0	8.5	97	76.5	8.5	7.4	23
Delta Queen Mississippi	3	96	35.7	1.11	44	4.0	81	22.0	6.0	2.7	76.6	8.1	100	77.4	8.4	7.9	37

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		Reflectance	Yellowness	Composite	Reflectance	Blueness	Composite
	No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.	Index	Rd	+b	Index	Rd	-b	Index
SHORT STAPLE																
Gregg			8s		8s		8s		8s							
Northwest Texas	3	100	318	6.1	6.5	117	120	28	45	98	82.4	3.1	99	27.6	26.3	104
Lankart																
Central Texas	6	84	272	5.1	5.9	108	117	41	63	95	83.5	3.1	101	26.5	27.6	111
Lankart 57																
Central Texas	3	91	293	5.5	6.3	107	113	40	66	100	84.2	3.2	102	27.6	26.9	106
Northwest Texas	3	89	288	7.2	8.2	100	110	56	87	94	82.8	3.0	100	26.1	26.6	108
Lankart 611																
Northwest Texas	3	91	296	6.9	7.6	100	110	59	95	96	83.2	2.8	102	26.5	26.5	107
Lockett 4789																
Northwest Texas	4	100	316	5.6	6.3	112	120	29	48	96	82.3	2.9	99	27.4	26.6	105
Paymaster 54B																
Northwest Texas	3	94	308	7.3	8.3	93	107	59	85	97	83.8	3.2	102	26.3	26.7	108
Paymaster 101A																
Northwest Texas	11	98	314	5.8	6.4	107	119	39	63	96	82.7	3.2	99	27.3	26.3	104
Watson B-29																
Central Texas	3	83	272	4.7	5.2	107	113	36	58	97	82.9	3.0	100	26.1	27.6	112
MEDIUM STAPLE																
Acala 4-42			50s		50s		50s		50s							
California	64	122	45	5.8	4.8	114	100	29	20	93	83.2	2.8	102	27.8	26.3	103
All-in-One																
South Carolina	3	107	34	6.2	4.6	100	90	34	29	91	83.4	2.9	102	28.9	26.4	103
Auburn 56																
Alabama	3	108	34	6.4	4.7	103	93	21	16	98	83.9	3.0	103	27.6	26.4	104
Georgia	1	104	33	6.7	4.8	100	90	29	24	93	83.9	2.6	104	27.6	26.4	104
Carolina Queen																
Georgia	3	102	34	5.7	4.5	107	100	20	15	98	83.3	3.1	101	27.6	26.8	106
North Carolina	3	110	34	6.2	4.6	117	107	14	11	100	83.4	2.5	103	26.3	28.0	113
South Carolina	3	108	33	5.8	4.4	113	103	11	9	99	83.3	2.7	102	26.7	27.4	110
Coker 100																
Alabama	7	110	36	6.5	5.0	104	93	22	19	99	84.4	2.6	106	28.5	26.5	103
Florida	3	101	33	6.6	4.9	97	93	25	21	96	84.3	2.7	105	28.0	26.8	105
Georgia	6	104	35	6.2	4.7	102	97	30	24	97	84.4	2.8	104	28.3	26.5	103
Delfos 9169																
Arkansas	6	99	35	5.7	4.4	108	93	33	25	93	84.2	3.0	103	27.4	26.6	106
Delta Queen																
Mississippi	3	117	39	6.6	5.0	93	83	37	32	99	83.4	2.6	103	27.0	27.2	109

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 1963--Continued

Processing group, variety, and state	Spinning lots tested	Classification		Fiber length		Micronaire	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		Total	Reflectance	Yellowness	Composite	Reflectance	Yellowness		
	No.	Index	32d in.	in.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Rd	+b	Index	Rd	+b	Pct.	No.
MEDIUM STAPLE (Cont'd.)																	
Dekalb 108																	
Alabama	3	90	33.0	1.02	46	3.9	81	21.0	5.8	3.1	73.3	8.2	95	75.6	8.6	7.5	22
Dekalb 220																	
Georgia	3	100	34.0	1.05	46	4.6	81	21.8	6.3	1.6	77.0	8.9	102	77.5	8.9	5.9	17
Dixie King																	
Georgia	3	100	33.7	1.03	45	4.4	80	20.7	5.4	1.8	76.3	8.9	101	77.5	8.8	6.2	30
Mississippi	3	96	34.3	1.08	45	4.7	87	22.1	4.9	3.4	75.0	8.3	98	75.9	8.6	7.6	23
DPL-15																	
Alabama	3	101	33.3	1.04	45	4.0	78	20.9	6.5	1.5	77.0	8.6	101	77.4	8.8	5.8	24
Mississippi	4	96	35.0	1.07	45	4.0	81	22.5	6.5	2.3	77.7	8.1	102	79.4	8.3	6.7	32
DPL Smooth Leaf																	
Arkansas	13	97	34.0	1.06	44	4.5	80	22.3	6.8	2.2	75.8	8.6	100	78.2	8.6	6.3	17
Louisiana	6	100	33.8	1.05	45	5.1	83	22.0	6.1	1.4	76.6	8.9	101	78.6	8.9	5.9	14
Mississippi	25	98	34.6	1.08	44	4.4	78	22.0	6.6	1.9	77.0	8.2	101	78.2	8.4	6.5	26
Tennessee	3	103	34.3	1.09	44	4.4	79	22.9	6.8	1.3	78.8	8.3	103	79.7	8.1	5.8	34
Arizona	22	97	33.5	1.04	44	4.5	82	22.2	6.8	2.5	75.8	8.4	99	78.2	8.4	7.1	22
California	10	96	33.5	1.03	43	4.5	85	22.3	6.1	2.4	74.5	8.1	97	77.5	8.2	7.2	21
Empire																	
Georgia	3	100	33.7	1.04	45	4.2	85	21.1	5.3	2.1	76.5	8.7	101	77.3	8.6	6.3	19
Arkansas	3	98	33.3	1.03	44	4.3	83	21.4	4.7	1.9	74.2	8.5	97	76.5	8.4	6.0	24
Fox 4																	
Arkansas	3	98	34.0	1.02	46	4.8	85	22.4	5.2	2.5	76.5	8.4	101	78.8	8.4	6.5	12
Mississippi	3	93	34.7	1.09	47	4.8	84	23.1	5.7	2.8	74.4	8.7	98	75.9	9.0	7.4	15
Rex																	
North Carolina	3	101	32.7	1.02	46	4.4	76	20.0	6.2	1.4	77.7	8.6	102	77.9	8.6	5.8	24
Arkansas	9	97	33.8	1.02	43	4.1	81	20.2	5.4	2.2	76.1	8.4	100	78.7	8.4	6.6	24
Rex Smooth Leaf																	
Arkansas	3	101	33.7	1.03	44	4.3	85	20.8	5.0	2.0	76.7	8.7	101	78.8	8.7	5.6	15
Stardel																	
Louisiana	3	96	33.7	1.04	44	4.6	94	22.4	4.0	2.7	74.4	8.6	98	76.7	8.7	6.8	16
Stoneville 7-A																	
Arkansas	9	96	34.2	1.07	45	4.7	87	21.6	4.6	2.8	75.6	8.5	100	78.0	8.6	6.7	17
Mississippi	5	99	35.6	1.11	47	4.6	83	21.8	5.4	2.8	77.3	8.4	101	78.5	8.5	6.8	15
Arizona	4	93	33.7	1.05	43	4.5	83	19.8	5.0	3.4	74.5	8.6	98	77.6	8.6	7.6	18
Stoneville 213																	
Arkansas	2	97	34.5	1.05	45	4.5	79	20.6	5.9	2.3	76.0	8.4	99	77.8	8.7	7.1	16
Mississippi	4	97	34.2	1.07	45	4.8	80	21.4	6.0	2.1	75.9	8.3	100	77.0	8.5	7.0	23
LONG STAPLE																	
Acala 1517D																	
West Texas	4	95	36.7	1.15	43	3.2	86	25.3	5.8	3.3	74.7	8.0	98	76.8	8.4	8.0	37

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		Reflectance	Yellowness	Composite	Reflectance	Blueness	Composite
	No.	Lbs.	Lbs.	Pct.	Pct.	Index	Index	No.	No.	Index	Rd	+b	Index	Rd	-b	Index
MEDIUM STAPLE Cont'd.)																
Dekalb 108			50s		50s		50s		50s							
Alabama	3	110	37	6.7	5.2	107	100	30	24	95	83.5	3.0	102	28.5	26.4	103
Dekalb 220																
Georgia	3	113	38	6.9	5.3	110	100	16	12	100	84.1	2.7	105	26.6	27.3	110
Dixie King																
Georgia	3	106	34	6.1	4.5	107	100	20	14	100	84.5	2.6	106	27.7	26.7	105
Mississippi	3	114	38	5.9	4.5	103	93	31	25	97	83.4	2.4	104	28.3	26.4	103
DPL-15																
Alabama	3	113	39	6.8	5.3	107	93	19	15	100	83.6	2.8	103	28.0	26.6	105
Mississippi	4	121	42	6.8	5.4	97	90	23	20	101	84.2	2.6	105	27.1	27.2	108
DPL Smooth Leaf																
Arkansas	13	108	38	6.1	4.9	115	102	25	19	97	83.8	2.7	104	26.8	27.0	109
Louisiana	6	102	34	5.5	4.3	120	103	17	12	99	83.3	2.6	103	26.8	27.5	110
Mississippi	25	115	39	6.8	5.3	103	96	23	19	99	83.9	2.3	105	26.7	27.4	110
Tennessee	3	116	39	7.0	5.2	100	90	21	19	101	84.5	2.3	107	26.1	28.0	114
Arizona	22	102	35	5.7	4.4	110	95	33	26	98	83.7	2.5	104	27.6	26.9	107
California	10	97	31	5.3	4.0	112	98	32	24	98	83.5	2.6	103	28.1	26.8	105
Empire																
Georgia	3	105	34	5.9	4.4	107	100	19	15	98	84.1	2.6	105	28.0	26.5	104
Arkansas	3	101	36	5.4	4.1	113	97	28	20	93	83.4	2.9	102	28.1	26.6	104
Fox 4																
Arkansas	3	103	35	5.5	4.2	117	103	27	20	100	84.1	2.8	104	27.1	27.2	109
Mississippi	3	118	41	6.4	5.1	100	98	35	22	96	83.5	2.3	105	26.8	27.3	110
Rex																
North Carolina	3	102	34	6.5	5.0	107	103	18	16	100	83.9	2.8	103	27.1	27.1	108
Arkansas	9	94	32	5.5	4.2	112	94	32	24	98	84.8	2.7	106	28.0	26.7	105
Rex Smooth Leaf																
Arkansas	3	99	34	5.4	4.3	113	103	19	14	99	84.5	2.9	105	28.5	26.3	102
Stardel																
Louisiana	3	104	35	4.9	3.9	117	97	29	23	95	82.8	3.0	100	28.6	26.1	101
Stoneville 7A																
Arkansas	9	104	36	5.2	4.1	116	102	29	20	98	83.0	2.6	102	27.5	27.0	107
Mississippi	5	115	39	6.2	4.8	114	102	15	12	101	83.7	2.2	105	26.6	27.6	111
Arizona	4	96	33	5.0	4.0	112	97	37	29	97	83.8	2.7	104	29.7	25.9	98
Stoneville 213																
Arkansas	2	97	34	5.6	4.7	120	100	27	19	98	84.3	2.7	104	26.8	27.4	110
Mississippi	4	106	35	6.2	4.7	102	95	21	19	98	83.6	2.4	104	27.3	27.4	109
LONG STAPLE																
Acala 1517D																
West Texas	4	136	49	6.8	5.5	95	82	47	30	94	83.0	2.9	101	27.5	26.1	103

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 1963 -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			Elon-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		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
SOUTHWEST AREA																
SOUTH TEXAS																
CORPUS CHRISTI		STONEVILLE 213				85 PERCENT										
M LT SP	30	0.90	46	4.8	80	39.6	19.7	5.8	1.3	2.1	73.7	9.4	98	553	76.3	9.6
M LT SP	30	0.93	47	4.7	81	40.1	21.3	5.9	1.3	2.2	73.4	9.8	97	553	76.9	10.1
M LT SP	30	0.93	45	4.4	79	39.1	20.8	5.6	1.8	2.8	73.1	9.5	97	553	75.2	10.0
RUNGE		LANKART 57				75 PERCENT										
M LT SP	30	0.93	47	4.6	77	38.1	20.1	6.8	1.3	2.2	72.8	10.0	96	553	74.0	10.2
M LT SP	31	0.92	43	4.1	77	38.1	19.8	7.0	1.5	2.8	71.9	10.2	95	554	73.9	10.0
M LT SP	30	0.93	43	3.7	80	39.6	20.8	6.9	1.8	3.3	71.9	10.1	95	553	74.7	10.1
TAFT		LANKART 611				75 PERCENT										
M LT SP	30	0.90	46	4.6	80	39.6	19.8	6.2	0.9	1.7	73.4	9.3	97	553	74.5	9.6
M LT SP	30	0.91	45	4.6	75	37.1	19.2	6.4	1.5	2.3	72.9	9.8	96	553	75.1	9.8
M LT SP	29	0.90	45	4.2	78	38.6	19.8	5.8	1.4	2.3	73.9	9.5	98	553	76.6	9.6
CENTRAL TEXAS																
ENNIS		WATSON 829				100 PERCENT										
M LT SP	29	0.86	45	3.7	94	46.5	20.8	5.2	1.5	2.5	74.4	9.7	99	503	75.6	9.9
M LT SP	28	0.84	47	4.5	96	47.5	21.0	4.6	1.6	2.8	74.0	9.8	98	503	75.4	9.8
M LT SP	28	0.86	46	4.3	91	45.0	21.6	5.0	1.9	3.1	73.9	9.3	98	553	76.5	9.6
FORNEY		LANKART				99 PERCENT										
M LT SP	29	0.90	45	4.0	86	42.6	19.8	5.8	1.3	2.0	72.0	10.3	96	554	74.0	10.0
M LT SP	29	0.92	45	4.7	85	42.1	20.7	6.2	1.2	2.4	72.7	10.2	97	504	74.1	10.1
M LT SP	29	0.90	46	4.8	84	41.6	21.0	5.8	1.6	3.2	71.3	9.7	94	603	73.4	9.7
ITASCA		LANKART				100 PERCENT										
M LT SP	29	0.87	46	4.4	84	41.6	19.6	6.2	1.3	1.8	73.4	9.8	98	553	75.0	9.6
M LT SP	29	0.88	46	4.5	82	40.6	20.3	6.5	1.6	2.6	73.8	10.2	98	503	75.1	9.9
M LT SP	29	0.88	45	4.6	80	39.6	19.5	6.4	1.6	3.0	72.9	10.1	97	553	74.9	9.9
LOCKART		ANTON 99				70 PERCENT										
SM LT SP	31	0.98	46	4.2	78	38.6	21.7	5.9	0.7	1.1	75.9	9.7	101	453	77.3	9.3
M LT SP	31	0.97	44	3.8	82	40.6	20.6	6.4	0.8	1.4	74.1	9.8	99	503	75.8	9.9
M LT SP	30	0.94	44	4.0	82	40.6	19.2	6.4	1.0	1.5	74.0	10.0	99	503	75.4	9.7
PILOT POINT		LANKART				100 PERCENT										
M LT SP	29	0.88	46	4.3	84	41.6	20.5	6.1	1.0	1.7	74.1	10.0	99	503	76.1	10.0
SLM LT SP	29	0.90	45	4.0	81	40.1	20.7	6.2	2.1	3.2	71.6	10.2	95	554	75.0	10.3
M LT SP	29	0.89	45	4.0	81	40.1	18.9	5.9	1.5	2.6	71.9	10.2	95	554	74.3	9.9
THRALL		LANKART 57				75 PERCENT										
M LT SP	31	0.97	44	3.8	82	40.6	21.5	5.6	1.1	2.2	75.0	9.7	100	503	77.1	9.4
M LT SP	30	0.95	44	3.9	82	40.6	20.5	6.2	1.4	2.0	74.1	9.8	99	503	76.1	9.9
M LT SP	30	0.93	46	3.8	85	42.1	21.6	5.3	1.4	2.1	76.0	10.2	101	453	77.3	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 1963 -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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-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
SOUTHWEST AREA																									
SOUTH TEXAS																									
CORPUS CHRISTI		STONEVILLE 213					85 PERCENT																		
M LT SP	30	7.8	18	270	84	2004	6.3	5.1	120	110	115	50	31	35	80	69.2	12.2	98	83.8	3.2	101	26.1	27.8	113
M LT SP	30	7.8	22	280	91	2121	5.8	5.2	120	120	120	64	42		90	68.8	12.7	99	84.0	3.0	103	26.7	26.6	107
M LT SP	30	8.0	25	283	90	2122	6.7	5.7	120	100	110	73	54		80	68.1	12.5	98	84.3	3.1	103	27.1	27.0	108
RUNGE		LANKART 57					75 PERCENT																		
M LT SP	30	7.4	21	301	93	2227	6.8	5.7	120	120	120	53	34	41	80	67.3	12.6	96	84.2	2.9	104	25.6	27.4	112
M LT SP	31	8.8	46	285	89	2119	6.7	6.1	110	100	105	106	65		70	66.1	12.7	94	84.5	3.2	103	25.5	27.4	113
M LT SP	30	8.6	46	296	93	2207	6.7	5.6	110	100	105	84	56		70	66.9	12.7	95	84.0	3.5	101	25.6	27.1	111
TAFT		LANKART 611					75 PERCENT																		
M LT SP	30	7.7	18	274	84	2020	6.2	5.2	120	110	115	46	30	34	80	67.9	12.0	94	83.1	3.2	100	25.7	27.6	113
M LT SP	30	7.6	16	287	90	2138	6.2	5.7	120	120	120	49	32		90	68.4	12.5	98	85.0	3.0	105	26.3	27.1	110
M LT SP	29	8.1	29	273	86	2038	6.4	5.6	120	110	115	67	45		80	68.6	12.6	99	83.9	3.4	101	27.4	26.6	106
CENTRAL TEXAS																									
ENNIS		WATSON 829					100 PERCENT																		
M LT SP	29	8.7	41	255	74	1834	4.8	4.3	100	90	95	72	49	24	100	68.1	12.6	98	82.2	2.9	99	25.9	27.6	113
M LT SP	28	8.7	22	283	87	2089	5.5	5.0	120	110	115	46	25		90	67.4	12.2	95	83.4	3.0	102	25.7	27.9	114
M LT SP	28	7.2	16	278	87	2069	5.3	4.7	120	120	120	55	34		90	68.1	12.4	98	83.0	3.0	100	26.8	27.3	110
FORNEY		LANKART					99 PERCENT																		
M LT SP	29	9.0	32	247	73	1791	5.3	4.7	110	100	105	103	68	27	80	67.4	13.2	99	82.2	2.8	99	27.1	27.3	109
M LT SP	29	6.9	12	271	87	2041	6.2	5.1	120	110	115	52	31		80	66.0	12.9	94	83.6	2.8	103	26.7	27.6	111
M LT SP	29	7.2	17	274	87	2053	5.4	5.2	120	110	115	64	41		80	65.8	12.5	92	85.7	2.9	107	27.2	26.5	106
ITASCA		LANKART					100 PERCENT																		
M LT SP	29	6.7	17	278	85	2047	5.9	4.8	120	110	115	60	38	34	100	67.5	12.8	97	83.9	3.1	102	26.3	27.8	113
M LT SP	29	7.4	10	282	86	2074	6.3	5.4	120	110	115	53	32		80	67.3	13.0	98	84.0	2.8	104	26.1	27.7	113
M LT SP	29	6.9	12	264	81	1947	5.7	5.1	120	110	115	63	41		80	65.6	13.4	96	82.8	3.2	99	27.3	27.3	108
LOCKART		ANTON 99					70 PERCENT																		
SM LT SP	31	5.9	21	342	105	2523	6.7	6.3	120	120	120	38	26	45	100	70.1	12.6	102	83.9	2.8	103	25.3	27.3	112
M LT SP	31	6.8	25	315	100	2360	6.9	6.1	120	110	115	48	30		100	68.5	12.6	98	85.1	3.0	105	25.7	27.3	112
M LT SP	30	6.4	21	288	91	1753	5.8	5.6	120	110	115	44	31		100	68.0	12.7	98	84.5	2.9	104	27.7	27.5	109
PILOT POINT		LANKART					100 PERCENT																		
M LT SP	29	7.2	23	273	85	2027	6.0	5.3	120	110	115	50	32	33	100	67.8	12.8	98	84.2	2.9	104	25.7	28.1	115
SLM LT SP	29	9.0	36	274	86	2042	6.1	5.0	110	100	105	81	60		80	63.7	12.8	88	83.4	3.1	101	26.3	27.7	112
M LT SP	29	7.0	25	262	81	1939	5.4	4.8	110	110	110	71	43		90	64.6	13.4	93	82.8	3.8	97	27.3	27.1	108
THRALL		LANKART 57					75 PERCENT																		
M LT SP	31	7.0	40	308	98	2310	6.8	6.0	110	100	105	65	44	44	100	69.8	12.4	100	84.7	2.9	105	25.7	26.8	110
M LT SP	30	8.2	37	277	90	2098	5.7	5.6	110	100	105	70	46		90	69.4	12.5	100	85.2	2.7	107	25.3	27.0	111
M LT SP	30	7.5	44	286	91	2145	5.7	5.2	110	100	105	69	46		90	69.3	12.9	101	84.2	2.9	104	27.2	27.5	110

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 1963-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			Elon-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		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
SOUTHWEST AREA--CONTINUED																
CENTRAL TEXAS																
WACO		LANKART 57				100 PERCENT										
M LT SP	29	0.91	43	3.4	89	44.1	19.8	5.7	1.1	1.8	75.0	10.2	100	453	77.0	10.0
M LT SP	30	0.90	44	3.8	83	41.1	20.0	6.2	1.4	2.6	74.1	10.2	99	503	76.0	10.0
M LT SP	30	0.92	44	3.6	83	41.1	21.5	5.9	1.9	2.7	74.3	10.0	99	503	75.3	10.3
WILLS POINT		LANKART				99 PERCENT										
M LT SP	30	0.92	46	4.8	85	42.1	20.9	5.5	1.2	2.4	73.1	10.3	98	503	74.8	10.2
M SP	29	0.91	44	4.6	80	39.6	18.9	5.6	1.8	3.0	70.1	10.4	92	554	72.9	10.5
M LT SP	30	0.94	45	4.4	79	39.1	19.6	6.1	1.5	2.0	71.0	10.1	93	554	72.6	10.1
NORTHWEST TEXAS																
ACKERLY		WESTERN STORMPROOF				95 PERCENT										
M LT SP	29	0.88	46	4.3	83	41.1	20.9	5.0	1.7	2.6	74.8	9.2	99	553	76.8	9.0
M LT SP	30	0.89	45	4.3	82	40.6	20.2	5.5	1.9	3.1	73.8	9.4	98	553	75.7	9.2
M LT SP	30	0.92	45	4.0	82	40.6	20.2	5.7	2.0	3.5	72.8	9.2	96	603	75.3	9.0
SLM LT SP	30	0.94	45	3.6	81	40.1	19.9	5.8	2.6	4.5	71.8	8.9	93	603	75.0	9.5
AIKEN		PAYMASTER 54B				100 PERCENT										
M	30	0.94	48	3.6	68	33.7	18.9	9.5	1.2	2.5	77.5	8.4	102	502	79.0	8.6
SLM	30	0.94	46	3.2	68	33.7	18.9	9.5	2.1	3.5	75.2	7.8	98	601	79.0	7.7
SLM LT SP	30	0.94	45	2.9	68	33.7	19.0	8.3	2.5	4.2	72.7	10.1	96	553	75.0	9.9
AIKEN		PAYMASTER 101A				100 PERCENT										
SLM LT SP	30	0.94	45	3.0	74	36.6	19.5	7.6	2.0	3.1	72.1	9.4	95	603	74.1	9.8
M LT SP	30	0.93	45	3.3	74	36.6	20.8	6.3	1.6	3.6	72.0	9.8	95	553	73.8	10.3
SLM LT SP	30	0.94	45	3.0	77	38.1	20.3	6.8	2.1	3.5	72.9	9.6	96	553	75.1	9.8
ANTON		LANKART 57				100 PERCENT										
M	31	0.97	46	4.0	66	32.7	18.9	8.8	1.2	2.3	75.8	8.8	100	552	78.1	8.6
M LT SP	31	0.95	44	3.3	69	34.2	18.4	9.3	1.4	2.7	73.1	9.0	96	603	75.6	9.1
SLM LT SP	31	0.96	44	3.2	69	34.2	18.0	8.2	2.2	3.0	71.0	9.4	92	603	73.9	9.3
BIG SPRING		WESTERN STORMPROOF				90 PERCENT										
M LT SP	30	0.92	46	4.4	87	43.1	20.4	4.4	1.0	2.2	74.3	9.8	99	503	76.4	9.6
SM LT SP	29	0.90	46	4.3	83	41.1	20.2	5.6	1.1	1.7	75.6	9.6	100	503	77.2	9.3
M LT SP	29	0.90	44	4.4	81	40.1	19.8	5.8	1.1	2.3	75.0	9.2	99	553	77.0	9.0
M LT SP	30	0.90	45	4.4	82	40.6	19.6	4.6	0.9	1.9	71.9	9.1	94	603	73.4	8.8
BROWNFIELD		GREGG				90 PERCENT										
M LT SP	30	0.92	44	4.2	72	35.6	19.6	7.6	1.3	2.7	74.1	9.4	98	553	75.8	9.5
SLM	30	0.89	46	3.9	85	42.1	22.6	6.7	2.0	2.9	73.1	8.3	96	602	76.8	8.3
SLM	30	0.92	45	3.5	86	42.6	23.9	5.8	2.3	3.7	73.1	8.4	96	602	75.7	8.6
COLORADO CITY		WESTERN STORMPROOF				95 PERCENT										
M LT SP	29	0.88	45	4.2	90	44.6	21.4	4.2	1.0	2.1	73.3	9.8	97	553	75.4	9.5
M LT SP	29	0.90	43	4.3	87	43.1	20.0	4.9	1.3	2.7	72.0	9.3	95	603	74.8	9.3
SLM LT SP	30	0.94	45	4.3	83	41.1	19.8	4.2	2.3	3.8	71.1	9.0	92	603	73.8	9.1
SLM LT SP	30	0.90	45	4.2	83	41.1	19.7	4.9	1.6	3.4	71.8	8.4	93	652	75.6	8.4

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 1963 -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		
Grade	Staple			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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
SOUTHWEST AREA--CONTINUED																								
CENTRAL TEXAS																								
WACO			LANKART 57					100 PERCENT																
M LT SP	29	6.9	23	306	94	2258	6.0	5.6	110	100	105	65	37	38	100	68.8	13.0	100	85.1	3.5	103	26.3	27.0	109
M LT SP	30	8.1	26	290	90	2150	6.4	5.5	120	110	115	67	43		90	68.0	13.2	100	83.3	3.0	101	28.3	26.9	105
M LT SP	30	6.8	29	283	88	2100	6.5	5.4	110	110	110	67	41		90	68.3	13.2	100	84.2	3.0	103	28.1	26.7	105
WILLS POINT			LANKART					99 PERCENT																
M LT SP	30	7.7	19	271	83	1997	5.8	5.0	120	110	115	61	32	34	80	66.6	12.5	94	83.6	2.7	103	25.7	28.2	115
M SP	29	7.7	18	266	81	1955	5.9	4.9	120	110	115	50	31		90	63.5	13.4	90	83.3	3.2	100	27.8	26.6	105
M LT SP	30	6.9	12	259	80	1916	5.3	4.5	120	110	115	78	41		80	65.3	13.3	94	82.6	3.2	99	28.3	26.6	104
NORTHWEST TEXAS																								
ACKERLY			WESTERN STORMPROOF					95 PERCENT																
M LT SP	29	7.0	19	280	89	2099	5.4	4.8	120	120	120	50	28	36	90	68.4	11.8	96	81.9	3.6	95	24.9	27.8	115
M LT SP	30	7.1	29	277	86	2054	5.6	5.2	120	100	110	61	40		90	67.9	12.2	96	82.4	3.5	97	25.5	27.1	111
M LT SP	30	8.4	14	298	90	2182	6.3	5.6	120	110	115	46	26		90	68.3	11.8	96	81.9	3.7	95	26.8	26.5	106
SLM LT SP	30	8.7	26	299	93	2219	6.4	5.3	120	110	115	86	53	39	80	65.6	11.6	88	80.3	3.4	93	27.3	25.9	103
AIKEN			PAYMASTER 54B					100 PERCENT																
M	30	6.6	37	311	96	2300	8.3	7.5	110	100	105	51	34	46	90	72.5	11.2	101	84.3	2.7	105	25.7	27.1	111
SLM	30	8.4	38	306	91	2225	8.4	7.6	110	100	105	73	48		80	70.0	11.1	96	84.0	3.4	101	26.8	26.4	106
SLM LT SP	30	9.8	60	307	95	2273	8.2	6.9	100	80	90	132	94		70	65.8	13.2	95	83.2	3.4	99	26.4	26.5	107
AIKEN			PAYMASTER 101A					100 PERCENT																
SLM LT SP	30	8.6	38	300	93	2223	7.3	6.7	120	100	110	84	47	42	70	66.6	12.5	94	84.1	3.5	101	26.6	26.2	106
M LT SP	30	7.2	28	309	95	2281	7.0	6.5	120	100	110	66	43		80	66.8	13.1	97	83.8	3.6	100	27.7	26.2	103
SLM LT SP	30	9.2	34	312	96	2304	6.9	6.3	110	100	105	90	58		80	65.6	12.8	93	82.9	3.6	98	27.7	25.7	101
ANTON			LANKART 57					100 PERCENT																
M	31	6.5	22	291	90	2154	8.7	7.4	120	110	115	59	34	46	100	70.1	11.5	98	84.6	2.6	106	25.5	27.1	111
M LT SP	31	7.6	26	295	89	2159	8.4	7.3	110	100	105	75	45		80	68.0	11.9	95	83.3	3.2	100	25.8	26.7	109
SLM LT SP	31	10.3	34	277	87	2065	7.4	6.8	100	90	95	127	90		70	65.2	11.5	88	80.6	3.2	94	27.0	26.1	104
BIG SPRING			WESTERN STORMPROOF					90 PERCENT																
M LT SP	30	5.5	27	302	97	2275	5.8	5.2	120	110	115	39	26	41	100	67.9	12.6	97	82.3	3.6	97	25.7	26.9	110
SM LT SP	29	6.6	16	283	89	2111	5.2	4.7	120	110	115	39	18		100	68.5	12.3	98	82.5	3.5	97	27.4	26.9	107
M LT SP	29	6.4	27	274	85	2031	5.6	5.0	120	110	115	48	26		100	69.9	11.4	97	83.0	3.0	100	26.3	27.2	110
M LT SP	30	6.9	22	270	80	1960	5.5	4.7	120	100	110	54	34	30	100	67.4	11.0	90	79.4	3.6	90	28.8	26.0	100
BROWNFIELD			GREGG					90 PERCENT																
M LT SP	30	7.4	22	275	85	2035	6.4	5.7	110	100	105	70	47	37	80	68.0	12.1	96	83.7	3.0	102	26.1	27.6	112
SLM	30	7.3	23	316	101	2375	6.5	5.9	120	100	110	68	39		80	69.1	11.2	95	82.2	3.5	97	27.2	26.2	104
SLM	30	9.3	41	331	107	2501	6.6	5.8	120	100	110	66	44		80	68.0	11.0	91	82.0	3.2	97	28.1	25.5	100
COLORADO CITY			WESTERN STORMPROOF					95 PERCENT																
M LT SP	29	6.8	18	262	80	1928	5.6	4.3	120	110	115	42	25		80	68.3	12.5	98	82.7	3.4	98	26.1	27.4	111
M LT SP	29	7.0	12	264	79	1925	5.4	4.5	120	110	115	45	25		90	69.6	12.0	98	82.4	3.8	96	27.5	26.3	104
SLM LT SP	30	8.1	20	268	85	2007	5.3	4.5	120	100	110	57	32	38	100	67.0	11.4	90	80.3	3.6	92	28.1	25.9	101
SLM LT SP	30	7.8	13	280	86	2066	5.7	4.5	120	110	115	68	44		100	67.1	11.0	90	79.6	3.0	92	27.7	26.0	103

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 1963.--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			Elon-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		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
SOUTHWEST AREA--CONTINUED																
NORTHWEST TEXAS																
DAUGHERTY		LANKART 57				75 PERCENT										
SLM	31	0.99	44	4.2	71	35.1	19.6	8.5	1.8	3.1	73.9	8.6	97	602	77.2	8.8
SLM	31	0.96	44	3.8	74	36.6	20.3	7.1	1.9	3.4	74.5	8.6	98	552	76.9	8.8
SLM	31	0.96	44	4.1	75	37.1	20.1	7.1	1.9	3.2	72.8	8.3	95	602	75.0	8.0
DIMMIT		GREGG				95 PERCENT										
LM	30	0.92	48	3.7	83	41.1	21.5	7.0	3.4	5.2	74.1	8.2	97	602	78.9	8.8
SLM LT SP	29	0.86	48	3.6	85	42.1	22.2	7.0	4.3	5.9	71.5	9.0	93	603	74.2	9.2
LM LT SP	30	0.88	48	3.4	82	40.6	21.5	5.6	6.4	8.0	70.0	9.2	90	653	74.0	9.8
EARTH		GREGG				80 PERCENT										
M	28	0.84	47	3.6	84	41.6	21.9	6.8	1.2	2.5	74.9	8.8	99	552	77.0	8.8
SLM LT SP	29	0.86	43	2.6	84	41.6	21.0	5.9	4.2	5.8	71.3	9.9	94	553	71.3	11.3
SLM LT SP	29	0.86	45	2.7	84	41.6	22.9	5.6	3.1	4.9	70.9	10.2	93	554	73.9	10.1
FARWELL		GREGG				75 PERCENT										
SLM	30	0.93	47	3.5	82	40.6	22.1	7.1	2.0	3.5	75.0	8.0	98	602	79.2	8.0
SLM LT SP	30	0.92	46	3.0	84	41.6	22.0	5.5	2.8	4.5	71.5	9.4	94	603	75.1	9.7
SLM LT SP	30	0.91	46	3.1	85	42.1	21.6	6.3	2.6	3.2	73.5	9.4	97	553	75.5	9.6
HEREFORD		GREGG				90 PERCENT										
M LT SP	30	0.89	46	3.6	77	38.1	20.1	7.6	2.0	3.5	76.9	8.4	101	502	79.2	8.4
SLM LT SP	29	0.88	44	3.2	85	42.1	22.0	6.3	3.5	5.1	71.5	9.2	93	603	74.1	9.2
LM LT SP	30	0.93	46	3.1	85	42.1	22.7	6.2	5.8	7.0	70.5	8.9	91	653	76.0	9.2
IDALOU		LANKART 611				100 PERCENT										
M	31	0.95	44	3.6	72	35.6	19.4	7.9	1.6	3.2	72.0	8.7	101	502	73.4	8.7
M LT SP	30	0.94	43	3.0	72	35.6	19.0	8.7	1.6	2.8	73.9	9.1	97	553	76.5	9.0
M LT SP	30	0.94	45	3.2	75	37.1	19.1	7.7	1.5	3.0	73.1	9.4	96	553	75.8	8.7
LAKEVIEW		GREGG				75 PERCENT										
M LT SP	30	0.94	46	4.0	85	42.1	23.0	5.7	1.4	2.4	74.8	9.2	99	553	77.6	9.3
M LT SP	30	0.90	45	4.2	80	39.6	20.9	6.4	1.4	2.6	74.0	9.2	98	553	76.9	8.8
M LT SP	30	0.90	45	3.8	85	42.1	22.3	6.4	1.4	2.9	71.2	9.5	93	603	74.1	9.0
SLM LT SP	30	0.92	46	4.0	84	41.6	22.2	5.3	1.6	3.8	69.1	9.4	89	653	71.7	9.2
LAKEVIEW		PAYMASTER 101A				100 PERCENT										
M	30	0.91	48	4.7	88	43.6	23.4	5.9	2.3	3.1	76.8	8.7	101	502	78.7	8.9
M LT SP	30	0.92	46	4.4	84	41.6	22.5	6.2	2.6	3.6	75.1	8.6	99	552	77.2	8.8
SLM LT SP	30	0.89	45	4.2	83	41.1	21.9	6.6	3.0	4.3	72.1	8.8	94	603	74.5	8.8
SLM LT SP	30	0.92	46	3.9	80	39.6	21.6	5.9	3.1	4.8	72.4	9.0	95	603	74.5	9.2
LUBBOCK		PAYMASTER 101A				75 PERCENT										
SM	30	0.94	47	4.1	76	37.6	20.2	8.3	0.8	1.8	76.8	9.1	101	502	78.1	8.5
M	30	0.92	45	3.6	74	36.6	21.8	7.4	1.4	3.0	75.1	8.9	99	552	78.5	8.7
M LT SP	30	0.90	45	3.4	73	36.1	19.3	7.9	1.4	3.3	73.8	8.7	96	602	76.4	8.8
SLM	30	0.92	45	3.6	76	37.6	20.4	7.0	1.6	3.2	71.6	8.4	92	652	74.1	8.5

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 1963 -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		
Grade	Staple			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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
SOUTHWEST AREA--CONTINUED																							
NORTHWEST TEXAS																							
DAUGHERTY			LANKART 57					75 PERCENT															
SLM	31	7.0	31	293	93	2195	7.4	6.4	110	100	105	85	56	43	70	69.3	11.6	97	83.5	3.0	102	26.3	26.4	107
SLM	31	7.4	20	298	94	2226	7.3	6.7	120	110	115	71	38		90	70.7	11.6	99	84.0	2.6	104	26.8	26.6	107
SLM	31	7.1	16	310	94	2274	7.4	6.4	120	110	115	47	28		90	68.8	10.4	91	81.1	3.2	95	28.2	26.0	102
DIMMIT			GREGG					95 PERCENT															
LM	30	9.0	14	309	104	2380	7.3	6.4	120	120	120	78	42	47	80	70.0	11.8	98	81.7	4.3	92	27.5	25.9	103
SLM LT SP	29	10.1	16	323	104	2436	6.6	5.9	120	120	120	61	42		80	67.8	12.1	95	82.2	3.3	98	27.4	26.2	104
LM LT SP	30	12.2	19	336	104	2488	7.0	6.0	120	100	110	80	54		80	66.0	12.9	94	82.9	3.2	99	26.6	26.9	104
EARTH			GREGG					80 PERCENT															
M	28	7.3	22	318	99	2361	6.9	6.4	120	110	115	54	33	39	80	70.1	12.0	100	83.2	3.9	97	27.1	25.9	103
SLM LT SP	29	14.1	155	313	95	2297	7.0	6.0	80	60	70	257	173		60	64.0	13.3	91	84.6	3.2	104	26.9	25.3	101
SLM LT SP	29	12.4	89	309	96	2292	6.3	6.0	90	70	80	214	141		60	64.5	13.7	94	84.4	3.2	103	26.7	24.9	100
FARWELL			GREGG					75 PERCENT															
SLM	30	7.3	16	339	106	2522	7.6	6.5	120	110	115	45	26	49	80	71.7	11.2	100	83.4	3.2	101	27.6	26.1	103
SLM LT SP	30	10.0	31	330	106	2486	7.0	6.3	110	100	105	97	66		70	68.1	12.6	98	83.2	3.2	100	27.5	25.3	100
SLM LT SP	30	9.8	27	332	104	2472	6.7	6.3	120	110	115	91	56		70	67.7	12.2	95	83.3	3.3	100	27.4	25.6	102
HEREFORD			GREGG					90 PERCENT															
M LT SP	30	7.2	34	312	96	2304	7.0	6.5	120	100	110	61	37	43	90	71.2	11.6	100	83.7	3.0	102	27.0	26.4	106
SLM LT SP	29	11.6	45	321	101	2395	6.8	5.9	110	90	100	120	71		70	66.8	12.2	93	82.5	3.1	99	27.0	26.4	106
LM LT SP	30	13.2	48	327	104	2452	6.8	5.9	110	90	100	135	94		60	66.2	12.3	93	81.7	3.4	96	26.7	26.4	106
IDALOU			LANKART 611					100 PERCENT															
M	31	7.0	30	298	92	2204	7.8	7.1	120	100	110	67	41	47	80	71.2	11.5	100	84.0	2.8	104	25.8	26.8	110
M LT SP	30	8.2	33	306	93	2247	7.8	7.0	100	100	100	100	61		80	68.6	12.2	97	83.9	2.9	103	26.5	26.4	106
M LT SP	30	9.7	28	284	89	2115	7.2	6.6	110	100	105	119	75		70	66.3	11.6	90	81.6	2.8	98	27.2	26.2	104
LAKEVIEW			GREGG					75 PERCENT															
M LT SP	30	6.5	30	306	99	2313	6.3	5.9	120	110	115	59	35	45	80	69.4	12.0	98	84.2	3.0	103	26.9	26.5	106
M LT SP	30	7.4	28	295	91	2181	6.3	5.6	110	110	110	64	46		80	68.5	12.2	97	84.0	3.0	103	26.0	26.9	110
M LT SP	30	8.6	26	314	97	2323	6.2	5.6	120	100	110	61	40		80	66.1	12.4	93	82.8	3.2	99	27.0	26.5	106
SLM LT SP	30	9.6	45	298	95	2237	6.0	5.5	110	90	100	94	64	38	80	64.6	11.8	87	79.6	3.4	91	27.8	25.8	102
LAKEVIEW			PAYMASTER 101A					100 PERCENT															
M	30	6.2	15	327	105	2463	6.6	5.8	120	110	115	38	26	44	80	71.9	11.8	102	84.1	2.4	105	25.1	27.9	115
M LT SP	30	8.2	18	322	100	2388	6.4	5.8	120	110	115	62	38		80	70.7	11.6	99	82.5	2.8	100	27.6	26.6	105
SLM LT SP	30	9.4	18	314	99	2345	6.4	5.8	120	110	115	68	47		80	68.6	11.6	95	82.8	2.9	100	27.2	26.3	105
SLM LT SP	30	9.7	24	322	100	2388	6.4	5.6	120	100	110	93	55	41	70	66.6	11.5	90	81.0	3.2	95	27.7	25.8	102
LUBBOCK			PAYMASTER 101A					75 PERCENT															
SM	30	7.1	15	301	96	2260	7.0	6.2	120	120	120	44	29	45	90	70.9	11.8	100	84.0	2.5	105	25.6	27.9	114
M	30	6.9	30	290	91	2161	7.6	6.6	120	110	115	71	46		90	70.7	11.8	100	83.8	2.7	104	25.9	26.9	110
M LT SP	30	8.0	38	285	88	2108	7.6	6.6	110	100	105	71	44		90	69.0	11.1	94	81.9	3.1	97	27.0	26.4	106
SLM	30	8.0	28	307	94	2262	6.7	5.8	120	100	110	67	40	41	90	66.1	10.3	86	78.2	3.0	89	27.6	25.3	100

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 1963 -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		Elon-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		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
SOUTHWEST AREA--CONTINUED															
NORTHWEST TEXAS															
MAPLE		GREGG				96 PERCENT									
M	30	0.90	50	4.2	81	40.1	22.1	5.9	0.8	1.8	76.9	8.6	101	502	78.9	8.5
SLM	30	0.90	47	4.6	78	38.6	21.6	7.8	2.2	2.7	73.8	8.9	97	552	75.6	9.2
SLM	30	0.89	47	3.8	81	40.1	23.0	7.0	1.7	3.2	76.1	8.2	100	552	77.0	8.6
SLM LT SP	30	0.91	45	3.2	80	39.6	20.7	6.2	3.0	4.8	74.0	9.0	98	552	76.1	9.2
MORTON		GREGG				90 PERCENT									
LM	30	0.92	49	3.8	85	42.1	24.4	8.0	3.6	4.6	72.9	8.2	95	602	77.0	8.5
LM	30	0.91	48	3.6	83	41.1	23.8	7.7	5.3	6.5	72.9	8.2	95	602	76.8	8.3
LM	30	0.90	46	3.2	81	40.1	22.8	7.2	3.9	5.6	73.5	7.8	96	602	78.3	8.0
NEWCASTLE		WESTERN STORMPROOF				95 PERCENT									
SLM LT SP	28	0.84	45	4.0	91	45.0	19.7	3.7	0.9	1.8	74.8	10.0	100	503	76.3	10.1
SM LT SP	28	0.86	45	4.2	91	45.0	18.5	4.3	1.1	2.1	75.9	9.9	101	453	78.3	9.6
M LT SP	28	0.84	45	4.2	87	43.1	18.1	5.0	1.4	2.8	73.3	9.8	97	553	75.0	9.8
NEW DEAL		LANKART 57				75 PERCENT									
M LT SP	31	0.98	45	4.1	69	34.2	18.8	9.2	2.1	3.5	74.6	8.8	98	552	76.8	9.0
M LT SP	31	0.98	45	3.8	70	34.6	18.1	8.5	1.7	3.4	75.2	8.5	99	552	77.3	8.5
SLM LT SP	31	0.98	43	3.2	72	35.6	18.7	7.2	2.1	3.4	72.2	9.2	95	603	74.9	9.0
OBRIEN		NORTHERN STAR				80 PERCENT									
SM	31	0.93	44	4.3	91	45.0	20.8	3.8	1.0	2.0	75.5	9.9	100	453	77.4	10.0
M LT SP	29	0.90	45	3.8	86	42.6	19.6	4.3	1.0	2.2	72.9	9.9	96	553	74.9	9.9
M LT SP	29	0.88	45	4.2	88	43.6	19.9	4.4	1.0	2.4	72.1	10.2	96	554	74.9	10.0
PADUCAH		PAYMASTER 101A				100 PERCENT									
SM LT SP	30	0.92	47	4.8	91	45.0	23.7	5.1	1.6	2.5	74.8	9.2	99	553	77.5	9.2
M LT SP	30	0.88	47	4.9	90	44.6	22.0	5.9	2.0	3.2	73.4	9.2	97	553	76.2	9.6
SLM LT SP	30	0.91	45	4.2	88	43.6	22.9	4.9	2.7	4.5	71.5	9.2	93	603	73.8	9.5
M LT SP	30	0.90	46	4.8	93	46.0	22.4	4.8	2.7	4.2	72.9	8.9	95	603	75.1	9.0
PLAINVIEW		PAYMASTER 548				80 PERCENT									
M	30	0.92	48	4.3	79	39.1	22.0	6.8	1.1	1.9	77.0	8.6	101	502	79.2	8.5
M	30	0.89	46	3.6	73	36.1	20.2	8.9	1.4	2.7	78.6	8.2	103	501	80.2	8.2
SLM LT SP	30	1.01	44	3.1	81	40.1	20.2	6.9	2.4	3.8	72.4	9.2	95	603	75.1	9.4
PLAINVIEW		PAYMASTER 101A				70 PERCENT									
M LT SP	30	0.92	45	3.6	72	35.6	20.5	8.0	1.0	2.3	76.4	9.2	101	502	79.2	9.2
SLM LT SP	30	0.91	47	3.3	71	35.1	19.6	9.3	2.7	4.5	74.9	9.0	99	552	77.4	9.5
SLM LT SP	30	0.90	45	3.2	71	35.1	18.3	7.3	2.3	4.2	71.8	9.5	95	603	74.4	9.6
RALLS		LANKART 57				85 PERCENT									
SLM	31	0.97	47	4.8	72	35.6	20.0	7.5	1.8	2.6	72.1	9.0	94	603	74.2	9.2
SLM	30	0.94	45	4.4	75	37.1	20.1	7.7	1.6	2.8	73.3	8.5	96	602	76.1	8.6
SLM LT SP	32	1.00	44	3.5	77	38.1	20.4	7.5	2.1	3.6	70.1	8.3	90	652	73.4	8.1

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 1963 -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			Rflctance	Yellowness	Composite		Rflctance	Yellowness	Composite	Rflctance	Blueness	Composite
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
SOUTHWEST AREA--CONTINUED																									
NORTHWEST TEXAS																									
MAPLE			GREGG					96 PERCENT																	
M	30	7.0	10	292	96	2224	5.5	4.9	120	120	120	38	22	43	100	69.0	12.2	98	84.0	3.0	103	25.6	27.8	114
SLM	30	7.4	16	295	93	2203	6.3	6.0	120	120	120	46	26		80	68.8	11.9	97	82.2	3.1	98	27.1	26.9	107
SLM	30	7.2	19	337	107	2525	6.9	6.3	120	120	120	45	26		90	71.5	11.4	100	82.7	3.3	99	26.6	26.7	108
SLM LT SP	30	10.0	35	322	101	2399	7.2	6.3	110	100	105	111	64	44	70	67.6	12.4	96	83.8	3.4	101	26.4	26.0	105
MORTON			GREGG					90 PERCENT																	
LM	30	8.4	17	327	109	2507	6.8	6.2	120	110	115	52	27	50	80	68.2	11.9	96	82.1	3.0	98	25.6	26.5	109
LM	30	9.2	23	331	108	2512	7.6	6.8	120	110	115	58	37		90	69.6	11.3	96	81.9	3.0	98	26.2	26.1	106
LM	30	9.4	33	342	108	2556	7.3	6.7	110	100	105	80	47		70	69.8	11.0	96	81.6	3.1	97	27.4	26.1	104
NEWCASTLE			WESTERN STORMPROOF					95 PERCENT																	
SLM LT SP	28	5.9	18	269	84	2000	4.7	4.2	120	120	120	35	22	36	100	67.4	13.4	100	83.3	3.4	100	28.6	26.0	101
SM LT SP	28	6.0	16	272	83	2001	5.5	4.7	120	110	115	43	26		100	69.8	12.4	100	83.8	2.9	103	27.0	26.4	106
M LT SP	28	6.5	26	263	78	1910	5.0	4.6	120	110	115	45	29		90	68.6	12.9	100	83.0	3.3	99	28.8	25.6	99
NEW DEAL			LANKART 57					75 PERCENT																	
M LT SP	31	6.9	29	283	87	2089	7.8	6.7	110	100	105	73	54	41	80	69.9	11.6	98	83.3	2.8	102	27.3	26.8	107
M LT SP	31	7.4	16	291	89	2143	8.1	6.8	120	110	115	80	46		80	70.2	11.4	98	82.9	3.3	99	26.8	26.4	106
SLM LT SP	31	8.3	51	301	95	2249	8.0	6.9	110	100	105	88	63		80	67.2	12.2	95	83.0	3.4	99	27.5	25.9	103
OBRIEN			NORTHERN STAR					80 PERCENT																	
SM	31	6.1	13	304	98	2294	5.6	4.8	120	110	115	32	17	43	100	68.8	12.4	98	83.1	2.8	102	25.5	27.3	112
M LT SP	29	6.4	20	287	91	2149	5.4	4.7	120	110	115	52	34		100	66.4	13.0	96	83.8	3.4	101	27.7	26.5	105
M LT SP	29	6.8	15	268	83	1985	4.8	4.8	120	110	115	47	26		90	67.4	13.4	100	83.5	3.4	100	28.6	25.6	99
PADUCAH			PAYMASTER 101A					100 PERCENT																	
SM LT SP	30	5.9	16	317	102	2390	6.3	5.5	120	120	120	36	24	41	90	69.7	12.0	99	82.1	2.8	99	26.6	26.9	108
M LT SP	30	7.5	13	310	96	2296	5.8	5.0	120	110	115	43	28		90	69.3	12.4	100	83.0	2.9	101	27.5	26.2	104
SLM LT SP	30	8.1	23	311	97	2311	6.0	5.6	120	110	115	60	36		80	67.3	12.2	95	82.4	3.7	96	28.4	25.9	101
M LT SP	30	8.0	17	307	98	2306	5.7	5.0	120	110	115	50	32	40	90	69.0	11.6	96	81.4	3.8	94	28.7	25.2	97
PLAINVIEW			PAYMASTER 54B					80 PERCENT																	
M	30	5.3	18	322	104	2432	7.4	6.4	120	110	115	38	24	49	90	70.8	11.7	100	83.4	2.8	102	26.0	27.3	111
M	30	7.2	29	306	96	2280	7.5	6.8	110	100	105	60	37		90	71.2	11.2	99	82.5	2.9	100	26.4	26.4	107
SLM LT SP	30	10.2	51	324	100	2396	7.7	6.5	100	90	95	136	82		70	65.7	12.6	92	83.3	3.4	99	27.0	25.5	102
PLAINVIEW			PAYMASTER 101A					70 PERCENT																	
M LT SP	30	6.6	31	301	93	2227	7.5	6.9	110	100	105	49	33	44	90	70.7	12.2	101	84.6	2.8	105	26.3	27.1	110
SLM LT SP	30	9.1	32	298	92	2204	8.0	7.1	110	100	105	75	50		80	68.8	12.3	98	82.6	3.3	98	26.8	26.3	106
SLM LT SP	30	9.7	37	292	89	2147	7.4	6.4	110	100	105	79	49		90	67.0	12.8	96	82.9	3.3	99	28.0	25.5	100
RALLS			LANKART 57					85 PERCENT																	
SLM	31	6.2	12	283	89	2111	8.0	6.5	120	120	120	50	28	44	90	67.4	11.7	93	81.6	3.5	95	26.0	27.2	111
SLM	30	7.3	29	298	92	2204	7.3	6.3	120	110	115	51	33		90	67.8	11.4	92	82.4	3.5	97	27.1	26.1	104
SLM LT SP	32	10.1	47	307	95	2273	7.9	6.9	120	100	110	80	58		80	68.2	11.1	93	82.0	3.6	96	27.8	25.4	100

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 1963 -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			Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge	1/8" gauge	Elon-gation 1/8"	Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.												
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTHWEST AREA--CONTINUED															
NORTHWEST TEXAS															
ROBY		WESTERN STORMPROOF				90 PERCENT									
M LT SP	29	0.89	47	4.7	87	43.1	21.1	4.2	1.0	2.0	73.8	9.6	98	553	76.1	9.6
M LT SP	30	0.91	46	4.6	86	42.6	20.5	4.6	1.4	1.8	74.0	9.8	98	503	75.8	9.6
M LT SP	30	0.89	45	4.6	89	44.1	20.6	4.6	2.2	3.5	74.1	9.8	98	503	75.0	10.1
ROPESVILLE		BLIGHTMASTER				85 PERCENT									
SM LT SP	31	1.00	45	3.8	76	37.6	20.7	7.4	1.5	2.6	76.9	9.0	101	502	78.2	8.9
M LT SP	30	0.90	48	4.0	74	36.6	19.7	6.5	1.5	2.6	75.0	8.6	99	552	77.2	8.5
M LT SP	30	0.98	42	3.4	76	37.6	19.9	7.8	2.5	3.8	74.8	8.8	98	552	76.1	8.8
RULE		TPSA 41				95 PERCENT									
M LT SP	32	1.00	46	4.5	84	41.6	22.0	6.4	1.9	2.9	73.5	9.8	98	553	75.8	9.5
SLM LT SP	29	0.92	43	4.3	86	42.6	22.6	5.7	3.0	4.5	71.3	9.6	94	603	74.4	9.7
SLM LT SP	30	0.94	46	4.4	84	41.6	20.7	6.6	2.2	4.0	68.9	9.7	89	654	72.0	10.0
SEAGRAVES		GREGG				75 PERCENT									
M LT SP	31	1.00	43	3.7	73	36.1	20.7	8.2	1.0	2.1	74.7	9.0	98	552	76.1	9.0
SLM	30	0.92	47	3.3	87	43.1	22.9	6.9	2.0	3.3	71.6	8.2	92	652	74.2	8.2
SLM	30	0.93	46	3.8	84	41.6	23.0	6.9	2.1	3.9	72.2	8.2	94	652	74.9	8.6
SLM LT SP	30	0.92	43	3.1	77	38.1	19.8	6.2	1.6	3.1	70.5	8.6	90	653	72.2	8.4
SPADE		PAYMASTER 101A				70 PERCENT									
SLM	30	0.89	48	4.0	78	38.6	20.1	7.5	1.5	3.2	71.9	8.9	94	603	76.9	8.8
M LT SP	30	0.92	45	3.2	77	38.1	19.4	7.8	1.2	2.3	75.4	9.3	100	503	77.8	9.1
SLM LT SP	30	0.90	45	3.2	80	39.6	21.5	6.4	2.3	3.8	71.8	9.3	94	603	75.1	9.3
STAMFORD		LANKART 57				75 PERCENT									
M LT SP	31	0.96	48	4.4	83	41.1	20.4	6.9	1.2	2.2	72.5	10.1	96	553	74.2	9.6
M LT SP	29	0.89	46	4.2	84	41.6	19.6	6.1	1.4	2.1	73.9	9.7	98	553	76.9	9.9
SUDAN		GREGG				90 PERCENT									
SLM	29	0.87	47	4.1	82	40.6	23.1	7.4	1.7	2.8	74.3	8.8	98	552	76.1	8.9
SLM LT SP	30	0.97	43	3.3	84	41.6	21.9	7.7	2.8	4.0	72.0	9.5	94	603	74.1	9.9
SLM LT SP	29	0.89	46	3.6	83	41.1	22.3	6.2	2.2	3.8	69.9	9.8	91	604	73.6	9.7
SUDAN		GREGG				100 PERCENT									
M	29	0.89	48	4.6	84	41.6	22.8	7.2	1.1	2.2	75.0	8.9	99	552	77.2	9.2
SLM	30	0.86	48	3.6	84	41.6	23.5	7.2	1.7	2.9	75.3	8.7	99	552	78.5	8.8
SLM	30	0.89	47	4.0	85	42.1	21.5	6.4	2.2	3.6	73.9	8.8	97	552	75.8	9.0
VERNON		LOCKETT 4789				100 PERCENT									
M LT SP	31	0.94	47	4.9	87	43.1	22.1	5.4	1.4	2.7	74.1	9.3	98	553	76.8	9.7
M LT SP	32	1.00	44	4.3	85	42.1	22.1	6.0	1.8	3.3	73.5	9.4	97	553	75.7	9.6
SLM LT SP	30	0.97	45	4.6	87	43.1	21.6	6.1	2.7	3.7	69.9	8.9	90	653	63.9	9.2
SLM LT SP	32	1.01	45	4.3	82	40.6	21.7	5.6	2.4	4.1	70.5	8.3	91	652	74.8	8.6

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 1963 -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			Rflctance	Yellowness	Composite	Rflctance	Yellowness	Composite	Rflctance	Blueness	Composite
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
SOUTHWEST AREA--CONTINUED																									
NORTHWEST TEXAS									90 PERCENT																
MOHY			WESTERN STORMPROOF																						
M LT SP	29	6.2	20	283	91	2133	5.2		4.4	120	110	115	63	43	40	70	67.3	12.8	97	83.3	3.6	99	26.1	27.1	110
M LT SP	30	7.4	8	277	87	2065	4.3		4.3	120	110	115	46	31		90	67.4	12.4	96	82.6	3.1	99	26.8	27.2	109
M LT SP	30	7.2	17	271	85	2019	5.0		4.9	120	120	120	49	30		90	68.1	12.4	97	84.5	3.2	103	25.9	27.6	113
ROPESVILLE									85 PERCENT																
			BLIGHTMASTER																						
SM LT SP	31	5.9	25	314	98	2334	7.9		6.7	120	110	115	53	34	47	100	70.3	12.0	100	84.8	2.8	106	25.4	27.4	113
M LT SP	30	6.4	25	312	96	2304	6.8		6.3	120	110	115	45	29		90	69.0	11.4	95	81.2	3.4	95	27.2	25.7	102
M LT SP	30	6.8	41	305	95	2265	7.3		6.4	110	90	100	85	59		90	68.6	11.8	96	82.3	3.0	99	27.0	26.3	105
RULE									95 PERCENT																
			TPSA 41																						
M LT SP	32	7.0	15	321	107	2461	6.3		6.1	120	110	115	55	34	54	80	66.8	12.1	92	83.7	2.9	102	24.9	27.6	115
SLM LT SP	29	8.0	22	286	92	2156	5.6		5.3	120	110	115	54	33		90	66.0	12.7	94	85.0	3.4	104	27.4	26.0	103
SLM LT SP	30	8.3	23	287	90	2138	6.2		5.5	120	100	110	70	43		80	64.5	12.4	89	82.4	3.6	97	27.8	25.4	100
									75 PERCENT																
SEAGRAVES			GREGG																						
M LT SP	31	6.1	33	298	95	2237	7.4		6.1	120	100	110	74	49	51	80	67.5	12.0	94	84.4	2.9	104	26.2	26.9	109
SLM	30	6.8	33	332	107	2505	6.7		6.3	120	100	110	88	50		80	65.6	10.6	86	77.6	3.0	88	25.9	25.4	104
SLM	30	8.0	35	343	109	2571	7.0		6.7	120	100	110	76	52		70	67.7	11.0	91	80.6	3.1	95	27.2	26.0	104
SLM LT SP	30	8.4	51	296	91	2185	6.7		5.8	100	90	95	105	70	42	80	63.3	10.4	82	77.1	3.2	86	28.2	24.7	96
									70 PERCENT																
SPADE			PAYMASTER 101A																						
SLM	30	7.6	37	307	95	2273	6.6		6.0	110	100	105	76	47	44	80	69.0	11.7	96	82.0	3.6	96	25.9	26.4	108
M LT SP	30	7.4	32	315	98	2338	7.2		6.6	110	100	105	77	50		70	70.1	12.7	102	84.5	3.7	101	27.1	26.0	104
SLM LT SP	30	7.9	49	315	100	2360	6.7		6.4	110	90	100	87	63		70	66.7	12.2	93	81.8	3.4	96	27.5	25.7	102
									75 PERCENT																
STAMFORD			LANKART 57																						
M LT SP	31	5.5	13	315	102	2382	7.0		5.9	120	120	120	45	31	48	90	64.1	12.7	89	84.0	3.4	101	25.9	27.2	111
M LT SP	29	6.1	18	287	90	2138	6.2		5.1	120	110	115	49	31		90	67.4	12.8	97	85.1	3.3	104	27.4	27.1	108
									90 PERCENT																
SUDAN			GREGG																						
SLM	29	7.7	24	310	96	2296	6.5		6.0	120	110	115	61	36	39	80	69.5	11.7	97	82.4	3.1	99	26.6	26.4	106
SLM LT SP	30	9.5	32	321	102	2406	6.9		6.1	120	110	115	86	57		80	66.2	12.6	94	82.7	3.1	99	26.5	26.2	106
SLM LT SP	29	9.9	27	308	98	2310	6.6		5.9	120	100	110	78	47		80	64.0	12.3	88	80.0	3.5	91	26.1	26.3	107
									100 PERCENT																
SUDAN			GREGG																						
M	29	6.4	16	306	96	2280	5.9		5.7	120	120	120	38	18	39	90	70.4	12.0	100	81.6	2.7	98	27.9	26.5	104
SLM	30	6.2	27	326	103	2437	7.0		6.2	120	110	115	52	37		80	70.2	11.7	99	83.2	3.3	100	27.0	26.7	107
SLM	30	8.0	24	321	100	2384	6.7		6.3	120	120	120	44	28		90	68.4	11.8	96	82.5	3.2	98	27.9	25.7	101
									100 PERCENT																
VERNON			LOCKETT 4789																						
M LT SP	31	5.9	23	332	107	2505	6.7		6.0	120	120	120	40	25	45	90	71.4	11.4	100	83.8	2.8	103	24.7	28.1	117
M LT SP	32	7.3	22	314	100	2356	6.3		5.7	120	100	110	50	28		90	69.4	12.6	101	82.7	2.6	101	27.5	26.6	105
SLM LT SP	30	7.7	14	303	97	2279	6.0		5.4	120	120	120	43	32		100	67.5	11.9	94	81.5	3.2	96	28.9	25.9	100
SLM LT SP	32	8.3	15	314	98	2334	6.3		5.5	120	110	115	58	33	43	90	67.0	10.9	89	81.1	3.0	96	28.4	25.8	100

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 1963 -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			Elon-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		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple												Index	Code		
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct	Pct.	Pct.	Rd	+b			Rd	+b
SOUTHWEST AREA--CONTINUED																
NORTHWEST TEXAS																
WALL		LANKART 57				80 PERCENT										
M LT SP	29	0.86	45	4.0	84	41.6	19.6	4.9	1.2	2.1	74.3	10.1	99	503	76.7	9.8
M LT SP	29	0.89	45	4.4	81	40.1	19.4	6.0	1.4	2.4	72.9	10.0	96	553	74.8	10.3
M LT SP	29	0.90	45	4.8	81	40.1	19.3	5.2	1.5	2.4	73.1	9.8	97	553	76.2	10.2
WINTERS		LANKART 57				80 PERCENT										
M LT SP	32	0.95	46	4.8	75	37.1	19.7	8.1	1.9	2.6	72.4	9.4	95	603	75.0	9.6
M LT SP	30	0.90	47	4.8	83	41.1	19.7	5.3	1.1	2.3	72.5	9.8	96	553	75.5	9.6
M LT SP	29	0.88	45	4.2	88	43.6	19.9	4.1	1.5	2.2	74.5	9.6	99	503	76.9	9.7
M LT SP	29	0.90	44	5.1	76	37.6	19.5	7.8	1.4	2.8	71.7	9.7	94	603	74.1	9.5
WITHARRAL		PAYMASTER 101A				85 PERCENT										
M	30	0.94	47	4.2	77	38.1	20.3	8.0	1.0	2.2	76.8	9.0	101	502	78.7	8.8
SLM	30	0.87	47	4.0	78	38.6	22.4	7.4	2.0	3.2	73.9	8.6	97	602	76.0	8.6
M LT SP	30	0.94	45	3.4	73	36.1	19.3	8.2	1.2	3.2	75.0	9.0	99	552	77.2	8.8
M LT SP	30	0.93	46	3.6	74	36.6	19.9	7.5	1.4	2.7	73.7	9.5	97	553	76.0	9.2
OKLAHOMA																
ALTUS		NORTHERN STAR				70 PERCENT										
M LT SP	31	0.96	46	5.0	78	38.6	20.2	6.8	1.0	1.5	73.1	9.3	97	553	75.2	9.3
M LT SP	32	0.97	46	4.6	75	37.1	19.7	6.7	1.1	2.2	74.2	9.3	98	553	74.8	9.6
M LT SP	32	0.97	44	4.0	76	37.6	20.0	7.2	1.3	2.4	73.9	9.4	98	553	75.5	9.4
SLM LT SP	31	0.96	43	4.0	79	39.1	19.5	6.4	2.1	3.3	70.2	9.0	91	653	73.1	9.4
SLM LT SP	30	0.92	44	3.1	77	38.1	18.4	5.6	1.8	3.6	70.2	10.0	92	604	73.8	10.3
BURNS FLAT		LANKART 57				90 PERCENT										
M LT SP	29	0.90	44	4.8	84	41.6	20.7	6.2	1.7	2.7	72.4	10.0	96	553	74.0	10.2
M LT SP	30	0.94	45	5.2	77	38.1	19.6	7.6	1.4	2.5	72.0	9.9	96	553	75.1	9.7
M LT SP	30	0.94	45	5.0	79	39.1	19.5	7.7	1.6	2.4	72.4	9.3	95	603	74.8	9.0
FREDERICK		LANKART 57				90 PERCENT										
M LT SP	29	0.90	44	4.2	83	41.1	20.5	6.2	1.4	1.9	71.2	10.1	94	554	74.0	10.1
M LT SP	30	0.89	47	4.6	80	39.6	20.0	6.2	1.8	2.7	72.9	9.6	96	553	74.9	9.8
M LT SP	30	0.92	44	4.7	85	42.1	20.7	6.3	2.2	3.8	72.0	10.1	95	553	73.8	10.0
SLM LT SP	30	0.94	44	4.4	82	40.6	20.3	7.0	2.9	4.6	69.9	9.0	90	653	72.6	9.2
HASKELL		STONEVILLE 62				88 PERCENT										
M LT SP	30	0.91	45	4.0	87	43.1	18.5	3.8	0.9	2.0	74.4	9.6	99	503	75.9	9.4
M	29	0.87	46	4.3	85	42.1	17.9	3.9	1.2	2.0	76.1	8.8	100	502	78.2	9.0
M	29	0.88	46	4.6	85	42.1	17.7	4.9	1.1	2.4	76.4	9.0	101	502	77.9	8.6
MANGUM		LANKART 57				85 PERCENT										
SM LT SP	30	0.94	47	5.1	80	39.6	19.9	6.5	0.9	1.6	73.9	9.5	98	553	76.3	9.3
M LT SP	29	0.90	46	4.9	79	39.1	20.9	6.6	1.2	2.2	72.1	9.7	95	553	73.3	10.1
M LT SP	30	0.94	46	5.0	79	39.1	19.1	6.7	1.5	3.4	72.6	9.5	96	553	75.1	9.7
SLM LT SP	30	0.92	44	4.4	76	37.6	18.3	6.7	2.0	3.1	69.3	9.3	89	653	71.8	9.4

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 1963--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			Rflct-ance	Yellow-ness	Com-posite		Rflct-ance	Yellow-ness	Com-posite	Rflct-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
SOUTHWEST AREA--CONTINUED																										
NORTHWEST TEXAS																										
WALL			LANKART 57						80 PERCENT																	
M LT SP	29	8.0	35	266	82	1966	5.7	5.1	110	90	100	91	57	31	80	68.1	12.5	98	84.0	3.1	102	26.3	27.1	110		
M LT SP	29	6.8	16	278	83	2025	6.2	5.4	120	110	115	59	41		80	65.3	13.2	94	82.8	4.1	96	27.9	26.5	104		
M LT SP	29	6.5	17	277	85	2043	5.8	4.9	120	110	115	76	48		80	68.0	13.3	100	83.3	2.8	102	27.3	27.3	109		
WINTERS			LANKART 57						80 PERCENT																	
M LT SP	32	7.0	13	286	89	2123	6.3	5.6	120	120	120	49	30		100	66.2	12.4	93	82.3	2.8	100	26.8	27.3	110		
M LT SP	30	7.6	21	289	89	2135	6.3	5.4	120	110	115	48	29	35	80	67.2	12.2	95	83.4	3.0	102	25.5	28.0	115		
M LT SP	29	6.9	15	260	81	1931	5.1	4.6	120	120	120	79	45		80	68.7	12.8	100	82.6	3.0	100	26.8	27.1	109		
M LT SP	29	7.2	12	275	84	2024	6.1	5.7	120	110	115	58	31		90	67.4	12.2	95	83.7	3.1	102	25.3	28.4	117		
WITHARRAL			PAYMASTER 101A						85 PERCENT																	
M	30	6.4	22	300	95	2245	6.8	6.3	120	110	115	59	42	45	80	69.6	12.0	98	84.8	2.6	106	26.4	27.1	110		
SLM	30	7.3	32	320	100	2380	7.0	6.4	120	100	110	69	42		80	69.5	11.8	98	83.2	3.4	99	27.0	25.8	103		
M LT SP	30	7.9	38	298	93	2215	8.3	7.2	100	90	95	79	57		80	68.5	12.0	96	83.2	3.3	100	26.9	26.1	105		
M LT SP	30	8.0	42	308	91	2233	7.6	6.6	110	100	105	79	52	43	80	67.0	11.7	92	82.1	3.6	96	26.9	26.3	105		
OKLAHOMA																										
ALTUS			NORTHERN STAR						70 PERCENT																	
M LT SP	31	6.1	15	288	92	2164	6.3	5.4	120	120	120	41	23	43	90	67.1	12.0	93	83.5	3.0	102	26.6	27.5	111		
M LT SP	32	6.1	14	289	92	2168	6.1	5.5	120	120	120	42	21		90	68.7	11.9	97	84.2	2.4	106	26.2	27.6	112		
M LT SP	32	7.6	31	278	87	2069	6.7	6.0	120	100	110	50	34		90	68.7	12.0	97	84.9	2.6	107	26.5	26.8	108		
SLM LT SP	31	9.4	27	288	90	2142	6.4	5.8	120	100	110	74	46	40	80	65.6	11.8	89	82.7	3.1	99	29.0	25.7	99		
SLM LT SP	30	9.0	34	266	81	1955	5.7	4.9	110	100	105	102	65		90	64.0	12.2	87	81.7	3.4	96	27.4	25.7	102		
BURNS FLAT			LANKART 57						90 PERCENT																	
M LT SP	29	6.0	16	282	89	2107	5.9	5.4	120	110	115	51	32	36	90	66.0	12.9	94	84.0	4.2	98	28.3	25.3	98		
M LT SP	30	6.6	11	271	83	1997	6.8	5.7	120	110	115	55	34		90	66.6	12.6	94	83.6	2.9	102	26.2	27.1	110		
M LT SP	30	6.6	11	293	89	2151	6.8	6.1	120	120	120	39	25		90	67.1	12.0	93	82.5	3.1	99	27.3	26.2	104		
FREDERICK			LANKART 57						90 PERCENT																	
M LT SP	29	5.9	18	282	87	2085	5.9	4.8	120	110	115	44	27	35	100	64.9	13.2	93	83.0	3.1	100	28.5	25.7	100		
M LT SP	30	7.4	13	287	94	2182	6.5	5.3	120	120	120	45	26		100	68.2	12.3	97	84.0	2.8	104	26.8	27.4	110		
M LT SP	30	7.4	13	279	87	2073	6.0	5.4	120	110	115	58	35		90	67.6	12.6	97	83.5	3.1	101	27.4	26.6	106		
SLM LT SP	30	9.0	23	298	91	2193	6.5	5.8	110	100	105	84	54	38	80	65.7	12.0	90	82.4	3.6	97	29.3	25.6	98		
HASKELL			STONEVILLE 62						88 PERCENT																	
M LT SP	30	5.6	15	272	89	2067	5.6	4.8	120	110	115	36	22	39	90	67.1	12.4	95	84.2	3.5	101	27.7	26.5	105		
M	29	5.9	14	268	84	1996	5.2	4.6	120	120	120	39	26		90	69.6	12.2	99	83.7	3.2	101	29.5	26.4	101		
M	29	6.0	11	263	80	1932	5.1	4.4	120	110	115	50	32		90	69.6	11.9	98	84.4	3.0	104	28.1	26.8	105		
MANGUM			LANKART 57						85 PERCENT																	
SM LT SP	30	5.8	11	291	92	2176	6.3	5.5	120	120	120	53	25	42	90	68.4	12.7	99	83.8	3.1	102	26.2	27.7	112		
M LT SP	29	7.6	19	272	82	1990	6.3	5.5	120	120	120	49	28		80	67.1	12.6	96	82.9	2.9	101	27.1	27.4	109		
M LT SP	30	7.4	10	272	81	1979	6.5	5.8	120	120	120	47	29		80	68.8	12.0	97	83.0	3.0	100	28.6	26.4	102		
SLM LT SP	30	8.4	19	270	83	1993	6.1	5.5	120	110	115	77	46	37	80	65.0	11.6	87	80.6	3.3	94	27.9	26.1	103		

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 1963-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		Elon-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		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.	Rd	+b	Index	Code	Rd	+b
SOUTHWEST AREA--CONTINUED															
OKLAHOMA															
MINCO		LANKART 57				84 PERCENT									
SLM LT SP	29	0.90	44	4.7	80	39.6	19.7	5.6	2.2	2.8	70.6	9.9	92	604	72.8	10.0
M LT SP	29	0.91	46	4.8	77	38.1	20.9	6.6	1.4	2.4	73.4	9.8	98	553	75.2	9.6
M LT SP	29	0.89	44	4.9	76	37.6	20.0	7.7	1.7	2.9	72.5	9.6	96	553	75.4	9.4
SAYRE		MIXED MAINLY W STORMPROOF													
M LT SP	30	0.94	44	4.3	77	38.1	19.9	7.4	2.1	2.9	74.8	9.0	98	552	77.0	9.0
M LT SP	30	0.92	46	4.0	82	40.6	20.1	6.2	1.8	3.5	73.8	9.2	97	553	77.2	8.7
M LT SP	30	0.94	45	4.1	82	40.6	20.0	6.2	2.2	3.5	73.1	9.2	96	553	75.8	9.5
TEMPLE		PARROTT				80 PERCENT									
SM LT SP	29	0.84	46	4.0	85	42.1	19.4	3.8	0.8	1.8	75.8	10.2	101	453	77.7	9.9
M LT SP	29	0.86	45	4.2	86	42.6	19.3	3.8	0.9	1.7	73.2	10.1	97	503	76.0	10.1
M LT SP	28	0.86	45	4.4	87	43.1	19.5	5.4	0.9	1.6	73.5	9.6	98	553	75.4	9.4
WESTERN AREA															
NEW MEXICO															
TUCUMCARI		GREGG				90 PERCENT									
SLM LT SP	30	0.88	45	3.3	81	40.1	20.5	6.4	3.1	4.4	73.9	9.1	97	553	77.9	9.1
WEST TEXAS															
PECOS		MIXED MAINLY LANKART 57													
SM	33	1.02	46	4.8	77	38.1	19.7	7.5	0.5	1.6	76.7	9.2	101	502	78.4	9.0
M	34	1.07	41	3.8	76	37.6	20.4	8.2	0.8	1.9	76.5	8.3	100	552	78.1	8.3
M	33	1.01	42	3.5	76	37.6	19.5	8.0	0.9	2.2	77.3	8.2	101	501	79.8	8.3

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 1961--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		
Grade	Staple			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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
SOUTHWEST AREA--CONTINUED																									
OKLAHOMA																									
MINCO			LANKART 57					84 PERCENT																	
SLM LT SP	29	6.8	12	258	81	1923	5.5	4.8	120	110	115	52	32	34	90	65.0	12.9	92	82.1	3.7	96	27.9	26.4	104
M LT SP	29	6.5	13	281	88	2092	6.5	5.7	120	110	115	51	30		90	68.6	12.3	98	83.4	3.2	101	26.5	27.4	111
M LT SP	29	7.4	13	267	83	1981	6.8	5.8	120	110	115	55	34		80	68.5	12.2	97	82.2	3.1	98	28.7	26.4	102
SAYRE			MIXED MAINLY W STORMPROOF																					
M LT SP	30	6.8	19	298	93	2215	7.0	6.1	120	110	115	52	33	41	90	69.6	12.0	99	83.0	3.2	100	25.6	27.5	113
M LT SP	30	6.4	10	287	88	2116	6.5	5.7	120	120	120	41	20		100	69.4	12.2	99	82.4	3.3	98	26.7	26.4	106
M LT SP	30	8.1	12	301	94	2238	6.5	5.8	120	120	120	53	31		90	68.5	12.3	98	83.3	3.7	98	27.4	26.1	104
TEMPLE			PARROTT					80 PERCENT																	
SM LT SP	29	5.8	16	267	87	2025	5.2	4.6	120	120	120	40	22	34	100	68.2	12.8	99	83.8	3.3	101	26.3	27.3	111
M LT SP	29	5.5	22	261	80	1924	5.0	4.2	120	110	115	35	26		100	66.8	13.2	98	83.0	3.6	98	27.6	26.3	104
M LT SP	28	6.3	16	277	88	2076	5.6	4.9	120	110	115	46	29		90	68.0	12.6	98	83.3	3.2	100	28.3	26.5	103
WESTERN AREA																									
NEW MEXICO																									
TUCUMCARI			GREGG					90 PERCENT																	
SLM LT SP	30	11.0	55	322	100	2388	7.3	6.5	110	100	105	112	77		70	69.2	12.8	101	83.2	3.4	99	26.8	26.0	104
WEST TEXAS																									
PECOS			MIXED MAINLY LANKART 57																						
SM	33	5.7	19	303	98	2290	5.7	6.9	120	110	115	39	23	51	100	69.6	12.2	99	83.5	2.4	104	25.4	27.7	114
M	34	5.6	44	309	96	2292	7.3	6.3	120	100	110	59	39		100	70.7	10.9	97	83.6	2.7	103	26.2	26.5	108
M	33	7.6	47	309	95	2281	7.6	6.8	110	90	100	86	57		90	71.6	11.0	99	83.4	2.7	102	26.6	26.2	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 1963 -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			Elon-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		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
SOUTHEAST AREA																
ALABAMA																
ALTOONA		DIXIE KING				80 PERCENT										
M	34	1.05	46	4.0	80	39.6	21.1	5.8	1.0	1.6	76.2	8.6	100	552	77.5	8.8
M	33	1.04	46	3.8	82	40.5	22.2	5.6	0.9	1.7	77.0	8.3	101	552	78.2	8.3
SLM	34	1.05	45	3.8	79	39.2	21.1	6.2	2.8	3.8	76.5	7.9	99	602	78.0	8.0
ALTOONA		DEKALB 108				100 PERCENT										
M	33	1.00	49	4.0	82	40.4	20.5	5.8	1.1	1.7	77.3	8.7	102	502	78.2	9.0
LM	33	1.04	44	3.9	82	40.5	20.2	5.6	2.4	3.4	72.0	7.9	93	652	76.0	8.3
LM	33	1.01	45	3.8	80	39.6	22.2	6.1	3.0	4.2	70.5	8.0	90	702	72.7	8.4
ATMORE		COKER 100				90 PERCENT										
M	34	1.08	46	4.4	76	37.8	20.5	6.1	1.2	1.4	75.0	8.9	99	552	75.8	8.7
SLM	34	1.07	44	4.3	75	37.1	20.0	5.9	2.2	2.8	72.0	8.4	94	652	73.2	8.7
SLM	34	1.07	44	4.0	70	34.8	20.0	6.4	2.0	3.2	71.0	8.6	92	653	73.8	9.0
DECATUR		REX				90 PERCENT										
M	34	1.07	44	3.8	79	39.2	21.3	5.8	0.9	1.6	75.8	8.4	100	552	76.0	8.6
SLM	34	1.05	43	3.9	74	36.9	19.1	6.2	1.7	2.8	74.0	8.3	97	602	76.8	8.3
M	33	1.04	44	4.2	78	38.4	19.3	5.8	1.3	2.5	77.9	8.0	102	551	78.6	8.4
DEMOPOLIS		DIXIE KING				85 PERCENT										
M	34	1.08	46	4.2	77	38.1	21.1	5.6	0.8	1.6	77.5	8.8	102	502	76.7	8.9
M	33	1.04	44	3.9	82	40.4	21.0	5.4	0.9	1.2	76.8	8.6	101	502	76.8	8.8
M	33	1.03	45	4.1	84	41.5	19.7	5.3	0.9	1.6	77.3	8.4	102	502	78.0	8.4
SLM	33	1.02	42	4.1	80	39.7	19.3	5.0	1.3	2.1	74.9	7.6	98	601	76.5	7.7
FAYETTE		OPL 15				100 PERCENT										
M	34	1.07	45	4.1	77	38.3	21.2	6.3	0.6	0.9	75.9	8.9	100	502	76.2	9.3
SM	33	1.04	45	4.0	80	39.5	20.6	6.2	0.7	1.4	77.5	8.4	102	502	78.0	8.6
M	33	1.00	46	4.0	77	38.1	21.0	6.9	1.1	2.3	77.5	8.6	102	502	78.0	8.6
FLORENCE		AUBURN 56				75 PERCENT										
M	34	1.06	45	3.8	80	39.4	21.2	6.1	1.1	2.1	76.5	8.6	101	502	78.0	8.4
LM	33	1.02	44	4.0	83	41.0	20.4	6.2	1.7	2.6	73.2	8.2	96	602	75.7	8.5
M	33	1.00	46	4.2	78	38.5	20.0	6.7	0.8	1.9	78.0	8.3	102	501	80.5	8.1
GERALDINE		COKER 100				100 PERCENT										
SM	34	1.04	45	4.2	81	40.2	20.7	5.7	0.8	1.2	76.2	8.6	100	552	77.8	8.6
M	33	1.04	46	4.2	81	40.2	22.8	6.2	0.9	1.9	77.7	8.4	102	502	78.2	8.6
M	33	1.00	46	4.2	80	39.7	21.4	6.2	0.9	2.5	77.2	8.5	102	502	78.2	8.8
HALEYVILLE		DIXIE KING				80 PERCENT										
SM	33	1.01	46	4.5	86	42.7	19.7	5.2	1.0	1.6	78.0	8.9	103	452	79.0	8.8
SM	34	1.02	43	4.0	79	38.9	20.2	5.4	1.1	2.0	78.8	8.4	103	501	79.3	8.5
HUNTSVILLE		EMPIRE				85 PERCENT										
M	34	1.07	45	3.8	74	36.8	20.8	5.8	0.6	1.1	76.0	8.8	100	552	77.2	8.8
SLM	33	1.04	46	4.0	79	38.9	20.8	6.1	1.3	2.2	76.5	8.0	100	551	77.3	8.1
SLM	33	1.04	45	3.9	74	36.5	20.2	5.8	1.0	3.2	76.0	7.8	99	601	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 1963--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		
Grade	Staple			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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
SOUTHEAST AREA-																									
ALABAMA																									
ALTOONA		DIXIE KING					80 PERCENT																		
M	34	5.6	24	115	40	2265	6.6	5.1	110	90	100	17	13	62	90	70.7	11.4	98	85.3	2.5	108	27.7	26.8	106
M	33	6.4	18	117	40	2287	6.6	5.4	110	100	105	28	21	25	100	70.7	11.2	98	84.9	2.6	106	28.8	26.5	102
SLM	34	6.9	23	115	40	2265	6.3	5.0	100	100	100	31	20	25	80	71.6	10.6	98	84.0	2.9	103	28.4	26.1	102
ALTOONA		DEKALB 108					100 PERCENT																		
M	33	6.0	19	111	37	2146	6.7	5.2	110	100	105	22	19	60	90	70.9	11.8	100	85.0	2.8	106	26.8	28.0	112
LM	33	7.9	22	111	37	2146	7.1	5.4	110	100	105	28	27		80	68.4	11.2	93	83.8	3.1	102	29.2	25.5	98
LM	33	8.7	25	109	37	2124	6.4	5.0	100	100	100	39	26	25	70	68.5	10.6	91	81.8	3.1	97	29.4	25.6	98
ATMORE		COKER 100					90 PERCENT																		
M	34	6.8	17	108	36	2088	6.5	5.1	100	100	100	20	15	61	90	70.0	11.5	98	82.7	2.8	100	26.3	27.4	111
SLM	34	8.0	25	99	32	1889	6.2	4.6	100	90	95	22	19	25	90	69.4	10.8	94	83.8	2.7	103	28.1	26.6	104
SLM	34	8.9	36	96	32	1856	6.2	4.8	100	90	95	47	23	25	80	66.8	11.1	89	83.7	2.5	104	27.8	26.4	104
DECATUR		REX					90 PERCENT																		
M	34	5.3	24	113	38	2193	6.9	5.1	100	100	100	29	22	63	80	72.2	11.2	100	84.6	3.0	104	26.8	26.8	108
SLM	34	7.2	29	107	35	2052	6.3	4.9	100	100	100	31	22	25	80	69.7	10.8	95	83.8	2.9	103	26.7	26.8	108
M	33	5.9	26	106	34	2016	6.5	5.0	110	100	105	29	28		90	73.0	10.4	99	85.0	2.4	108	28.4	26.3	102
DEMOPOLIS		DIXIE KING					85 PERCENT																		
M	34	6.8	26	114	39	2229	6.5	5.2	100	100	100	20	18	62	90	72.8	11.4	102	85.0	2.5	107	25.9	27.5	112
M	33	6.0	40	110	36	2110	6.2	4.5	100	90	95	28	22	25	100	71.2	11.0	98	84.2	2.4	105	28.3	26.4	103
M	33	6.6	36	109	35	2074	6.3	4.5	100	90	95	13	17	25	100	70.8	11.2	98	84.9	2.8	106	28.7	26.8	104
SLM	33	6.7	38	106	34	2016	6.0	4.6	100	90	95	37	28	57	100	70.2	10.1	93	84.4	2.3	107	31.6	24.9	90
FAYETTE		DPL 15					100 PERCENT																		
M	34	5.7	23	119	42	2359	7.1	5.5	100	90	95	15	13	66	100	71.0	11.6	100	83.9	2.6	104	27.1	26.8	107
SM	33	4.8	24	112	37	2157	6.6	5.2	110	100	105	15	12	25	90	71.0	11.4	99	83.8	3.0	102	28.6	26.5	103
M	33	6.9	25	108	37	2113	6.6	5.2	110	90	100	27	20	25	90	73.1	11.0	101	83.1	2.7	102	28.4	26.6	104
FLORENCE		AUBURN 56					75 PERCENT																		
M	34	6.2	32	111	38	2171	6.5	5.1	100	90	95	27	23	59	90	71.0	11.0	98	84.6	3.0	104	26.5	26.6	107
LM	33	7.4	28	106	34	2016	6.3	4.8	100	90	95	22	24	25	70	67.7	11.2	92	83.6	3.5	100	27.1	26.9	107
M	33	5.3	25	102	31	1897	6.8	4.8	120	100	110	20	16		100	72.8	10.7	100	83.1	2.5	103	27.2	27.0	108
GERALDINE		COKER 100					100 PERCENT																		
SM	34	6.3	28	111	36	2121	6.4	5.0	100	90	95	24	15	54	90	71.2	11.4	100	84.4	2.5	106	27.5	26.7	106
M	33	6.5	32	112	36	2132	6.6	5.1	100	90	95	27	32		80	72.0	11.6	102	84.6	2.7	105	28.6	26.3	102
M	33	6.5	25	104	33	1969	6.1	5.1	100	90	95	30	24	25	100	73.2	11.2	102	83.3	2.6	103	28.8	26.6	103
HALEYVILLE		DIXIE KING					80 PERCENT																		
SM	33	6.0	27	110	34	2060	6.2	4.6	110	100	105	8	12	52	110	71.9	11.6	101	84.4	2.7	105	27.2	27.3	109
SM	34	5.2	32	107	35	2052	6.3	4.6	100	100	100	32	29		100	72.8	10.9	101	84.3	2.4	106	28.6	26.1	101
HUNTSVILLE		EMPIRE					85 PERCENT																		
M	34	5.8	36	114	40	2254	6.7	5.4	100	90	95	28	17	61	100	70.1	11.2	97	84.0	2.9	103	26.5	26.9	108
SLM	33	6.7	39	109	36	2099	6.8	4.9	100	90	95	38	30	25	90	69.6	10.9	95	84.1	2.6	105	27.9	26.9	106
SLM	33	7.0	29	107	36	2077	6.7	5.3	100	90	95	29	21	25	80	70.4	10.3	94	82.2	2.5	101	28.1	25.7	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 1963-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			Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge		1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.													
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTHEAST AREA--CONTINUED																
ALABAMA																
LEIGHTON		DPL 15				75 PERCENT										
M	34	1.05	43	3.9	80	39.5	20.8	5.4	0.7	1.5	76.0	8.6	100	552	77.3	8.8
SLM	33	1.04	46	4.4	82	40.5	20.4	5.6	1.4	2.1	74.0	8.4	98	602	75.7	8.6
SLM	33	1.02	46	4.5	78	38.8	20.6	5.1	1.8	2.8	73.0	8.4	95	602	76.0	8.3
PRATTVILLE		AUBURN 56				100 PERCENT										
M	33	1.04	44	3.8	79	39.2	21.2	5.8	0.6	1.5	76.2	8.9	101	502	77.1	9.1
M	33	1.02	45	4.4	80	39.7	20.7	5.8	0.7	1.5	74.0	9.2	98	553	76.0	9.2
SLM	33	1.02	44	4.0	74	36.8	21.7	6.4	1.2	2.2	74.5	8.6	98	602	75.5	8.8
TONEY		EMPIRE				95 PERCENT										
SM	34	1.06	45	4.0	78	38.4	19.8	5.7	0.3	1.0	77.8	8.8	102	502	77.8	8.6
SLM	33	1.04	45	4.1	81	40.0	20.9	5.6	0.5	1.9	76.0	8.0	100	552	77.2	8.4
M	32	1.00	46	4.2	79	39.0	20.0	5.8	0.8	1.6	78.8	8.2	103	501	81.0	8.4
TROY		AUBURN 56				80 PERCENT										
M LT SP	33	1.04	46	4.3	73	36.2	19.9	5.5	0.9	1.5	73.2	9.8	97	553	73.0	10.0
M LT SP	33	1.04	45	4.2	78	38.6	20.4	6.1	0.8	1.7	75.0	9.0	99	552	76.7	9.2
M	33	1.04	45	4.4	76	37.6	20.5	6.2	1.1	1.8	76.0	8.6	100	552	77.0	8.8
SLM	33	1.02	44	4.0	81	40.1	20.9	5.3	1.6	2.6	72.2	8.0	94	652	73.0	8.4
WETUMPKA		COKER 100				100 PERCENT										
M	34	1.07	46	4.0	77	38.0	20.8	6.1	1.0	1.8	76.3	8.7	100	552	77.4	8.6
M	34	1.06	45	3.8	78	38.8	20.6	5.6	0.8	1.3	77.8	8.6	102	502	77.8	8.6
M	33	1.02	45	4.0	80	39.4	21.1	5.8	1.4	2.9	77.0	8.0	101	551	77.5	8.4
SLM	32	1.00	42	4.2	84	41.3	20.8	5.4	1.4	2.5	72.2	7.8	94	652	73.5	8.1
FLORIDA																
GRACEVILLE		COKER 100				100 PERCENT										
M LT SP	33	1.02	46	4.2	76	37.7	19.7	6.2	1.0	1.5	74.7	9.2	99	553	76.0	9.0
M LT SP	32	1.01	46	4.1	71	34.9	18.7	5.9	1.2	2.1	72.8	9.5	96	553	74.4	9.3
SLM	33	1.04	44	4.2	72	35.6	19.7	6.1	2.7	3.3	72.2	8.2	94	652	74.5	8.0
GEORGIA																
ALMA		COKER 100				100 PERCENT										
M	34	1.07	47	4.0	73	36.0	21.4	6.1	0.9	1.5	75.0	9.2	99	552	77.0	8.8
M	33	1.03	44	3.8	79	38.9	20.8	5.7	1.2	1.7	75.0	8.8	99	552	77.0	8.6
M	33	1.03	43	3.7	79	39.2	19.5	5.6	1.1	2.2	77.1	8.2	101	551	78.1	8.0
BUTLER		EMPIRE				84 PERCENT										
M	34	1.05	46	3.8	81	40.0	20.9	5.1	1.1	1.7	75.8	8.6	100	552	77.5	8.8
M	34	1.07	45	3.8	79	39.2	21.1	5.5	0.9	2.2	76.5	8.6	101	502	78.0	8.6
M	33	1.02	46	4.0	86	42.5	21.1	4.9	1.0	1.8	77.5	8.4	102	502	78.0	8.6
CAIRO		COKER 100A				93 PERCENT										
SLM	34	1.08	46	4.5	81	40.2	22.4	5.8	2.2	2.4	73.2	8.8	96	602	75.3	9.1
SLM	33	1.04	44	4.1	77	38.2	20.2	6.2	1.9	3.2	73.0	8.6	96	607	75.5	8.9
LM	33	1.05	44	4.0	74	36.6	19.7	6.0	2.5	3.6	71.0	8.6	92	653	74.2	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 1963.--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		
Grade	Staple			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			Rflctance	Yellowness	Composite	Rflctance	Yellowness	Composite	Rflctance	Blueness	Composite
	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
SOUTHEAST AREA--CONTINUED																							
ALABAMA																							
LEIGHTON		DPL 15					75 PERCENT																
M	34	5.9	30	111	38	2171	6.8	5.3	100	90	95	27	25	59	80	71.8	11.4	100	83.6	2.8	102	27.9	26.5	104
SLM	33	6.5	23	109	35	2074	6.3	4.8	100	90	95	29	19		80	68.3	11.4	94	83.4	3.6	99	27.5	26.7	106
SLM	33	7.1	26	101	30	1861	6.3	4.5	110	100	105	28	23		90	69.4	10.6	93	81.8	2.7	99	28.6	26.0	101
PRATTVILLE		AUBURN 56					100 PERCENT																
M	33	5.9	34	113	37	2168	6.5	4.8	100	90	95	30	26	57	80	72.0	11.7	102	84.5	3.1	104	27.4	26.8	106
M	33	5.9	23	106	32	1966	6.2	4.6	110	100	105	16	9		100	69.0	11.6	96	83.8	2.9	103	27.3	26.6	106
SLM	33	6.8	32	106	33	1991	6.4	4.6	100	90	95	18	14		90	69.2	11.2	95	83.5	2.9	102	28.1	25.8	101
TONEY		EMPIRE					95 PERCENT																
SM	34	5.5	38	115	40	2265	7.0	5.3	100	90	95	14	12	60	100	72.4	11.2	101	84.3	2.9	104	27.0	26.8	107
SLM	33	6.2	25	109	36	2099	6.4	4.9	110	100	105	19	13		100	70.8	10.5	96	84.6	2.3	107	28.2	26.2	102
M	32	6.0	34	101	32	1911	6.8	4.6	110	100	105	21	16		100	73.6	10.7	101	84.7	2.3	107	29.0	26.3	101
TROY		AUBURN 56					80 PERCENT																
M LT SP	33	7.2	18	100	31	1875	6.4	4.8	100	90	95	23	19	54	90	68.3	12.4	98	83.1	3.6	98	26.9	26.8	108
M LT SP	33	6.2	22	108	34	2038	6.2	4.7	100	100	100	26	18		90	70.7	11.5	100	83.2	3.3	100	27.9	26.4	104
M	33	6.9	16	108	34	2038	6.4	4.6	120	100	110	21	14		100	70.5	11.2	98	84.5	2.5	106	27.7	26.7	105
SLM	33	6.9	22	101	31	1886	6.4	4.5	110	100	105	25	24	52	90	68.1	11.1	92	83.2	2.7	102	30.6	25.5	95
WETUMPKA		COKER 100					100 PERCENT																
M	34	6.7	18	116	40	2276	7.2	5.6	110	100	105	12	10	65	90	72.2	11.5	102	85.2	2.6	107	26.5	27.3	110
M	34	5.7	30	116	40	2276	6.6	5.1	100	90	95	16	15		100	72.5	11.2	101	85.0	2.6	107	27.6	27.2	108
M	33	6.9	27	108	34	2038	6.4	4.5	110	100	105	16	10		100	70.9	10.7	96	84.1	2.3	106	29.2	26.3	101
SLM	32	6.8	24	100	31	1875	6.3	4.5	110	90	100	26	24	49	90	68.5	10.9	92	84.1	2.6	105	31.1	25.3	93
FLORIDA																							
GRACEVILLE		COKER 100					100 PERCENT																
M LT SP	33	6.9	24	100	32	1900	6.8	4.8	90	90	90	26	24	55	70	69.9	11.8	98	84.9	2.7	106	27.1	27.1	108
M LT SP	32	7.4	25	96	31	1831	6.2	4.7	100	90	95	26	22		90	69.0	11.6	96	83.8	2.8	103	28.5	26.5	103
SLM	33	7.4	23	106	35	2041	6.7	5.1	100	100	100	22	18		90	69.9	10.4	94	84.3	2.5	106	28.3	26.7	104
GEORGIA																							
ALMA		COKER 100					100 PERCENT																
M	34	6.8	23	115	40	2265	7.2	5.4	100	100	100	21	19	67	80	70.3	11.8	99	84.6	2.8	105	27.2	27.1	108
M	33	6.8	38	104	35	2019	6.0	4.6	100	90	95	32	27		90	70.3	11.2	97	84.6	2.5	106	28.6	26.1	101
M	33	6.7	33	103	34	1983	6.3	4.9	100	90	95	36	33		80	69.6	11.1	96	85.5	2.4	109	29.5	26.3	100
BUTLER		EMPIRE					84 PERCENT																
M	34	5.9	38	115	39	2240	6.7	5.2	100	90	95	25	20	61	90	72.6	11.3	101	83.4	2.8	102	27.8	25.9	102
M	34	5.4	32	115	39	2240	6.3	5.0	100	100	100	29	18		80	70.6	11.5	99	85.2	2.5	107	26.9	27.0	108
M	33	6.3	41	108	34	2038	6.1	4.7	100	90	95	24	22		80	71.8	11.2	100	85.1	2.5	107	27.5	27.7	110
CAIRO		COKER 100A					93 PERCENT																
SLM	34	7.1	25	112	39	2207	6.5	4.9	110	100	105	28	17	61	80	70.0	11.6	98	84.2	2.8	104	26.7	26.8	108
SLM	33	8.0	31	106	35	2041	6.5	4.8	110	100	105	26	17		90	68.9	11.4	94	84.0	2.7	104	29.0	25.7	99
LM	33	7.7	30	106	37	2091	6.3	4.9	100	90	95	32	27		80	68.4	11.1	93	82.9	3.2	99	29.1	26.2	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 1963 -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			Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge		1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.													
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTHEAST AREA--CONTINUED																
GEORGIA																
CHAUNCEY		COKER 100A				95 PERCENT										
M	33	1.03	47	3.8	75	37.0	20.3	5.8	0.8	1.5	74.7	9.3	99	553	73.8	9.2
SLM	33	1.03	42	3.8	74	36.9	18.8	5.5	2.0	2.7	73.5	8.9	97	603	74.9	9.2
SLM	33	1.03	43	3.8	74	36.9	19.5	5.8	1.8	2.9	72.8	9.0	96	603	75.2	9.0
COMMERCE		DEKALB 220				100 PERCENT										
M	34	1.04	46	4.6	84	41.4	21.8	5.9	0.4	1.8	75.5	9.2	100	502	76.0	9.0
M	34	1.05	46	4.8	80	39.8	21.8	6.1	0.7	1.6	77.0	9.0	102	502	77.9	9.0
M	34	1.07	47	4.4	78	38.8	21.9	6.9	1.1	1.3	78.5	8.6	103	452	78.5	8.6
HARALSON		EMPIRE				100 PERCENT										
M	34	1.06	45	3.9	85	42.1	21.2	5.3	1.0	2.1	77.0	8.8	102	502	77.8	8.6
M	34	1.04	45	4.4	86	42.4	20.4	6.0	0.7	1.8	76.1	8.6	100	552	76.8	8.6
M	33	1.03	45	4.3	84	41.5	21.7	5.6	1.3	2.3	76.3	8.6	100	552	77.3	8.6
MADISON		COKER 100				100 PERCENT										
M	34	1.08	44	3.9	80	39.7	21.6	5.8	1.4	1.9	75.5	9.0	100	552	75.5	9.0
M	33	1.01	45	4.5	81	40.2	20.4	6.2	1.1	2.0	74.8	8.6	98	552	77.0	8.6
SLM	33	1.02	47	4.8	81	39.9	21.8	6.1	1.7	2.8	74.8	8.6	98	552	75.9	9.0
MONROE		CAROLINA QUEEN				100 PERCENT										
SM	34	1.08	45	4.2	87	42.9	22.0	5.3	1.0	1.9	75.5	9.2	100	502	76.0	9.1
M	34	1.03	46	4.6	87	43.2	20.7	4.9	1.1	2.1	76.1	8.5	100	552	75.4	9.0
M	33	1.00	46	4.9	84	41.7	22.2	5.5	0.8	1.3	76.8	8.4	101	552	77.0	8.8
NEWNAN		DIXIE KING				100 PERCENT										
M	34	1.05	44	4.6	79	39.0	20.8	5.4	1.0	1.5	75.2	9.0	100	552	76.0	8.8
M	34	1.03	45	4.5	84	41.8	20.1	5.1	0.7	1.9	76.2	8.8	100	502	77.7	8.8
M	33	1.02	46	4.2	78	38.7	21.3	5.8	0.9	1.9	77.5	8.9	102	502	78.8	8.8
OMAHA		AUBURN 56				100 PERCENT										
SLM	33	1.02	44	3.8	72	35.8	20.1	6.3	1.6	2.4	74.5	8.4	98	602	76.0	8.2
SOPERTON		EMPIRE				75 PERCENT										
M	33	1.01	46	3.8	77	37.9	21.3	5.6	0.8	1.7	75.3	9.0	100	552	76.1	9.2
SLM	32	0.99	44	3.6	80	39.5	19.1	5.2	1.8	3.0	72.0	8.1	94	652	74.0	8.6
VIENNA		MIXED MAINLY DIXIE KING														
M	34	1.04	45	4.0	74	36.6	21.1	5.7	0.7	0.8	76.5	8.7	101	502	77.4	8.7
SLM	33	1.03	45	4.0	76	37.5	20.4	5.9	1.7	2.6	73.7	8.4	96	602	75.3	8.9
M	33	1.04	45	3.8	75	37.3	21.0	5.8	0.6	1.3	76.8	8.4	101	552	77.5	8.8
WOODCLIFF		DIXIE KING				75 PERCENT										
M	33	1.04	48	4.1	77	38.0	21.7	5.8	1.3	1.9	74.7	9.5	99	503	75.6	9.4
SLM	34	1.05	46	4.1	83	41.2	22.6	5.2	1.5	2.0	74.0	8.3	97	602	74.7	8.4
SLM	33	1.02	45	3.8	81	40.3	21.5	5.4	1.4	2.1	73.5	8.6	96	602	75.0	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 1963--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		
Grade	Staple			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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
SOUTHEAST AREA--CONTINUED																								
GEORGIA																								
CHAUNCEY		COKER 100A					95 PERCENT																	
M	33	7.8	24	115	40	2265	6.9	5.4	100	90	95	30	20	67	90	70.3	12.3	101	84.5	2.8	105	27.6	27.0	107
SLM	33	6.5	54	103	35	2008	6.5	5.0	100	90	95	40	35		80	68.2	11.2	93	85.0	2.7	106	29.9	25.5	96
SLM	33	6.9	35	110	38	2160	6.8	5.1	100	90	95	32	25		80	69.4	11.9	98	85.4	2.8	107	27.8	26.6	105
COMMERCE		DEKALB 220					100 PERCENT																	
M	34	5.3	16	108	34	2038	6.4	4.9	110	100	105	14	13	50	90	69.4	11.8	98	83.5	2.9	102	26.5	27.5	111
M	34	5.8	19	114	38	2204	6.9	5.6	110	100	105	14	13		90	72.0	11.4	101	84.0	2.5	105	26.1	27.5	112
M	34	6.5	17	116	41	2301	7.3	5.4	110	100	105	20	11		90	72.8	11.2	102	84.9	2.6	107	27.2	26.9	107
HARALSON		EMPIRE					100 PERCENT																	
M	34	6.7	27	112	37	2157	6.1	4.6	100	100	100	19	18	61	90	70.0	11.4	97	84.0	2.4	105	27.7	26.2	103
M	34	5.2	14	98	30	1828	5.6	4.0	100	100	100	21	15		90	70.9	11.4	99	83.4	2.9	102	28.3	26.8	105
M	33	7.0	17	105	34	2005	5.9	4.6	120	100	110	18	11		100	71.5	10.9	99	84.8	2.5	107	28.0	26.6	104
MADISON		COKER 100					100 PERCENT																	
M	34	6.8	32	113	39	2218	6.4	4.8	100	100	100	28	22	62	90	70.2	11.7	99	84.1	3.5	101	27.7	26.6	105
M	33	6.4	22	94	29	1759	5.6	4.1	110	100	105	24	20		90	69.7	11.2	96	84.0	2.7	104	28.1	26.5	104
SLM	33	6.3	20	98	31	1853	5.5	4.3	100	100	100	40	24		80	69.2	11.4	96	83.7	3.0	102	29.0	26.5	102
MONROE		CAROLINA QUEEN					100 PERCENT																	
SM	34	6.4	27	111	37	2146	6.3	4.7	100	90	95	25	20	57	90	70.8	11.4	98	82.8	3.1	99	26.5	27.0	109
M	34	5.4	17	97	32	1867	5.4	4.3	120	110	115	20	15		100	70.3	11.3	98	83.0	3.4	99	28.4	26.4	103
M	33	6.5	13	97	33	1892	5.5	4.4	100	100	100	14	10		100	71.3	10.9	98	84.0	2.7	104	27.8	26.9	106
NEWNAN		DIXIE KING					100 PERCENT																	
M	34	6.3	29	104	31	1919	5.9	4.2	110	100	105	19	13	53	100	69.6	11.4	96	84.5	2.5	106	27.3	27.0	107
M	34	6.0	32	103	32	1933	5.9	4.5	110	100	105	21	15		100	71.2	11.7	101	84.2	2.7	104	28.1	26.2	102
M	33	6.3	30	112	38	2182	6.5	4.9	100	100	100	20	13		100	72.5	11.3	102	84.9	2.6	107	27.6	26.8	106
OMAHA		AUBURN 56					100 PERCENT																	
SLM	33	7.5	35	104	33	1969	6.7	4.8	100	90	95	29	24	56	90	68.6	11.1	93	83.9	2.6	104	27.6	26.4	104
SOPERTON		EMPIRE					75 PERCENT																	
M	33	7.5	41	109	38	2149	6.7	5.0	100	80	90	34	25	61	80	70.5	12.0	100	85.0	2.8	106	27.7	26.9	106
SLM	32	7.4	43	103	32	1933	6.3	4.4	100	90	95	37	27		80	67.0	10.4	88	84.5	2.4	106	29.1	25.8	99
VIENNA		MIXED MAINLY DIXIE KING																						
M	34	7.2	33	115	39	2240	6.6	5.4	100	90	95	26	20	66	90	73.2	11.4	103	85.2	2.5	107	27.4	27.2	108
SLM	33	7.0	31	110	36	2110	6.6	5.0	100	90	95	27	22		80	68.1	11.2	92	84.0	2.4	105	28.4	25.9	101
M	33	5.9	32	112	38	2182	6.5	5.0	100	100	100	22	24		90	72.0	11.3	100	85.1	2.3	108	27.9	27.0	106
WOODCLIFF		DIXIE KING					75 PERCENT																	
M	33	6.8	24	118	41	2323	6.9	5.5	100	100	100	23	15	64	90	70.2	12.3	101	84.0	2.8	104	27.1	27.4	110
SLM	34	6.6	23	114	38	2204	5.9	4.6	100	100	100	21	18		90	69.9	10.8	94	83.9	2.5	104	28.0	27.1	106
SLM	33	6.5	41	105	32	1955	5.9	4.4	100	90	95	42	34		80	67.3	11.2	91	84.2	2.6	105	31.1	25.7	95

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 1963 -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			Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge		1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.													
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTHEAST AREA--CONTINUED																
GEORGIA																
WRIGHTSVILLE		MIXED MAINLY AUBURN														
M	33	1.03	48	3.6	74	36.6	20.5	6.1	1.0	1.7	75.3	9.0	100	552	77.5	8.7
M	34	1.04	43	3.4	76	37.5	20.6	5.6	1.3	2.1	77.5	8.6	102	502	77.5	8.7
SLM	32	1.01	44	3.5	76	37.6	20.8	5.5	1.7	2.9	70.0	9.0	91	653	72.0	9.2
NORTH CAROLINA																
CALYPSO		REX				95 PERCENT										
M	34	1.07	44	4.2	77	38.2	20.0	6.1	1.0	1.8	77.8	8.4	102	502	78.7	8.7
M	34	1.07	45	4.4	74	36.8	20.1	6.6	1.2	2.0	76.0	8.6	100	552	77.0	8.8
M	34	1.07	47	4.4	79	38.9	20.1	6.2	1.4	2.3	75.2	9.2	100	552	76.8	9.0
ENFIELD		COKER				75 PERCENT										
M	33	1.04	46	4.4	75	37.0	21.9	6.6	1.0	1.7	77.0	8.3	101	552	78.0	8.2
M	33	1.03	44	4.6	80	39.6	21.9	6.6	0.7	1.4	77.0	8.1	101	551	77.7	8.6
M	33	1.03	45	4.1	80	39.8	20.6	6.4	1.0	2.0	78.0	7.8	102	551	78.0	8.0
JACKSON		REX				75 PERCENT										
M	34	1.03	46	4.7	79	39.2	20.6	6.2	1.0	2.0	75.0	8.6	98	552	75.8	8.6
M	33	0.98	44	4.9	81	40.0	20.7	6.1	0.6	1.3	77.3	8.2	102	501	78.7	8.4
M	33	1.00	47	4.6	77	38.0	19.7	6.0	0.7	1.4	77.2	7.8	101	551	78.0	8.2
MONROE		COKER				95 PERCENT										
M	34	1.04	47	4.8	84	41.3	22.6	5.8	0.8	1.4	74.7	8.8	98	552	75.5	8.4
M	33	1.03	48	5.0	77	38.2	21.6	6.5	1.1	1.7	76.0	8.7	100	552	76.5	8.9
M	34	1.06	46	4.4	75	36.9	21.0	6.6	1.3	1.9	77.0	8.5	101	502	77.5	8.5
RED SPRINGS		COKER				75 PERCENT										
M	34	1.06	47	3.9	79	39.3	22.1	6.2	1.1	1.8	75.8	8.3	99	552	76.0	8.7
SLM	33	1.04	43	3.8	78	38.4	22.1	5.8	1.3	2.2	75.5	7.8	99	601	77.0	8.6
SLM	33	1.03	45	3.9	79	39.0	19.2	5.7	1.4	2.4	74.2	7.8	97	602	76.8	7.5
SHELBY		CAROLINA QUEEN				100 PERCENT										
SM	34	1.05	47	4.8	90	44.4	23.0	5.6	0.6	0.7	77.7	8.7	102	502	77.0	8.7
SM	33	1.02	47	5.4	87	43.3	21.8	5.8	0.7	1.4	77.0	8.8	102	502	77.0	9.0
SM	33	1.03	48	4.6	75	37.0	20.3	6.2	0.8	1.2	79.5	8.2	104	451	79.5	8.4
SHELBY		REX				100 PERCENT										
SM	33	1.02	49	4.6	79	39.0	20.4	5.9	0.7	1.3	76.8	8.8	101	502	77.0	8.8
M	32	1.00	45	4.7	74	36.4	19.4	6.2	0.8	1.3	77.8	8.6	102	502	78.1	8.6
M	33	1.04	45	4.0	74	36.6	20.1	6.4	0.9	1.7	78.6	8.3	103	501	78.6	8.3
SOUTH CAROLINA																
AIKEN		COKER 100				70 PERCENT										
SM	34	1.07	44	3.6	77	38.3	19.4	5.8	0.5	1.2	75.8	9.2	100	502	76.3	9.2
M	34	1.05	42	3.6	80	39.5	21.2	5.6	1.1	2.0	76.0	8.6	100	552	77.8	8.4
SLM	33	1.00	42	3.7	81	40.1	19.5	5.4	1.1	2.6	74.2	8.5	98	602	75.3	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 1963--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		
Grade	Staple			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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
SOUTHEAST AREA--CONTINUED																								
GEORGIA																								
WRIGHTSVILLE		MIXED MAINLY AUBURN																						
M	33	7.5	34	113	39	2218	7.0	5.4	100	90	95	24	19	64	100	70.8	12.1	101	84.8	2.6	106	26.4	27.5	111
M	34	6.6	51	112	39	2207	6.4	5.0	100	90	95	30	27		90	72.2	11.6	102	84.7	2.6	106	28.2	26.5	104
SLM	32	6.9	43	100	31	1875	6.1	4.8	90	90	90	48	40		90	65.4	11.4	88	84.5	2.7	105	29.2	25.9	99
NORTH CAROLINA																								
CALYPSO		REX					95 PERCENT																	
M	34	5.7	24	107	35	2052	6.6	4.8	120	100	110	15	10	60	90	70.6	11.3	98	85.0	2.4	108	26.3	27.2	110
M	34	5.6	16	105	34	2005	6.8	5.1	120	100	110	17	17		90	72.0	11.4	101	84.4	2.3	107	27.8	27.0	106
M	34	5.8	14	108	37	2113	7.0	5.3	120	110	115	14	8		100	71.2	11.5	100	83.8	2.7	104	27.3	26.6	106
ENFIELD		COKER					75 PERCENT																	
M	33	6.0	19	112	35	2107	6.6	4.9	110	100	105	22	19	56	90	70.8	10.4	96	84.8	2.3	108	26.5	27.2	110
M	33	6.0	18	111	35	2096	6.4	4.7	100	100	100	24	23		100	71.6	10.9	98	84.1	2.2	106	27.6	27.1	107
M	33	6.6	26	112	38	2182	7.1	5.1	100	100	100	19	16		100	72.6	10.3	99	84.2	2.2	107	27.2	27.7	110
JACKSON		REX					75 PERCENT																	
M	34	6.5	21	101	30	1861	6.1	4.2	110	100	105	25	20	46	80	68.6	11.4	94	83.2	2.5	103	26.7	27.1	109
M	33	6.2	15	92	31	1787	5.9	4.6	110	100	105	22	15		100	72.0	10.9	99	84.1	2.2	106	27.2	27.7	110
M	33	6.5	20	99	30	1839	6.3	4.8	110	100	105	17	13		90	71.6	10.0	96	83.0	2.3	103	28.1	27.4	107
MONROE		COKER					95 PERCENT																	
M	34	6.3	18	115	36	2165	6.0	4.6	110	100	105	14	12	54	100	67.7	10.5	90	82.2	2.9	99	26.3	27.2	110
M	33	6.4	14	108	35	2063	6.4	5.1	120	110	115	20	12		100	71.0	11.3	99	83.7	2.7	103	26.7	27.8	112
M	34	6.8	18	113	39	2218	6.7	5.1	100	100	100	16	11		100	71.9	11.2	100	82.0	3.0	98	26.4	27.5	111
RED SPRINGS		COKER					75 PERCENT																	
M	34	7.1	29	112	37	2157	6.5	5.2	100	100	100	22	19	62	90	70.2	10.8	96	84.8	2.4	107	26.9	27.2	109
SLM	33	7.2	29	108	35	2063	6.4	4.9	110	100	105	24	27		90	70.9	11.1	98	83.8	2.5	104	30.8	25.3	94
SLM	33	6.5	28	101	33	1936	6.2	4.7	100	100	100	21	18		90	70.2	10.1	94	84.0	2.5	105	30.5	26.0	97
SHELBY		CAROLINA QUEEN					100 PERCENT																	
SM	34	5.7	18	112	32	2032	5.6	4.1	110	100	105	16	13	50	100	70.4	11.4	98	83.2	2.5	103	25.8	27.7	113
SM	33	5.0	8	103	32	1933	5.8	4.4	120	110	115	14	10		100	71.2	11.5	100	82.8	2.6	102	27.0	27.8	111
SM	33	5.6	12	115	38	2215	7.1	5.4	120	110	115	13	10		100	73.6	10.7	101	84.1	2.5	105	26.1	28.5	116
SHELBY		REX					100 PERCENT																	
SM	33	5.8	22	95	32	1793	5.9	4.5	110	100	105	19	15	47	90	70.2	11.0	96	84.8	2.5	107	27.0	27.0	108
M	32	5.6	18	97	30	1817	6.4	4.7	110	110	110	16	18		100	72.3	11.3	101	83.4	2.8	102	27.6	27.3	108
M	33	6.1	31	114	39	2229	7.2	5.8	100	100	100	20	15		90	73.1	11.4	103	83.6	3.2	101	26.8	26.9	108
SOUTH CAROLINA																								
AIKEN		COKER 100					70 PERCENT																	
SM	34	5.9	29	108	36	2088	6.7	5.0	100	100	100	25	26	61	100	70.8	12.2	102	85.8	2.8	108	27.2	27.2	108
M	34	6.5	50	109	36	2099	6.4	4.8	90	80	85	30	26		90	72.1	11.0	100	84.0	2.5	105	28.9	26.3	101
SLM	33	7.6	53	101	32	1911	5.7	4.1	100	90	95	32	24		90	69.4	10.8	94	83.8	2.8	103	30.7	25.5	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 1963 -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			Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge		1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.										Index	Code		
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b			Rd	+b
SOUTHEAST AREA--CONTINUED																
SOUTH CAROLINA																
BENNETTSVILLE		COKER 100				80 PERCENT										
M	34	1.08	46	4.1	76	37.8	22.6	5.9	0.9	1.6	76.2	8.4	100	552	77.0	8.8
M	34	1.07	46	4.2	82	40.5	21.9	6.1	0.8	1.5	74.0	8.6	97	602	77.0	8.8
M	34	1.05	44	4.4	80	39.4	20.9	5.3	1.0	1.7	76.2	8.2	100	552	77.7	8.3
SLM	33	1.04	44	4.2	79	39.0	21.4	6.2	1.3	2.7	73.0	7.5	95	651	75.0	7.6
CAMDEN		COKER 100				98 PERCENT										
M	34	1.02	44	3.8	90	44.5	22.2	5.4	1.1	1.8	76.0	8.6	100	552	77.0	8.6
M	33	1.01	46	4.4	84	41.6	21.1	5.3	1.4	2.1	74.5	8.7	98	552	76.2	8.4
M	33	1.00	45	4.4	84	41.6	21.0	5.9	1.0	2.6	75.5	8.6	99	552	77.5	8.7
ESTILL		COKER 100				95 PERCENT										
M	34	1.04	47	4.2	76	37.9	20.9	5.9	1.2	1.8	74.8	9.4	99	503	75.6	8.9
M	34	1.04	45	4.4	83	40.9	19.8	5.6	1.4	2.2	75.0	8.6	99	552	75.8	8.8
LM	33	0.99	44	3.9	77	38.2	18.7	5.4	3.9	5.4	68.5	8.4	88	703	71.0	8.6
MANNING		COKER 100				97 PERCENT										
M	33	1.03	45	4.0	78	38.5	19.8	5.7	1.5	1.7	74.0	9.2	98	553	74.8	9.4
M	34	1.04	45	3.9	75	37.1	19.8	6.1	1.1	2.2	73.7	8.4	96	602	76.5	8.4
SLM	33	1.03	45	4.2	76	37.6	19.9	5.8	2.0	3.2	72.5	8.2	94	652	73.5	8.3
PENDLETON		COKER 100				95 PERCENT										
M	33	1.02	45	4.8	83	41.0	20.7	5.6	1.2	1.9	76.0	8.7	100	552	77.0	9.0
M	33	1.04	43	4.4	78	38.4	20.1	5.8	1.1	2.1	77.0	8.4	101	502	78.2	8.8
M	34	1.06	45	4.4	79	39.1	20.5	6.7	1.4	2.4	77.5	8.2	102	501	77.5	8.5
ST MATTHEWS		ALL IN ONE				100 PERCENT										
M	33	1.04	47	4.4	75	37.3	20.1	5.9	1.0	1.5	74.9	8.9	99	552	75.7	9.1
SLM	33	1.02	46	4.0	79	39.3	21.2	6.1	1.3	2.3	70.5	9.0	91	653	71.0	9.3
SLM	33	1.01	44	4.0	80	39.5	20.1	5.3	1.2	2.4	72.4	8.6	95	602	75.0	8.7
YORK		CAROLINA QUEEN				100 PERCENT										
SM	33	1.02	46	4.8	91	45.0	21.8	5.0	0.7	1.3	75.0	9.2	100	552	75.8	8.9
SM	33	1.03	47	5.0	86	42.7	21.5	5.7	0.6	1.5	76.5	8.8	101	502	77.0	8.8
M	33	1.02	47	5.1	83	41.1	20.2	6.1	1.0	1.8	77.8	8.5	102	502	78.2	8.3
VIRGINIA																
EMPORIA		COKER 100				80 PERCENT										
M	33	1.04	47	4.4	77	38.3	22.6	6.4	1.5	2.2	76.9	8.0	100	551	77.7	8.6
SLM	33	1.05	46	3.8	75	37.1	21.1	6.3	2.4	3.4	77.5	7.3	101	551	79.2	7.6
SOUTH CENTRAL AREA-																
ARKANSAS																
BATESVILLE		REX				85 PERCENT										
M	35	1.08	43	3.8	83	41.1	20.2	5.0	1.2	1.8	77.9	8.8	103	452	79.9	8.9
M	34	1.06	43	3.8	82	40.6	19.4	4.7	1.0	1.7	78.5	8.6	103	452	80.7	8.4
M	34	1.02	48	4.4	87	43.1	20.9	6.9	1.0	1.9	78.2	8.4	103	501	80.9	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 1963--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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-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
SOUTHEAST AREA--CONTINUED																							
SOUTH CAROLINA BENNETTSVILLE		COKER 100					80 PERCENT																
M	34	5.5	24	119	41	2334	6.7	5.2	100	90	95	19	19	65	100	71.8	11.0	99	84.4	2.4	106	26.2	27.6	112
M	34	5.8	21	117	40	2287	6.5	5.2	100	100	100	17	13		90	68.8	11.1	94	83.2	2.4	103	26.9	26.8	107
M	34	6.1	28	112	38	2182	6.3	5.0	110	90	100	23	21		80	71.9	10.5	98	83.0	2.4	103	28.2	27.1	106
SLM	33	7.6	27	110	38	2160	6.6	5.4	100	90	95	26	21	62	80	68.2	9.8	89	81.6	2.7	98	30.2	25.2	94
CAMDEN		COKER 100					98 PERCENT																
M	34	5.9	52	111	36	2121	6.1	4.6	90	90	90	28	21	55	90	72.0	11.2	100	83.2	2.5	103	28.7	26.0	101
M	33	6.5	27	102	30	1872	5.8	4.0	110	100	105	22	15		90	68.6	11.2	94	83.9	2.9	103	29.3	25.4	97
M	33	6.7	25	99	30	1839	5.4	4.0	100	90	95	26	18		90	70.8	10.8	97	82.8	2.4	102	29.9	26.3	101
ESTILL		COKER 100					95 PERCENT																
M	34	6.8	22	112	38	2182	6.8	5.4	100	100	100	22	17	62	90	70.8	12.0	100	83.9	2.5	104	26.7	27.9	112
M	34	6.2	19	105	33	1980	6.0	4.5	100	100	100	21	15		90	71.5	10.8	98	83.5	2.3	104	26.9	26.7	107
LM	33	9.3	26	91	27	1676	5.3	3.9	100	90	95	29	23		70	65.4	10.6	86	83.4	2.8	102	30.6	25.3	94
MANNING		COKER 100					97 PERCENT																
M	33	5.7	37	105	35	2030	6.2	4.8	100	90	95	31	25	60	80	69.0	11.7	96	84.4	2.9	104	27.7	26.9	106
M	34	6.1	23	105	35	2030	6.6	4.9	110	90	100	23	16		90	68.6	11.3	94	84.5	2.1	108	28.1	26.6	104
SLM	33	7.8	20	103	34	1983	5.9	4.6	110	100	105	20	14		80	68.0	10.8	91	83.8	2.4	105	31.1	25.4	93
PENDLETON		COKER 100					95 PERCENT																
M	33	6.5	19	101	28	1811	6.1	4.0	110	100	105	19	14	45	90	70.0	11.3	97	84.1	2.5	105	27.7	27.2	107
M	33	6.1	28	109	34	2049	6.7	5.1	110	100	105	28	24		100	71.3	10.8	98	84.0	2.7	104	28.2	26.3	103
M	34	6.5	21	113	39	2218	6.7	5.4	100	100	100	20	14		90	71.9	11.0	99	83.0	2.8	101	27.2	26.7	106
ST MATTHEWS		ALL IN ONE					100 PERCENT																
M	33	5.3	22	110	36	2110	6.4	4.9	100	90	95	26	23	61	80	69.3	11.4	96	83.3	2.8	102	27.8	27.8	114
SLM	33	7.4	37	109	35	2074	6.3	4.5	100	90	95	35	25		80	64.3	11.7	86	83.4	3.1	101	29.1	25.4	97
SLM	33	6.7	36	102	32	1922	6.0	4.3	100	90	95	42	40		80	67.7	10.8	90	83.6	2.8	103	29.9	25.9	98
YORK		CAROLINA QUEEN					100 PERCENT																
SM	33	6.3	16	109	34	2219	5.4	4.3	110	100	105	12	11	45	100	71.5	11.5	100	83.4	3.2	101	27.8	27.1	107
SM	33	5.6	9	108	32	1988	5.9	4.4	120	110	115	9	7		100	70.8	11.2	98	83.4	2.4	104	26.6	27.3	110
M	33	6.7	13	107	34	2027	6.1	4.5	110	100	105	11	10		100	71.5	10.9	98	83.2	2.6	102	25.8	27.7	113
VIRGINIA EMPORIA		COKER 100					80 PERCENT																
M	33	6.2	14	117	39	2262	7.0	5.4	110	110	110	13	11		110	72.8	10.8	100	84.0	2.4	105	26.2	27.8	113
SLM	33	7.6	24	116	38	2226	7.2	5.6	110	100	105	17	14		100	72.6	10.3	98	84.7	2.7	106	26.9	27.2	109
SOUTH CENTRAL AREA																							
ARKANSAS BATESVILLE		REX					85 PERCENT																
M	35	5.5	8	111	40	2221	5.8	4.8	120	120	120	16	21	68	100	71.5	11.7	101	84.4	2.4	106	25.9	27.2	111
M	34	5.2	15	100	35	1975	5.4	4.3	120	110	115	19	14		100	72.2	11.4	101	85.6	2.6	108	28.0	26.1	102
M	34	5.5	8	104	37	2069	6.2	4.8	120	110	115	14	10		110	72.7	11.3	102	85.0	2.6	107	27.4	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 1963.--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		Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge	1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.									Index	Code		
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rg	+b			Rd	+b
SOUTH CENTRAL AREA--CONTINUED																
ARKANSAS						90 PERCENT										
BLYTHEVILLE		REX														
SLM	35	1.07	44	4.0	82	40.6	20.1	5.4	1.8	3.0	72.4	9.1	95	603	74.7	9.2
SLM	34	1.07	45	4.6	84	41.6	20.2	4.9	1.8	2.6	75.0	8.6	99	552	77.8	8.7
SLM	34	1.04	45	4.4	80	39.6	19.9	5.2	2.0	2.9	74.9	8.1	98	602	78.0	8.1
DARDANELLE		DPL 15				90 PERCENT										
M	35	1.09	46	4.6	80	39.6	22.6	5.8	0.6	1.4	75.2	8.9	99	552	77.7	9.0
M	34	1.05	44	4.6	81	40.1	22.8	4.9	0.8	1.6	76.8	8.6	101	502	78.9	8.5
M	34	1.03	45	4.2	82	40.6	21.3	6.6	1.0	2.1	76.7	8.6	101	502	78.0	8.6
HELENA		DPL SMOOTH LEAF				100 PERCENT										
M	35	1.12	46	4.6	80	39.6	22.2	6.2	0.8	1.4	79.4	8.1	104	501	81.8	7.9
HELENA		MIXED MAINLY DPL														
M	34	1.07	49	4.9	81	40.1	23.6	5.1	0.8	1.6	78.4	8.8	103	452	80.2	8.7
M	34	1.06	45	5.0	80	39.6	22.2	5.3	0.9	1.9	77.6	8.6	102	502	79.6	8.4
SLM	33	1.02	45	4.8	85	42.1	21.2	6.2	2.4	3.8	73.9	8.2	97	602	78.2	8.1
HUGHES		STONEVILLE 7A				100 PERCENT										
M	35	1.10	44	4.7	86	42.6	21.2	4.4	1.1	1.9	75.5	9.2	100	502	76.9	9.4
SLM	35	1.08	44	4.8	85	42.1	19.8	4.2	2.2	3.0	75.1	8.4	99	552	77.8	8.6
SLM	34	1.07	46	4.0	89	44.1	21.9	5.8	1.6	2.7	74.8	8.1	98	602	77.1	8.2
KEISER		STONEVILLE 7A				100 PERCENT										
SLM	34	1.08	45	4.8	86	42.6	21.9	5.0	3.2	4.1	75.3	8.9	100	552	78.0	9.0
SLM	34	1.06	46	4.8	88	43.6	22.0	4.3	2.6	3.5	75.9	8.0	100	552	78.3	8.2
M	34	1.08	46	5.1	89	44.1	23.0	4.6	1.7	2.7	77.2	8.2	101	501	79.5	8.3
LEACHVILLE		DELFOS 9169				100 PERCENT										
SLM	35	1.12	42	3.8	80	39.6	20.9	6.5	1.8	2.7	73.8	9.0	97	553	77.1	8.8
SLM	35	1.10	43	3.9	84	41.6	22.2	6.0	1.4	1.9	74.7	8.1	98	602	76.5	8.3
SLM	35	1.06	41	3.6	82	40.6	21.2	5.8	1.2	2.4	75.4	8.0	99	602	77.5	7.9
LEACHVILLE		STONEVILLE 7A				100 PERCENT										
SLM	34	1.08	45	4.8	89	44.1	21.9	4.8	2.2	3.1	73.8	9.0	97	553	76.8	8.9
SLM	34	1.07	45	4.8	88	43.6	21.4	3.8	1.4	2.0	75.2	8.6	99	552	77.9	8.6
M	34	1.04	44	4.4	85	42.1	21.6	4.9	1.2	2.2	77.8	8.2	102	501	80.0	8.1
LITTLE ROCK		DELFOS 9169				99 PERCENT										
SLM	35	1.10	42	3.8	78	38.6	21.8	5.4	1.9	2.7	75.9	8.1	99	552	78.3	8.1
SLM	35	1.09	44	4.2	78	38.6	20.6	7.0	2.4	3.3	75.0	8.0	98	602	77.4	8.6
LM	34	1.05	43	3.6	75	37.1	21.1	7.2	2.9	4.3	74.7	7.7	97	601	76.9	8.0
LITTLE ROCK		REX				100 PERCENT										
M	34	1.05	40	3.8	82	40.6	20.0	4.9	0.8	1.5	76.4	8.4	100	552	79.1	8.2
SLM	34	1.04	45	4.2	79	39.1	19.6	6.7	2.0	3.2	74.8	8.2	98	602	77.4	8.6
SLM	33	1.00	44	4.1	79	39.1	20.1	6.6	1.5	2.7	73.1	8.5	96	602	77.4	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 1963--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			Rflctance	Yellowness	Composite	Rflctance	Yellowness	Composite	Rflctance	Blueness	Composite
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
SOUTH CENTRAL AREA--CONTINUED																								
ARKANSAS																								
BLYTHEVILLE		REX						90 PERCENT																
SLM	35	8.9	27	103	36	2033	5.7	4.4	120	90	105	51	37	58	80	67.3	11.4	92	84.4	3.2	103	26.5	27.2	110
SLM	34	5.4	15	102	36	2022	5.6	4.4	120	110	115	22	15		100	69.7	11.5	97	83.2	2.9	101	27.8	26.7	105
SLM	34	6.2	14	96	32	1856	5.3	3.9	120	110	115	23	14		100	71.2	10.8	98	83.4	2.6	103	27.5	27.1	107
DARDANELLE		DPL 15						90 PERCENT																
M	35	5.1	10	109	40	2199	6.0	4.8	120	100	110	26	17	64	90	68.5	11.8	96	83.8	3.1	101	26.9	26.8	107
M	34	5.2	17	107	38	2127	5.6	4.5	120	110	115	20	12		100	70.4	11.4	98	83.3	2.6	103	27.8	26.9	106
M	34	6.4	25	101	36	2011	5.6	4.5	110	90	100	29	23		90	70.6	11.2	98	84.7	2.4	107	26.3	27.5	111
HELENA		DPL SMOOTH LEAF						100 PERCENT																
M	35	6.1	18	113	41	2268	6.9	5.3	120	100	110	25	20	66	90	73.5	10.6	101	84.1	2.5	105	26.1	27.9	114
HELENA		MIXED MAINLY DPL																						
M	34	5.7	13	108	39	2163	5.6	4.5	120	110	115	26	19	61	90	71.3	11.6	101	84.2	2.6	105	26.7	26.9	108
M	34	5.0	14	105	36	2055	5.6	4.5	120	100	110	21	15		100	72.7	11.3	102	83.9	2.2	106	26.2	28.1	114
SLM	33	8.2	19	104	37	2069	5.4	4.5	110	100	105	32	28		80	70.7	11.1	98	83.4	2.8	102	26.5	27.8	112
HUGHES		STONEVILLE 7A						100 PERCENT																
M	35	5.9	18	106	37	2091	5.1	4.1	120	110	115	30	18	63	80	70.1	11.6	99	82.9	2.7	101	27.2	27.1	108
SLM	35	6.9	19	100	35	1975	5.1	4.1	120	100	110	31	22		90	69.8	11.2	96	84.1	2.6	105	28.3	26.2	102
SLM	34	7.4	23	107	38	2127	5.8	4.7	110	100	105	34	30		80	69.5	11.2	96	83.8	2.8	103	28.2	25.7	100
KEISER		STONEVILLE 7A						100 PERCENT																
SLM	34	8.1	12	106	37	2091	5.3	4.4	110	110	110	31	22	59	80	71.2	11.1	98	83.3	2.4	104	26.9	27.4	110
SLM	34	6.9	12	99	33	1914	4.6	3.6	120	100	110	26	16		90	71.0	11.0	98	82.4	2.9	99	27.3	27.1	108
M	34	6.1	12	104	35	2019	4.9	4.0	110	100	105	24	13		100	73.2	11.0	102	82.6	2.3	102	27.9	27.4	108
LEACHVILLE		DELFOS 9169						100 PERCENT																
SLM	35	7.4	19	113	41	2268	5.9	4.9	110	100	105	33	23	63	80	68.0	11.3	92	84.3	2.8	104	26.9	26.5	106
SLM	35	6.9	29	103	37	2058	5.5	4.3	110	100	105	28	24		90	68.0	11.0	92	83.4	3.4	100	27.5	26.7	106
SLM	35	6.9	23	99	34	1939	5.6	4.2	110	90	100	36	26		90	69.9	11.0	96	84.1	2.9	103	28.3	26.7	104
LEACHVILLE		STONEVILLE 7A						100 PERCENT																
SLM	34	7.4	13	106	38	2116	5.2	4.1	120	100	110	31	20	64	90	68.2	11.3	93	81.9	2.5	100	27.1	27.3	109
SLM	34	5.6	16	104	36	2044	5.4	4.0	120	110	115	24	18		100	70.0	11.2	96	82.8	2.8	101	27.4	27.2	108
M	34	6.3	25	101	34	1961	5.3	4.1	110	90	100	28	19		100	72.4	11.0	100	83.3	2.6	103	27.2	27.5	110
LITTLE ROCK		DELFOS 9169						99 PERCENT																
SLM	35	6.4	24	106	38	2116	6.0	4.8	110	90	100	33	24	61	90	70.0	11.0	96	85.0	2.8	106	28.5	25.7	100
SLM	35	7.1	14	106	39	2141	6.4	5.2	110	100	105	26	18		100	71.0	11.4	99	86.0	2.9	108	27.6	26.5	105
LM	34	9.0	25	104	38	2094	6.2	5.2	110	90	100	45	35		80	70.0	11.1	96	83.0	2.6	102	27.5	26.0	103
LITTLE ROCK		REX						100 PERCENT																
M	34	5.2	29	96	33	1881	5.7	4.4	110	90	100	27	24	55	90	70.7	11.3	98	85.0	2.8	106	28.0	26.2	103
SLM	34	7.4	19	96	33	1881	6.1	5.1	110	90	100	41	30		80	69.6	11.5	97	85.3	3.0	106	28.0	26.3	103
SLM	33	7.7	25	92	31	1787	5.9	4.3	100	90	95	46	35		80	69.9	11.2	96	83.8	2.4	105	27.3	26.5	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 1963--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		Elon-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		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.	Rd	+b	Index	Code	Rd	+b
SOUTH CENTRAL AREA--CONTINUED															
ARKANSAS															
MARKED TREE		DPL SMOOTH LEAF				100 PERCENT									
SLM LT SP	34	1.07	43	4.4	82	40.6	21.7	7.0	3.3	4.5	73.0	8.9	96	603	75.9	9.0
SLM	33	1.04	44	4.6	79	39.1	21.6	6.7	2.0	2.8	75.7	8.1	99	552	78.0	8.3
SLM	33	1.04	45	4.8	82	40.6	22.4	5.4	2.4	2.9	74.1	8.0	97	602	77.0	8.0
MCGEHEE		STONEVILLE 213				75 PERCENT										
M	34	1.07	45	4.8	76	37.6	21.2	5.6	1.0	1.7	76.6	8.8	101	502	78.9	8.8
SLM	34	1.04	45	4.2	79	39.1	21.7	5.2	1.6	2.6	74.3	8.2	97	602	76.4	8.4
SLM	34	1.01	46	4.3	81	40.1	20.5	6.2	2.1	2.5	75.1	8.1	98	602	77.0	8.5
MCGEHEE		DELFOS 9169				100 PERCENT										
SLM LT SP	34	1.08	42	4.1	72	35.6	18.7	5.9	2.2	3.4	72.0	9.2	95	603	74.9	9.4
SLM LT SP	34	1.08	40	4.1	71	35.1	20.3	7.1	2.1	4.0	71.8	8.8	93	603	74.0	8.3
SLM	34	1.08	42	3.6	79	39.1	21.1	7.1	2.0	3.3	76.1	8.1	100	552	78.8	8.1
OSCEOLA		REX				85 PERCENT										
SLM	34	1.05	42	4.2	81	40.1	20.3	5.4	1.9	3.0	75.2	8.8	99	552	76.8	8.8
SLM	34	1.06	43	4.0	79	39.1	19.6	4.8	1.7	3.9	75.3	8.4	99	552	78.1	8.3
SLM	34	1.04	42	4.0	82	40.6	20.2	5.2	1.5	2.7	76.2	8.0	100	551	78.9	8.0
PARKIN		REX				100 PERCENT										
M	35	1.07	46	4.4	84	41.6	20.6	4.4	1.0	2.0	77.9	8.8	102	502	79.9	8.7
M	34	1.03	44	4.2	82	40.6	21.6	5.3	1.2	2.1	78.1	8.1	102	501	79.8	8.3
M	34	1.02	43	4.1	79	39.1	20.0	5.9	0.8	1.6	79.1	8.2	103	501	81.0	7.9
PARKIN		REX SMOOTH LEAF				100 PERCENT										
SM	34	1.06	44	4.4	83	41.1	20.9	4.8	0.6	1.2	77.0	8.9	101	502	78.5	8.9
M	34	1.03	43	4.0	85	42.1	21.2	4.8	1.6	2.6	76.6	8.6	101	502	79.0	8.5
M	33	1.01	45	4.4	87	43.1	20.2	5.4	1.2	2.1	76.4	8.7	101	502	78.9	8.7
PINE BLUFF		DPL SMOOTH LEAF				100 PERCENT										
M	35	1.11	44	4.4	75	37.1	23.2	6.6	0.8	1.7	78.8	8.5	104	451	80.8	8.3
SLM	35	1.08	45	4.7	80	39.6	22.8	5.8	1.7	2.2	75.8	8.3	99	552	78.4	8.3
SLM	35	1.09	45	4.0	81	40.1	22.8	8.6	2.2	3.5	75.9	8.1	99	552	77.4	8.6
PINE BLUFF		MIXED MAINLY DPL														
M	34	1.06	45	4.4	78	38.6	20.1	4.8	0.8	1.7	76.4	8.8	101	502	78.8	8.7
SLM	34	1.07	45	4.6	80	39.6	21.6	7.0	1.9	3.1	74.2	8.5	98	602	76.7	8.3
SLM	34	1.07	43	4.3	78	38.6	21.4	7.5	1.7	2.7	74.9	8.1	98	602	77.7	8.2
PINE BLUFF		MIXED MAINLY STONEVILLE 7A														
M	34	1.05	44	4.7	80	39.6	19.6	5.0	0.9	1.7	75.9	9.1	100	502	78.0	8.9
M	34	1.05	47	4.6	81	40.1	20.2	6.2	0.9	2.0	76.9	8.6	101	502	79.1	8.6
SLM	33	1.04	44	3.9	79	39.1	21.2	7.4	2.0	3.3	73.5	8.6	96	602	76.3	8.7
PORTLAND		MIXED MAINLY STONEVILLE 7A														
M	34	1.07	44	4.6	76	37.6	21.4	5.8	1.0	1.9	76.3	8.7	100	502	77.9	8.5
M	34	1.03	44	4.7	82	40.6	19.5	5.5	0.9	2.1	75.1	8.9	99	552	77.0	8.9
M	33	1.01	45	4.2	79	39.1	19.9	6.2	0.9	2.2	76.1	8.4	100	552	78.1	8.2

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 1963--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		
Grade	Staple			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			Rflctance	Yellowness	Composite	Rflctance	Yellowness	Composite	Rflctance	Blueness	Composite
	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
SOUTH CENTRAL AREA--CONTINUED																									
ARKANSAS																									
MARKED TREE		DPL SMOOTH LEAF					100 PERCENT																		
SLM LT SP	34	8.6	10	110	39	2185	6.0	4.7	110	100	105	27	18	62	80	69.3	11.4	96	82.6	3.0	99	26.9	27.1	109
SLM	33	6.1	12	107	38	2127	6.1	5.0	120	110	115	22	14		90	70.4	11.0	97	83.5	2.5	104	27.1	27.2	108
SLM	33	7.9	17	99	33	1914	5.2	4.4	110	100	105	25	21		90	69.2	10.8	94	82.3	2.2	102	26.9	27.5	110
MCGEHEE		STONEVILLE 213					75 PERCENT																		
M	34	6.0	12	102	36	2022	5.6	4.4	120	100	110	24	17	58	80	70.9	11.7	100	84.8	2.8	106	27.1	27.4	109
SLM	34	6.1	18	101	36	2011	5.5	4.6	120	100	110	37	26		80	70.4	11.2	97	84.3	2.8	104	28.3	26.9	105
SLM	34	7.7	23	97	34	1917	5.7	4.4	110	100	105	44	29		90	71.6	11.0	99	84.1	2.5	105	28.2	27.3	107
MCGEHEE		DELFOS 9169					100 PERCENT																		
SLM LT SP	34	7.3	21	84	28	1624	5.2	4.0	110	90	100	25	21	50	90	65.4	12.0	90	84.2	3.1	103	27.7	26.5	105
SLM LT SP	34	7.7	16	92	32	1812	5.7	4.3	110	90	100	37	30		90	66.6	11.0	88	84.8	3.0	105	27.4	26.5	105
SLM	34	8.0	31	104	37	2069	6.2	4.9	100	90	95	40	29		90	71.2	10.8	98	84.2	2.8	104	26.9	27.0	108
OSCEOLA		REX					85 PERCENT																		
SLM	34	7.1	15	105	37	2080	5.7	4.7	120	100	110	32	21	60	80	69.9	11.4	96	84.5	2.9	104	26.6	27.2	110
SLM	34	6.0	21	97	33	1892	5.6	4.3	120	100	110	30	30		90	71.0	11.1	98	84.2	2.6	105	27.9	27.1	107
SLM	34	6.8	27	96	32	1856	5.4	4.1	110	90	100	28	22		100	72.2	10.9	100	84.5	2.4	106	27.0	27.9	112
PARKIN		REX					100 PERCENT																		
M	35	7.0	17	103	37	2058	5.5	4.4	120	100	110	22	16	56	90	71.1	11.0	98	85.4	2.7	107	26.4	27.7	112
M	34	6.0	14	99	33	1914	5.4	4.2	120	100	110	17	16		100	71.6	11.1	99	84.8	2.6	106	27.7	27.4	108
M	34	5.9	17	92	32	1812	5.3	4.1	110	100	105	25	16		100	73.0	10.8	101	84.8	2.6	106	28.3	26.9	105
PARKIN		REX SMOOTH LEAF					100 PERCENT																		
SM	34	5.1	11	104	36	2044	5.5	4.5	120	110	115	17	14	59	90	70.7	11.1	98	83.1	2.8	101	26.9	27.5	110
M	34	5.6	18	97	34	1917	5.2	4.1	110	100	105	23	14		100	70.5	11.0	97	86.2	2.8	109	29.6	25.6	97
M	33	6.0	15	97	32	1867	5.6	4.3	110	100	105	17	15		90	71.7	11.5	101	84.3	3.0	104	29.0	25.9	100
PINE BLUFF		DPL SMOOTH LEAF					100 PERCENT																		
M	35	4.9	20	112	41	2257	5.8	4.9	110	100	105	27	17	65	80	71.9	11.4	101	84.5	3.1	104	25.8	27.5	112
SLM	35	5.9	15	111	39	2196	5.9	4.8	120	110	115	22	16		90	70.7	11.2	98	83.9	2.2	106	26.7	27.5	111
SLM	35	7.5	25	116	43	2351	6.9	5.5	100	90	95	40	30		80	70.4	11.0	97	84.1	2.6	105	25.0	28.0	116
PINE BLUFF		MIXED MAINLY DPL																							
M	34	6.7	17	100	35	1975	5.9	4.4	120	100	110	25	15	61	100	69.8	11.5	97	85.3	2.5	108	26.9	27.6	110
SLM	34	6.3	12	101	36	2011	5.5	4.3	120	100	110	27	20		90	69.6	11.2	96	84.6	2.8	105	27.4	27.5	109
SLM	34	6.6	18	105	39	2130	6.3	5.1	100	100	100	31	21		80	70.0	10.8	95	82.6	3.2	99	26.2	27.5	112
PINE BLUFF		MIXED MAINLY STONEVILLE 7A																							
M	34	5.7	15	92	30	1762	5.0	3.9	120	100	110	20	16	53	90	70.2	11.7	99	84.7	2.7	106	27.7	26.3	104
M	34	6.2	13	105	38	2105	6.1	5.2	120	100	110	23	17		90	71.5	11.6	101	84.8	2.8	106	27.2	26.7	106
SLM	33	7.4	22	107	38	2127	6.6	4.7	110	90	100	38	27		80	70.0	11.5	98	84.0	2.4	105	27.3	26.4	105
PORTLAND		MIXED MAINLY STONEVILLE 7A																							
M	34	5.3	16	103	35	2008	5.8	4.4	110	100	105	22	16	55	100	69.8	11.7	98	84.3	2.7	105	27.2	27.3	109
M	34	5.9	13	95	31	1820	5.2	3.9	120	100	110	22	17		100	72.0	11.2	100	83.6	2.4	104	27.7	27.8	110
M	33	6.9	17	93	31	1798	5.6	4.2	120	100	110	33	23		90	71.9	11.0	99	83.4	2.8	102	28.0	27.3	107

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 1963.--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		Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge	1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.												
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTH CENTRAL AREA--CONTINUED																
ARKANSAS																
TURRELL		REX				100 PERCENT										
SLM	34	1.01	41	4.1	84	41.6	19.2	4.4	1.3	2.2	74.2	8.8	98	552	77.3	8.6
SLM	33	1.00	42	4.0	81	40.1	20.0	5.4	1.2	2.5	76.3	8.4	100	552	79.0	8.4
SLM	33	1.00	42	4.0	81	40.1	20.9	5.4	1.6	2.4	74.8	8.3	98	602	77.2	8.5
WALNUT RIDGE		EMPIRE				100 PERCENT										
M	34	1.04	43	4.0	85	42.1	21.7	3.8	0.8	1.7	74.6	9.1	98	552	76.8	8.9
M	33	1.02	44	4.2	85	42.1	21.0	4.2	0.7	1.5	74.7	8.4	98	602	77.4	8.4
SLM	33	1.04	45	4.7	80	39.6	21.4	6.2	1.2	2.5	73.2	8.1	95	602	75.2	7.8
WEST MEMPHIS		FOX 4				100 PERCENT										
M	34	1.02	47	5.4	90	44.6	22.4	4.6	1.3	2.1	75.5	8.8	100	552	77.0	8.9
M	34	1.02	46	5.0	84	41.6	23.5	5.0	1.8	3.0	76.6	8.6	101	502	79.3	8.4
SLM	34	1.01	46	4.1	81	40.1	21.2	5.9	1.4	2.4	77.3	7.9	101	551	80.1	8.0
WEST MEMPHIS		STONEVILLE 213				100 PERCENT										
M	35	1.08	46	4.8	77	38.1	20.3	6.0	1.3	2.1	77.0	8.7	101	502	78.6	8.8
SLM	34	1.02	44	4.3	81	40.1	21.0	5.8	1.6	2.6	75.0	8.2	98	602	77.1	8.6
WILMOT		DPL SMOOTH LEAF				100 PERCENT										
SM	34	1.05	45	4.8	78	38.6	21.9	6.5	0.4	1.0	78.4	9.0	104	452	81.1	8.9
M	34	1.06	44	4.8	79	39.1	21.7	6.2	0.7	1.3	75.8	8.8	100	552	78.0	8.6
M	33	1.02	45	4.6	80	39.6	21.0	7.4	0.6	1.5	77.0	8.4	101	502	79.3	8.4
WILSON		MIXED MAINLY STONEVILLE 213														
SLM	34	1.05	45	5.0	84	41.6	22.0	5.6	1.6	2.6	74.6	9.2	99	553	77.2	9.2
SLM	34	1.06	48	5.3	87	43.1	23.8	5.2	1.6	2.6	74.7	8.6	98	552	76.8	8.8
M	34	1.01	45	5.2	87	43.1	22.6	5.0	1.2	2.0	75.8	8.6	100	552	77.8	8.5
WYNNE		DPL SMOOTH LEAF				100 PERCENT										
M LT SP	34	1.04	45	4.2	81	40.1	23.3	6.9	1.0	1.7	73.2	9.6	97	553	76.4	9.8
M LT SP	34	1.07	44	4.4	82	40.6	22.4	6.8	1.4	2.1	73.9	9.4	98	553	76.6	9.6
SLM	33	1.04	43	4.0	84	41.6	22.8	7.8	1.3	2.6	74.0	8.0	96	602	76.4	8.0
WYNNE		DPL 15				75 PERCENT										
M	35	1.07	44	4.0	83	41.1	21.3	5.1	0.8	1.6	77.9	8.6	102	502	80.0	8.5
M	34	1.06	44	4.6	80	39.6	21.3	5.6	1.2	1.8	76.3	8.3	100	552	78.7	8.3
M	34	1.02	47	4.5	87	43.1	21.0	5.8	1.0	1.9	76.0	8.4	100	552	77.4	8.7
LOUISIANA																
ALEXANDRIA		MIXED MAINLY STONEVILLE 7A														
M	34	1.02	45	4.8	84	41.6	21.5	4.7	0.7	1.5	75.8	9.2	100	502	77.2	9.4
M	34	1.06	44	4.6	82	40.6	21.8	5.0	0.8	1.6	76.3	8.8	101	502	77.2	9.2
M	34	1.04	45	4.4	84	41.6	21.4	6.3	0.7	1.6	77.1	8.2	101	551	79.9	8.2
BASTROP		DPL SMOOTH LEAF				99 PERCENT										
SM	34	1.04	44	4.7	86	42.6	22.1	6.2	0.4	1.2	78.9	9.1	104	402	79.8	8.9
SLM	34	1.06	43	4.8	78	38.6	22.1	6.1	0.9	2.0	73.3	8.7	96	602	77.1	8.8
M	34	1.04	43	4.2	82	40.6	22.1	7.0	0.7	1.3	77.4	8.2	101	501	79.0	8.2

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 1963--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			Rflctance	Yellowness	Composite	Rflctance	Yellowness	Composite	Rflctance	Blueness	Composite
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
SOUTH CENTRAL AREA--CONTINUED																								
ARKANSAS																								
TURRELL		REX					100 PERCENT																	
SLM	34	6.2	32	90	29	1715	4.9	3.4	110	90	100	46	30	48	80	68.4	11.4	94	85.5	3.0	106	28.9	26.0	100
SLM	33	6.8	28	90	29	1715	5.5	3.7	120	90	105	32	27		90	70.8	11.3	98	84.4	2.9	104	29.1	26.5	102
SLM	33	7.3	31	86	27	1621	5.6	4.1	110	100	105	30	24		90	72.2	10.8	100	84.2	2.6	105	28.1	27.1	106
WALNUT RIDGE		EMPIRE					100 PERCENT																	
M	34	5.6	25	102	35	1997	5.1	3.8	110	90	100	25	21	59	90	67.9	11.7	94	83.6	3.2	101	28.0	26.8	105
M	33	6.0	22	98	33	1903	5.0	3.9	120	100	110	22	15		100	69.0	11.0	94	83.2	2.4	103	28.3	26.9	105
SLM	33	6.5	25	104	39	2119	6.0	4.7	110	100	105	36	23		90	68.4	10.8	92	83.3	3.0	101	28.0	26.1	102
WEST MEMPHIS		FOX 4					100 PERCENT																	
M	34	6.5	6	105	35	2030	5.4	4.0	120	110	115	19	14	53	80	69.6	11.8	98	82.7	2.9	100	26.7	27.3	110
M	34	6.4	9	107	37	2102	5.2	4.1	120	100	110	26	17		90	70.8	11.4	99	85.4	2.7	107	27.4	26.9	107
SLM	34	6.6	21	96	34	1906	5.9	4.5	110	100	105	35	30		90	73.2	11.0	102	84.1	2.8	104	27.1	27.5	110
WEST MEMPHIS		STONEVILLE 213					100 PERCENT																	
M	35	6.6	12	101	36	2011	5.8	5.0	120	100	110	28	16	59	90	71.3	11.6	101	84.2	2.8	104	26.6	27.2	110
SLM	34	7.6	20	94	32	1834	5.4	4.4	120	100	110	26	22		80	70.6	10.8	96	84.4	2.6	105	27.0	27.6	110
WILMOT		DPL SMOOTH LEAF					100 PERCENT																	
SM	34	5.2	12	107	38	2127	6.0	4.7	120	110	115	13	10	60	90	72.6	11.4	102	84.3	2.4	106	26.6	27.5	111
M	34	5.9	20	100	34	1950	5.5	4.2	120	100	110	21	17		90	69.9	11.2	96	84.6	2.9	105	28.2	26.0	102
M	33	5.9	22	96	32	1856	6.2	4.5	110	100	105	23	20		90	71.3	11.2	99	85.1	2.6	107	28.2	26.5	104
WILSON		MIXED MAINLY STONEVILLE 213																						
SLM	34	6.6	13	105	35	2030	5.4	4.1	110	110	110	32	22	57	80	69.2	11.4	96	82.9	2.7	101	26.8	27.1	109
SLM	34	6.7	11	105	36	2055	5.0	3.9	120	110	115	21	16		100	68.9	11.7	96	82.9	2.5	102	26.8	27.6	111
M	34	6.8	15	94	30	1784	4.9	3.7	120	100	110	25	15		100	71.2	11.2	99	83.1	2.5	103	27.8	27.4	108
WYNNE		DPL SMOOTH LEAF					100 PERCENT																	
M LT SP	34	5.8	14	114	41	2279	6.1	5.0	120	110	115	19	17	66	90	65.8	11.7	89	82.5	3.0	99	27.1	26.5	106
M LT SP	34	5.2	18	108	39	2163	5.8	4.9	120	100	110	24	17		90	68.4	11.9	96	85.6	2.8	107	27.9	26.1	102
SLM	33	6.4	24	109	39	2174	6.7	5.2	110	90	100	32	25		100	67.6	10.6	90	82.7	3.2	99	26.5	26.1	106
WYNNE		DPL 15					75 PERCENT																	
M	35	5.6	19	112	39	2207	5.8	4.4	110	100	105	28	20	65	80	71.4	11.2	99	84.9	2.6	106	26.6	27.0	109
M	34	5.5	29	101	35	1986	5.5	4.3	110	90	100	35	23		90	70.5	10.9	96	85.5	2.9	107	28.1	26.1	102
M	34	5.2	20	105	36	2055	5.7	4.7	110	90	100	31	26		90	70.0	11.2	97	83.8	3.0	102	27.2	26.7	106
LOUISIANA																								
ALEXANDRIA		MIXED MAINLY STONEVILLE 7A																						
M	34	7.4	32	92	29	1737	5.2	3.7	110	90	100	36	35	49	90	69.6	11.3	96	82.8	2.8	101	27.8	27.3	108
M	34	5.5	22	102	36	2022	5.5	4.3	120	90	105	26	20		90	70.6	11.5	99	84.1	2.6	105	27.7	26.7	105
M	34	5.9	35	105	37	2080	6.0	4.7	110	90	100	35	26		100	71.4	10.9	98	84.4	2.5	106	27.8	26.6	105
BASTROP		DPL SMOOTH LEAF					99 PERCENT																	
SM	34	5.7	19	103	35	2008	5.5	4.4	120	100	110	19	12	55	100	72.3	11.2	101	84.1	2.4	106	26.3	28.0	113
SLM	34	6.1	13	99	34	1939	5.6	4.5	120	100	110	20	16		90	68.8	11.6	96	84.3	2.8	104	26.8	27.5	110
M	34	5.9	25	101	35	1986	5.7	4.8	110	100	105	24	23		100	71.9	11.2	100	84.3	2.3	106	27.8	27.4	108

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 1963 -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			Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge		1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.													
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTH CENTRAL AREA--CONTINUED																
LOUISIANA																
LAFAYETTE		DPL SMOOTH LEAF				100 PERCENT										
M	33	1.05	45	5.2	76	37.6	19.8	6.9	0.4	1.1	76.8	9.0	101	502	78.5	8.7
M	34	1.06	45	5.0	80	39.6	22.9	5.9	0.8	1.8	77.6	9.0	102	452	79.1	9.0
M LT SP	34	1.05	44	5.0	78	38.6	20.2	5.9	0.8	1.6	73.8	9.0	97	553	77.1	9.2
LAKE PROVIDENCE		DPL SMOOTH LEAF				90 PERCENT										
M	35	1.12	46	4.8	81	40.1	22.7	5.8	0.7	1.7	78.1	8.8	103	452	80.3	8.5
SLM	34	1.08	45	4.7	80	39.6	22.0	6.2	1.1	2.2	75.6	8.2	99	552	78.9	8.4
SLM	34	1.07	44	4.4	78	38.6	21.1	6.7	1.5	2.5	76.4	7.8	100	551	78.8	8.1
MONROE		MIXED MAINLY STONEVILLE 7A														
SM	35	1.05	46	5.0	85	42.1	22.3	5.4	0.6	1.2	78.2	9.4	104	402	80.0	9.2
SLM	34	1.08	46	4.8	82	40.6	20.2	5.0	1.1	1.9	74.7	8.8	98	552	77.0	9.0
M	34	1.05	45	4.8	82	40.6	22.0	5.0	0.7	1.3	77.2	8.5	101	502	79.6	8.3
NATCHITOCHES		DPL 15				75 PERCENT										
SM	34	1.06	44	4.4	85	42.1	23.2	5.8	0.4	1.3	80.1	9.0	105	402	81.7	8.7
SLM	34	1.06	43	4.4	81	40.1	21.4	6.2	1.4	2.2	71.9	9.0	94	603	74.3	9.2
SLM	33	1.00	44	4.2	84	41.6	20.7	6.2	1.5	2.6	73.8	8.4	96	602	76.1	9.2
OPELOUSAS		STONEVILLE 7A				80 PERCENT										
M	34	1.07	44	4.6	78	38.6	19.8	6.2	0.5	1.2	77.8	9.0	103	452	79.8	8.9
SLM	34	1.08	44	4.6	79	39.1	19.6	5.0	1.6	2.6	72.4	8.6	94	602	75.2	8.8
SLM LT SP	34	1.04	44	4.4	81	40.1	20.1	4.3	1.7	2.9	70.5	8.7	91	653	74.1	9.0
SLM	33	1.04	41	3.8	81	40.1	20.8	6.6	1.3	2.9	73.5	8.5	96	602	76.3	8.5
SHREVEPORT		DPL SMOOTH LEAF				100 PERCENT										
SM	34	1.07	46	5.0	88	43.6	23.2	5.7	0.4	1.1	79.1	9.0	105	402	80.9	8.8
M	34	1.04	47	5.2	87	43.1	23.8	5.4	0.6	1.5	77.0	8.7	102	502	78.4	8.8
M	34	1.02	46	5.0	87	43.1	22.3	7.0	0.8	1.5	75.2	8.8	99	552	77.5	8.7
SHREVEPORT		STARDEL				100 PERCENT										
M	34	1.04	45	4.8	95	47.0	22.8	3.5	1.7	2.6	76.0	9.3	101	502	77.9	9.2
SLM	33	1.04	44	4.6	93	46.0	22.4	4.0	2.0	2.4	73.2	8.6	96	602	76.1	8.4
SLM	34	1.04	44	4.4	95	47.0	21.9	4.6	2.2	3.2	73.9	8.0	96	602	76.0	8.4
ST JOSEPH		DPL SMOOTH LEAF				90 PERCENT										
M	34	1.04	46	5.2	81	40.1	21.9	6.3	0.7	1.4	77.8	9.0	102	452	79.5	9.1
SLM	34	1.06	45	4.7	80	39.6	23.2	5.6	1.9	2.7	75.4	8.4	99	552	77.7	8.6
SLM	33	1.06	42	3.8	80	39.6	22.4	8.2	1.6	2.8	75.6	7.8	99	601	77.7	7.9
VIDALIA		STONEVILLE 213				80 PERCENT										
M	34	1.08	46	4.8	82	40.6	21.8	5.7	1.0	2.1	78.0	9.0	103	452	80.1	8.7
M	34	1.06	44	4.8	78	38.6	21.3	6.7	0.6	1.6	78.2	8.2	102	501	81.2	8.2
SLM	34	1.06	43	4.0	83	41.1	22.3	7.1	1.2	2.4	74.2	7.6	97	601	76.9	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 1963--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		
Grade	Staple			22s or 26.8tex	50s or 11.8tex	Average ork.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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
SOUTH CENTRAL AREA--CONTINUED																								
LOUISIANA																								
LAFAYETTE		DPL SMOOTH LEAF					100 PERCENT																	
M	33	6.8	13	93	30	1773	5.6	4.1	120	100	110	16	10	53	110	72.0	11.3	100	83.9	2.2	106	25.9	28.2	115
M	34	7.0	13	102	34	1972	5.6	4.4	120	110	115	16	12		100	70.8	11.0	97	83.0	2.3	103	26.0	27.7	113
M LT SP	34	5.2	12	99	33	1914	5.8	4.4	120	100	110	19	11		100	68.2	11.8	95	83.5	2.5	104	27.1	27.0	108
LAKE PROVIDENCE		DPL SMOOTH LEAF					90 PERCENT																	
M	35	7.2	17	107	37	2102	6.0	4.8	120	100	110	23	18	59	90	72.8	10.7	100	84.0	2.5	105	25.6	27.8	114
SLM	34	7.0	23	100	35	1975	5.6	4.4	120	100	110	24	17		90	69.5	11.4	96	82.9	2.7	101	27.1	26.6	106
SLM	34	6.9	17	103	36	2033	6.4	5.0	120	100	110	25	20		90	73.6	10.8	102	83.9	2.2	106	28.6	26.9	104
MONROE		MIXED MAINLY STONEVILLE 7A																						
SM	35	6.0	18	102	35	1997	5.3	4.1	120	110	115	19	12	53	90	71.8	11.4	100	82.8	2.4	102	26.5	27.7	112
SLM	34	6.4	16	99	34	1939	5.6	4.4	120	110	115	19	13		90	68.9	11.8	96	84.2	2.6	105	28.3	26.4	103
M	34	5.7	11	98	34	1928	5.2	4.1	120	100	110	19	16		100	73.4	10.7	101	84.0	2.1	106	27.9	27.8	109
NATCHITOCHES		DPL 15					75 PERCENT																	
SM	34	6.2	25	110	39	2185	5.8	4.8	110	100	105	26	20	62	100	74.4	11.2	104	83.9	2.4	105	26.4	27.7	112
SLM	34	6.1	17	99	34	1939	5.8	4.6	120	100	110	19	15		80	66.6	11.7	91	83.0	3.1	100	27.7	27.1	107
SLM	33	6.1	30	96	31	1831	5.4	4.0	100	90	95	35	32		90	69.1	11.3	96	83.8	3.0	102	30.5	25.5	95
OPELOUSAS		STONEVILLE 7A					80 PERCENT																	
M	34	6.8	20	97	33	1892	5.5	4.4	110	90	100	29	26	54	90	72.9	11.0	101	84.2	2.3	106	26.7	28.1	113
SLM	34	6.8	18	92	31	1787	5.1	3.9	110	100	105	28	18		80	67.6	11.4	92	84.0	2.3	106	28.9	25.6	98
SLM LT SP	34	7.5	23	88	30	1718	4.8	4.0	110	100	105	33	26		80	65.8	11.4	88	83.7	2.4	105	28.2	26.5	104
SLM	33	8.0	33	99	34	1939	5.8	4.6	100	90	95	54	43	51	80	69.9	11.3	97	84.2	2.5	105	27.9	25.8	101
SHREVEPORT		DPL SMOOTH LEAF					100 PERCENT																	
SM	34	5.8	16	109	39	2174	5.3	4.4	120	100	110	18	16	58	90	74.2	11.2	104	83.4	2.7	103	26.5	28.0	112
M	34	5.4	13	104	34	1994	5.3	4.1	120	110	115	18	11		90	70.1	11.3	97	82.8	3.1	100	27.1	27.5	110
M	34	5.2	16	104	37	2069	5.7	4.4	120	100	110	17	13		100	70.4	11.6	99	83.1	2.6	102	28.1	26.4	103
SHREVEPORT		STARDEL					100 PERCENT																	
M	34	7.0	16	105	34	2005	4.9	3.7	120	100	110	24	19	55	90	69.3	11.6	96	82.4	3.1	99	28.1	26.8	105
SLM	33	6.3	14	105	37	2080	4.7	3.9	120	100	110	28	21		90	68.4	11.5	95	82.8	2.9	100	28.3	26.1	101
SLM	34	7.1	19	103	35	2008	5.2	4.1	110	90	100	34	29		90	68.8	10.9	93	83.2	2.9	101	29.3	25.3	97
ST JOSEPH		DPL SMOOTH LEAF					90 PERCENT																	
M	34	5.1	13	106	35	2041	5.9	4.3	120	100	110	22	18	56	80	72.6	11.2	101	83.9	2.3	105	25.9	27.5	112
SLM	34	7.1	20	106	38	2116	5.5	4.4	120	100	110	29	24		90	70.2	11.0	96	84.3	2.4	106	28.5	26.9	105
SLM	33	7.2	32	108	40	2188	7.0	5.5	110	90	100	37	28		80	71.0	10.8	97	83.9	2.5	105	27.3	27.0	107
VIDALIA		STONEVILLE 213					80 PERCENT																	
M	34	7.3	22	110	38	2160	5.9	4.6	120	100	110	26	20	58	80	72.1	11.0	100	83.4	2.3	104	26.2	27.3	111
M	34	6.0	16	103	35	2008	5.6	4.3	120	100	110	22	18		90	72.5	10.8	100	83.4	2.6	103	27.4	27.0	107
SLM	34	8.5	62	96	32	1856	5.7	4.1	100	80	90	61	50		80	68.5	10.2	90	82.1	2.8	99	26.3	27.1	110

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 1963 -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			Elon-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			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
SOUTH CENTRAL AREA--CONTINUED																
LOUISIANA																
WINNSBORO		MIXED MAINLY DPL 15														
M	34	1.03	48	5.0	83	41.1	21.5	5.9	0.7	1.4	75.8	9.4	101	503	78.4	9.2
SLM	34	1.02	45	5.0	83	41.1	21.1	5.8	1.1	2.0	72.8	9.2	96	603	74.8	8.8
SLM	33	1.01	45	4.7	83	41.1	21.4	5.9	1.1	1.8	71.5	8.6	93	652	74.1	8.2
MISSISSIPPI																
ABERDEEN		DPL SMOOTH LEAF				95 PERCENT										
SM	34	1.07	45	4.3	76	37.8	20.7	6.3	0.3	1.0	78.0	8.8	103	452	78.5	8.6
M	33	1.03	43	4.2	80	39.6	20.6	6.4	0.7	1.5	77.0	8.4	101	502	77.7	8.2
M	33	1.03	43	4.3	76	37.8	20.7	6.3	0.5	1.6	78.5	8.1	102	501	80.0	7.8
BELZONI		DELFDS 9169				70 PERCENT										
M	36	1.17	42	4.2	78	38.6	21.8	5.8	1.3	2.0	76.8	8.8	101	502	77.2	8.6
SLM	34	1.11	40	4.0	82	40.4	20.0	5.4	1.7	2.7	75.8	8.2	99	552	77.0	8.4
SLM	34	1.07	43	4.2	74	36.4	17.8	5.8	2.2	2.9	76.0	8.2	100	552	76.9	8.5
CALHOUN CITY		MIXED MAINLY STONEVILLE 213														
M	34	1.09	47	4.4	76	37.8	21.7	5.7	1.3	2.2	74.5	9.4	99	553	76.3	9.1
M	34	5.02	77	0.8	60	5.1	5.7	0.1	10.8	3.5	20.6	63.0	470	110	10.0	10.5
M	34	1.04	45	4.4	81	39.9	20.4	6.0	0.8	1.6	77.5	8.4	102	502	81.0	7.7
CLARKSDALE		DPL SMOOTH LEAF				100 PERCENT										
M	36	1.11	45	4.6	77	38.0	22.9	6.9	0.8	1.2	76.5	8.2	100	551	76.5	8.4
M	35	1.09	44	4.7	81	40.2	22.2	6.6	0.6	1.6	78.8	8.0	103	501	78.8	8.2
M	35	1.08	42	3.8	81	40.3	22.1	7.0	1.0	1.8	79.0	7.8	103	501	80.0	8.0
SLM	34	1.05	44	4.1	77	38.1	21.9	7.0	1.2	2.6	75.8	7.7	99	601	79.0	7.7
COMO		STONEVILLE 7A				100 PERCENT										
M	35	1.11	46	4.4	85	42.1	20.8	5.3	0.9	1.3	74.5	9.2	98	553	75.0	9.4
M	34	1.05	48	4.5	82	40.8	20.9	5.3	1.7	2.9	79.2	8.3	104	451	79.2	8.3
M	34	1.05	47	4.6	79	39.1	21.0	5.4	1.1	2.6	78.0	8.4	102	502	80.0	8.2
CORINTH		DIXIE KING				80 PERCENT										
SM	34	1.05	45	4.2	84	41.8	21.9	5.4	0.5	1.1	76.2	8.8	100	502	77.0	8.8
SM	34	1.05	45	4.4	83	40.9	21.8	5.8	0.7	1.5	78.0	8.2	102	501	79.2	8.3
M	34	1.03	46	4.2	79	39.0	20.8	5.4	0.9	1.9	78.5	8.0	103	501	79.5	8.2
GREENVILLE		DPL SMOOTH LEAF				100 PERCENT										
SLM	36	1.13	46	4.4	79	39.2	23.1	6.2	1.7	2.5	73.5	8.6	97	602	76.0	9.1
SLM	34	1.08	43	3.8	78	38.4	22.7	7.7	2.1	2.9	74.0	8.0	97	602	77.0	8.0
GREENWOOD		STONEVILLE 213				100 PERCENT										
M	35	1.12	46	5.0	83	41.0	21.9	5.7	1.1	1.3	77.0	8.9	102	502	77.8	8.8
M	34	1.05	45	4.8	81	40.1	20.2	6.1	1.2	1.8	76.0	8.1	100	552	77.5	8.6
SLM	34	1.07	44	5.0	79	38.9	22.3	5.7	1.3	2.3	75.5	8.2	99	552	77.0	8.4
SLM	34	1.05	45	4.3	78	38.6	21.1	6.4	2.0	3.0	75.0	8.1	98	602	75.7	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 1963.--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		
Grade	Staple			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			Rflctance	Yellowness	Composite	Rflctance	Yellowness	Composite	Rflctance	Blueness	Composite
	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
SOUTH CENTRAL AREA--CONTINUED																									
LOUISIANA																									
WINNSBORO		MIXED MAINLY DPL 15																							
M	34	6.1	10	105	35	2030	5.5	4.3	120	110	115	26	18	56	80	70.0	11.8	98	82.2	3.0	99	27.1	27.4	109
SLM	34	5.8	12	100	34	1950	5.4	4.1	120	110	115	18	11		90	67.9	12.0	95	82.6	2.9	100	28.7	26.7	103
SLM	33	6.3	18	93	29	1748	4.9	3.3	120	100	110	18	16		100	67.1	11.0	90	82.3	3.2	98	30.2	25.6	96
MISSISSIPPI																									
ABERDEEN		DPL SMOOTH LEAF					95 PERCENT																		
SM	34	5.6	29	114	39	2229	7.0	5.3	100	100	100	22	19	61	100	73.2	11.0	102	84.7	2.4	107	25.9	28.0	114
M	33	6.3	30	102	32	1922	6.2	4.7	100	90	95	30	26		100	71.6	11.2	99	84.1	2.2	106	27.5	27.5	109
M	33	6.2	36	104	34	1994	6.6	5.0	100	90	95	19	17		100	74.0	10.3	101	84.1	2.0	107	28.4	27.2	106
BELZONI		DELFOS 9169					70 PERCENT																		
M	36	6.2	25	122	43	2417	7.0	5.6	100	90	95	20	19	64	90	72.4	11.6	102	84.4	2.7	105	26.7	27.6	111
SLM	34	7.1	26	105	35	2030	6.4	4.8	100	90	95	24	21		90	69.8	11.3	97	83.4	2.7	103	28.4	26.1	102
SLM	34	7.9	27	98	31	1853	6.3	4.3	100	90	95	20	16		90	71.6	10.8	98	84.8	2.4	107	28.0	26.8	105
CALHOUN CITY		MIXED MAINLY STONEVILLE 213																							
M	34	6.5	23	115	39	2240	6.3	5.0	100	100	100	26	16	62	100	34.0	10.6	470	44.0	0.7	393	20.5	58.0	8
M	34	25.0	0	0	0	0	1.0	7.1	112	100	847	230	107		90	69.6	11.6	97	84.0	2.7	104	26.3	27.5	111
M	34	6.9	.24	105	34	2005	6.6	4.9	110	100	105	15	15		100	73.0	10.5	100	84.0	1.9	107	27.6	26.9	106
CLARKSDALE		DPL SMOOTH LEAF					100 PERCENT																		
M	36	6.1	21	124	42	2414	7.2	5.4	100	100	100	17	13	64	90	73.0	10.6	100	84.1	2.2	106	26.1	28.2	115
M	35	5.0	18	117	39	2262	7.1	5.4	100	100	100	16	13		90	73.3	10.8	101	83.7	2.5	104	26.5	27.6	111
M	35	6.3	32	122	43	2417	7.6	5.9	100	90	95	28	24		100	73.7	10.4	101	84.8	2.3	108	28.1	26.1	102
SLM	34	7.0	35	115	41	2290	7.3	5.7	100	90	95	29	21	61	90	71.3	10.5	97	82.6	2.3	102	27.9	26.7	105
COMO		STONEVILLE 7A					100 PERCENT																		
M	35	6.2	23	114	39	2229	6.3	4.8	100	100	100	16	15	63	90	70.7	11.7	100	84.0	2.5	105	26.5	27.7	112
M	34	7.1	17	106	34	2016	6.1	4.6	120	100	110	15	10		100	74.1	10.7	102	84.2	2.4	106	27.3	27.2	108
M	34	6.0	14	107	35	2052	6.3	4.8	110	100	105	16	13		100	74.5	10.7	103	82.8	2.1	104	27.7	27.3	108
CORINTH		DIXIE KING					80 PERCENT																		
SM	34	5.8	28	114	38	2204	6.1	4.8	100	90	95	19	19	62	90	71.5	11.4	100	83.2	2.5	103	27.0	27.6	110
SM	34	5.8	23	114	37	2179	6.6	5.0	110	100	105	26	22		100	71.8	10.9	99	84.9	2.3	108	27.2	27.7	110
M	34	5.7	35	111	38	2171	6.3	5.1	100	90	95	20	21		90	72.8	10.6	100	84.5	2.4	106	26.9	27.7	111
GREENVILLE		DPL SMOOTH LEAF					100 PERCENT																		
SLM	36	7.2	35	120	41	2345	6.7	5.3	100	100	100	25	20	63	90	71.3	11.1	99	83.7	2.9	102	25.7	27.8	114
SLM	34	8.6	57	117	40	2287	7.3	5.6	90	80	85	35	25		80	69.6	10.4	93	82.7	2.6	101	26.7	26.7	107
GREENWOOD		STONEVILLE 213					100 PERCENT																		
M	35	6.2	20	117	39	2262	6.3	4.8	100	100	100	23	20	61	90	72.2	11.3	101	83.7	2.7	103	26.1	27.9	113
M	34	7.3	22	99	34	1939	5.7	4.6	110	100	105	16	14		90	71.0	10.7	97	84.0	2.1	106	26.9	27.9	112
SLM	34	7.5	21	101	32	1911	6.3	4.7	100	90	95	24	23		90	71.3	11.1	99	83.8	2.3	105	28.8	27.4	106
SLM	34	7.2	31	108	37	2113	6.6	4.9	100	90	95	22	18	56	80	70.8	10.6	96	82.9	2.6	102	27.6	26.6	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 1963 -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		Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge	1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.												
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTH CENTRAL AREA--CONTINUED															
MISSISSIPPI															
GREENWOOD		DPL SMOOTH LEAF				100 PERCENT									
M	35	1.12	46	4.7	76	37.8	21.8	6.4	1.0	1.8	77.0	8.4	101	502	77.2	9.0
M	34	1.05	45	5.0	77	38.3	20.6	5.9	1.3	1.9	75.9	8.5	100	552	77.3	8.7
M	35	1.08	42	4.6	79	39.0	22.0	6.6	0.9	1.8	78.0	8.1	102	501	78.7	8.4
SLM	34	1.07	44	4.5	78	38.9	22.0	6.3	1.7	2.6	76.5	7.9	100	551	77.2	8.4
GREENWOOD		DPL 15				100 PERCENT									
M	35	1.12	47	4.1	82	40.6	23.5	6.3	1.1	1.7	78.0	8.5	103	502	79.5	8.6
M	35	1.08	45	4.3	82	40.5	22.3	6.4	0.9	1.7	78.7	8.2	103	501	79.7	8.5
M	35	1.06	44	4.2	79	39.2	23.4	6.6	0.8	1.7	79.3	8.0	104	501	80.6	8.4
LM	35	1.04	44	3.6	81	40.1	21.0	6.6	3.0	4.0	74.8	7.6	98	601	77.8	7.9
HOLLY SPRINGS		MIXED MAINLY REX													
M	34	1.04	46	4.0	80	39.6	21.1	6.3	0.8	1.6	76.9	9.0	101	502	77.8	9.0
M	34	1.04	45	4.2	79	39.0	20.4	6.1	0.8	1.5	78.0	8.2	102	501	79.0	8.4
M	34	1.04	46	4.4	78	38.7	20.5	6.8	0.9	1.7	80.0	8.1	105	451	80.0	8.1
HOUSTON		DPL SMOOTH LEAF				90 PERCENT									
M	34	1.05	45	4.4	77	38.3	20.8	6.4	0.9	1.9	78.0	8.6	102	502	78.5	8.4
M	34	1.05	45	4.6	79	39.2	21.1	6.0	1.0	1.3	78.8	8.2	103	501	79.2	8.5
INDIANOLA		DPL SMOOTH LEAF				100 PERCENT									
SLM	34	1.07	44	4.1	82	40.4	22.8	7.1	1.6	2.9	76.2	8.2	100	552	79.0	8.2
INDIANOLA		DIXIE KING				100 PERCENT									
M	35	1.11	45	4.6	86	42.5	22.3	5.0	0.9	2.5	76.5	8.5	100	552	76.5	8.6
SLM	34	1.07	44	4.6	88	43.4	21.0	4.6	2.7	3.3	74.8	8.0	98	602	76.3	8.4
SLM	34	1.07	46	4.8	87	43.2	23.0	5.0	3.3	4.3	73.7	8.4	96	602	75.0	8.7
LAKE CORMORANT		DELTA QUEEN				100 PERCENT									
M	36	1.12	44	4.3	82	40.8	21.0	5.8	1.0	1.5	77.8	8.4	102	502	78.9	8.6
SLM	36	1.10	45	4.4	82	40.3	22.8	5.8	1.9	2.6	75.7	8.0	99	602	76.3	8.6
SLM	35	1.10	43	3.2	78	38.7	22.2	6.3	2.6	3.9	76.2	7.9	100	551	77.0	8.0
LELAND		FOX 4				100 PERCENT									
M	35	1.10	46	4.8	83	41.1	22.7	5.6	0.9	1.5	76.0	8.8	100	552	77.5	8.8
	35	1.10	48	4.9	84	41.6	23.5	5.5	2.2	2.7	73.5	8.6	96	602	75.3	8.9
SLM LT SP	34	1.08	47	4.8	84	41.6	23.0	6.1	2.9	4.1	73.7	8.8	97	602	75.0	9.4
ROLLING FORK		DPL SMOOTH LEAF				100 PERCENT									
M	36	1.15	47	4.2	81	40.0	23.4	6.6	0.6	1.3	78.9	8.3	103	501	79.7	8.4
M	35	1.10	44	4.2	74	36.4	22.2	7.1	0.9	1.4	77.9	8.2	102	501	78.8	8.4
M	35	1.08	44	4.2	78	38.5	22.0	6.6	0.8	1.5	79.7	7.7	104	501	80.0	7.8
M LT SP	33	1.04	43	3.6	80	39.5	22.2	6.9	0.9	2.5	75.5	8.2	99	552	77.0	8.0
ROSEDALE		DPL SMOOTH LEAF				100 PERCENT									
M	35	1.12	45	4.6	81	40.2	23.2	6.4	0.9	1.6	77.5	8.6	102	502	77.5	8.8
M LT SP	34	1.09	42	4.6	79	39.0	21.6	6.6	1.2	2.2	75.0	8.6	99	552	75.7	8.8
SLM	35	1.11	44	4.4	81	39.9	22.5	6.7	1.7	2.5	75.8	8.4	100	552	76.5	8.4
SLM	34	1.07	44	4.4	79	39.2	21.3	6.0	1.3	2.4	76.8	8.1	101	551	79.0	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 1963--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		
Grade	Staple			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			Rflctance	Yellowness	Composite	Rflctance	Yellowness	Composite	Rflctance	Blueness	Composite
	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
SOUTH CENTRAL AREA--CONTINUED																									
MISSISSIPPI																									
GREENWOOD		DPL SMOOTH LEAF					100 PERCENT																		
M	35	6.0	20	116	40	2276	6.8	5.4	100	100	100	34	22	63	80	72.6	10.6	99	83.6	2.6	103	25.5	27.9	115
M	34	6.9	13	96	30	1806	5.9	4.6	110	100	105	21	15		80	70.4	11.0	97	83.4	2.3	104	26.4	28.0	113
M	35	6.2	24	105	33	1980	6.4	5.0	100	90	95	30	23		90	73.4	10.5	100	84.9	2.2	108	26.7	27.7	111
SLM	34	7.3	33	107	36	2077	6.4	4.6	90	80	85	25	20	53	80	72.7	10.6	99	83.3	2.3	104	27.4	26.9	107
GREENWOOD		DPL 15					100 PERCENT																		
M	35	5.8	28	127	46	2547	6.7	5.4	100	100	100	20	16	66	100	73.1	11.6	103	84.6	2.6	106	26.3	27.6	112
M	35	6.2	25	123	42	2403	6.8	5.3	100	90	95	15	11		100	73.2	11.1	102	84.4	2.3	107	27.7	27.3	108
M	35	6.5	28	122	42	2392	6.9	5.4	100	90	95	19	20		100	74.0	11.0	103	84.6	2.2	107	27.1	27.4	109
LM	35	9.0	48	114	40	2254	6.8	5.4	90	80	85	39	34	62	80	71.2	10.5	97	83.1	3.2	100	27.3	26.4	105
HOLLY SPRINGS		MIXED MAINLY REX																							
M	34	5.7	30	112	38	2182	6.6	5.4	110	100	105	14	11	61	90	70.1	11.5	98	84.8	2.5	107	26.0	27.5	112
M	34	6.0	28	107	35	2052	6.6	5.1	110	100	105	21	15		100	72.4	11.2	101	85.0	2.3	108	27.4	27.5	109
M	34	6.4	22	109	35	2074	6.9	5.1	110	100	105	15	10		100	74.4	10.5	102	85.0	2.4	108	26.3	28.0	113
HOUSTON		DPL SMOOTH LEAF					90 PERCENT																		
M	34	5.4	17	106	34	2016	6.4	4.9	110	100	105	18	14	53	80	71.6	10.9	98	85.0	2.5	107	26.3	27.4	111
M	34	6.2	15	106	33	1991	6.5	4.5	110	100	105	18	16		90	73.2	11.0	102	84.0	2.2	106	28.0	27.5	108
INDIANOLA		DPL SMOOTH LEAF					100 PERCENT																		
SLM	34	7.4	30	119	41	2334	7.0	5.7	100	90	95	13	17		90	71.6	10.7	98	83.4	2.3	104	26.8	27.0	108
INDIANOLA		DIXIE KING					100 PERCENT																		
M	35	6.9	27	117	39	2262	5.9	4.6	100	90	95	34	25	61	80	70.6	11.7	99	84.1	2.3	106	26.7	27.0	108
SLM	34	8.0	21	111	37	2146	5.8	4.4	100	90	95	36	31		80	70.2	10.6	95	83.4	2.2	105	30.0	25.6	96
SLM	34	7.8	22	115	38	2215	6.1	4.5	110	100	105	22	19		80	70.4	11.2	98	82.8	2.6	102	28.2	26.5	104
LAKE CORMORANT		DELTA QUEEN					100 PERCENT																		
M	36	6.1	25	115	39	2240	6.2	5.0	100	90	95	24	19	63	80	71.7	11.7	102	83.8	2.5	104	27.0	27.7	111
SLM	36	6.8	20	117	38	2237	6.4	4.8	100	90	95	34	33		80	71.2	10.9	98	83.0	2.5	102	27.0	27.7	111
SLM	35	10.9	66	119	41	2334	7.3	5.1	80	70	75	53	44		80	70.9	10.7	97	83.5	2.9	102	27.0	26.1	105
LELAND		FOX 4					100 PERCENT																		
M	35	6.3	15	119	41	2334	6.3	5.2	100	90	95	32	22	63	80	70.6	11.4	98	83.6	2.3	105	26.3	27.6	112
	35	7.0	16	117	40	2287	6.1	4.9	100	90	95	45	23		80	68.5	11.2	93	84.0	2.3	106	26.7	27.2	109
SLM LT SP	34	8.9	15	119	42	2359	6.7	5.1	100	90	95	29	22		70	69.9	11.4	97	82.8	2.3	103	27.4	27.2	108
ROLLING FORK		DPL SMOOTH LEAF					100 PERCENT																		
M	36	5.9	20	133	47	2638	7.4	5.8	110	100	105	19	14	72	100	73.8	10.4	101	84.3	2.7	105	25.1	28.1	116
M	35	6.6	31	120	42	2370	7.0	5.4	110	100	105	20	19		90	71.9	11.3	100	84.5	2.0	108	27.4	27.2	108
M	35	6.6	32	117	39	2262	6.8	5.3	100	100	100	23	20		100	72.8	10.6	100	84.6	2.2	108	27.7	27.3	108
M LT SP	33	7.0	40	113	38	2193	6.8	5.3	100	90	95	38	29	64	80	69.8	10.8	95	81.2	2.6	98	27.6	26.5	105
ROSEDALE		DPL SMOOTH LEAF					100 PERCENT																		
M	35	6.5	37	117	40	2287	6.8	5.2	100	90	95	23	22	66	90	73.6	11.0	102	84.0	2.4	105	26.1	28.1	114
M LT SP	34	7.2	22	111	36	2121	6.5	5.0	100	100	100	27	28		90	70.2	11.4	98	84.0	1.8	108	26.3	27.3	110
SLM	35	6.9	24	108	36	2088	6.5	5.2	100	90	95	37	31		80	71.1	11.4	99	83.8	2.3	105	27.6	27.3	108
SLM	34	7.9	19	111	37	2146	6.3	4.9	100	90	95	25	16	57	80	73.6	10.4	100	83.4	2.1	105	27.5	27.1	107

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 1963 -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			Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge	1/8" gauge			Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.													
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTH CENTRAL AREA--CONTINUED																
MISSISSIPPI																
TCHULA		DPL SMOOTH LEAF				95 PERCENT										
SM	35	1.12	45	4.4	79	39.1	22.6	6.6	0.6	0.9	77.8	8.8	102	502	78.5	8.6
M	34	1.08	43	4.4	80	39.6	22.1	7.0	0.7	1.3	76.5	8.2	100	552	78.5	8.2
M	34	1.08	45	4.2	79	39.1	21.6	6.7	0.7	1.9	79.2	8.0	104	501	80.2	7.9
TUNICA		DPL SMOOTH LEAF				99 PERCENT										
M LT SP	36	1.15	45	4.2	78	38.5	21.2	6.8	0.8	1.7	75.5	8.9	100	552	77.0	9.2
M	36	1.13	45	4.4	82	40.4	22.6	7.1	0.6	1.6	79.0	8.5	104	451	78.3	9.0
M	36	1.13	45	4.4	79	39.0	22.1	6.0	1.6	2.1	79.2	8.4	104	451	79.2	8.4
SLM	35	1.11	45	4.0	77	38.2	23.2	7.4	2.2	2.9	76.7	7.8	100	551	77.0	8.2
TUPELO		MIXED MAINLY STONEVILLE 7A														
SM	34	1.06	45	4.4	77	38.0	20.4	5.5	0.5	1.0	75.5	8.9	100	552	76.2	9.0
SM	34	1.04	46	4.6	81	39.9	20.5	5.8	0.7	1.3	78.0	8.2	102	501	77.8	8.7
SM	34	1.03	47	4.5	80	39.4	18.6	6.1	0.8	1.7	78.8	8.2	103	501	78.3	8.4
TUTWILER		STONEVILLE 7A				100 PERCENT										
M	38	1.19	48	4.8	86	42.8	24.3	5.5	2.8	3.6	78.0	8.2	102	501	78.0	8.4
SLM	37	1.14	47	4.8	81	39.9	22.2	5.4	2.7	3.7	76.7	7.7	100	551	80.2	8.4
VICKSBURG		DPL SMOOTH LEAF				100 PERCENT										
SM	34	1.08	46	5.0	79	39.2	21.8	6.3	0.8	1.3	77.8	8.7	102	502	78.5	8.7
M	34	1.08	45	4.8	77	38.3	21.9	6.3	0.9	1.8	77.0	8.8	102	502	78.0	8.6
M	34	1.07	45	4.7	80	39.5	21.1	5.9	1.3	2.2	77.0	8.4	101	502	77.7	8.7
WEST POINT		DPL SMOOTH LEAF				100 PERCENT										
SM	34	1.07	44	4.1	77	38.3	21.8	6.8	0.8	1.0	77.8	8.4	102	502	78.7	8.4
M	34	1.06	44	4.2	72	35.9	21.0	7.2	0.8	1.7	79.0	8.0	103	501	79.0	8.3
M	34	1.06	46	4.4	78	38.6	20.3	6.6	0.5	1.4	79.0	8.1	103	501	81.2	8.0
MISSOURI																
EAST PRAIRIE		MIXED MAINLY FOX 4														
SLM	34	1.06	45	4.6	77	38.1	20.7	6.7	1.6	1.9	73.2	9.0	96	603	77.3	9.4
SLM	34	1.07	45	4.2	78	38.6	21.5	6.7	2.0	3.0	74.1	8.6	98	602	76.0	8.4
SLM	34	1.07	43	4.2	77	38.1	21.2	6.8	2.5	3.6	75.0	8.0	98	602	77.1	8.1
ESSEX		REX				90 PERCENT										
SLM	34	1.06	45	4.5	79	39.1	20.8	5.8	1.8	2.4	74.8	8.3	98	602	76.7	8.3
SLM	34	1.08	46	4.2	80	39.6	20.4	6.9	2.4	3.0	77.0	7.8	100	551	79.1	8.0
SLM	34	1.07	44	4.1	77	38.1	20.2	6.6	2.2	2.8	76.5	7.3	100	601	78.9	7.6
MARSTON		STONEVILLE 7A				75 PERCENT										
SLM	34	1.07	44	4.4	76	37.6	21.2	6.1	1.1	2.1	75.2	8.3	99	552	76.7	8.4
SLM	34	1.08	45	4.2	84	41.6	22.0	5.9	1.8	2.4	74.9	7.7	98	601	78.6	7.9
SLM	34	1.08	44	4.0	82	40.6	20.9	6.2	2.0	2.8	74.8	7.7	97	601	76.9	8.0

Table 6e.--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 1963--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 ork.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			Rflctance	Yellowness	Composite	Rflctance	Yellowness	Composite	Rflctance	Blueness	Composite
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
SOUTH CENTRAL AREA--CONTINUED																								
MISSISSIPPI																								
TCHULA		DPL SMOOTH LEAF						95 PERCENT																
SM	35	6.0	30	122	42	2392	6.8	5.2	100	100	100	21	18	67	90	72.7	11.1	101	83.4	2.2	105	25.9	27.9	114
M	34	6.4	24	113	37	2168	6.8	5.1	100	90	95	20	18		100	70.9	10.4	96	83.6	1.9	106	27.5	27.2	108
M	34	5.8	33	115	39	2240	7.1	5.3	100	90	95	22	13		100	73.0	10.2	99	83.4	2.2	105	27.7	27.0	106
TUNICA		DPL SMOOTH LEAF						99 PERCENT																
M LT SP	36	6.7	26	115	39	2240	6.8	5.4	100	90	95	21	18	68	80	70.6	12.6	102	85.1	2.3	108	25.3	27.6	114
M	36	5.5	21	117	41	2312	7.2	5.4	110	100	105	17	13		90	72.3	11.5	102	84.6	2.1	108	25.7	27.8	114
M	36	5.9	18	120	42	2370	6.9	5.5	110	100	105	31	28		90	74.3	10.8	103	85.3	2.3	109	26.5	27.5	111
SLM	35	7.3	25	122	42	2392	7.4	5.6	110	90	100	27	18	64	80	70.7	10.8	97	82.8	2.6	102	27.6	26.5	105
TUPELO		MIXED MAINLY STONEVILLE 7A																						
SM	34	5.4	27	111	37	2146	6.4	4.9	100	90	95	18	17	58	90	71.4	11.6	100	83.2	2.4	103	26.8	27.5	110
SM	34	5.8	21	109	33	2024	6.2	4.5	110	100	105	28	19		100	71.8	11.2	100	84.9	2.5	107	27.4	27.5	109
SM	34	6.2	27	107	35	2052	6.6	5.0	110	100	105	16	12		90	74.7	10.5	102	84.6	2.2	107	27.2	27.4	109
TUTWILER		STONEVILLE 7A						100 PERCENT																
M	38	7.9	11	129	46	2569	6.3	5.1	120	100	110	14	11	68	100	73.6	11.0	102	83.6	2.2	105	25.2	28.1	116
SLM	37	6.6	10	119	41	2334	6.2	4.9	120	110	115	12	9		100	72.2	10.8	100	83.9	2.0	106	26.4	27.6	111
VICKSBURG		DPL SMOOTH LEAF						100 PERCENT																
SM	34	5.2	10	118	41	2323	6.9	5.2	110	110	110	11	8	63	100	73.0	10.9	101	83.6	2.3	104	25.0	28.5	118
M	34	6.1	12	115	38	2215	6.5	5.0	120	110	115	9	11		90	70.8	11.4	98	85.2	2.1	109	26.9	27.3	109
M	34	6.4	21	107	34	2027	6.1	4.5	110	100	105	13	15		100	73.3	10.7	101	84.0	1.9	107	28.2	27.0	106
WEST POINT		DPL SMOOTH LEAF						100 PERCENT																
SM	34	5.3	23	116	40	2276	6.9	5.4	100	100	100	20	20	65	90	72.7	11.2	101	85.1	2.2	109	24.9	28.0	116
M	34	5.9	26	111	37	2146	6.9	5.4	110	100	105	16	10		100	72.4	10.8	99	85.4	1.6	111	27.0	27.2	109
M	34	6.0	20	112	38	2182	6.6	5.4	110	100	105	14	15		90	73.8	10.3	100	84.7	1.8	109	27.6	27.2	108
MISSOURI																								
EAST PRAIRIE		MIXED MAINLY FOX 4																						
SLM	34	6.6	17	98	34	1928	5.5	4.2	120	100	110	34	24	56	90	68.4	11.6	95	83.6	2.6	103	26.2	26.9	109
SLM	34	6.6	18	102	37	2047	5.8	4.8	110	90	100	42	29		80	69.6	11.1	95	86.0	2.8	108	26.8	26.8	108
SLM	34	7.5	18	104	39	2119	6.4	5.2	110	90	100	34	26		90	70.8	11.3	98	82.8	2.7	101	26.5	27.1	109
ESSEX		REX						90 PERCENT																
SLM	34	6.3	14	104	37	2069	5.8	4.7	120	110	115	27	18	65	90	68.7	11.1	94	84.0	2.7	104	26.5	26.9	108
SLM	34	6.9	12	104	38	2094	6.0	4.9	120	100	110	28	19		90	70.9	10.8	97	84.5	2.7	105	27.2	27.2	108
SLM	34	7.5	22	101	38	2061	6.3	5.2	120	100	110	31	20		100	71.4	10.2	96	82.6	2.5	102	26.9	27.0	108
MARSTON		STONEVILLE 7A						75 PERCENT																
SLM	34	6.2	15	96	34	1906	5.7	4.6	110	100	105	26	19	55	90	68.9	10.9	93	82.4	2.7	100	27.5	26.8	106
SLM	34	7.0	18	103	37	2058	5.5	4.3	120	100	110	30	19		90	69.4	11.0	94	83.6	2.8	103	26.4	27.3	110
SLM	34	6.6	24	102	37	2047	5.8	4.5	100	90	95	38	28		90	68.8	10.4	91	82.3	2.8	100	26.6	27.0	109

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 1963 -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			Elon-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		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
SOUTH CENTRAL AREA--CONTINUED																
MISSOURI																
PARMA		MIXED MAINLY DELFOS 9169														
SLM	34	1.06	46	4.6	82	40.6	21.6	5.4	1.6	2.7	73.8	8.8	97	602	76.0	9.0
SLM	34	1.06	45	4.3	82	40.6	21.3	5.9	2.0	2.4	74.9	8.0	98	602	77.7	7.9
SLM	34	1.08	44	4.0	77	38.1	20.5	7.2	2.2	3.2	74.8	7.8	98	601	77.1	7.9
QULIN		STONEVILLE 213				80 PERCENT										
SLM	33	1.04	45	5.0	84	41.6	23.0	5.0	2.0	3.0	74.1	8.8	98	552	76.8	8.9
SLM	34	1.07	46	4.9	81	40.1	21.7	5.4	2.4	2.6	75.0	8.5	98	552	76.9	8.9
SLM	34	1.03	45	4.0	77	38.1	20.2	7.7	2.9	3.6	75.0	8.2	98	602	77.1	8.6
SENATH		AUBURN M				75 PERCENT										
SLM	34	1.04	43	3.7	85	42.1	22.7	5.2	1.2	2.4	72.1	9.2	95	603	73.8	9.1
SLM	33	1.02	45	4.0	83	41.1	22.1	5.4	1.0	1.1	73.9	8.6	97	602	77.0	8.7
SLM	33	0.98	45	3.8	83	41.1	22.2	7.2	1.4	2.4	73.6	8.2	96	602	75.5	8.3
STEELE		DPL SMOOTH LEAF				75 PERCENT										
M	35	1.10	45	5.0	84	41.6	20.9	6.4	0.9	1.6	73.9	9.4	98	553	76.5	9.0
SM	34	1.01	46	5.2	84	41.6	21.2	5.8	0.5	0.9	79.6	8.3	104	451	82.1	8.2
M	34	1.08	45	4.8	81	40.1	22.3	8.2	0.7	1.7	76.7	8.4	100	552	77.9	8.1
WARDELL		REX				90 PERCENT										
SLM	34	1.07	44	4.2	85	42.1	20.0	4.7	2.0	3.0	74.0	8.6	97	602	76.6	9.2
SLM	34	1.02	45	4.8	86	42.6	21.0	4.8	2.2	3.3	75.0	8.1	98	602	77.9	8.2
SLM	34	1.06	45	4.2	81	40.1	20.8	6.6	2.6	3.4	74.9	7.7	98	601	77.4	7.9
TENNESSEE																
ALAMO		EMPIRE				70 PERCENT										
M	34	1.08	46	4.1	88	43.6	22.8	5.2	0.7	1.4	77.0	8.8	101	502	77.2	8.6
SM	34	1.04	46	4.6	78	38.8	21.1	6.1	0.6	1.3	78.8	8.5	103	451	79.0	8.5
SM	34	1.03	46	4.0	81	40.1	21.6	5.5	0.5	1.2	80.3	7.9	105	451	81.0	8.1
BROWNSVILLE		DIXIE KING				70 PERCENT										
M	34	1.07	45	4.0	78	38.7	21.2	5.8	0.6	1.3	75.5	9.2	100	502	75.5	9.2
M	34	1.04	46	4.4	83	41.1	21.2	5.1	1.0	1.4	78.2	8.6	103	502	78.5	8.6
M	34	1.02	47	4.4	79	38.9	19.8	6.6	1.1	2.3	78.0	8.8	102	452	80.0	8.2
COVINGTON		MIXED MAINLY FOX 4														
SM	34	1.07	46	4.2	85	42.2	21.8	5.4	0.7	1.5	75.8	9.0	100	502	77.0	8.9
M	34	1.02	45	4.3	86	42.4	20.1	5.1	0.4	1.7	78.2	8.4	103	501	78.8	8.6
M	34	1.02	47	4.2	80	39.4	21.6	5.6	0.9	1.9	79.5	7.9	104	501	79.7	8.4
FAYETTEVILLE		EMPIRE				90 PERCENT										
SLM	34	1.05	43	4.0	74	36.6	20.0	6.1	1.5	2.6	74.5	8.7	98	552	76.0	8.9
M	34	1.04	45	4.0	81	40.0	21.2	5.8	0.7	1.6	78.0	8.7	102	502	79.1	8.7
M	33	1.01	47	4.0	78	38.7	19.5	6.1	0.6	1.5	79.3	8.8	104	402	81.3	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 1963 -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		
Grade	Staple			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 11.6tex			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
SOUTH CENTRAL AREA--CONTINUED																								
MISSOURI																								
PARMA		MIXED MAINLY DELFOS 9169																						
SLM	34	5.9	16	104	36	2044	5.6	4.3	120	110	115	21	15	60	100	68.2	11.8	95	83.2	2.8	102	27.2	26.5	106
SLM	34	6.9	18	106	38	2116	5.7	4.7	120	100	110	23	15		100	69.4	11.0	94	82.9	2.8	101	27.4	26.8	106
SLM	34	6.3	21	110	40	2210	6.5	5.3	110	100	105	25	20		100	69.4	10.7	94	83.2	2.8	102	26.8	26.8	108
QULIN		STONEVILLE 213					80 PERCENT																	
SLM	33	6.2	15	99	32	1889	5.4	3.9	120	100	110	34	23	51	80	68.9	11.4	95	83.0	3.3	99	27.7	27.3	108
SLM	34	6.3	10	105	38	2105	5.4	4.5	120	100	110	28	21		80	70.1	11.2	97	83.0	3.0	100	25.7	28.1	115
SLM	34	8.1	13	101	35	1986	5.9	4.8	110	100	105	33	24		90	70.4	11.4	98	83.4	2.7	103	27.2	27.2	108
SENATH		AUBURN M					75 PERCENT																	
SLM	34	9.5	35	104	36	2044	5.5	4.5	100	70	85	58	47	56	80	67.1	11.4	91	83.8	3.0	102	26.9	26.8	107
SLM	33	6.1	17	104	36	2044	5.3	4.2	120	100	110	25	22		100	67.2	11.2	91	83.4	3.1	101	26.7	27.1	109
SLM	33	6.6	17	103	36	2033	5.8	4.6	120	100	110	30	20		100	69.4	11.1	95	82.3	3.0	99	28.5	26.1	101
STEELE		DPL SMOOTH LEAF					75 PERCENT																	
M	35	5.7	11	114	40	2254	5.7	4.5	120	110	115	17	12	63	90	67.7	10.8	90	83.0	2.4	103	25.1	27.8	115
SM	34	4.9	10	100	33	1925	5.3	4.0	120	110	115	12	8		110	72.4	10.6	99	82.8	2.5	102	25.7	28.1	115
M	34	5.2	14	107	37	2102	5.9	4.6	120	100	110	22	14		100	70.2	10.8	96	83.2	2.6	102	26.0	27.6	112
WARDELL		REX					90 PERCENT																	
SLM	34	6.1	14	99	35	1964	5.5	4.4	120	110	115	25	17	58	90	68.7	11.3	94	84.3	3.0	104	27.1	26.9	107
SLM	34	6.7	9	99	34	1939	5.4	4.1	120	120	120	15	12		100	69.6	11.0	95	83.8	2.6	104	27.3	27.0	108
SLM	34	6.9	11	105	38	2105	6.3	5.0	120	100	110	23	15		100	70.6	10.7	96	83.4	2.5	103	26.4	27.5	111
TENNESSEE																								
ALAMO		EMPIRE					70 PERCENT																	
M	34	5.7	35	122	43	2417	6.1	4.9	100	100	100	25	24	63	90	70.6	11.3	98	85.1	2.6	107	26.7	27.5	111
SM	34	5.2	24	115	38	2215	7.0	5.3	110	100	105	14	14		100	73.3	10.8	101	83.5	2.2	105	26.5	27.5	111
SM	34	5.5	40	110	37	2135	6.5	5.0	100	90	95	16	12		100	74.5	10.6	102	84.2	2.2	107	26.5	27.7	112
BROWNSVILLE		DIXIE KING					70 PERCENT																	
M	34	6.2	34	118	40	2298	6.2	4.8	100	90	95	34	29	63	80	69.0	11.9	97	84.5	2.9	104	26.2	27.2	110
M	34	5.2	20	108	34	2038	5.8	4.3	110	100	105	18	16		90	71.2	11.4	99	83.8	2.7	104	28.2	26.9	105
M	34	6.6	22	105	32	1955	6.4	4.8	100	100	100	16	16		90	73.0	10.9	101	83.6	2.1	106	27.4	27.5	109
COVINGTON		MIXED MAINLY FOX 4																						
SM	34	5.7	28	115	38	2215	6.1	4.8	110	100	105	26	20	60	90	71.0	11.6	100	82.7	2.6	101	27.5	27.3	108
M	34	5.1	27	104	31	1919	5.9	4.2	100	90	95	18	14		90	71.9	11.0	99	83.7	2.9	102	27.9	26.9	106
M	34	5.7	37	111	37	2146	6.6	5.1	100	90	95	24	20		90	74.0	10.6	102	85.2	2.3	108	26.8	27.4	110
FAYETTEVILLE		EMPIRE					90 PERCENT																	
SLM	34	7.8	30	107	36	2077	6.4	5.3	100	90	95	30	27	52	80	69.4	11.5	96	85.2	3.1	105	27.1	26.7	106
M	34	5.6	27	110	36	2110	6.9	5.1	110	100	105	28	13		90	71.8	11.4	100	85.1	2.2	109	26.5	27.3	110
M	33	6.1	33	106	35	2041	6.9	5.1	110	100	105	19	15		90	73.2	11.2	102	84.8	2.2	108	27.7	27.1	107

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 1963 -Continued

State, Production Area, Chronological sampling and Classification		Predominant variety, percentage of variety at gin, and fiber test results														
		Digital Fibrograph			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.	Micronaire	Zero gauge	1/8" gauge			Visible waste	Total waste	Reflectance	Yellowness	Composite		Reflectance	Yellowness
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTH CENTRAL AREA--CONTINUED																
TENNESSEE																
DYERSBURG		MIXED MAINLY STONEVILLE 213														
SM	34	1.04	47	4.6	84	41.4	21.8	5.4	0.6	1.2	78.7	8.6	104	452	80.0	8.6
M	34	1.08	46	4.2	77	38.3	19.9	5.8	1.4	2.1	77.1	8.2	101	552	78.1	8.2
SLM	33	1.02	45	3.8	76	37.8	21.0	6.1	1.1	2.3	74.0	8.2	97	602	76.0	8.4
HENDERSON		DPL 15				70 PERCENT										
M	34	1.03	45	4.2	78	38.7	20.2	5.6	0.7	1.5	76.0	8.6	100	552	77.2	8.6
M	34	1.08	47	4.4	81	40.0	21.1	5.7	0.7	1.0	77.8	8.5	102	502	78.5	8.6
SM	34	1.03	47	4.2	77	38.1	19.7	5.8	0.7	1.8	80.0	8.4	105	451	80.0	8.2
JACKSON		DIXIE KING				75 PERCENT										
SM	34	1.04	45	4.2	83	41.0	21.2	5.4	0.8	1.7	76.0	8.7	100	552	76.8	8.5
M	34	1.02	45	4.2	84	41.5	19.9	5.4	0.5	1.3	76.0	8.5	100	552	77.5	8.6
SLM	34	1.01	47	4.2	80	39.4	21.7	5.6	1.6	2.5	76.0	7.8	99	601	76.8	8.6
LEXINGTON		REX				90 PERCENT										
M	34	1.02	44	4.0	83	40.9	21.0	5.4	0.7	1.2	75.9	8.8	100	552	76.5	8.8
M	34	1.03	47	4.3	82	40.5	21.2	5.6	0.7	1.7	78.0	8.6	102	502	78.2	8.7
M	33	1.02	46	4.4	76	37.6	19.8	6.1	1.0	2.1	78.9	8.6	104	451	79.6	8.4
MILLINGTON		DPL SMOOTH LEAF				90 PERCENT										
SLM	34	1.06	43	3.8	79	39.1	19.9	5.6	1.1	2.0	71.2	8.8	93	603	74.8	9.5
M	34	1.01	46	5.1	80	39.6	20.7	6.4	1.1	2.0	76.1	8.8	100	502	77.2	8.7
M	34	1.04	48	4.6	82	40.3	21.4	6.2	0.7	1.4	76.7	8.6	100	502	78.8	8.6
TIPTONVILLE		DPL SMOOTH LEAF				100 PERCENT										
SM	35	1.11	43	4.4	83	41.0	24.6	6.6	0.2	0.9	77.8	8.5	102	502	78.0	8.6
M	34	1.08	44	4.6	77	38.3	23.0	6.8	0.7	1.4	78.8	8.0	103	501	79.2	8.0
SM	34	1.07	45	4.2	78	38.5	21.2	6.9	0.5	1.5	79.8	8.4	104	451	82.0	7.8
SOUTHWEST AREA																
SOUTH TEXAS																
BROWNSVILLE		DPL 15				75 PERCENT										
M	32	0.99	45	4.6	81	40.1	20.6	5.4	0.8	1.8	77.1	8.9	102	502	78.9	8.8
SLM	32	1.00	46	4.8	79	39.1	21.6	5.9	1.0	1.4	77.0	9.0	101	502	79.1	8.6
SLM	33	1.03	43	4.5	75	37.1	21.4	7.0	1.3	2.2	74.5	8.6	98	552	76.4	9.2
CORPUS CHRISTI		DELFOS				75 PERCENT										
M LT SP	32	0.99	42	4.3	81	40.1	20.6	6.2	1.9	3.0	73.4	9.3	97	553	74.6	9.2
M LT SP	31	0.98	41	4.0	80	39.6	21.3	6.2	1.7	2.7	73.5	9.2	97	553	76.0	9.2
HARLINGEN		STONEVILLE 7A				90 PERCENT										
SLM	32	1.00	48	5.2	82	40.6	20.4	5.5	1.8	2.7	74.6	9.2	99	553	76.8	9.4
SLM	33	1.01	46	4.5	75	37.1	21.0	5.9	2.0	2.6	75.2	8.8	99	552	76.6	9.1
SLM	33	1.04	47	4.8	79	39.1	21.3	6.5	2.1	3.1	73.1	8.6	96	602	75.1	8.8
PORT LAVACA		DPL SMOOTH LEAF				91 PERCENT										
M	32	0.96	48	5.4	79	39.1	20.4	7.8	1.0	1.7	77.0	8.9	102	502	78.3	9.0
M LT SP	32	1.00	47	5.0	76	37.6	20.9	6.3	1.2	1.7	73.8	9.4	97	553	74.1	10.1
M LT SP	33	1.00	45	5.0	78	38.6	20.6	6.7	1.3	2.1	72.9	9.5	96	553	74.8	9.1

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 1963--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		
Grade	Staple			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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
SOUTH CENTRAL AREA--CONTINUED																									
TENNESSEE																									
DYERSBURG			MIXED MAINLY STONEVILLE 213																						
SM	34	5.2	25	112	36	2132	6.6	4.9	110	100	105	9	8	58	110	73.4	10.9	102	82.8	2.1	104	27.2	27.5	110
M	34	7.0	30	111	38	2171	6.7	5.2	100	90	95	18	16		100	72.0	10.8	99	84.0	2.8	104	26.4	27.2	110
SLM	33	6.8	41	109	37	2124	7.0	5.2	100	90	95	38	26		80	69.8	10.8	95	82.0	2.9	99	27.4	26.5	105
HENDERSON			DPL 15					70 PERCENT																	
M	34	5.5	27	108	35	2063	6.2	4.8	100	90	95	20	21	56	90	71.7	11.0	99	83.7	2.5	104	27.1	27.1	108
M	34	5.0	22	113	38	2193	6.6	4.9	110	100	105	17	13		100	71.9	11.3	100	84.3	2.8	104	27.7	27.0	106
SM	34	5.9	27	109	37	2124	6.9	5.3	110	100	105	17	12		100	74.4	10.4	102	85.3	2.2	109	27.1	27.5	110
JACKSON			DIXIE KING					75 PERCENT																	
SM	34	6.1	36	111	36	2121	6.2	4.9	100	90	95	31	26	56	80	71.8	11.0	99	83.9	2.5	104	26.3	27.3	111
M	34	5.0	16	106	33	1991	6.4	4.5	110	100	105	29	17		90	71.0	10.9	98	84.0	2.3	106	26.9	26.9	108
SLM	34	6.7	28	106	35	2041	6.6	5.1	100	90	95	36	24		80	71.3	10.6	97	84.2	2.6	105	27.2	27.4	109
LEXINGTON			REK					90 PERCENT																	
M	34	5.7	28	103	36	2033	6.1	4.9	100	100	100	19	16	49	100	71.4	11.0	98	83.8	2.5	104	26.4	27.4	111
M	34	6.4	21	109	35	2074	6.6	4.9	110	100	105	23	11		100	71.3	11.2	99	85.1	2.4	108	27.0	27.2	109
M	33	6.6	24	102	32	1922	6.4	4.7	110	100	105	20	14		100	72.7	10.8	100	84.3	2.4	106	26.4	27.9	113
MILLINGTON			DPL SMOOTH LEAF					90 PERCENT																	
SLM	34	6.5	29	105	36	2055	6.4	4.8	100	90	95	21	21	61	90	66.8	11.6	90	85.0	2.6	107	27.1	26.6	106
M	34	5.7	19	104	31	1919	6.3	4.7	110	100	105	15	13		100	71.6	11.2	99	83.5	2.1	105	27.2	27.7	110
M	34	6.8	19	107	33	2002	6.3	4.7	110	100	105	15	13		100	72.2	10.9	100	83.9	2.1	106	27.2	27.6	110
TIPTONVILLE			DPL SMOOTH LEAF					100 PERCENT																	
SM	35	5.5	36	118	40	2298	6.8	5.0	100	90	95	25	24	65	90	72.6	10.9	100	84.7	2.7	106	25.2	28.1	116
M	34	6.1	32	114	37	2179	7.0	5.1	100	90	95	22	18		90	73.6	10.3	100	84.3	2.1	107	26.4	27.9	113
SM	34	5.9	35	115	39	2240	7.3	5.5	100	90	95	16	14		100	74.9	10.4	102	84.4	2.1	107	26.7	27.9	112
SOUTHWEST AREA																									
SOUTH TEXAS																									
BROWNSVILLE			DPL 15					75 PERCENT																	
M	32	7.3	24	92	28	1712	5.1	3.5	110	100	105	38	32	45	80	72.2	10.8	99	82.7	2.7	101	26.4	27.4	111
SLM	32	6.1	20	106	37	2091	5.8	4.7	120	100	110	16	13		100	72.8	11.0	101	85.1	2.5	108	27.2	27.2	108
SLM	33	7.2	37	98	34	1928	5.6	4.5	110	90	100	40	29		80	72.0	10.9	99	84.5	2.6	106	26.7	27.0	109
CORPUS CHRISTI			DELFOS					75 PERCENT																	
M LT SP	32	9.2	25	93	30	1773	5.3	3.8	100	100	100	33	27	51	100	67.8	11.9	94	83.4	3.2	101	26.6	27.0	109
M LT SP	31	8.0	31	91	30	1751	5.2	3.7	100	90	95	45	32		90	68.4	11.8	95	83.6	2.8	103	27.5	26.2	104
HARLINGEN			STONEVILLE 7A					90 PERCENT																	
SLM	32	8.0	14	93	30	1773	5.2	3.5	120	100	110	22	19	45	90	70.6	11.5	99	83.9	2.8	103	26.9	27.4	110
SLM	33	7.4	23	105	38	2105	6.0	4.9	120	100	110	27	18		80	72.2	11.3	101	85.5	2.9	107	26.9	26.8	107
SLM	33	7.2	16	104	37	2069	5.8	4.5	120	110	115	27	17		100	70.7	11.2	98	84.1	2.7	104	27.6	26.6	105
PORT LAVACA			DPL SMOOTH LEAF					91 PERCENT																	
M	32	7.6	11	97	32	1867	5.8	4.2	120	120	120	18	11	46	100	71.7	11.0	99	84.8	2.3	108	25.7	27.7	113
M LT SP	32	6.5	14	99	33	1914	5.8	4.4	120	110	115	20	12		90	69.5	11.9	98	83.5	2.5	104	26.6	26.8	108
M LT SP	33	9.2	12	97	34	1917	5.1	3.7	120	110	115	25	18		90	69.0	11.8	96	83.5	2.5	104	26.3	27.0	109

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 1963 -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			Elon-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		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
SOUTHWEST AREA--CONTINUED																
SOUTH TEXAS																
PROGRESO		STONEVILLE 7A				97 PERCENT										
M	33	1.04	48	5.0	78	38.6	21.5	5.8	0.7	1.5	77.7	9.2	103	452	79.8	8.9
M	33	1.03	46	4.6	81	40.1	21.1	5.4	1.2	1.9	76.4	8.8	101	502	77.8	8.6
M LT SP	33	1.06	47	4.4	80	39.6	21.9	6.4	1.2	1.9	75.7	9.2	100	502	77.0	9.4
ROBSTOWN		STONEVILLE 7A				90 PERCENT										
M	31	0.94	47	5.2	82	40.6	21.1	4.4	1.2	2.0	75.0	9.2	99	503	77.7	9.1
M LT SP	30	0.94	45	4.6	78	38.6	19.4	6.0	1.6	2.9	73.1	9.7	97	553	75.6	10.0
M LT SP	30	0.91	45	4.7	80	39.6	19.6	5.8	1.7	2.6	73.4	9.8	98	553	76.6	9.8
SANTA ROSA		DPL 15				90 PERCENT										
SLM	33	1.02	47	5.0	79	39.1	21.7	6.7	2.8	3.6	76.0	8.9	100	502	77.2	9.3
SLM	33	1.04	46	4.8	82	40.6	21.1	6.0	1.7	2.4	75.3	8.9	100	552	77.0	9.0
SLM	33	1.05	45	4.3	79	39.1	21.3	6.0	1.5	2.4	75.5	8.4	99	552	76.6	8.8
SEBASTIAN		STONEVILLE 7A				87 PERCENT										
SLM	32	0.99	47	5.2	84	41.6	21.7	6.5	1.5	2.4	72.9	9.5	96	553	74.8	9.5
SLM	33	1.04	45	4.8	81	40.1	21.1	5.5	1.6	2.4	73.9	9.0	97	552	76.8	9.0
SLM	33	1.03	46	4.8	78	38.6	20.9	6.1	1.2	2.0	74.0	9.3	98	553	75.9	9.3
CENTRAL TEXAS																
BATESVILLE		DPL SMOOTH LEAF				95 PERCENT										
M	34	1.09	43	4.4	80	39.6	23.0	7.8	0.8	1.8	79.1	8.7	104	451	81.9	8.6
M	34	1.08	45	4.2	80	39.6	23.2	7.7	0.7	1.5	79.3	8.8	105	402	80.8	8.8
M	34	1.08	44	4.2	79	39.1	22.4	6.8	0.9	2.0	78.1	9.0	103	452	79.5	8.9
BRYAN		DPL SMOOTH LEAF				75 PERCENT										
M LT SP	33	1.01	44	3.9	84	41.6	22.1	5.7	1.4	1.6	73.8	9.9	98	503	76.1	9.9
SLM	33	1.04	44	4.8	83	41.1	20.9	5.8	1.5	2.0	73.3	8.8	96	602	77.0	9.0
LM	33	1.02	43	4.4	80	39.6	20.6	5.5	2.0	3.0	69.6	7.9	89	702	74.9	8.2
NAVASOTA		DPL SMOOTH LEAF				92 PERCENT										
M	34	1.06	45	4.2	85	42.1	21.9	6.6	0.7	1.0	76.5	9.0	101	502	78.0	8.8
SLM	34	1.08	44	4.6	83	41.1	21.3	6.0	1.0	1.8	72.2	8.6	94	602	75.4	8.8
SLM	34	1.08	42	3.9	87	43.1	22.5	6.1	1.1	2.0	73.1	8.2	96	602	75.3	8.0
PARIS		DPL				85 PERCENT										
M	34	1.08	47	4.6	91	45.0	25.0	5.4	0.9	1.5	77.0	8.7	101	502	78.5	8.7
SLM	34	1.06	44	4.0	83	41.1	21.6	5.6	1.2	1.9	77.0	8.5	101	502	80.0	8.7
SLM	33	1.04	43	3.7	84	41.6	21.7	5.2	1.6	2.6	76.1	8.2	100	552	78.3	8.0
QUEEN CITY		DPL				99 PERCENT										
M	34	1.06	45	4.6	86	42.6	23.7	6.3	0.7	1.6	78.3	9.3	104	402	79.9	9.2
M	34	1.05	43	4.0	84	41.6	21.7	6.1	0.6	1.5	76.7	9.6	102	453	78.2	9.5
M	34	1.01	46	4.7	83	41.1	21.1	6.3	0.7	1.2	77.2	8.7	102	502	78.9	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 1963--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		
Grade	Staple			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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
SOUTHWEST AREA--CONTINUED																								
SOUTH TEXAS																								
PROGRESO		STONEVILLE 7A					97 PERCENT																	
M	33	6.6	13	106	37	2091	5.6	4.2	120	100	110	16	12	59	100	73.0	11.2	102	84.2	2.4	106	26.4	27.6	112
M	33	7.0	24	101	35	1986	5.6	4.4	110	100	105	25	19		90	72.8	11.1	101	83.9	2.4	105	27.2	26.9	107
M LT SP	33	6.8	19	109	41	2224	5.8	5.0	120	100	110	20	15		100	71.5	11.8	101	84.2	3.2	102	25.9	27.2	111
ROBSTOWN		STONEVILLE 7A					90 PERCENT																	
M	31	7.2	8	89	25	1604	4.8	3.1	120	110	115	19	15	44	100	71.4	11.6	100	81.7	2.7	98	27.0	27.0	108
M LT SP	30	9.0	18	83	24	1513	5.2	3.3	110	100	105	29	22		90	69.6	12.2	99	84.4	2.8	105	27.3	26.6	106
M LT SP	30	8.4	21	85	34	1785	5.1	4.6	110	100	105	35	25		80	69.8	12.6	101	84.2	2.8	104	27.0	26.9	108
SANTA ROSA		DPL 15					90 PERCENT																	
SLM	33	8.1	15	109	39	2174	5.6	4.6	120	110	115	22	14	55	90	72.4	11.4	101	84.5	2.5	106	25.7	27.6	113
SLM	33	7.3	19	107	38	2127	6.2	4.7	120	110	115	20	17		90	71.1	11.5	100	85.2	2.5	108	26.6	27.0	109
SLM	33	6.8	13	111	41	2246	5.5	4.7	120	110	115	23	13		110	71.1	11.4	99	84.0	2.6	104	26.9	26.6	107
SEBASTIAN		STONEVILLE 7A					87 PERCENT																	
SLM	32	8.4	14	103	34	1983	5.5	3.9	120	110	115	25	14	53	80	67.2	12.0	93	82.1	3.1	98	26.8	27.0	108
SLM	33	7.4	17	104	37	2069	5.8	4.8	120	100	110	24	18		90	69.9	11.8	98	85.1	2.6	107	27.2	26.5	106
SLM	33	6.6	16	101	35	1986	5.4	4.5	120	100	110	22	16		100	70.6	11.6	99	84.3	2.8	104	27.6	26.5	105
CENTRAL TEXAS																								
BATESVILLE		DPL SMOOTH LEAF					95 PERCENT																	
M	34	5.9	22	112	40	2232	6.3	5.1	120	100	110	26	22	61	90	74.5	11.3	104	85.1	2.5	107	25.2	27.9	115
M	34	6.8	25	115	41	2290	6.5	5.3	120	100	110	28	21		100	73.7	11.6	104	84.1	2.5	105	26.5	27.7	112
M	34	8.3	30	106	37	2091	6.1	4.8	100	80	90	44	36		100	71.7	11.1	99	83.8	2.6	104	26.1	27.7	113
BRYAN		DPL SMOOTH LEAF					75 PERCENT																	
M LT SP	33	7.5	32	106	36	2066	5.6	4.3	100	90	95	35	33	54	100	68.2	12.8	99	85.5	3.0	106	27.4	27.3	108
SLM	33	6.8	26	96	32	1856	5.3	4.1	110	100	105	25	18		90	68.7	11.4	94	83.5	2.7	103	28.5	26.9	105
LM	33	7.2	21	94	31	1809	5.4	4.0	120	100	110	31	20		80	65.1	10.8	86	83.0	2.9	101	30.6	24.5	91
NAVASOTA		DPL SMOOTH LEAF					92 PERCENT																	
M	34	6.0	24	108	38	2138	5.8	4.6	110	100	105	27	19	58	100	71.8	11.6	101	84.6	2.4	107	27.4	27.5	109
SLM	34	6.9	27	103	35	2008	5.4	4.2	120	100	110	27	21		100	67.4	10.4	88	83.3	2.7	103	27.8	26.7	105
SLM	34	4.8	21	111	40	2221	5.9	4.5	120	100	110	28	19		80	67.0	10.7	89	83.8	3.0	102	27.5	26.8	106
PARIS		DPL					85 PERCENT																	
M	34	6.2	14	116	42	2326	5.5	4.3	110	100	105	32	25	61	80	71.5	11.7	101	84.0	2.8	104	25.2	28.0	116
SLM	34	5.4	17	116	41	2301	5.9	4.8	120	100	110	27	17		80	70.1	11.0	96	83.2	2.4	103	26.6	27.5	111
SLM	33	7.0	23	103	36	2033	5.5	4.3	110	90	100	35	26		100	70.9	10.9	97	83.8	2.8	103	27.0	27.7	111
QUEEN CITY		DPL					99 PERCENT																	
M	34	6.7	21	113	40	2243	6.2	5.0	110	90	100	34	21	60	80	72.5	11.5	102	85.2	2.6	107	25.0	28.6	118
M	34	5.4	20	106	37	2091	5.9	4.5	120	100	110	27	19		80	68.9	12.5	99	85.0	3.3	104	27.5	26.7	106
M	34	5.5	17	99	33	1914	5.2	4.2	120	100	110	26	21		90	71.9	11.6	101	84.5	2.4	106	28.7	27.0	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 1963 -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			Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge		1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.													
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTHWEST AREA--CONTINUED																
CENTRAL TEXAS																
SUGARLAND		STONEVILLE 7A				85 PERCENT										
SM	34	1.04	48	5.6	86	42.6	21.8	5.4	0.5	1.3	79.8	9.0	105	402	81.0	8.7
M	34	1.08	44	4.7	84	41.6	21.4	5.7	1.6	2.4	77.7	9.2	103	452	79.4	8.8
M	34	1.06	46	4.9	84	41.6	20.5	5.1	1.1	1.6	77.1	8.5	102	502	78.5	8.7
TEXARKANA		DPL SMOOTH LEAF				99 PERCENT										
M	35	1.08	47	4.6	85	42.1	21.7	6.6	0.5	0.8	78.2	9.0	103	452	80.8	8.8
SLM	34	1.09	44	4.6	80	39.6	22.6	7.1	1.2	1.7	75.4	8.4	99	552	79.6	8.3
M	35	1.06	45	4.6	84	41.6	21.8	6.6	0.8	1.5	79.2	8.0	104	501	80.4	8.1
WESTERN AREA																
ARIZONA																
BUCKEYE		DPL SMOOTH LEAF				100 PERCENT										
M LT SP	33	1.07	44	5.2	84	41.6	23.2	7.3	1.4	2.3	75.1	9.4	99	503	76.9	9.6
SLM	33	1.02	45	5.3	85	42.1	21.7	6.0	1.2	2.4	73.9	8.4	97	602	77.1	8.6
SLM	33	1.04	43	5.1	81	40.1	21.5	6.5	1.4	2.5	75.1	7.8	98	601	77.8	8.2
SLM	33	1.02	41	4.0	84	41.6	22.1	6.6	1.6	2.8	74.2	7.6	96	601	76.5	7.9
CASA GRANDE		DPL SMOOTH LEAF				100 PERCENT										
M	34	1.06	44	4.4	81	40.1	22.0	7.2	1.4	2.1	77.5	8.6	102	502	80.0	8.5
M	34	1.04	46	5.0	80	39.6	21.2	6.7	1.2	2.4	76.4	8.3	100	552	78.4	8.4
SLM	33	1.02	42	3.8	86	42.6	21.8	6.7	1.3	3.4	75.2	7.5	98	601	77.7	7.6
CASA GRANDE		DPL SMOOTH LEAF				100 PERCENT										
M	34	1.07	45	4.8	81	40.1	23.4	7.5	1.0	1.6	76.4	8.9	101	502	78.9	8.8
M	34	1.04	44	5.2	79	39.1	21.1	6.8	0.8	2.1	76.8	8.6	101	502	78.6	8.3
M	34	1.02	44	4.8	80	39.6	21.7	7.8	0.9	2.1	77.0	8.2	101	551	80.0	8.1
M	33	1.03	44	3.8	85	42.1	22.8	5.4	1.1	2.3	77.6	7.9	101	551	79.8	7.8
ELOY		STONEVILLE 7A				100 PERCENT										
SLM LT SP	34	1.07	42	4.8	87	43.1	20.2	4.5	3.0	4.0	72.2	9.5	95	553	75.3	9.7
SLM	34	1.08	45	4.8	81	40.1	20.6	5.2	2.1	3.2	74.8	8.9	98	552	77.9	8.6
SLM	34	1.05	45	4.6	83	41.1	20.0	5.4	1.6	2.5	76.0	8.3	100	552	78.2	8.3
SLM	33	1.02	42	3.8	82	40.6	18.4	4.9	2.2	4.1	75.1	7.6	98	601	78.9	8.0
ELOY		DPL SMOOTH LEAF				100 PERCENT										
M	33	1.04	42	4.3	81	40.1	22.9	7.1	1.2	2.4	77.1	8.6	102	502	78.8	8.6
SLM	34	1.06	43	4.2	82	40.6	22.0	7.0	1.6	3.1	75.4	8.4	99	552	78.3	8.3
SLM	34	1.04	43	4.4	80	39.6	21.7	7.4	1.1	2.6	76.1	8.4	100	552	78.5	8.2
SLM	33	1.03	41	3.1	84	41.6	22.7	6.2	2.0	3.5	75.9	7.2	99	601	78.1	7.3
HIGLEY		DPL SMOOTH LEAF				99 PERCENT										
M	34	1.04	45	5.0	84	41.6	23.0	7.0	1.1	2.2	77.2	8.7	102	502	79.1	8.5
M LT SP	34	1.07	46	4.8	82	40.6	21.1	7.0	1.0	2.4	75.0	9.1	99	552	78.0	9.0
SLM	34	1.02	44	5.0	82	40.6	21.7	6.2	1.3	2.6	74.1	8.1	97	602	77.3	8.1
SLM	33	1.02	43	4.0	89	44.1	21.1	6.2	2.0	3.4	76.0	7.6	99	601	78.5	7.6
PEORIA		DPL SMOOTH LEAF				100 PERCENT										
M LT SP	33	1.02	45	5.0	82	40.6	22.7	6.6	1.0	1.7	75.1	9.8	100	503	76.8	9.8
M	34	1.06	45	4.8	82	40.6	22.1	6.0	1.3	2.6	76.1	8.9	100	502	78.0	9.0
SLM	33	1.00	44	4.8	85	42.1	22.3	6.6	1.0	2.6	74.6	8.3	98	602	77.4	8.5
SLM	33	1.02	42	3.4	82	40.6	20.9	6.9	1.4	2.8	76.2	7.6	99	601	78.9	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 1963 --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			Rflctance	Yellowness	Composite	Rflctance	Yellowness	Composite	Rflctance	Blueness	Composite
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
SOUTHWEST AREA--CONTINUED																									
CENTRAL TEXAS																									
SUGARLAND			STONEVILLE 7A					85 PERCENT																	
SM	34	6.5	10	103	35	2008	5.4	4.2	120	110	115	11	8	54	100	74.9	11.1	104	84.9	2.3	108	25.7	27.9	114
M	34	6.2	16	112	40	2232	5.6	4.6	120	100	110	21	16		100	73.0	11.6	103	84.4	2.5	106	25.6	27.5	113
M	34	5.7	13	102	35	1997	5.2	4.1	110	100	105	18	17		110	71.4	11.2	99	83.0	2.3	103	27.8	27.8	110
TEXARKANA			DPL SMOOTH LEAF					99 PERCENT																	
M	35	5.2	16	115	40	2265	5.9	4.7	120	100	110	20	14	61	90	72.0	11.1	100	84.0	2.3	106	25.6	28.3	116
SLM	34	6.1	16	112	40	2232	5.6	4.8	110	100	105	26	18		90	70.6	11.2	98	84.6	2.5	106	27.5	26.1	103
M	35	6.6	19	104	37	2069	5.6	4.4	120	100	110	24	21		90	72.4	10.8	100	83.9	2.1	106	28.1	26.9	105
WESTERN AREA																									
ARIZONA																									
BUCKEYE			DPL SMOOTH LEAF					100 PERCENT																	
M LT SP	33	7.0	8	105	37	2080	5.3	4.6	120	100	110	21	16	54	100	69.2	12.0	98	83.7	2.4	104	26.4	27.9	113
SLM	33	6.1	13	95	30	1795	5.1	3.8	120	100	110	24	17		80	71.1	10.8	97	83.1	2.6	102	27.2	27.8	111
SLM	33	7.0	9	99	33	1914	5.7	4.4	120	110	115	21	18		90	71.4	10.2	96	82.9	2.0	104	27.8	26.7	105
SLM	33	8.4	22	100	33	1925	5.6	4.3	110	100	105	32	23	52	90	70.5	10.0	94	82.4	3.2	98	29.1	25.3	97
CASA GRANDE			DPL SMOOTH LEAF					100 PERCENT																	
M	34	6.6	18	108	38	2138	5.8	4.6	110	100	105	29	19	58	90	73.2	11.2	102	83.6	2.3	105	26.7	27.5	111
M	34	5.6	14	98	34	1928	5.7	4.5	120	100	110	24	15		90	72.2	10.5	98	84.6	2.4	107	27.3	27.8	111
SLM	33	8.8	24	105	36	2055	5.6	4.1	110	100	105	35	27		100	71.0	10.1	95	83.1	2.9	101	29.6	25.4	96
CASA GRANDE			DPL SMOOTH LEAF					100 PERCENT																	
M	34	6.8	17	108	39	2163	5.8	4.6	120	100	110	20	17	60	90	72.2	11.2	101	83.8	2.3	105	25.5	28.0	115
M	34	6.3	16	93	31	1798	5.6	4.3	110	100	105	23	18		80	72.3	10.6	99	84.6	2.2	107	27.0	28.0	112
M	34	6.0	22	97	33	1892	5.9	4.7	110	100	105	30	25		90	72.6	10.6	99	84.5	1.8	109	27.4	27.1	108
M	33	8.5	50	104	36	2044	5.6	4.3	100	80	90	62	50	55	80	73.3	10.5	100	83.4	2.8	102	28.0	26.1	102
ELOY			STONEVILLE 7A					100 PERCENT																	
SLM LT SP	34	7.7	20	103	36	2033	5.2	4.3	120	100	110	41	29	56	90	68.0	12.4	97	85.8	2.8	108	29.4	25.3	96
SLM	34	7.8	17	98	34	1928	5.2	4.2	110	100	105	32	25		90	69.8	11.8	98	84.4	2.6	106	28.8	26.7	103
SLM	34	6.5	12	95	34	1895	4.9	4.0	120	100	110	22	18		90	73.1	10.7	101	84.2	2.5	105	29.6	26.5	101
SLM	33	8.6	24	88	28	1668	4.8	3.6	100	90	95	55	46	47	80	71.0	9.6	93	81.0	3.0	96	30.9	25.1	93
ELOY			DPL SMOOTH LEAF					100 PERCENT																	
M	33	6.7	19	104	36	2044	5.6	4.3	100	90	95	40	30	57	80	73.7	11.3	103	84.7	2.3	107	27.2	27.5	110
SLM	34	7.3	27	105	36	2055	6.4	4.9	100	90	95	42	32		80	71.3	10.9	98	83.9	2.6	104	28.0	27.3	107
SLM	34	6.3	25	101	35	1986	6.0	4.7	100	90	95	36	31		80	72.1	10.9	100	84.6	2.1	108	27.9	26.4	104
SLM	33	9.9	78	106	36	2066	6.1	4.6	90	70	80	79	69	54	90	71.6	10.0	96	83.1	3.0	101	29.1	24.7	95
HIGLEY			DPL SMOOTH LEAF					99 PERCENT																	
M	34	7.1	10	105	36	2055	5.7	4.2	120	110	115	23	17	54	90	73.2	10.8	101	82.9	2.4	103	26.6	27.8	112
M LT SP	34	6.1	15	102	36	2022	5.9	4.7	120	100	110	27	18		90	71.4	11.3	100	83.7	2.6	104	27.6	27.7	109
SLM	34	6.7	15	92	29	1737	4.8	3.6	120	100	110	30	22		90	71.6	10.4	97	83.2	2.3	104	28.9	26.1	101
SLM	33	8.3	20	104	36	2044	5.8	4.4	110	100	105	39	28	55	90	72.7	9.9	97	82.9	3.0	99	29.0	25.1	96
PEORIA			DPL SMOOTH LEAF					100 PERCENT																	
M LT SP	33	6.2	22	103	35	2008	5.5	4.4	120	100	110	24	19	52	90	70.3	12.2	101	84.3	2.4	106	27.2	27.5	110
M	34	7.3	19	102	35	1997	5.4	4.3	110	90	100	33	24		90	70.8	11.1	98	83.0	2.6	102	28.1	27.5	108
SLM	33	7.3	18	99	32	1889	5.4	4.2	110	100	105	29	23		90	71.7	10.8	98	83.3	2.5	103	29.2	26.5	102
SLM	33	7.8	32	103	34	1983	5.8	4.3	90	80	85	63	51	51	80	71.2	9.6	94	83.0	2.7	102	27.5	26.4	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 1963--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		Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge	1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.												
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
WESTERN AREA--CONTINUED																
ARIZONA																
QUEEN CREEK		DPL SMOOTH LEAF				98 PERCENT										
M LT SP	34	1.07	45	4.8	81	40.1	21.5	6.3	1.1	1.5	76.1	9.3	101	502	78.3	9.1
M LT SP	34	1.08	45	4.6	80	39.6	22.5	7.4	1.4	2.2	74.9	9.2	99	553	76.3	9.3
SLM	34	1.05	44	4.8	82	40.6	22.4	6.8	1.5	2.8	74.8	7.6	98	601	79.0	7.8
SAHUARITA		ACALA 442				75 PERCENT										
M	35	1.09	46	3.9	85	42.1	25.0	8.4	1.8	2.6	78.1	8.5	102	502	80.2	8.4
M	35	1.08	45	3.8	87	43.1	23.7	6.9	1.5	2.8	77.7	8.6	102	502	79.3	8.8
SLM	34	1.04	44	3.5	85	42.1	24.0	6.9	2.0	3.0	76.9	7.9	101	551	79.4	7.9
STANFIELD		DPL SMOOTH LEAF				100 PERCENT										
M LT SP	33	1.02	43	4.4	83	41.1	22.9	7.4	1.5	2.7	75.5	9.2	100	502	78.1	8.9
SLM	34	1.06	44	5.0	81	40.1	22.3	7.0	1.4	2.4	74.7	8.4	98	602	77.1	8.6
SLM	34	1.03	45	4.6	83	41.1	22.7	6.7	1.5	2.8	75.0	8.2	98	602	77.9	8.2
YUMA		DPL SMOOTH LEAF				97 PERCENT										
M LT SP	34	1.06	44	4.7	85	42.1	22.4	6.2	1.0	1.9	74.7	9.0	99	552	77.7	9.0
SLM	34	1.06	44	4.6	82	40.6	22.8	6.1	1.2	2.1	72.9	8.4	95	602	76.8	8.3
SLM	33	0.98	44	4.6	87	43.1	22.7	6.4	1.2	2.7	74.5	7.5	97	601	79.1	7.9
SLM	33	0.99	43	4.0	86	42.6	21.1	7.2	1.4	2.9	75.8	7.7	99	601	78.2	8.0
CALIFORNIA																
BAKERSFIELD		ACALA 442				100 PERCENT										
M	34	1.02	46	4.6	93	46.0	25.6	6.1	0.9	1.5	76.9	8.6	101	502	78.8	8.2
SLM	34	1.05	46	4.2	90	44.6	23.7	6.1	1.2	2.6	74.3	8.1	97	602	76.8	8.2
SLM	34	1.02	46	4.4	90	44.6	23.7	6.1	0.9	2.1	74.1	7.9	97	602	76.4	7.9
LM	34	1.03	43	4.2	88	43.6	24.2	5.7	1.4	2.4	67.5	7.4	85	752	70.5	7.2
BLYTHE		DPL SMOOTH LEAF				100 PERCENT										
SLM	34	1.05	45	4.5	83	41.1	23.0	6.2	1.0	2.1	72.8	8.6	95	602	76.1	8.8
SLM	33	1.04	44	4.8	85	42.1	21.2	6.1	1.1	2.4	71.1	8.2	92	652	75.2	8.6
SLM	34	1.01	44	4.8	82	40.6	21.8	5.9	1.4	2.6	71.5	8.3	92	652	76.0	8.2
SLM	33	1.02	44	4.4	88	43.6	21.5	6.3	1.0	2.0	71.3	7.8	91	652	73.9	8.2
BRAWLEY		DPL SMOOTH LEAF				100 PERCENT										
M	34	1.02	42	4.6	85	42.1	21.9	6.6	1.0	2.2	77.2	8.3	101	502	79.1	8.5
M	34	1.03	44	4.7	88	43.6	22.8	6.3	1.2	2.5	76.1	8.3	100	552	78.5	8.1
M	33	1.04	42	4.1	82	40.6	22.9	5.9	0.8	2.3	79.0	7.9	103	501	80.8	8.0
BUTTONWILLOW		ACALA 442				100 PERCENT										
M	35	1.06	48	4.5	93	46.0	25.9	6.9	1.4	2.2	78.4	8.2	103	501	79.9	8.2
SLM	35	1.08	47	4.5	86	42.6	24.0	6.1	1.5	2.4	75.0	7.8	98	601	77.0	8.1
SLM	35	1.06	47	4.4	90	44.6	25.2	6.4	1.5	2.7	75.9	7.8	99	601	78.5	8.1
LM	34	1.04	46	3.8	89	44.1	23.7	6.3	2.4	3.7	69.4	7.1	88	702	72.1	7.6
CHOWCHILLA		ACALA 442				100 PERCENT										
SLM	35	1.07	49	4.4	94	46.5	26.4	6.8	1.8	2.5	74.2	7.9	97	602	76.1	8.2
SLM	35	1.05	49	4.6	88	43.6	24.2	5.9	1.8	2.8	73.1	8.1	95	602	76.2	7.8
SLM	35	1.05	49	4.6	92	45.5	25.2	6.2	1.1	1.6	73.6	7.1	95	651	77.0	7.3
SLM	35	1.06	48	4.2	91	45.0	22.9	5.6	1.4	2.4	75.0	7.5	98	601	76.8	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 1963 -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			
Grade	Staple			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			Rflct-ance	Yellow-ness	Com-posite		Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite	
	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	
WESTERN AREA--CONTINUED																										
ARIZONA																										
QUEEN CREEK		DPL SMOOTH LEAF					98 PERCENT																			
M LT SP	34	5.9	18	109	38	2149	5.5	4.5	120	90	105	27	24	56	90	70.9	11.9	100	85.3	2.4	108	27.4	26.7	106		
M LT SP	34	6.3	26	112	42	2282	6.3	5.1	100	100	100	35	27		80	69.6	12.5	100	83.6	2.7	103	27.0	27.5	110		
SLM	34	6.8	18	104	36	2044	5.5	4.4	120	100	110	34	25		80	72.5	10.1	98	83.8	2.0	106	27.6	26.8	106		
SAHUARITA		ACALA 442					75 PERCENT																			
M	35	6.8	23	124	47	2539	6.1	5.2	100	90	95	44	33	72	80	72.0	11.3	100	84.0	2.4	105	26.3	27.1	110		
M	35	7.6	28	123	47	2528	6.2	5.4	100	90	95	48	34		80	72.0	11.4	101	85.5	2.7	108	26.6	27.2	110		
SLM	34	8.1	27	115	42	2315	6.2	5.1	100	90	95	56	44		80	72.6	10.7	100	84.2	2.6	105	29.0	26.1	100		
STANFIELD		DPL SMOOTH LEAF					100 PERCENT																			
M LT SP	33	6.9	13	108	39	2163	5.6	4.8	110	100	105	24	18	63	90	71.1	11.4	100	83.6	2.6	104	26.7	27.0	109		
SLM	34	6.7	9	98	35	1953	5.5	4.2	120	100	110	19	18		90	71.7	11.0	99	84.2	2.2	107	26.9	27.8	111		
SLM	34	6.8	9	104	35	2019	5.7	4.4	110	100	105	27	18		80	72.0	10.5	98	83.6	2.8	103	28.4	26.7	104		
YUMA		DPL SMOOTH LEAF					97 PERCENT																			
M LT SP	34	6.1	19	106	36	2066	5.4	4.1	120	100	110	28	18	55	90	69.4	11.8	98	84.2	2.4	106	27.1	27.1	108		
SLM	34	6.9	27	100	34	1950	5.8	4.5	110	100	105	30	24		80	71.3	10.8	98	85.4	2.6	108	27.2	27.9	111		
SLM	33	7.5	18	97	31	1842	5.4	4.1	110	100	105	24	22		80	72.6	10.4	99	83.7	2.4	104	30.7	26.1	97		
SLM	33	7.4	21	99	33	1914	5.8	4.2	110	90	100	29	22	49	90	72.0	10.9	99	83.4	2.6	103	29.2	26.4	101		
CALIFORNIA																										
BAKERSFIELD		ACALA 442					100 PERCENT																			
M	34	6.5	14	122	44	2442	5.4	4.6	110	100	105	31	24	65	80	71.4	11.0	98	82.7	2.6	101	27.1	26.9	107		
SLM	34	6.7	26	119	43	2384	5.9	4.9	110	100	105	38	26		80	70.0	10.9	96	82.8	2.6	102	27.6	27.2	108		
SLM	34	5.9	15	116	41	2301	5.6	4.7	110	100	105	34	24		90	69.6	10.4	93	83.8	2.4	105	27.4	27.0	107		
LM	34	9.7	37	105	37	2080	5.1	4.1	100	90	95	44	31	57	80	62.8	9.9	80	81.5	3.4	95	30.4	24.6	92		
BLYTHE		DPL SMOOTH LEAF					100 PERCENT																			
SLM	34	6.0	25	100	34	1950	5.2	4.1	120	100	110	32	23	58	80	69.0	11.8	97	83.7	2.7	103	27.7	26.7	105		
SLM	33	6.9	16	92	30	1762	5.5	3.9	120	100	110	34	25		80	69.4	10.8	94	83.5	2.6	103	28.6	26.7	104		
SLM	34	6.9	20	90	28	1690	5.0	3.7	120	110	115	34	23		80	70.5	10.6	96	84.2	2.6	105	27.7	27.2	107		
SLM	33	7.6	13	94	30	1784	5.6	3.8	110	100	105	31	21	47	80	71.8	10.7	98	83.6	2.5	104	29.1	26.5	102		
BRAWLEY		DPL SMOOTH LEAF					100 PERCENT																			
M	34	6.6	17	98	32	1878	5.5	4.2	110	90	100	25	23	51	80	71.6	11.0	99	84.1	2.2	106	27.7	26.9	106		
M	34	6.8	10	102	32	1922	5.1	4.1	110	100	105	22	16		90	73.0	10.4	99	83.2	3.0	101	27.1	26.9	107		
M	33	7.6	28	104	36	2044	5.7	4.3	100	100	100	31	25		100	74.8	10.4	102	83.8	2.5	104	28.6	26.5	103		
BUTTONWILLOW		ACALA 442					100 PERCENT																			
M	35	7.3	12	125	47	2550	5.7	4.6	120	100	110	23	17	68	90	72.7	10.8	100	83.7	2.3	105	27.2	26.8	107		
SLM	35	6.7	14	123	46	2503	6.2	5.0	120	100	110	26	17		90	69.8	10.6	94	83.3	2.8	102	27.6	26.7	105		
SLM	35	6.7	14	122	45	2467	5.8	5.1	110	100	105	30	18		100	71.2	10.6	97	84.5	2.6	106	26.7	27.4	110		
LM	34	9.8	21	118	44	2398	5.6	4.6	110	90	100	35	24	60	80	66.8	9.7	86	80.6	3.4	93	28.1	25.3	99		
CHOWCHILLA		ACALA 442					100 PERCENT																			
SLM	35	7.2	9	132	50	2702	5.6	4.7	120	110	115	22	14	71	90	67.7	11.1	91	83.2	2.4	103	27.4	27.0	107		
SLM	35	6.4	12	125	46	2525	5.8	4.8	110	100	105	25	12		90	69.1	10.5	92	84.0	2.5	105	26.6	26.3	106		
SLM	35	6.5	10	125	49	2600	5.6	4.9	120	110	115	16	10		90	69.8	10.0	92	82.8	2.7	101	28.1	26.5	104		
SLM	35	7.2	11	126	46	2536	6.1	4.9	120	100	110	19	16	69	100	70.6	10.2	95	83.6	2.8	103	28.7	25.5	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 1963--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			Elon-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			Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple												Index	Code		
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b			Rd	+b
WESTERN AREA--CONTINUED																
CALIFORNIA		ACALA 442				100 PERCENT										
DOS PALOS																
SLM	34	1.07	47	4.4	93	46.0	26.0	5.4	1.4	2.7	74.7	7.7	97	601	77.2	8.1
SLM	34	1.04	47	4.2	92	45.5	24.5	5.4	1.1	2.1	73.7	8.5	96	602	76.4	8.3
SLM	35	1.06	48	4.2	94	46.5	25.2	5.9	1.5	3.9	73.5	7.9	96	602	74.6	8.2
SLM	34	1.06	48	4.4	94	46.5	25.2	4.8	0.8	1.5	73.6	7.3	95	651	76.9	7.6
FIREBAUGH		ACALA 442				100 PERCENT										
SLM	35	1.07	50	4.5	89	44.1	25.6	6.7	1.8	2.0	73.4	8.0	96	602	76.0	8.4
SLM	34	1.05	47	4.2	87	43.1	23.0	6.4	1.6	2.8	73.8	8.0	96	602	77.2	8.1
SLM	35	1.08	45	4.3	88	43.6	23.1	6.6	1.5	2.4	74.3	7.3	96	651	75.9	7.6
LM	34	1.08	44	3.8	87	43.1	22.1	6.8	3.0	3.9	69.7	7.0	88	701	73.1	7.4
FIVE POINTS		ACALA 442				100 PERCENT										
SLM	35	1.06	47	4.1	87	43.1	24.6	6.6	2.0	2.9	74.0	8.0	97	602	75.7	8.2
SLM	34	1.06	47	4.4	90	44.6	24.5	6.6	1.6	2.4	73.1	7.7	95	652	76.0	7.8
SLM	34	1.04	48	4.4	92	45.5	24.1	5.8	1.2	2.2	71.9	8.6	94	602	74.8	8.3
LM	34	1.07	46	4.2	87	43.1	23.7	6.2	2.1	3.5	70.7	7.4	90	702	72.4	7.9
HANFORD		ACALA 442				100 PERCENT										
SLM	35	1.04	48	4.2	99	49.0	25.4	5.6	1.8	2.5	73.0	8.3	95	602	75.2	8.4
SLM	35	1.06	46	4.4	92	45.5	25.1	5.6	1.2	2.1	74.3	8.0	97	602	75.6	8.2
SLM	35	1.06	47	4.5	92	45.5	23.4	5.9	1.3	2.3	73.2	8.2	96	602	76.8	8.1
HURON		ACALA 442				100 PERCENT										
M	34	1.06	45	4.6	93	46.0	25.3	6.3	1.1	1.9	75.8	9.0	100	502	77.7	9.1
M	34	1.04	47	4.4	92	45.5	26.0	6.3	1.2	2.3	76.9	8.2	101	552	78.9	8.0
SLM	35	1.04	47	4.1	87	43.1	25.0	6.4	1.5	2.6	73.8	7.7	96	602	77.3	7.7
SLM	34	1.06	45	4.0	91	45.0	24.6	6.0	1.5	3.0	73.3	7.6	95	651	76.2	7.4
KERMAN		ACALA 442				100 PERCENT										
M	35	1.06	49	4.7	96	47.5	26.1	5.9	1.2	2.0	77.2	8.3	101	502	79.1	7.9
SLM	35	1.08	49	4.4	90	44.6	24.9	6.2	1.7	2.8	74.7	7.7	97	601	77.0	8.0
SLM	34	1.06	48	4.5	91	45.0	24.8	5.9	1.1	1.6	73.0	7.2	94	651	75.1	7.6
SLM	34	1.05	47	4.2	92	45.5	23.4	6.5	2.1	3.0	73.2	7.2	94	651	75.4	7.6
MENDOTA		ACALA 442				100 PERCENT										
M	35	1.07	47	4.4	90	44.6	25.7	6.5	1.5	2.6	77.6	8.2	101	501	79.2	8.3
SLM	34	1.08	47	4.2	89	44.1	24.8	6.7	1.3	2.4	75.2	7.6	98	601	76.9	7.9
M	34	1.06	47	4.4	90	44.6	25.1	6.6	1.0	2.0	77.5	7.5	101	551	79.1	7.7
SM LT GR	34	1.06	47	4.3	87	43.1	23.8	6.6	0.9	2.4	75.4	6.8	98	651	77.0	7.1
ROSEDALE		ACALA 442				100 PERCENT										
SLM	34	1.05	48	4.6	95	47.0	24.0	5.8	1.2	2.2	74.2	8.1	97	602	77.2	8.4
SLM	34	1.06	48	4.2	90	44.6	24.5	6.5	1.1	2.0	74.4	7.7	97	601	77.0	8.0
SLM	34	1.05	46	4.3	88	43.6	23.9	5.0	1.1	2.6	73.3	8.0	95	602	75.5	8.2
STRATFORD		ACALA 442				100 PERCENT										
SLM	34	1.01	48	4.4	95	47.0	25.2	6.5	1.9	2.8	73.6	8.1	96	602	76.7	8.4
SLM	34	1.05	48	4.4	93	46.0	25.3	6.2	1.6	2.6	73.9	8.1	96	602	76.3	8.3
SLM	34	1.01	47	4.0	90	44.6	25.1	6.6	2.2	3.5	74.8	7.6	97	601	77.1	7.9
LM	34	1.07	47	3.8	88	43.6	23.8	6.0	2.7	3.8	69.4	7.6	88	702	75.0	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 1963--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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-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
WESTERN AREA--CONTINUED																									
CALIFORNIA																									
DOS PALOS		ACALA 442					100 PERCENT																		
SLM	34	6.7	16	132	51	2727	6.0	5.2	120	100	110	26	18	66	90	69.7	10.6	94	82.9	2.8	101	27.9	26.7	105
SLM	34	6.2	17	120	44	2420	5.6	4.5	120	100	110	27	22		90	68.5	11.2	93	83.0	2.6	102	27.8	26.0	102
SLM	35	7.3	12	128	49	2633	5.9	5.0	120	100	110	24	18		90	67.1	10.4	88	82.4	3.1	98	29.4	25.3	97
SLM	34	7.0	20	125	47	2550	5.5	4.7	120	100	110	22	16	65	100	68.5	9.8	89	81.7	2.7	99	29.8	25.3	96
FIREBAUGH		ACALA 442					100 PERCENT																		
SLM	35	6.3	8	126	48	2586	5.6	5.0	120	110	115	28	20	67	90	68.1	11.2	93	83.1	2.5	103	26.3	27.3	111
SLM	34	7.4	16	119	43	2384	6.0	4.8	110	100	105	33	22		90	70.5	10.9	97	83.7	2.4	105	26.7	26.8	108
SLM	35	6.7	6	122	45	2467	5.9	4.8	120	110	115	18	12		90	70.4	10.2	94	83.8	2.6	104	27.1	26.9	107
LM	34	9.4	26	120	44	2420	6.2	5.0	100	90	95	39	27	67	80	65.9	10.2	85	83.4	3.1	101	28.0	25.5	100
FIVE POINTS		ACALA 442					100 PERCENT																		
SLM	35	7.2	15	128	49	2633	6.1	5.1	120	90	105	31	23	70	90	67.2	11.3	91	83.2	3.4	99	27.0	27.1	108
SLM	34	6.6	14	119	44	2409	5.8	4.5	110	100	105	30	21		90	68.2	10.3	90	84.0	2.5	105	25.5	27.8	114
SLM	34	7.0	15	122	45	2467	5.6	4.8	120	100	110	21	15		100	66.2	10.7	88	82.5	2.8	100	28.2	25.7	100
LM	34	9.8	21	116	42	2326	5.6	4.8	110	100	105	36	22	66	90	66.3	10.2	86	82.9	3.1	100	27.4	25.9	103
HANFORD		ACALA 442					100 PERCENT																		
SLM	35	6.7	24	131	49	2666	5.8	4.9	110	90	100	39	23	69	80	67.4	11.0	90	84.0	2.8	104	27.9	25.9	102
SLM	35	6.3	18	124	46	2514	5.5	4.5	110	100	105	37	26		80	70.0	10.7	95	82.8	2.9	100	28.0	26.3	103
SLM	35	8.7	18	120	44	2420	5.6	4.6	110	100	105	27	19		90	69.3	10.5	93	83.3	3.3	100	28.2	25.9	101
HURON		ACALA 442					100 PERCENT																		
M	34	6.2	19	124	46	2514	5.9	5.1	100	90	95	39	30	62	80	71.1	11.7	101	83.0	2.6	102	26.7	27.0	108
M	34	6.3	19	123	45	2478	5.6	4.8	120	100	110	27	22		90	71.0	10.3	96	83.6	2.4	104	26.1	27.5	112
SLM	35	5.3	15	117	44	2387	5.7	4.7	120	100	110	21	16		100	70.0	10.5	94	81.9	2.9	98	27.9	26.7	105
SLM	34	7.6	26	119	44	2409	5.4	4.7	110	100	105	33	25	68	90	68.8	10.2	90	82.8	3.1	100	27.6	25.9	102
KERMAN		ACALA 442					100 PERCENT																		
M	35	5.9	8	133	50	2713	4.7	5.5	120	110	115	24	17	70	90	72.0	10.9	99	82.8	2.4	102	26.6	26.9	108
SLM	35	6.5	14	125	48	2575	5.9	5.0	120	110	115	19	15		90	68.4	10.2	90	83.7	2.3	105	26.8	27.1	109
SLM	34	5.9	8	129	47	2594	6.1	5.0	120	120	120	16	11		100	67.7	10.1	88	82.3	2.9	99	28.6	26.2	102
SLM	34	7.3	14	127	47	2572	6.0	5.0	120	100	110	27	18	68	100	69.6	9.8	91	82.6	3.2	99	28.4	25.6	100
MENDOTA		ACALA 442					100 PERCENT																		
M	35	6.0	15	130	50	2680	6.3	5.2	110	100	105	28	17	69	90	72.0	11.2	100	83.6	2.5	104	27.6	26.7	106
SLM	34	6.0	24	126	47	2561	6.2	5.1	110	100	105	33	25		90	70.4	10.2	94	83.7	2.5	104	27.4	26.5	105
M	34	5.7	15	125	47	2550	6.1	5.2	120	110	115	18	12		100	72.7	10.2	98	83.4	3.4	100	27.3	27.3	109
SM LT GR	34	7.0	18	124	46	2514	6.2	5.2	120	100	110	21	16	68	100	70.6	9.3	92	82.3	3.2	98	28.2	25.4	99
ROSEDALE		ACALA 442					100 PERCENT																		
SLM	34	5.9	11	125	47	2550	6.0	4.9	120	100	110	27	18	67	80	69.4	10.9	94	84.0	2.4	105	27.4	26.4	105
SLM	34	6.1	21	121	45	2456	5.9	4.8	110	100	105	28	22		90	71.5	10.6	97	83.0	2.8	101	28.4	26.6	104
SLM	34	7.0	17	117	42	2337	5.8	4.6	120	110	115	18	14		100	69.2	10.4	92	84.1	3.3	102	29.0	25.0	96
STRATFORD		ACALA 442					100 PERCENT																		
SLM	34	7.2	12	124	47	2539	6.2	5.1	120	110	115	31	22	62	90	69.1	10.8	94	83.9	2.4	105	26.4	27.1	110
SLM	34	6.6	10	122	45	2467	6.0	4.4	120	100	110	22	14		90	70.7	10.6	96	82.8	2.8	101	27.5	26.7	106
SLM	34	8.0	7	123	45	2478	6.0	5.0	120	100	110	23	13		100	72.1	10.5	98	84.2	2.6	105	28.2	26.7	104
LM	34	10.4	25	119	44	2409	5.7	4.6	100	90	95	49	37	67	80	65.6	10.0	85	82.1	3.1	98	27.2	26.5	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 1963 -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			Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge		1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.													
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
WESTERN AREA--CONTINUED																
CALIFORNIA																
TULARE		ACALA 442				100 PERCENT										
SLM	35	1.06	48	4.4	92	45.5	24.6	6.0	1.3	2.3	73.7	8.4	96	602	75.4	8.6
SLM	34	1.06	47	4.4	91	45.0	24.7	6.0	1.5	2.2	73.7	8.1	96	602	76.4	8.4
SLM	34	1.06	48	4.5	94	46.5	24.9	6.1	1.3	2.8	72.7	8.0	94	652	75.9	7.8
LM	34	1.01	44	3.8	89	44.1	23.4	4.9	1.8	3.6	69.0	7.2	88	702	73.4	7.4
VISALIA		ACALA 442				100 PERCENT										
SLM	35	1.05	48	4.4	91	45.0	25.8	5.7	1.6	2.0	72.8	8.4	95	602	74.8	8.6
SLM	34	1.02	47	4.6	91	45.0	23.9	5.8	1.2	2.3	74.0	7.6	96	651	77.0	7.8
SLM	34	1.04	45	3.8	88	43.6	24.9	6.1	1.4	2.4	73.2	7.9	95	602	76.7	8.0
SLM	34	1.02	45	4.2	90	44.6	23.5	6.2	1.6	2.4	71.8	7.5	92	652	74.4	7.7
WASCO		ACALA 442				100 PERCENT										
SLM	35	1.07	48	4.4	91	45.0	24.7	6.2	1.6	2.8	74.4	7.9	97	602	77.3	8.1
SLM	35	1.07	48	4.0	87	43.1	24.2	6.7	1.4	2.3	74.9	7.9	98	602	77.1	8.0
SLM	35	1.06	46	4.0	86	42.6	24.3	5.8	2.1	3.5	74.1	7.9	97	602	76.8	7.8
WESTMORELAND		DPL SMOOTH LEAF				100 PERCENT										
SLM	33	1.03	43	4.6	86	42.6	22.9	6.2	1.3	2.2	73.2	8.2	96	602	76.3	8.3
M	34	1.04	44	4.8	86	42.6	22.5	6.2	0.9	1.9	77.0	7.6	100	551	80.1	7.6
SLM	33	1.02	42	3.6	82	40.6	22.1	5.8	1.6	3.5	75.5	7.6	99	601	79.1	7.6
WHEELER RIDGE		ACALA 442				100 PERCENT										
M	35	1.09	47	4.4	92	45.5	24.8	5.5	1.4	2.0	78.4	8.2	103	501	80.9	8.2
SLM	34	1.04	48	4.4	92	45.5	25.5	6.3	1.3	2.3	73.8	7.8	96	602	76.3	8.4
SLM	34	1.05	46	4.2	88	43.6	23.7	6.4	1.4	2.3	73.2	8.0	95	602	76.2	8.2
LM	34	1.02	44	3.8	88	43.6	23.8	5.2	2.6	4.3	68.3	7.1	86	752	71.7	7.6
WOODVILLE		ACALA 442				100 PERCENT										
SLM	35	1.06	48	4.4	93	46.0	24.9	6.0	1.2	2.1	73.1	8.2	95	602	76.8	8.2
SLM	34	1.03	45	4.1	90	44.6	24.4	6.2	1.2	2.0	73.1	8.1	95	602	75.2	8.2
SLM	34	1.04	45	4.1	91	45.0	25.8	5.3	1.0	2.6	74.2	7.9	97	602	76.3	8.0
WEST TEXAS																
PECOS		MIXED MAINLY STONEVILLE 7A														
M	34	1.06	45	4.6	79	39.1	20.3	6.2	1.2	2.0	78.9	8.9	104	402	80.3	9.1
M	34	1.06	42	3.8	74	36.6	19.3	6.6	1.1	1.8	77.8	8.6	102	502	79.9	8.4
SLM	33	1.00	41	3.2	82	40.6	19.7	7.4	1.5	2.8	76.9	7.9	101	551	79.1	7.7
PECOS		MIXED MAINLY DPL SMOOTH LEAF														
SM	34	1.08	43	4.6	77	38.1	20.0	6.8	0.7	1.4	79.8	8.2	104	451	81.4	8.1
M	35	1.07	44	3.9	77	38.1	21.6	7.0	0.9	1.7	76.2	8.7	100	502	78.8	8.7
M	34	1.02	42	3.3	78	38.6	21.5	8.2	1.1	2.3	79.2	8.0	103	501	79.3	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 1963--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		
Grade	Staple			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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite
	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
WESTERN AREA--CONTINUED																								
CALIFORNIA																								
TULARE		ACALA 442					100 PERCENT																	
SLM	35	5.6	14	128	49	2633	5.8	5.0	120	100	110	33	23	67	80	67.5	11.1	91	83.6	2.7	103	27.7	25.6	101
SLM	34	6.1	18	125	48	2575	5.8	4.9	110	100	105	31	21		80	69.4	10.6	93	83.0	2.7	102	28.2	26.5	104
SLM	34	7.7	10	125	44	2475	5.8	4.4	120	100	110	19	16		80	69.6	10.8	94	82.8	2.8	101	27.8	26.2	103
LM	34	9.4	27	110	39	2185	5.5	4.5	100	90	95	46	32	58	90	65.2	10.0	84	82.8	3.4	98	29.7	24.4	92
VISALIA		ACALA 442					100 PERCENT																	
SLM	35	5.8	14	122	46	2492	5.8	4.9	110	100	105	36	24	68	80	68.7	11.3	94	83.3	2.8	102	26.9	26.8	107
SLM	34	6.8	11	120	43	2395	5.7	4.6	120	100	110	26	14		90	69.3	10.4	92	83.6	2.2	105	28.5	25.8	100
SLM	34	7.2	18	117	44	2387	6.0	4.8	110	100	105	29	20		90	70.5	10.7	96	83.6	3.0	102	28.8	25.7	99
SLM	34	7.0	18	118	43	2373	5.7	4.7	120	100	110	21	19	65	100	67.6	10.6	89	82.7	3.3	98	29.4	24.9	95
WASCO		ACALA 442					100 PERCENT																	
SLM	35	7.1	16	126	48	2586	6.2	5.2	100	100	100	37	23	68	80	69.9	10.4	94	83.9	2.6	104	27.0	26.3	105
SLM	35	6.3	16	122	46	2492	5.9	4.9	110	100	105	26	21		80	71.1	11.0	98	82.5	2.6	101	26.8	27.2	109
SLM	35	6.8	26	120	44	2420	5.9	5.0	110	100	105	32	24		90	69.2	10.9	94	84.0	3.2	102	28.1	24.9	97
WESTMORELAND		DPL SMOOTH LEAF					100 PERCENT																	
SLM	33	7.8	27	93	29	1748	5.1	3.6	110	90	100	35	27	45	80	71.6	10.6	98	83.7	2.7	103	26.7	27.9	112
M	34	6.4	12	99	32	1889	5.3	4.1	120	100	110	17	11		100	74.0	10.0	100	83.2	2.3	104	28.6	27.0	105
SLM	33	9.4	39	95	31	1820	5.3	3.9	100	90	95	57	44		90	72.4	10.2	98	82.2	2.8	99	29.3	25.5	97
WHEELER RIDGE		ACALA 442					100 PERCENT																	
M	35	5.8	19	128	47	2583	5.6	4.7	120	90	105	28	19	69	90	71.4	11.2	99	85.6	2.6	108	26.2	26.9	109
SLM	34	6.3	18	122	45	2467	6.1	5.0	110	100	105	25	15		100	68.7	10.9	93	83.0	2.4	103	28.6	25.7	100
SLM	34	6.3	18	119	44	2409	5.7	4.7	110	100	105	27	21		90	69.5	10.8	94	83.5	2.6	104	28.1	26.6	104
LM	34	9.8	48	105	37	2080	5.6	4.3	90	80	85	58	41	60	80	63.6	9.9	81	82.3	3.4	97	30.3	24.4	91
WOODVILLE		ACALA 442					100 PERCENT																	
SLM	35	6.6	16	125	48	2575	6.1	4.9	110	100	105	33	25	68	80	67.9	11.0	91	83.4	2.8	102	27.9	25.3	99
SLM	34	6.3	15	122	44	2442	5.6	4.7	120	100	110	28	24		80	68.7	11.3	94	82.7	2.8	100	28.3	26.2	102
SLM	34	7.2	19	120	44	2420	5.8	4.8	110	100	105	25	17		100	69.7	10.6	94	83.5	3.1	101	29.0	25.6	98
WEST TEXAS																								
PECOS		MIXED MAINLY STONEVILLE 7A																						
M	34	5.5	27	102	36	2022	5.8	4.8	120	100	110	23	18	58	100	73.5	11.8	105	85.3	2.6	108	27.1	27.6	110
M	34	5.5	49	98	34	1928	5.9	5.0	100	90	95	45	36		90	72.4	11.6	103	83.9	2.9	103	27.8	26.3	103
SLM	33	8.7	44	98	35	1953	6.3	5.1	90	70	80	50	43		90	72.1	10.5	98	82.4	3.3	98	27.6	25.9	102
PECOS		MIXED MAINLY DPL SMOOTH LEAF																						
SM	34	5.3	18	107	39	2152	6.2	5.0	110	100	105	27	17	64	90	73.8	11.2	103	86.5	2.3	112	25.9	27.3	111
M	35	6.5	31	104	37	2069	6.7	5.1	100	90	95	40	35		90	70.8	11.6	99	84.6	3.0	104	25.9	27.9	114
M	34	6.5	39	107	38	2127	7.0	5.4	100	90	95	32	29		100	73.3	11.0	101	83.6	3.2	101	28.5	26.3	102

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 1963 -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			Elon-gation 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		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
SOUTHWEST AREA																
NORTHWEST TEXAS																
STANTON		ACALA 1517B8R1				85 PERCENT										
M	36	1.16	45	4.2	93	45.8	26.4	5.2	0.8	1.8	75.0	9.0	99	552	77.9	8.7
M LT SP	36	1.14	44	4.3	96	47.5	25.5	5.0	1.2	2.4	74.0	9.4	98	553	75.0	9.0
SLM	36	1.13	42	3.3	93	46.0	24.7	5.0	1.6	3.1	74.0	8.2	97	602	76.0	8.5
SLM	36	1.12	42	3.2	95	46.8	26.5	5.0	1.3	2.8	75.5	8.1	99	602	77.5	8.1
WESTERN AREA																
ARIZONA																
SAFFORD		ACALA 1517D				76 PERCENT										
M	36	1.16	42	3.6	84	41.7	25.7	6.6	0.8	1.9	78.1	8.4	103	501	80.2	8.2
M	37	1.15	45	3.5	83	41.2	25.5	6.4	1.0	2.3	77.5	8.3	102	501	78.8	8.7
SLM	36	1.14	42	3.1	85	42.0	24.8	6.7	1.7	3.5	78.1	7.7	102	551	78.6	7.7
SLM	36	1.13	42	3.0	89	44.0	26.2	5.3	2.0	3.4	78.2	7.1	102	551	80.0	7.4
SAN SIMON		ACALA 1517C				75 PERCENT										
M	37	1.23	43	3.8	78	38.9	24.5	6.7	0.9	1.7	78.0	8.3	103	501	79.0	8.6
M	37	1.19	45	3.6	82	40.6	24.9	6.1	1.1	1.6	77.0	8.6	101	502	77.5	8.8
M	37	1.21	45	3.6	84	41.6	24.8	6.7	0.7	2.2	78.8	7.4	102	551	80.0	7.4
M	36	1.10	43	3.2	87	43.3	25.5	5.4	1.3	2.5	79.5	7.8	104	501	79.5	8.0
NEVADA																
PAHRUMP		MIXED MAINLY ACALA 1517C														
M	37	1.16	46	3.7	84	41.6	24.2	5.9	1.3	2.0	78.7	8.2	103	501	79.0	8.4
M	37	1.19	45	3.6	85	42.0	26.0	6.2	0.7	2.5	80.0	7.6	104	501	82.0	7.8
M	37	1.17	44	3.4	86	42.7	26.1	5.7	2.0	3.5	80.7	7.6	105	501	81.8	7.9
NEW MEXICO																
ANIMAS		MIXED MAINLY ACALA 1517C														
M	37	1.19	43	3.2	83	41.2	23.5	6.1	1.3	2.1	79.0	8.2	104	501	80.0	8.2
SLM	37	1.19	44	3.4	82	40.8	24.0	6.3	1.8	3.2	77.5	8.4	102	502	78.3	8.8
SLM	37	1.16	43	3.0	83	41.0	24.7	6.2	2.7	4.1	79.0	7.6	103	551	80.0	7.8
SLM	36	1.12	42	2.4	80	39.6	23.8	5.8	3.8	5.7	79.0	7.6	103	501	80.5	7.8
ARTESIA		ACALA 1517D				80 PERCENT										
M LT SP	37	1.20	44	4.0	89	44.2	25.5	5.8	1.1	2.3	76.3	8.9	101	502	77.2	8.7
M	37	1.18	45	3.8	83	41.1	24.6	6.0	1.6	2.4	76.0	8.7	100	552	78.3	8.3
SLM	36	1.14	42	3.2	85	42.0	24.8	6.2	1.7	3.8	75.7	8.0	99	602	77.9	8.3
CARLSBAD		ACALA 1517C				73 PERCENT										
SM	37	1.19	46	4.2	90	44.5	25.2	5.8	0.6	1.7	78.2	8.2	103	501	79.0	8.4
M	37	1.18	47	3.8	87	43.0	24.3	6.0	1.0	1.9	77.8	8.4	102	502	79.0	8.2
SLM	36	1.15	42	3.2	84	41.7	24.8	6.1	1.8	3.7	75.8	8.0	99	602	76.7	8.4
HATCH		ACALA 1517D				80 PERCENT										
M	37	1.21	44	3.8	85	41.9	24.4	6.1	0.8	2.1	77.0	8.3	101	552	79.0	7.8
SLM	37	1.20	46	3.6	84	41.5	25.9	6.6	2.0	3.1	77.0	8.0	101	551	78.0	8.2
SLM	37	1.18	45	3.2	86	42.4	24.8	6.3	2.4	4.4	77.3	7.6	101	551	81.0	8.0
SLM	36	1.10	42	2.6	78	38.6	24.3	5.8	3.8	5.5	76.5	7.6	100	601	77.7	7.9

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 1963 -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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-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
SOUTHWEST AREA																								
NORTHWEST TEXAS																								
STANTON			ACALA 1517BBR1					85 PERCENT																
M	36	6.4	23	134	47	2649	6.3	5.3	110	100	105	25	29	74	80	69.3	11.4	96	83.3	2.9	102	26.3	26.3	107
M															90	67.8	11.9	94	82.8	3.0	100	26.3	28.1	114
M LT SP	36	7.3	23	137	47	2682	6.1	4.8	100	100	100	17	12		80	68.9	11.4	95	82.3	3.3	98	27.3	26.1	104
SLM	36	8.6	43	137	50	2757	6.3	5.0	100	80	90	36	28											
SLM	36	8.2	33	134	48	2674	6.5	5.0	100	90	95	35	23	70	80	70.4	10.9	97	82.2	3.3	97	28.1	25.3	99
WESTERN AREA																								
ARIZONA																								
SAFFORD			ACALA 1517D					76 PERCENT																
M	36	6.2	23	140	51	2815	7.0	5.9	100	90	95	28	17	78	80	71.5	11.4	100	85.1	2.2	109	25.5	27.2	112
M	37	7.4	34	137	51	2782	7.0	5.8	100	90	95	25	18		80	71.6	11.2	100	85.5	2.4	109	26.9	27.3	109
SLM	36	7.8	34	139	51	2804	7.3	5.8	90	80	85	38	22		80	71.8	10.6	98	84.3	2.4	106	28.3	26.2	102
SLM	36	8.3	43	128	47	2583	6.4	5.0	90	90	90	62	41	76	80	72.4	10.0	97	82.6	3.0	100	30.6	23.9	88
SAN SIMON			ACALA 1517C					75 PERCENT																
M	37	6.8	24	134	48	2674	7.6	6.3	100	90	95	28	32	82	90	72.5	11.4	102	84.9	2.4	107	26.2	26.8	109
M	37	6.8	24	139	51	2804	7.0	5.6	100	100	100	18	13		90	71.2	11.7	101	84.2	2.5	105	26.6	26.5	107
M	37	6.6	31	136	50	2746	7.5	5.9	100	100	100	20	14		90	72.7	10.0	98	84.4	2.2	107	28.0	26.5	104
M	36	7.3	40	127	46	2547	6.7	5.2	100	90	95	39	27	71	100	73.5	10.9	102	84.2	2.7	104	28.2	26.1	102
NEVADA																								
PAHRUMP			MIXED MAINLY ACALA 1517C																					
M	37	7.4	19	139	51	2804	6.8	5.6	100	90	95	22	17	77	80	72.4	11.3	101	84.0	2.6	104	27.6	26.5	105
M	37	7.5	26	142	53	2887	7.1	5.7	90	90	90	25	17		90	73.7	10.2	100	84.6	2.2	107	26.8	27.0	108
M	37	8.3	30	139	52	2829	7.3	5.8	100	90	95	36	28		80	74.8	10.5	103	84.2	3.0	103	28.7	24.6	95
NEW MEXICO																								
ANIMAS			MIXED MAINLY ACALA 1517C																					
M	37	6.7	46	138	51	2793	7.6	5.9	90	90	90	49	44	79	90	72.5	11.2	101	85.0	2.4	108	26.8	26.7	107
SLM	37	7.6	40	141	52	2851	7.1	5.8	90	80	85	35	28		80	71.1	11.4	99	85.2	2.6	107	27.7	26.1	103
SLM	37	8.5	46	129	48	2619	7.0	5.8	80	70	75	60	45		70	73.4	10.7	101	84.0	2.7	104	28.4	26.0	101
SLM	36	10.7	65	125	47	2550	6.9	5.6	70	60	65	116	78	73	60	72.8	10.9	101	84.0	3.4	101	29.4	24.4	93
ARTESIA			ACALA 1517D					80 PERCENT																
M LT SP	37	6.9	24	138	51	2793	6.7	5.8	100	90	95	32	29	79	80	69.7	11.7	98	84.0	2.4	105	25.6	27.3	112
M	37	7.6	30	138	51	2793	7.0	5.7	100	90	95	26	18		90	70.5	11.4	98	82.8	2.5	102	26.5	27.5	111
SLM	36	8.9	28	135	51	2760	6.8	5.5	90	70	80	43	31		70	69.5	11.2	96	82.7	2.7	101	26.4	26.4	107
CARLSBAD			ACALA 1517C					73 PERCENT																
SM	37	5.3	12	144	52	2884	6.6	5.4	100	90	95	24	14	78	90	71.5	11.4	100	85.0	2.3	108	25.9	27.2	111
M	37	6.4	24	143	53	2898	6.8	5.5	100	90	95	19	12		100	72.3	11.4	102	83.3	2.3	104	25.8	27.7	113
SLM	36	8.4	40	134	49	2699	6.8	5.2	90	80	85	46	32		70	68.9	11.2	94	84.0	2.8	104	26.8	26.5	106
HATCH			ACALA 1517D					80 PERCENT																
M	37	7.1	18	148	55	3003	7.3	6.0	100	90	95	41	32	78	80	71.0	11.0	98	84.5	2.5	106	25.0	27.3	113
M	37	8.4	36	143	53	2898	7.5	6.3	100	90	95	28	20		80	71.6	11.0	99	85.2	2.6	107	26.5	27.2	110
SLM	37	9.3	43	139	53	2854	7.2	5.9	80	70	75	50	35		70	71.3	11.2	99	84.3	2.6	105	27.5	26.2	104
SLM	36	11.8	65	127	47	2572	7.1	5.7	70	60	65	110	79	70	60	71.1	10.6	97	83.6	3.2	101	27.9	25.0	98

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 1963 -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			Elon-gation 1/8"	Shirley Analyzer		Color of raw stock				Color of cleaned lint	
					Zero gauge		1/8" gauge		Visible waste	Total waste	Reflect-ance	Yellow-ness	Composite		Reflect-ance	Yellow-ness
Grade	Staple	2.5% span length	50/2.5 unif.													
	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Code	Rd	+b
WESTERN AREA--CONTINUED																
NEW MEXICO																
LOVINGTON		MIXED MAINLY ACALA 1517BR														
M	37	1.19	46	3.9	93	46.0	26.5	5.6	1.2	2.0	75.2	8.8	99	552	76.7	9.0
M LT SP	37	1.18	45	3.2	90	44.5	26.6	5.7	1.0	3.0	75.2	8.8	99	552	75.2	8.8
WEST TEXAS																
CANUTILLO		ACALA 1517D				100 PERCENT										
M	37	1.21	44	3.9	86	42.7	25.6	6.0	0.9	1.4	76.8	8.2	101	552	77.8	8.4
SLM	37	1.17	44	3.4	85	41.9	25.2	5.9	2.0	3.1	74.0	8.5	98	602	77.5	8.8
SLM	37	1.13	43	3.0	83	41.1	25.1	5.8	1.9	3.5	74.7	7.7	98	601	76.5	8.0
SLM	36	1.09	41	2.6	91	45.1	25.2	5.4	3.3	5.3	73.5	7.8	96	602	75.5	8.4
FT STOCKTON		MIXED MAINLY ACALA 1517BR														
M	37	1.18	45	4.1	95	46.9	24.9	6.4	0.9	1.2	74.7	8.9	98	552	76.2	9.1
M	37	1.16	44	4.3	88	43.3	24.5	5.2	1.1	1.9	76.9	8.8	101	502	77.1	8.8
M	36	1.15	45	3.6	83	41.0	24.5	5.8	1.3	2.1	77.0	8.3	101	552	77.0	8.4
PECOS		ACALA 1517C				75 PERCENT										
M LT SP	37	1.21	44	4.0	87	42.9	25.2	6.2	1.4	1.9	75.0	9.2	99	553	76.2	9.1
M LT SP	37	1.20	46	3.9	85	42.0	24.5	5.7	1.0	2.0	75.5	9.5	100	503	76.5	9.8

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 1963 -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 imprfcths.		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			Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-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
WESTERN AREA--CONTINUED																								
NEW MEXICO																								
LOVINGTON		MIXED MAINLY ACALA 1517BR																						
M	37	6.7	28	145	53	2920	6.8	5.4	100	90	95	26	21	77	80	70.3	11.6	99	83.2	2.7	102	25.9	27.6	113
M LT SP	37	7.5	35	140	52	2840	7.0	5.5	90	80	85	25	20		80	67.0	11.8	92	82.5	3.0	99	27.0	25.9	104
WEST TEXAS																								
CANUTILLO		ACALA 1517D					100 PERCENT																	
M	37	6.4	25	142	52	2862	7.0	6.0	100	90	95	26	21	75	100	70.9	11.2	98	84.8	2.5	107	25.8	26.8	109
SLM	37	7.5	30	140	51	2815	7.0	5.6	100	90	95	32	20		90	69.2	11.6	96	83.7	2.5	104	27.2	27.1	108
SLM	37	8.2	29	135	49	2710	6.8	5.3	100	90	95	40	28		80	69.6	10.9	95	81.8	3.0	98	28.4	25.7	100
SLM	36	10.0	64	126	46	2536	6.5	5.3	80	60	70	89	53		60	66.2	10.4	86	81.8	3.5	96	28.7	24.7	95
FT STOCKTON		MIXED MAINLY ACALA 1517BR																						
M	37	6.6	23	140	49	2765	7.0	5.4	100	90	95	28	22	76	90	68.1	11.7	95	83.8	2.4	105	25.8	27.2	111
M	37	6.4	26	142	52	2862	6.7	5.3	100	100	100	29	19		100	70.4	11.3	98	83.6	2.4	104	26.6	27.1	109
M	36	7.3	26	136	50	2746	6.7	5.3	100	90	95	37	26		90	69.8	10.8	95	83.3	3.0	101	27.2	25.6	102
PECOS		ACALA 1517C					75 PERCENT																	
M LT SP	37	6.1	21	145	53	2920	7.0	5.6	100	90	95	34	13	79	90	67.9	11.9	94	84.0	2.9	103	25.1	26.8	111
M LT SP	37	7.2	26	144	52	2884	6.5	5.4	100	90	95	21	15		90	69.8	11.7	98	83.8	2.7	104	26.3	26.7	108

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 1963--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															
Abbr.	32d in.	Pct.	Lbs.	Lbs.	No.	Lbs.	Pct.	Pct.	Index	Index	Index	No.	No.	Index	Pct.	Pct.
ARIZONA																
Safford	Acala 1517D 76 Percent															
M	36	16.9	157	58	3177	60	7.5	6.0	110	100	105	24	16	90	29.7	42.5
M	37	15.8	155	57	3130	60	7.1	6.0	100	100	100	13	12	100	31.3	44.3
SLM	36	17.1	155	58	3155	62	7.6	6.2	100	90	95	30	32	100	32.3	43.0
SLM	36	19.4	150	56	3050	59	6.4	5.1	100	100	100	29	23	110	32.2	42.9
San Simon	Acala 1517C 75 Percent															
M	36	14.6	148	55	3003	56	7.4	6.2	100	100	100	27	26	100	30.0	42.1
M	37	13.8	151	55	3036	57	7.3	5.6	110	100	105	11	11	100	31.9	45.4
M	37	14.2	150	56	3050	58	7.9	6.2	110	100	105	12	10	110	33.0	43.0
M	36	18.5	148	54	2978	58	7.0	5.6	110	100	105	24	15	120	32.1	44.4
NEVADA																
Pahrump	Mixed Acala 1517 C & D															
M	37	15.0	158	58	3188	59	7.0	5.9	110	100	105	20	12	100	29.4	43.3
M	37	14.6	157	59	3202	62	7.6	6.0	110	100	105	14	10	100	32.0	43.8
M	37	14.7	157	58	3177	58	7.3	6.3	100	100	100	33	20	100	32.0	42.3
NEW MEXICO																
Animas	Mixed Acala 1517C															
M	37	15.4	157	57	3152	58	7.4	6.2	100	100	100	29	26	100	29.2	43.8
SLM	37	14.7	159	59	3224	62	7.4	6.3	100	90	95	19	14	100	31.5	44.8
SLM	37	17.4	146	55	2981	58	7.3	6.0	90	80	85	45	33	90	30.9	42.2
SLM (wasty)	36	19.5	144	56	2984	57	7.7	6.1	80	70	75	63	45	80	32.6	39.6
Artesia	Acala 1517D 80 Percent															
Mltsp	37	16.5	159	58	3199	62	7.1	5.8	110	100	105	15	12	100	33.0	45.4
M	37	13.4	153	56	3083	59	7.3	6.0	100	90	95	23	17	100	29.6	41.6
SLM	36	17.6	155	58	3155	62	7.1	6.0	100	90	95	20	16	100	34.5	45.0
Carlsbad	Acala 1517C 73 Percent															
SM	37	16.6	165	61	3340	63	7.2	6.0	120	110	115	10	9	110	32.1	43.5
M	37	13.4	157	59	3202	62	7.3	5.9	110	100	105	10	7	110	29.8	44.2
SLM	36	17.5	150	56	3050	61	7.1	5.8	100	90	95	25	19	90	33.2	43.5
Hatch	Acala 1517D 80 Percent															
M	37	15.1	164	61	3329	62	7.8	6.3	120	100	110	17	12	100	30.0	40.9
SLM	37	13.8	158	58	3188	60	7.6	6.4	100	100	100	16	11	90	32.1	44.9
SLM	37	15.8	155	58	3155	61	7.8	6.1	90	90	90	32	23	80	32.1	42.8
SLM (wasty)	36	18.6	148	56	3028	60	7.4	6.3	80	70	75	63	47	80	30.1	42.3
Lovington	Mixed Acala 1517BR2															
M	37	14.4	159	59	3224	63	7.3	5.7	100	90	95	24	14	90	31.6	44.1
Mltsp	37	15.3	157	59	3202	64	7.2	5.7	100	100	100	16	13	100	33.0	44.2
TEXAS																
Camrtillo	Acala 1517D 100 Percent															
M	37	16.3	161	60	3271	61	7.4	5.9	100	100	100	16	13	90	31.6	44.7
SLM	37	14.7	153	57	3108	61	7.5	6.1	100	100	100	16	12	110	30.2	42.8
SLM	37	18.5	158	60	3238	62	7.2	5.6	110	100	105	22	16	110	33.0	42.7
SLM (wasty)	36	21.6	150	60	3075	59	7.0	5.5	100	70	85	54	33	80	32.8	42.7
Ft. Stockton	Mixed Acala 1517BR2															
M	36	14.9	154	57	3119	60	7.0	5.7	110	100	105	18	13	100	31.9	43.9
M	37	14.1	163	59	3268	61	6.8	5.4	110	100	105	18	14	110	32.1	45.8
M	36	14.8	152	57	3097	59	7.2	5.8	120	100	110	16	13	120	32.8	45.1
Pecos	Acala 1517C 75 Percent															
Mltsp	37	15.9	161	60	3271	61	7.5	5.9	120	100	110	15	5	110	33.0	42.1
Mltsp	37	13.8	157	58	3177	61	6.9	5.5	110	100	105	13	9	110	32.9	46.7
Stanton	Acala 1517 BBR1 85 Percent															
M	36	16.4	150	55	3025	60	6.3	5.3	110	100	105	21	16	90	31.9	45.0
Mltsp	36	15.6	154	56	3094	61	6.0	4.9	110	100	105	8	8	110	32.2	43.7
SLM	36	19.2	161	60	3271	64	6.5	5.5	100	100	100	18	12	100	32.7	44.5
SLM	36	19.1	157	58	3177	62	6.5	5.2	100	100	100	22	18	100	33.4	44.3

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 1963

State, Production Area Chronological sampling and Classification	Grade	Staple	Array length: Upper quart.	Array length: Coef. var.	Micronaire	Fiber strength: Zero gauge	Fiber strength: 1/8" gauge	Elongation 1/8"	Shirley Analyzer: Visible waste	Shirley Analyzer: Total waste	Color of raw stock: Reflectance	Color of raw stock: Yellowness	Color of raw stock: Composite	Color cl. lint: Reflectance	Color cl. lint: Yellowness	Picker & card waste	Comber waste	Neps in card web
		32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	G/tex	Pct.	Pct.	Pct.	Pct.	Index Code	Pct.	Pct.	Pct.	Pct.	No.
WESTERN AREA																		
ARIZONA																		
Peoria			Pima S-2	100 Percent														
	3	44	1.36	31	3.9	100	49.6	32.0	5.8	1.9	3.0	69.2	10.4	90 604	73.0	10.6	8.3	18.1	11
	3	44	1.38	32	4.0	93	46.2	34.1	6.4	1.5	2.6	70.8	10.2	93 554	73.0	10.6	6.6	18.7	6
	4	44	1.38	31	4.0	97	48.2	32.1	6.4	2.0	3.1	68.7	9.3	88 653	72.0	9.8	9.2	17.6	10
	4	44	1.38	30	3.7	99	48.9	32.9	5.6	3.1	5.1	69.2	9.6	90 653	71.5	9.3	9.5	19.3	13
Safford			Pima S-2	99 Percent														
	3	44	1.36	29	3.8	92	45.8	29.9	6.5	1.0	2.0	68.3	11.4	89 555	69.5	11.4	7.7	18.2	11
	3	44	1.36	31	3.8	92	45.6	31.7	6.7	1.0	2.2	68.7	11.0	89 605	70.5	11.6	7.9	17.9	9
	3	44	1.34	30	3.8	97	47.9	31.2	7.0	1.0	2.1	69.5	10.8	91 555	71.2	11.1	7.2	17.0	12
	7	42	1.27	37	2.9	90	44.4	30.6	6.2	4.0	6.1	65.0	10.5	82 705	68.0	11.0	13.3	22.6	29
Stanfield			Pima S-2	100 Percent														
	2	44	1.43	31	4.0	96	47.4	31.3	5.8	1.0	1.5	71.8	10.2	95 554	74.7	10.2	7.6	17.2	9
	3	44	1.40	30	4.0	100	49.7	34.3	6.0	1.8	2.7	71.0	9.8	93 603	74.0	11.1	8.2	16.5	5
	4	44	1.39	31	4.0	102	50.3	34.2	6.9	2.5	3.9	67.0	9.8	86 654	69.5	10.4	9.8	17.8	9
	3	44	1.35	31	3.6	95	46.9	34.6	5.8	2.0	2.9	71.0	9.6	92 603	73.5	9.7	9.4	19.0	15
CALIFORNIA																		
Ripley			Pima S-2	100 Percent														
	5	44	1.36	30	3.6	96	47.3	32.4	5.8	2.7	3.8	67.5	10.1	86 654	70.5	10.9	9.2	18.3	10
	4	44	1.32	32	3.7	97	48.0	32.6	5.8	2.5	3.6	68.5	9.4	88 653	72.5	10.0	9.4	19.0	16
	5	44	1.40	25	3.9	98	48.3	32.2	5.4	3.3	4.3	68.7	10.2	89 604	71.0	10.6	10.7	17.4	13
NEW MEXICO																		
Las Cruces			Pima S-2	100 Percent														
	3	44	1.39	27	4.0	96	47.3	30.9	6.6	1.8	2.6	68.8	11.0	90 605	69.0	11.2	8.5	16.3	7
	2	44	1.34	27	3.8	100	49.3	33.2	7.3	1.0	2.2	68.8	10.8	90 605	69.0	11.4	8.0	17.1	14
	3	44	1.35	31	3.6	100	49.4	32.4	6.6	1.0	1.9	69.0	10.6	90 605	71.0	10.9	8.4	17.1	12
	3	44	1.32	32	3.3	98	48.6	32.9	6.3	1.3	2.6	69.0	10.7	90 605	70.0	11.0	9.6	18.4	17
TEXAS																		
Cenutillo			Pima S-2	90 Percent														
	3	44	1.42	29	3.9	98	48.7	33.4	7.8	1.2	1.7	67.9	10.8	88 605	69.5	11.1	9.0	16.9	13
	3	44	1.38	29	3.7	97	48.1	30.7	6.3	1.2	1.8	68.0	11.1	88 605	69.0	11.2	8.4	15.2	10
	3	44	1.35	29	3.3	99	49.0	33.1	6.9	2.6	4.2	67.8	11.0	88 605	69.0	11.2	9.2	17.5	14
	3	44	1.30	29	3.2	92	45.3	32.2	6.6	1.4	2.3	68.0	11.1	89 605	70.7	10.9	9.4	18.2	16
El Paso			Pima S-2	75 Percent														
	3	44	1.42	28	3.8	102	50.7	33.2	7.2	1.7	2.5	69.0	10.5	90 604	71.0	11.0	9.3	16.5	9
	4	44	1.39	29	3.6	93	46.2	31.4	6.6	2.2	3.4	67.2	10.8	87 605	69.9	10.8	10.1	16.7	11
	4	44	1.39	29	3.6	96	47.5	32.3	7.2	2.9	4.2	68.7	10.6	89 605	70.5	11.0	9.7	16.6	10
	4	44	1.32	32	3.1	95	47.0	32.5	6.8	2.6	3.4	69.3	10.5	90 604	70.2	11.0	10.0	18.5	15

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 blchd 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	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Yellow-ness	Com-posite	Rflct-ance	Blue-ness	Com-posite	Grey	Merc.
Grade:	Staple	32d in.	Lbs.	Lbs.	No.	Lbs.	Pct.	Pct.	Index	Index	Index	No.	No.	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index	Pct.	Pct.
WESTERN AREA																								
ARIZONA																								
Peoria			Pima S-2		100 Percent																			
	3	44	73	39	3385	78	5.3	4.5	120	110	115	3	4	65.5	13.5	96	83.3	3.7	98	29.8	25.8	98	36.0	49.6
	3	44	70	38	3270	76	5.6	4.9	13(	110	120	2	2	68.3	13.6	102	83.5	3.5	100	30.4	25.6	96	36.4	48.8
	4	44	71	38	3295	78	5.9	4.8	12(	100	110	4	3	68.4	12.3	98	83.2	3.3	100	30.1	26.2	99	36.2	47.0
	4	44	70	38	3270	76	5.7	4.8	120	100	110	6	3	67.9	12.3	96	81.2	3.8	93	30.0	25.5	96	36.2	48.3
Safford			Pima S-2		99 Percent																			
	3	44	67	36	3115	72	6.3	5.1	130	110	120	6	2	63.8	14.0	93	82.8	3.6	98	27.0	26.7	107	36.1	50.0
	3	44	66	37	3130	71	5.8	5.2	120	100	110	3	1	64.6	13.9	95	83.4	3.5	99	28.2	26.4	103	35.0	48.9
	3	44	67	36	3115	73	5.7	5.1	120	110	115	4	2	66.6	13.8	100	82.9	3.7	97	28.4	26.4	103	35.3	48.5
	7	42	63	35	2975	70	6.1	5.3	100	90	95	29	18	64.4	14.8	96	82.6	4.2	95	30.2	24.5	92	34.4	46.5
Stanfield			Pima S-2		100 Percent																			
	2	44	73	40	3425	77	5.6	4.8	130	110	120	3	2	68.4	13.0	100	83.2	3.0	101	28.5	27.0	105	35.9	50.8
	3	44	72	40	3400	77	5.7	4.8	120	100	110	2	2	68.0	13.2	100	83.1	3.6	98	29.5	26.3	100	35.9	49.6
	4	44	70	39	3310	76	5.6	4.7	110	100	105	5	2	65.4	13.1	94	82.8	3.8	97	29.3	26.5	101	35.6	48.6
	3	44	73	40	3425	79	5.8	4.9	130	110	120	3	3	68.2	12.5	98	80.9	3.9	92	30.0	24.3	91	34.5	47.4
CALIFORNIA																								
Ripley			Pima S-2		100 Percent																			
	5	44	68	38	3220	74	5.4	4.8	120	100	110	4	2	66.6	13.4	98	83.2	3.6	99	31.0	24.6	90	35.5	47.5
	4	44	69	38	3245	76	5.8	4.8	120	110	115	5	4	68.4	12.9	100	83.3	3.3	100	31.1	25.3	93	35.4	45.7
	5	44	72	40	3400	78	5.8	4.9	130	110	120	6	3	67.1	13.2	98	82.3	3.6	96	30.5	25.3	94	36.4	46.7
NEW MEXICO																								
Las Cruces			Pima S-2		100 Percent																			
	3	44	69	39	3285	73	6.1	4.9	130	110	120	6	3	63.8	13.9	93	83.1	3.5	99	26.8	26.7	107	37.0	51.3
	2	44	70	39	3310	71	5.7	5.0	130	110	120	2	2	64.8	13.6	94	83.6	3.7	99	28.2	26.5	104	37.3	49.4
	3	44	68	37	3180	73	5.9	4.8	110	100	105	4	4	64.6	13.7	94	83.6	4.6	95	27.8	26.5	104	36.6	50.3
	3	44	69	37	3205	74	5.9	5.0	120	100	110	6	4	63.8	13.3	90	80.8	4.2	91	28.5	25.4	99	37.4	51.1
TEXAS																								
Canutillo			Pima S-2		90 Percent																			
	3	44	70	38	3270	73	6.1	5.5	120	110	115	5	3	64.0	13.5	92	82.4	3.5	97	26.3	27.3	111	35.2	49.3
	3	44	69	38	3245	72	6.3	5.6	120	110	115	4	4	63.8	13.8	92	83.8	3.6	100	28.2	26.2	102	36.5	49.3
	3	44	69	38	3245	75	6.2	5.2	110	100	105	8	6	63.8	14.1	94	82.9	4.1	96	28.3	26.1	102	36.1	49.8
	3	44	70	39	3310	75	6.3	5.3	120	100	110	6	6	64.0	13.6	92	80.6	3.9	91	28.3	25.5	99	35.6	51.8
El Paso			Pima S-2		75 Percent																			
	3	44	72	39	3360	76	6.2	4.9	120	110	115	6	6	63.5	13.5	90	82.0	3.7	95	26.6	26.9	108	36.0	49.3
	4	44	69	38	3245	74	6.3	5.7	120	100	110	5	4	64.2	13.6	93	83.4	3.5	99	28.1	26.3	103	36.3	47.2
	4	44	69	38	3245	73	6.2	5.0	110	100	105	4	4	64.2	13.8	94	82.7	3.8	97	28.8	25.6	99	36.1	51.2
	4	44	72	40	3400	74	6.0	5.1	120	100	110	6	5	63.0	13.6	90	81.4	3.6	94	27.8	25.9	102	36.1	50.6

Table 9.--Cotton: Results of simple correlation analyses for the fiber and processing tests performed on 187 short staple samples collected at triweekly intervals from selected gin points, crop of 1963

Item	Grade	Staple	Fiber length		Micro-naire	Fiber strength		Elon-gation 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.	R_d	+b	Index	R_d	+b	Pct.	No.
Sample Distribution:																	
Mean	95.1	30.0	.92	45.4	4.04	80.8	20.5	6.43	1.79	2.99	73.4	9.3	96.6	75.7	9.3	7.63	25.5
Standard deviation (±)	4.4	1.0	.04	1.4	.56	5.6	1.3	1.25	.85	1.05	1.8	.6	2.9	1.9	.6	1.45	15.1
Correlation Coef. for:																	
Classification:																	
Grade...index		+.0111	+.0303	+.0352	+.4451	-.0068	-.2312	-.0470	-.7871	-.7839	+.6355	+.1865	+.6983	+.4159	+.0042	-.7338	-.3187
Staple...32d inches	+.0111		+.8478	-.1955	-.0698	-.4282	-.0020	+.4256	.0000	+.0247	+.0765	-.3701	-.0143	+.0075	-.3479	-.0466	+.0763
Fiber length:																	
2.5% span...inches	+.0303	+.8478		-.3292	-.0678	-.4828	-.0968	+.4645	-.0633	-.0370	+.0288	-.2550	-.0394	-.0015	-.2572	-.0773	+.0490
50/2.5 unif...percent	+.0352	-.1955	-.3292		+.2172	+.1618	+.3814	-.0160	+.0940	+.0500	+.2295	-.2246	+.1804	+.2895	-.2008	-.1121	-.3160
Micronaire...reading	+.4451	-.0698	-.0678	+.2172		+.2541	-.0499	-.2910	-.3789	-.4503	+.0255	+.2549	+.0920	-.0913	+.2008	-.5717	-.6665
Fiber strength:																	
Zero gauge...1,000 psi	-.0068	-.4282	-.4828	+.1618	+.2541		+.4538	-.7910	+.0763	+.0051	-.0965	+.2847	-.0351	-.1223	+.3074	-.0305	-.1710
1/8" gauge...grams/tex	-.2312	+.0020	-.0968	+.3814	-.0499	+.4538		-.0949	+.4005	+.3553	-.0321	-.2694	-.0851	+.0418	-.1644	+.1981	+.0623
Elongation (1/8")...pct	-.0470	+.4256	+.4645	-.0160	-.2910	-.7910	-.0949		+.1074	+.1501	+.1499	-.4572	+.0522	+.1861	-.4469	+.1123	+.1783
Shirley Analyzer:																	
Visible waste...percent	-.7871	.0000	-.0633	+.0940	-.3789	+.0763	+.4005	+.1074		+.9449	-.4226	-.2758	-.4997	-.2321	-.0690	+.7428	+.2903
Total waste...percent	-.7839	+.0247	-.0370	+.0500	-.4503	+.0051	+.3553	+.1501	+.9449		-.4471	-.3338	-.5348	-.2317	-.1354	+.7622	+.3446
Color of raw stock:																	
Reflectance...R_d	+.6355	+.0765	+.0288	+.2295	+.0255	-.0965	-.0321	+.1499	-.4226	-.4471		-.2382	+.9491	+.8537	-.3226	-.5064	-.1233
Yellowness...+b	+.1865	-.3701	-.2550	-.2246	+.2549	+.2847	-.2694	-.4572	-.2758	-.3338	-.2382		-.0279	-.3466	+.9057	-.0709	-.0303
Composite...index	+.6983	-.0143	-.0394	+.1804	+.0920	-.0351	-.0851	+.0522	-.4997	-.5348	+.9491	-.0279		+.7801	-.1301	-.5432	-.1413
Color of cleaned lint:																	
Reflectance...R_d	+4159	+.0075	-.0015	+.2895	-.0913	-.1223	+.0418	+.1861	-.2321	-.2317	+.8537	-.3466	+.7801		-.4216	-.3334	-.0973
Yellowness...+b	+.0042	-.3479	-.2572	-.2008	+.2008	+.3074	-.1644	-.4469	-.0690	-.1354	-.3226	+.9057	-.1301	-.4216		+.0779	+.0710
Picker & card waste...pct	-.7338	-.0466	-.0773	-.1121	-.5717	-.0305	+.1981	+.1123	+.7428	+.7622	-.5064	-.0709	-.5432	-.3334	+.0779		+.6000
Neps in card web...number	-.3187	+.0763	+.0490	-.3160	-.6665	-.1710	+.0623	+.1783	+.2903	+.3446	-.1233	-.0303	-.1413	-.0973	+.0710	+.6000	
Yarn skein strength:																	
8s (73.8 tex)...pounds	-.2917	+.3456	+.2563	+.2684	-.4465	-.0513	+.6139	+.3406	+.4548	+.4663	+.1124	-.5599	-.0147	+.2103	-.4591	+.2940	+.2640
22s (26.8 tex)...pounds	-.2782	+.3563	+.2634	+.3275	-.3681	+.0226	+.6767	+.2692	+.4391	+.4296	+.1286	-.5251	+.0095	+.2240	-.4264	+.2308	+.1884
Yarn elongation:																	
8s (73.8 tex)..percent	-.1760	+.4487	+.4846	-.0238	-.5009	-.7218	-.0059	+.8230	+.2431	+.3151	+.1317	-.5170	+.0305	+.2190	-.4711	+.2436	+.3396
22s (26.8 tex)..percent	-.1519	+.4778	+.4828	+.0168	-.5146	-.6867	+.0701	+.8368	+.2376	+.3119	+.1788	-.5411	+.0741	+.2523	-.5042	+.2430	+.3468
Yarn appearance:																	
8s (73.8 tex)...index	+.2629	-.0028	-.0248	+.3028	+.6131	+.2452	+.1340	-.2366	-.2168	-.2715	+.0878	-.0640	+.1003	+.0565	-.0989	-.5407	-.7939
22s (26.8 tex)...index	+.3517	-.0769	-.0865	+.4056	+.6598	+.2146	+.0278	-.2044	-.2860	-.3697	+.2145	+.0411	+.2360	+.1283	+.0053	-.5864	-.8134
Yarn imperfections:																	
8s (73.8 tex)...number	-.4975	+.0004	+.0309	-.3084	-.6484	-.1857	+.0082	+.1798	+.4691	+.5112	-.3472	+.0292	-.3610	-.2433	+.1339	+.7794	+.8338
22s (26.8 tex)...number	-.4903	+.0184	+.0376	-.3131	-.6493	-.1949	+.0020	+.1834	+.4616	+.4999	-.3340	+.0391	-.3490	-.2404	+.1383	+.7698	+.8576
Trash in fabric...index	+.4682	+.0584	+.0333	+.0112	+.4037	+.1573	-.1939	-.2451	-.4617	-.4993	+.3296	+.0941	+.3339	+.1623	-.0153	-.6353	-.4651
Color-22s grey yarn:																	
Reflectance...R_d	+.4592	+.1990	+.0929	+.2474	+.0590	-.1087	+.1304	+.2327	-.2033	-.2019	+.7871	-.5024	+.7289	+.7296	-.5228	-.3768	-.1880
Yellowness...+b	+.0697	-.4144	-.3153	-.1046	+.1130	+.2848	-.1539	-.3752	-.0781	-.1621	-.1320	+.8533	+.0559	-.1980	+.8453	+.0137	+.0282
Composite...index	+.5220	-.0735	-.1297	+.1838	+.1335	+.0848	+.0374	-.0178	-.2659	-.3206	+.7247	+.0316	+.7868	+.6206	-.0005	-.3890	-.1843
Color-22s bleached yarn:																	
Reflectance...R_d	+.4007	-.0167	+.0388	-.0649	+.1168	-.0505	-.1420	+.0404	-.2521	-.3093	+.4267	+.3719	+.5558	+.3060	+.3509	-.2275	+.0089
Yellowness...+b	-.3691	-.3141	-.2741	-.0397	-.1703	+.1325	-.0638	-.2155	+.2021	+.2388	-.3754	+.0644	-.3694	-.2556	+.0987	+.1822	+.0540
Composite...index	+.4705	+.0953	+.1267	-.0354	+.1630	-.0907	-.0966	+.1094	-.2845	-.3447	+.4911	+.2901	+.5965	+.3453	+.2617	-.2585	-.0063
Color-22s dyed yarn:																	
Reflectance...R_d	-.3054	-.1854	-.1537	-.2023	-.0376	+.1440	-.1201	-.2142	+.1584	+.1980	-.3790	-.0476	-.4089	-.3553	+.0284	+.1267	-.0568
Blueness...-b	+.5574	-.0107	-.0050	+.1916	+.5091	+.0217	-.1001	-.0462	-.4348	-.5288	+.4152	+.3329	+.5115	+.2722	+.2203	-.4400	-.3526
Composite...index	+.4957	+.0768	+.0635	+.2093	+.3490	-.0475	-.0204	+.0637	-.3560	-.4342	+.4397	+.2363	+.5160	+.3346	+.1314	-.3494	-.2099

Table 9.--Continued

Item	Yarn strength		Yarn elongation		Yarn appearance		Yarn imprfctns		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	Index
Sample distribution:																		
Mean	295.1	92.3	6.48	5.74	116.7	106.8	65.4	41.3	85.4	68.0	12.2	95.8	83.0	3.2	100.0	27.0	26.6	106.7
Standard deviation (±)	21.1	7.6	.85	.76	6.3	9.6	27.5	19.0	9.3	1.8	.7	3.7	1.3	.3	3.7	1.0	.7	4.5
Correlation Coef. for:																		
Classification:																		
Grade.....index	-.2917	-.2782	-.1760	-.1519	+.2629	+.3517	-.4975	-.4903	+.4682	+.4592	+.0697	+.5220	+.4007	-.3691	+.4705	-.3054	+.5574	+.4957
Staple.....32d inches	+.3456	+.3563	+.4487	+.4778	-.0028	-.0769	+.0004	+.0184	+.0584	+.1990	-.4144	-.0735	-.0167	-.3141	+.0953	-.1854	-.0107	+.0768
Fiber length:																		
2.5% span.....inches	+.2563	+.2634	+.4846	+.4828	-.0248	-.0865	+.0309	+.0376	+.0333	+.0929	-.3153	-.1297	+.0388	-.2741	+.1267	-.1537	-.0050	+.0635
50/2.5 unif.....percent	+.2684	+.3275	-.0238	+.0168	+.3028	+.4056	-.3084	-.3131	+.0112	+.2474	-.1046	+.1838	-.0649	-.0397	-.0354	-.2023	+.1916	+.2093
Micronaire.....reading	-.4465	-.3681	-.5009	-.5146	+.6131	+.6598	-.6484	-.6493	+.4037	+.0590	+.1130	+.1335	+.1168	-.1703	+.1630	-.0376	+.5091	+.3490
Fiber strength:																		
Zero gauge....1,000 psi	-.0513	+.0226	-.7218	-.6867	+.2452	+.2146	-.1857	-.1949	+.1573	-.1087	+.2848	+.0848	-.0505	+.1325	-.0907	+.1440	+.0217	-.0475
1/8" gauge....grams/tex	+.6139	+.6767	-.0059	+.0701	+.1340	+.0278	+.0082	+.0020	-.1939	+.1304	-.1539	+.0374	-.1420	-.0638	-.0966	-.1201	-.1001	-.0204
Elongation (1/8")...pct	+.3406	+.2692	+.8230	+.8368	-.2366	-.2044	+.1798	+.1834	-.2451	+.2327	-.3752	-.0178	+.0404	-.2155	+.1094	-.2142	-.0462	+.0637
Shirley Analyzer:																		
Visible waste...percent	+.4548	+.4391	+.2431	+.2376	-.2168	-.2860	+.4691	+.4616	-.4617	-.2033	-.0781	-.2659	-.2521	+.2021	-.2845	+.1584	-.4348	-.3560
Total waste.....percent	+.4663	+.4296	+.3151	+.3119	-.2715	-.3697	+.5112	+.4999	-.4993	-.2019	-.1621	-.3206	-.3093	+.2388	-.3447	+.1980	-.5288	-.4342
Color of raw stock:																		
Reflectance.....R_d	+.1124	+.1286	+.1317	+.1788	+.0878	+.2145	-.3472	-.3340	+.3296	+.7871	-.1320	+.7247	+.4267	-.3754	+.4911	-.3790	+.4152	+.4397
Yellowness.....+b	-.5599	-.5251	-.5170	-.5411	-.0640	+.0411	+.0292	+.0391	+.0941	-.5024	+.8533	+.0316	+.3719	+.0644	+.2901	-.0476	+.3329	+.2363
Composite.....index	-.0147	+.0095	+.0305	+.0741	+.1003	+.2360	-.3610	-.3490	+.3339	+.7289	+.0559	+.7868	+.5558	-.3694	+.5965	-.4089	+.5115	+.5160
Color of cleaned lint:																		
Reflectance.....R_d	+.2103	+.2240	+.2190	+.2523	+.0565	+.1283	-.2433	-.2404	+.1623	+.7296	-.1980	+.6206	+.3060	-.2556	+.3453	-.3553	+.2722	+.3346
Yellowness.....+b	-.4591	-.4264	-.4711	-.5042	-.0989	+.0053	+.1339	+.1383	-.0153	-.5228	+.8453	-.0005	+.3509	+.0987	+.2617	+.0284	+.2203	+.1314
Picker & card waste...pct	+.2940	+.2308	+.2436	+.2430	-.5407	-.5864	+.7794	+.7698	-.6353	-.3768	+.0137	-.3890	-.2275	+.1822	-.2585	+.1267	-.1400	-.3494
Neps in card web...number	+.2640	+.1884	+.3396	+.3468	-.7939	-.8134	+.8338	+.8576	-.4651	-.1880	+.0282	-.1843	+.0089	+.0540	-.0063	-.0568	-.3526	-.2099
Yarn skein strength:																		
8s (73.8 tex)...pounds		+.9630	+.5575	+.6328	-.0886	-.1738	+.1833	+.1859	-.2923	+.2671	-.3896	+.0124	-.1170	-.0411	-.0875	-.1495	-.3182	-.1496
22s (26.8 tex)...pounds	+.9630		+.4733	+.5588	-.0095	-.0856	+.1163	+.1190	-.2492	+.2626	-.3568	+.0280	-.0818	-.0634	-.0493	-.1908	-.2497	-.0838
Yarn elongation:																		
8s (73.8 tex)..percent	+.5575	+.4733		+.9335	-.3078	-.3162	+.3024	+.3132	-.3364	+.2602	-.4147	-.0159	+.0203	-.0925	+.0481	-.2068	-.1983	-.0421
22s (26.8 tex)..percent	+.6328	+.5588	+.9335		-.3033	-.3176	+.2900	+.2975	-.3412	+.3151	-.4271	+.0357	+.0372	-.1313	+.0744	-.2226	-.2221	-.0511
Yarn appearance:																		
8s (73.8 tex)....index	-.0886	-.0095	-.3078	-.3033		+.7638	-.7880	-.8067	+.4256	+.2091	-.1083	+.1522	-.0120	-.0423	+.0025	+.0482	+.2542	+.1506
22s (26.8 tex)....index	-.1738	-.0856	-.3162	-.3176	+.7638		-.7834	-.8025	+.4861	+.2563	+.0319	+.2934	+.1138	-.0813	+.1236	-.0242	+.3944	+.2733
Yarn imperfections:																		
8s (73.8 tex)...number	+.1833	+.1163	+.3024	+.2900	-.7880	-.7834		+.9841	-.6757	-.3891	+.1014	-.3450	-.1043	+.1178	-.1274	+.0360	-.4091	-.2883
22s (26.8 tex)...number	+.1859	+.1190	+.3132	+.2975	-.8067	-.8025	+.9841		-.6675	-.3836	+.1116	-.3321	-.0839	+.1095	-.1070	+.0419	-.4041	-.2872
Trash in fabric.....index	-.2923	-.2492	-.3364	-.3412	+.4256	+.4861	-.6757	-.6675		+.2530	-.0127	+.2579	+.0852	-.1740	+.1342	-.0313	+.2939	+.2128
Color-22s grey yarn:																		
Reflectance.....R_d	+.2671	+.2626	+.2602	+.3151	+.2091	+.2563	-.3891	-.3836	+.2530		-.3753	+.7901	+.2988	-.3530	+.3746	-.2634	+.2551	+.2849
Yellowness.....+b	-.3896	-.3568	-.4147	-.4271	-.1083	+.0319	+.1014	+.1116	-.0127	-.3753		+.2589	+.5128	+.1366	+.3804	+.0194	+.2262	+.1393
Composite.....index	+.0124	+.0280	-.0159	+.0357	+.1522	+.2934	-.3450	-.3321	+.2579	+.7901	+.2589		+.6160	-.2739	+.6109	-.2509	+.4051	+.3769
Color-22s bleached yarn:																		
Reflectance.....R_d	-.1170	-.0818	+.0203	+.0372	-.0120	+.1138	-.1043	-.0839	+.0852	+.2988	+.5128	+.6160		-.2609	+.9375	-.3350	+.4687	+.4590
Yellowness.....+b	-.0411	-.0634	-.0925	-.1313	-.0423	-.0813	+.1178	+.1095	-.1740	-.3530	+.1366	-.2739	-.2609		-.5769	+.3694	-.4554	-.4649
Composite.....index	-.0875	-.0493	+.0481	+.0744	+.0025	+.1236	-.1274	-.1070	+.1342	+.3746	+.3804	+.6109	+.9375	-.5769		-.4196	+.5601	+.5564
Color-22s dyed yarn:																		
Reflectance.....R_d	-.1495	-.1908	-.2068	-.2226	+.0482	-.0242	+.0360	+.0419	-.0313	-.2634	+.0194	-.2509	-.3350	+.3694	-.4196		-.6628	-.8625
Blueness.....-b	-.3182	-.2497	-.1983	-.2221	+.2542	+.3944	-.4091	-.4041	+.2939	+.2551	+.2262	+.4051	+.4687	-.4554	+.5601	-.6628		+.9473
Composite.....index	-.1496	-.0838	-.0421	-.0511	+.1506	+.2733	-.2883	-.2872	+.2128	+.2849	+.1391	+.3769	+.4590	-.4649	+.5564	-.8625	+.9473	

Table 10.--Cotton: Results of simple correlation analyses for the fiber and processing tests performed on 550 medium staple samples, collected at triweekly intervals from selected gin points, crop of 1963

Item	Grade	Staple	Fiber length		Micro-naire	Fiber strength		Elon-gation 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.
Sample distribution:																	
Mean	97.2	33.8	1.05	45.0	4.35	81.9	21.7	6.00	1.29	2.19	75.6	8.4	99.2	77.4	8.5	6.63	22.2
Standard deviation (+)	4.0	.8	.03	1.7	.40	4.9	1.5	.73	.57	.72	2.1	.5	3.2	1.8	.5	.96	9.3
Correlation Coef. for:																	
Classification:																	
Grade.....index		+.0568	+.0492	+.1705	+.2166	-.1453	-.1351	-.0431	-.7382	-.7559	+.7602	+.3966	+.7933	+.5667	+.2603	-.6179	-.0207
Staple.....32d inches	+.0568		+.7812	+.1368	+.0406	+.2301	+.3979	+.0494	+.0149	-.0445	+.1936	-.1761	+.1482	+.1987	-.1749	-.1851	-.1502
Fiber length:																	
2.5% span.....inches	+.0492	+.7812		+.0068	+.0179	-.0188	+.2646	+.1093	+.0497	-.0453	+.1787	-.0465	+.1592	+.1449	-.0408	-.1376	-.0733
50/2.5 unif.....percent	+.1705	+.1368	+.0068		+.3709	+.3143	+.3798	-.0600	-.1008	-.1903	+.0800	+.0424	+.0759	+.0097	+.0638	-.1848	-.4079
Micronaire.....reading	+.2166	+.0406	+.0179	+.3709		+.1741	+.1284	-.0913	-.1540	-.2199	+.1203	+.2991	+.1628	+.1595	+.2713	-.2554	-.6517
Fiber strength:																	
Zero gauge.....1,000 psi	-.1453	+.2301	-.0188	+.3143	+.1741		+.6812	-.2361	+.0773	+.1130	-.1810	-.2515	-.2114	-.0564	-.2533	+.0308	-.3028
1/8" gauge.....grams/tex	-.1351	+.3979	+.2646	+.3798	+.1284	+.6812		+.1697	+.0383	+.0509	-.0894	-.2910	-.1390	-.0100	-.2827	+.0433	-.2376
Elongation (1/8").....pct	-.0431	+.0494	+.1093	-.0600	-.0913	-.2361	+.1697		-.0002	+.0418	+.1159	-.1744	+.0770	+.1436	-.1751	+.1062	+.0230
Shirley Analyzer:																	
Visible waste.....percent	-.7382	+.0149	+.0497	-.1008	-.1540	+.0773	+.0383	-.0002		+.8992	-.5223	-.2847	-.5474	-.4106	-.1490	+.6311	-.0351
Total waste.....percent	-.7559	-.0445	-.0453	-.1903	-.2199	+.1130	+.0509	+.0418	+.8992		-.5290	-.3716	-.5592	-.3750	-.2633	+.6856	+.0232
Color of raw stock:																	
Reflectance.....Rd	+.7602	+.1936	+.1787	+.0800	+.1203	-.1810	-.0894	+.1159	-.5323	-.5290		+.0713	+.9792	+.8770	-.0324	-.5008	+.0054
Yellowness.....+b	+.3966	-.1761	-.0465	+.0424	+.2991	-.2515	-.2910	-.1744	-.2847	-.3716	+.0713		+.2337	-.0318	+.8887	-.2440	-.0905
Composite.....index	+.7933	+.1482	+.1592	+.0759	+.1628	-.2114	-.1390	+.0770	-.5474	-.5592	+.9792	+.2337		+.8459	+.1188	-.5190	-.0049
Color of cleaned lint:																	
Reflectance.....Rd	+.5667	+.1987	+.1449	+.0097	+.1595	-.0564	-.0100	+.1436	-.4106	-.3750	+.8770	-.0318	+.8459		-.1804	-.4112	-.0902
Yellowness.....+b	+.2603	-.1749	-.0408	+.0638	+.2713	-.2533	-.2827	-.1751	-.1490	-.2633	-.0324	+.8887	+.1188	-.1804		-.1807	-.0813
Picker & card waste....pct	-.6179	-.1851	-.1376	-.1848	-.2554	+.0308	+.0433	+.1062	+.6311	+.6856	-.5008	-.2440	-.5190	-.4112	-.1807		+.2433
Neps in card web....number	-.0207	-.1502	-.0733	-.4079	-.6517	-.3028	-.2376	+.0230	-.0351	+.0232	+.0054	-.0905	-.0049	-.0902	-.0813	+.2433	
Yarn skein strength:																	
22s (26.8 tex)....pounds	+.0569	+.5138	+.4899	+.4584	-.1757	+.3625	+.6562	+.1759	-.0300	-.0888	+.1182	-.2541	+.0659	+.0220	-.2313	-.1099	-.0246
50s (11.8 tex)....pound	-.0890	+.5388	+.5029	+.4090	-.1688	+.4262	+.7185	+.2296	+.0887	+.0335	+.0234	-.2852	-.0287	+.0300	-.2679	-.0340	-.1190
Yarn elongation:																	
22s (26.8 tex)...percent	+.2197	+.1327	+.2775	+.0599	-.4021	-.4626	-.1243	+.3851	-.1597	-.1853	+.3171	-.1100	+.2804	+.0980	-.0637	-.1141	+.3800
50s (11.8 tex)...percent	+.1308	+.3202	+.4181	+.1750	-.3755	-.2599	+.1400	+.4291	-.0721	-.1145	+.2776	-.1776	+.2327	+.1265	-.1382	-.1187	+.2225
Yarn appearance:																	
22s (26.8 tex).....index	-.0010	+.0632	-.0212	+.2849	+.5559	+.3035	+.1866	-.0972	-.0146	-.0418	+.0063	+.0768	+.0160	+.1713	+.0492	-.2406	-.7119
50s (11.8 tex).....index	+.1337	+.0336	-.0107	+.4097	+.5564	+.1858	+.1212	-.0930	-.0772	-.1513	+.0749	+.1206	+.0857	+.1252	+.1094	-.3327	-.7097
Yarn imperfections:																	
22s (26.8 tex)....number	-.4686	-.0751	-.0770	-.3774	-.4424	+.0786	+.0879	+.0839	+.3924	+.4797	-.3737	-.1995	-.3861	-.2481	-.1590	+.5436	+.4570
50s (11.8 tex)....number	-.3808	-.1073	-.0842	-.4542	-.4992	+.0049	+.0095	+.0789	+.3033	+.3927	-.2854	-.1765	-.2933	-.1998	-.1416	+.5048	+.5670
Trash in fabric.....index	+.4036	-.0359	-.0485	+.1451	+.1541	-.0134	-.0619	-.0485	-.3242	-.3455	+.3926	-.0030	+.3703	+.3390	-.0678	-.3207	-.1747
Color-22s grey yarn:																	
Reflectance.....Rd	+.6165	+.1204	+.1056	+.0465	+.1366	-.1894	-.0814	+.1836	-.3916	-.3699	+.8579	-.0320	+.8305	+.7917	-.1121	-.3272	+.0023
Yellowness.....+b	+.2480	-.0890	+.0259	+.0192	+.1473	-.2136	-.2279	-.1475	-.1367	-.2595	+.0140	+.8216	+.1571	-.0855	+.8152	-.2309	-.0864
Composite.....index	+.6842	+.0748	+.1096	+.0512	+.1940	-.2685	-.1766	+.1060	-.4219	-.4551	+.8152	+.3241	+.8488	+.7134	+.2476	-.4055	-.0360
Color-22s bleached yarn:																	
Reflectance.....Rd	+.3230	+.0502	+.0991	-.1061	-.1097	-.3470	-.2919	+.0254	-.2152	-.2658	+.3584	+.2699	+.3955	+.2842	+.2500	-.2770	+.1139
Yellowness.....+b	-.3594	-.1327	-.1234	-.0706	-.2748	+.1742	+.0598	-.1513	+.2569	+.2651	-.4598	+.0161	-.4288	-.4429	+.0476	+.2436	+.0360
Composite.....index	+.4049	+.0939	+.1293	-.0418	+.0501	-.3363	-.2469	+.0951	-.2745	-.3149	+.4919	+.1910	+.4946	+.4323	+.1583	-.3161	+.0413
Color-22s dyed yarn:																	
Reflectance.....Rd	-.3862	-.3258	-.4063	-.2595	-.2886	+.1171	-.1387	-.2629	+.2191	+.3281	-.4044	-.3269	-.4381	-.3472	-.2591	+.2354	+.2259
Blueness.....-b	+.5228	+.2242	+.2751	+.2240	+.4226	-.2025	-.0166	+.1587	-.3407	-.4469	+.5429	+.3502	+.5838	+.4580	+.2827	-.3679	-.2589
Composite.....index	+.4871	+.2780	+.3470	+.2564	+.3854	-.1752	+.0533	+.2121	-.3004	-.4135	+.5075	+.3590	+.5466	+.4298	+.2919	-.3268	-.2570

Table 10.--Continued

Item	Yarn strength		Yarn elongation		Yarn appearance		Yarn imprfctns		Trash in fabric	Color--22s 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	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index
Sample Distribution																		
Mean	107.9	36.9	6.02	4.69	109.7	97.7	26.4	20.2	90.3	70.7	11.1	97.3	83.8	2.6	103.9	27.5	26.9	106.6
Standard deviation (+)	9.1	4.6	.57	.47	8.6	7.2	9.1	7.3	7.9	1.9	.5	3.9	.9	.3	2.8	1.1	.7	4.9
Correlation Coef. for:																		
Classification:																		
Grade	+.0569	-.0890	+.2197	+.1308	-.0010	+.1337	-.4686	-.3808	+.4036	+.6165	+.2480	+.6842	+.3230	-.3594	+.4049	-.3862	+.5228	+.4871
Staple	+.5138	+.5388	+.1327	+.3202	+.0632	+.0336	-.0751	-.1073	-.0359	+.1204	-.0890	+.0748	+.0502	-.1327	+.0939	-.3258	+.2242	+.2780
Fiber length:																		
2.5% span	+.4899	+.5029	+.2775	+.4181	-.0212	-.0107	-.0770	-.0842	-.0485	+.1056	+.0259	+.1096	+.0991	-.1234	+.1293	-.4063	+.2751	+.3470
50/2.5 unif	+.4584	+.4090	+.0599	+.1750	+.2849	+.4097	-.3774	-.4542	+.1451	+.0465	+.0192	+.0512	-.1061	-.0706	-.0418	-.2595	+.2240	+.2564
Micronaire	-.1757	-.1688	-.4021	-.3755	+.5559	+.5564	-.4424	-.4992	+.1541	+.1366	+.1473	+.1940	-.1097	-.2748	+.0501	-.2886	+.4226	+.3854
Fiber strength:																		
Zero gauge....1,000 psi	+.3625	+.4262	-.4626	-.2599	+.3035	+.1858	+.0786	+.0049	-.0134	-.1894	-.2136	-.2685	-.3470	+.1742	-.3363	+.1171	-.2025	-.1752
1/8" gauge grams/tex	+.6562	+.7185	-.1243	+.1400	+.1866	+.1212	+.0879	+.0095	-.0619	-.0814	-.2279	-.1766	-.2919	+.0598	-.2469	-.1387	-.0166	+.0533
Elongation (1/8")	+.1759	+.2296	+.3851	+.4291	-.0972	-.0930	+.0839	+.0789	-.0485	+.1836	-.1475	+.1060	+.0254	-.1513	+.0951	-.2629	+.1587	+.2121
Shirley Analyzer:																		
Visible waste	-.0300	+.0887	-.1597	-.0721	-.0146	-.0772	+.3924	+.3033	-.3242	-.3916	-.1367	-.4219	-.2152	+.2569	-.2745	+.2191	-.3407	-.3004
Total waste	-.0888	+.0335	-.1853	-.1145	-.0418	-.1513	+.4797	+.3927	-.3455	-.3699	-.2595	-.4551	-.2658	+.2651	-.3149	+.3281	-.4469	-.4135
Color of raw stock:																		
Reflectance	+.1182	+.0234	+.3171	+.2776	+.0063	+.0749	-.3737	-.2854	+.3926	+.8579	+.0140	+.8152	+.3584	-.4598	+.4919	-.4044	+.5429	+.5075
Yellowness	-.2541	-.2852	-.1100	-.1776	+.0768	+.1206	-.1995	-.1765	-.0030	-.0320	+.8216	+.3241	+.2699	+.0161	+.1910	-.3269	+.3502	+.3590
Composite	+.0659	-.0287	+.2804	+.2327	+.0160	+.0857	-.3861	-.2933	+.3703	+.8305	+.1571	+.8488	+.3955	-.4288	+.4946	-.4381	+.5838	+.5466
Color of cleaned lint:																		
Reflectance	+.0220	+.0300	+.0980	+.1265	+.1713	+.1252	-.2481	-.1998	+.3390	+.7917	-.0855	+.7134	+.2842	-.4429	+.4323	-.3472	+.4580	+.4298
Yellowness	-.2313	-.2679	-.0637	-.1382	+.0492	+.1094	-.1590	-.1416	-.0678	-.1121	+.8152	+.2476	+.2500	+.0476	+.1583	-.2591	+.2827	+.2919
Picker & card waste	-.1099	-.0340	-.1141	-.1187	-.2406	-.3327	+.5436	+.5048	-.3207	-.3272	-.2309	-.4055	-.2770	+.2436	-.3161	+.2354	-.3679	-.3268
Neps in card web	-.0246	-.1190	+.3800	+.2225	-.7119	-.7097	+.4570	+.5670	-.1747	+.0023	-.0864	-.0360	+.1139	+.0860	+.0413	+.2259	-.2589	-.2570
Yarn skein strength:																		
22s (26.8 tex)		+.9180	+.4642	+.6691	-.1060	+.0226	-.1283	-.1457	+.0123	+.0657	-.1709	-.0178	-.0557	-.0338	-.0272	-.2438	+.0305	+.1282
50s (11.8 tex)	+.9180		+.2805	+.6014	+.0426	+.0630	+.0004	-.0663	-.0328	-.0129	-.1604	-.0867	-.0679	+.0579	-.0773	-.2487	-.0158	+.1017
Yarn elongation:																		
22s (26.8 tex)	+.4642	+.2805		+.8503	-.4920	-.2554	-.1717	-.0809	+.0402	+.3017	-.0548	+.2563	+.2420	-.1936	+.2728	-.2003	+.1454	+.1780
50s (11.8 tex)	+.6691	+.6014	+.8503		-.3495	-.1657	-.1175	-.0762	+.0145	+.2531	-.0706	+.2057	+.2017	-.1347	+.2116	-.2778	+.1345	+.2044
Yarn appearance:																		
22s (26.8 tex)	-.1060	+.0426	-.4920	-.3495		+.6776	-.3517	-.4573	+.2579	-.0424	+.0694	-.0122	-.0489	-.0272	-.0180	-.1145	+.1291	+.1257
50s (11.8 tex)	+.0226	+.0630	-.2554	-.1657	+.6776		-.5465	-.6277	+.3160	+.0495	+.0873	+.0844	-.0507	-.1149	+.0218	-.1888	+.2159	+.2134
Yarn imperfections:																		
22s (26.8 tex)	-.1283	+.0004	-.1717	-.1175	-.3517	-.5465		+.9181	-.5149	-.3102	-.1276	-.3408	-.1232	+.3006	-.2300	+.2426	-.3826	-.3384
50s (11.8 tex)	-.1457	-.0663	-.0809	-.0762	-.4573	-.6277	+.9181		-.4797	-.2234	-.1093	-.2525	-.0779	+.2495	-.1773	+.2686	-.3486	-.3284
Trash in fabric	+.0123	-.0328	+.0402	+.0145	+.2579	+.3160	-.5149	-.4797		+.3188	-.0512	+.2749	+.0965	-.1905	+.1676	-.0936	+.1837	+.1499
Color-22s grey yarn:																		
Reflectance	+.0657	-.0129	+.3017	+.2531	-.0424	+.0495	-.3102	-.2234	+.3188		-.1177	+.8967	+.2998	-.5059	+.4702	-.3153	+.5086	+.4472
Yellowness	-.1709	-.1604	-.0548	-.0706	+.0694	+.0873	-.1276	-.1093	-.0512	-.1177		+.3270	+.3367	+.1197	+.1894	-.2469	+.2445	+.2576
Composite	-.0178	-.0867	+.2563	+.2057	-.0122	+.0844	-.3408	-.2525	+.2749	+.8967	+.3270		+.4384	-.4140	+.5174	-.3980	+.5830	+.5287
Color 22s bleached yarn:																		
Reflectance	-.0557	-.0679	+.2420	+.2017	-.0489	-.0507	-.1232	-.0779	+.0965	+.2998	+.3367	+.4384		-.2832	+.9075	- 1788	+.2205	+.2075
Yellowness	-.0338	+.0579	-.1936	-.1347	-.0272	-.1149	+.3006	+.2495	-.1905	-.5059	+.1197	-.4140	-.2832		-.6748	+.2023	-.4158	-.3380
Composite	-.0272	-.0773	+.2728	+.2116	-.0180	+.0218	-.2300	-.1773	+.1676	+.4702	+.1894	+.5174	+.9075	-.6748		-.2207	+.3610	+.3094
Color-22s dyed yarn:																		
Reflectance	-.2438	-.2487	-.2003	-.2778	-.1145	-.1888	+.2426	+.2686	-.0936	-.3153	-.2469	-.3980	-.1788	+.2023	-.2207		-.7894	-.9235
Blueness	+.0305	-.0158	+.1454	+.1345	+.1291	+.2159	-.3826	-.3486	+.1837	+.5086	+.2445	+.5830	+.2205	-.4158	+.3610	-.7894		+.9604
Composite	+.1282	+.1017	+.1780	+.2044	+.1257	+.2134	-.3384	-.3284	+.1499	+.4472	+.2576	+.5287	+.2075	-.3380	+.3094	-.9235	+.9604	

Table 11.--Cotton: Results of simple correlation analyses for the fiber and processing tests performed on 40 long staple samples, collected at triweekly intervals from selected gin points, crop of 1963

Item	Grade	Staple	Fiber length		Micronaire	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	Reflectance	Yellowness	Composite	Reflectance	Yellowness		
	Index	32d in.	In.	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Pct.	Rd	+b	Index	Rd	+b	Pct.	No.
Sample Distribution:																	
Mean	97.5	36.6	1.17	43.9	3.51	86.2	25.1	5.92	1.52	2.76	76.8	8.2	100.8	78.2	8.4	7.61	32.5
Standard deviation (±)	3.0	.5	.03	1.5	.47	4.4	.8	.48	.78	1.11	1.8	.6	2.1	1.7	.5	1.30	12.3
Correlation Coef. for:																	
Classification:																	
Grade.....index		+.3858	+.4635	+.5673	+.6623	+.0578	+.0494	+.0955	-.7021	-.7629	+.3387	+.3132	+.4183	+.2110	+.1651	-.7292	-.6240
Staple.....32d inches	+.3858		+.7689	+.6667	+.4140	-.1900	-.0963	+.3962	-.3464	-.4222	+.1733	+.2257	+.2361	+.1420	+.2432	-.4422	-.4105
Fiber length:																	
2.5% span.....inches	+.4635	+.7629		+.6120	+.6244	-.1484	-.0439	+.5126	-.5825	-.6243	+.1551	+.3747	+.2493	+.1327	+.2870	-.6360	-.5998
50/2.5 unif.....percent	+.5673	+.6667	+.6120		+.6456	+.0870	+.0807	+.1558	-.5143	-.5768	+.0859	+.4262	+.1542	+.0212	+.3673	-.5349	-.5789
Micronaire.....reading	+.6623	+.4140	+.6244	+.6456		+.3698	+.1634	-.0170	-.7869	-.8573	-.1413	+.7151	-.0187	-.2052	+.5464	-.8219	-.8519
Fiber strength:																	
Zero gauge....1,000 psi	+.0578	-.1900	-.1484	+.0870	+.3698		+.5552	-.6053	-.3032	-.2482	-.4046	+.3701	-.4946	-.4398	+.2999	-.2655	-.2382
1/8" gauge....grems/tex	+.0494	-.0963	-.0439	+.0607	+.1634	+.5552		-.2945	-.2589	-.1444	-.1705	+.0589	-.1704	+.1027	+.0354	-.1666	-.2225
Elongation (1/8")...pct	+.0955	+.3962	+.5126	+.1558	-.0170	-.6053	-.2945		-.1007	-.0950	+.3747	-.1916	+.3752	+.3762	-.1730	-.1332	-.1259
Shirley Analyzer:																	
Visible waste...percent	-.7021	-.3464	-.5825	-.5143	-.7869	-.3032	-.2589	-.1007		+.9268	-.0370	-.4835	-.1333	+.0548	-.3230	+.9022	+.8598
Total waste.....percent	-.7629	-.4222	-.6243	-.5768	-.8573	-.2482	-.1444	-.0950	+.9268		-.0095	-.5865	-.1302	+.1080	-.4344	+.9341	+.8516
Color of raw stock:																	
Reflectance.....R_d	+.3387	+.1733	+.1551	+.0859	-.1413	-.4946	-.1705	+.3747	-.0370	-.0095		-.5386	+.9755	+.8838	-.5799	-.0577	+.0287
Yellowness.....+b	+.3132	+.2257	+.3747	+.4262	+.7151	+.3701	+.0589	-.1916	-.4835	- 5865	-.5386		-.3837	-.6144	+.8956	-.5359	-.5233
Composite.....index	+.4183	+.2361	+.2493	+.1542	-.0187	-.4946	-.1704	+.3752	-.1333	-.1302	+.9755	-.3837		+.8456	-.4441	-.1804	-.0744
Color of cleaned lint:																	
Reflectance.....R_d	+.2110	+.1420	+.1327	+.0212	-.2052	-.4398	-.1027	+.3762	+.0548	+.1080	+.8838	-.6144	+.8456		-.6630	+.0510	+.0790
Yellowness.....+b	+.1651	+.2432	+.2870	+.3673	+.5464	+.2999	+.0354	-.1730	-.3230	-.4344	-.5799	+.8956	-.4441	-.6630		-.3771	-.3557
Picker & card waste...pct	-.7292	-.4422	-.6360	-.5349	-.8219	-.2655	-.1666	-.1332	+.9022	+.9341	-.0577	-.5359	-.1804	+.0510	-.3771		+.8391
Neps in card web...number	-.6240	-.4105	-.5998	-.5789	-.8519	-.2382	-.2225	-.1259	+.8598	+.8516	+.0287	-.5233	-.0744	+.0790	-.3557	+.8391	
Yarn skein strength:																	
22s (26.8 tex)...pounds	+.4270	+.6241	+.7387	+.6496	+.6957	+.1501	+.0673	+.2578	-.6461	-.6446	-.0740	+.5184	+.0178	-.0902	+.4132	-.6520	-.7265
50s (11.8 tex)...pounds	+.2974	+.6567	+.6914	+.5740	+.4174	-.0998	-.0317	+.3862	-.4279	-.3899	+.1303	+.2404	+.1811	+.1389	+.1743	-.4190	-.5068
Yarn elongation:																	
22s (26.8 tex)..percent	+.1206	+.4956	+.5059	+.0923	-.1401	-.6324	-.2776	+.8105	+.0142	-.0039	+.4921	-.3089	+.4808	+.4779	-.3160	-.0138	+.0480
50s (11.8 tex)..percent	+.1588	+.5290	+.6003	+.1844	+.0050	-.6361	-.2250	+.8033	-.0151	-.0547	+.4521	-.1744	+.4882	+.4751	-.1987	-.0625	-.0435
Yarn appearance:																	
22s (26.8 tex)....index	+.5600	+.2634	+.4151	+.4764	+.7764	+.3584	+.3308	-.0965	-.8172	-.8486	-.1714	+.5299	-.0725	-.2148	+.3908	-.7957	-.8273
50s (11.8 tex)....index	+.6214	+.3398	+.4777	+.5137	+.7736	+.2601	+.2853	-.0633	-.8213	-.8630	+.0368	+.4461	+.1288	-.0468	+.2641	-.8199	-.7788
Yarn imperfections:																	
22s (26.8 tex)...number	-.5318	-.4514	-.5855	-.6262	-.7845	-.2954	-.2969	-.1212	+.8917	+.8469	+.0595	-.5183	-.0328	+.1303	-.4105	+.8276	+.8618
50s (11.8 tex)...number	-.4676	-.4014	-.4978	-.5934	-.7339	-.3292	-.3182	-.1122	+.8276	+.7808	+.1008	-.4879	+.0276	+.1697	-.3930	+.7946	+.8357
Trash in fabric.....index	+.6371	+.4017	+.4740	+.5050	+.6932	+.1536	+.0441	-.0048	-.7504	-.8301	+.1112	+.4094	+.2063	-.0297	+.2836	-.8018	-.6649
Color-22s grey yarn:																	
Reflectance.....R_d	+.2623	+.1922	+.1344	+.0971	-.1437	-.4949	-.1472	+.3150	+.0062	-.0012	+.9295	-.5600	+.9069	+.8958	-.5940	-.0031	+.0319
Yellowness.....+b	+.1877	+.2692	+.3568	+.3568	+.5493	+.2472	-.0406	-.0706	-.3547	-.4579	-.4935	+.8673	-.3355	-.5366	+.8315	-.4329	-.4398
Composite.....index	+.4016	+.3503	+.3297	+.3044	+.1274	-.4316	-.1902	+.3228	-.1878	-.2497	+.7914	-.1924	+.8441	+.7377	-.2515	-.2230	-.2004
Color-22s bleached yarn:																	
Reflectance.....R_d	+.3869	+.3932	+.5390	+.2724	+.2332	-.4719	-.2174	+.6628	-.2515	-.2923	+.6111	-.0479	+.6861	+.5339	-.0405	-.3251	-.1911
Yellowness.....+b	-.5588	-.5685	-.6589	-.4825	-.5347	+.2270	+.1319	-.6327	+.6298	+.6170	-.3932	-.1351	-.4678	-.3712	-.0280	+.6605	+.5807
Composite.....index	+.4869	+.4840	+.6305	+.3660	+.3766	-.4035	-.2087	+.7121	-.4340	-.4555	+.5527	+.0257	+.6347	+.5026	-.0116	-.4984	-.3618
Color-22s dyed yarn:																	
Reflectance.....R_d	-.5055	-.3681	-.6275	-.4634	-.7519	-.1454	+.0003	-.2315	+.6263	+.6695	+.2744	-.7165	+.1480	+.2857	-.5632	+.6222	+.6637
Blueness.....-b	+.4750	+.4542	+.5733	+.5576	+.7558	+.1444	-.0367	+.2766	-.6442	-.6691	-.1710	+.6188	-.0537	-.1808	+.4583	-.6539	-.6517
Composite.....index	+.5046	+.4334	+.6184	+.5472	+.7860	+.1556	-.0165	+.2639	-.6622	-.6947	-.2252	+.6912	-.0983	-.2345	+.5249	-.6662	-.6862

Table 11.--Continued

Item	Yarn strength		Yarn elongation		Yarn appearance		Yarn imprfctns		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	Rd	+b	Index	Rd	+b	Index	Rd	-b	Index
Sample Distribution:																		
Mean	137.5	50.4	6.91	5.57	95.2	86.2	38.0	27.3	82.2	70.7	11.2	97.8	83.8	2.0	103.6	27.0	26.4	105.6
Standard deviation (±)	5.6	2.3	.35	.34	8.8	10.5	22.2	15.3	10.4	1.9	.5	3.3	1.0	.3	3.3	1.2	1.0	6.1
Correlation Coef. for:																		
Classification:																		
Grade.....index	+.4270	+.2974	+.1206	+.1588	+.5600	+.6214	-.5318	-.4676	+.6371	+.2623	+.1877	+.4016	+.3869	-.5588	+.4869	-.5055	+.4750	+.5046
Staple.....32d inches	+.6241	+.6567	+.4956	+.5290	+.2634	+.3398	- 4514	-.4014	+.4017	+.1922	+.2692	+.3503	+.3932	-.5685	+.4840	-.3681	+.4542	+.4334
Fiber length:																		
2.5% span.....inches	+.7387	+.6914	+.5059	+.6003	+.4151	+.4777	-.5855	-.4978	+.4740	+.1344	+.3568	+.3297	+.5390	-.6589	+.6305	-.6275	+.5733	+.6184
50/2.5 unif.....percent	+.6496	+.5740	+.0923	+.1844	+.4764	+.5137	-.6262	-.5934	+.5050	+.0971	+.3568	+.3044	+.2724	-.4825	+.3660	-.4634	+.5576	+.5472
Micronaire.....reading	+.6957	+.4174	-.1401	+.0050	+.7764	+.7736	-.7845	-.7339	+.6932	-.1437	+.5493	+.1274	+.2332	-.5347	+.3766	-.7519	+.7558	+.7860
Fiber strength:																		
Zero gauge....1,000 psi	+.1501	-.0998	-.6324	-.6361	+.3584	+.2601	-.2954	-.3292	+.1536	-.4949	+.2472	-.4316	-.4719	+.2270	-.4035	-.1454	+.1444	+.1556
1/8" gauge....grams/tex	+.0673	-.0317	-.2776	-.2250	+.3308	+.2853	-.2969	-.3182	+.0441	-.1472	-.0406	-.1902	-.2174	+.1319	-.2087	+.0003	-.0367	-.0165
Elongation (1/8")...pct	+.2578	+.3862	+.8105	+.8033	-.0965	-.0633	-.1212	-.1122	-.0048	+.3150	-.0706	+.3228	+.6628	-.6327	+.7121	-.2315	+.2766	+.2639
Shirley Analyzer:																		
Visible waste...percent	-.6461	-.4279	+.0142	-.0151	-.8172	-.8213	+.8917	+.8276	-.7504	+.0062	-.3547	-.1878	-.2515	+.6298	-.4340	+.6263	-.6442	-.6622
Total waste....percent	-.6446	-.3899	-.0039	-.0547	-.8486	-.8630	+.8469	+.7808	-.8301	-.0012	-.4579	-.2497	-.2923	+.6170	-.4555	+.6695	-.6691	-.6947
Color of raw stock:																		
Reflectance.....Rd	-.0740	+.1303	+.4921	+.4521	-.1714	+.0368	+.0595	+.1003	+.1112	+.9295	-.4935	+.7914	+.6111	-.3932	+.5527	+.2744	-.1710	-.2252
Yellowness.....+b	+.5184	+.2404	-.3089	-.1744	+.5299	+.4461	-.5183	-.4879	+.4094	-.5600	+.8673	-.1924	-.0479	+.1351	+.0257	-.7165	+.6188	+.6912
Composite.....index	+.0178	+.1811	+.4808	+.4882	-.0725	+.1288	-.0328	+.0276	+.2063	+.9069	-.3355	+.8441	+.6861	-.4678	+.6347	+.1480	-.0537	-.0983
Color of cleaned lint:																		
Reflectance.....Rd	-.0902	+.1389	+.4779	+.4751	-.2148	-.0468	+.1303	+.1697	-.0297	+.8958	-.5366	+.7377	+.5339	-.3712	+.5026	+.2857	-.1808	-.2345
Yellowness.....+b	+.4132	+.1743	-.3160	-.1987	+.3908	+.2641	-.4105	-.3930	+.2836	-.5940	+.8315	-.2525	-.0405	-.0280	-.0116	-.5632	+.4583	+.5249
Picker & card waste...pct	-.6520	-.4190	-.0138	-.0625	-.7957	-.8199	+.8276	+.7946	-.8018	-.0031	-.4329	-.2230	-.3251	+.6605	-.4984	+.6222	-.6539	-.6662
Neps in card web...number	-.7265	-.5068	+.0480	-.0435	-.8273	-.7788	+.8618	+.8357	-.6649	+.0319	-.4398	-.2004	-.1911	+.5807	-.3618	+.6637	-.6517	-.6862
Yarn skein strength:																		
22s (26.8 tex)...pounds		+.9006	+.2200	+.2764	+.5501	+.5187	-.7032	-.7096	+.5125	-.0809	+.4773	+.1552	+.3367	-.5635	+.4567	-.7210	+.6869	+.7276
50s (11.8 tex)...pounds	+.9006		+.4024	+.4559	+.2834	+.2622	-.4930	-.5118	+.3125	+.1024	+.2767	+.2601	+.3929	-.5416	+.4782	-.5527	+.5070	+.5438
Yarn elongation:																		
22s (26.8 tex)..percent	+.2200	+.4024		+.8747	-.1617	-.0541	+.0101	+.0712	+.0222	+.4639	-.1976	+.4204	+.6214	-.4790	+.6021	-.0846	+.1001	+.0948
50s (11.8 tex)..percent	+.2764	+.4559	+.8747		-.0958	-.0718	-.0293	+.0513	-.0215	+.4409	-.0751	+.4585	+.7127	-.5295	+.6903	-.2439	+.2097	+.2295
Yarn appearance:																		
22s (26.8 tex)....index	+.5501	+.2834	-.1617	-.0958		+.8840	-.8579	-.8120	+.7111	-.0983	+.3886	+.1046	+.0555	-.3756	+.1965	-.5153	+.5419	+.5579
50s (11.8 tex)....index	+.5187	+.2622	-.0541	-.0718	+.8840		-.8226	-.7726	+.7998	+.0838	+.2589	+.2411	+.1753	-.4928	+.3208	-.4056	+.5240	+.4983
Yarn imperfections:																		
22s (26.8 tex)...number	-.7032	-.4930	+.0101	-.0293	-.8579	-.8226		+.9595	-.7361	+.0417	-.4387	-.1795	-.1855	+.5949	-.3664	+.5628	-.6900	-.6704
50s (11.8 tex)...number	-.7096	-.5118	+.0712	+.0513	-.8120	-.7726	+.9595		-.7214	+.1049	-.3967	-.0806	-.1262	+.5457	-.3047	+.5140	-.6548	-.6257
Trash in fabric.....index	+.5125	+.3125	+.0222	-.0215	+.7111	+.7998	-.7361	-.7214		+.1242	+.2882	+.2871	+.2132	-.5585	+.3662	-.4273	+.5452	+.5123
Color-22s grey yarn:																		
Reflectance.....Rd	-.0809	+.1024	+.4639	+.4409	-.0983	+.0838	+.0417	+.1049	+.1242		-.4946	+.8897	+.5502	-.3730	+.5053	+.3004	-.1342	-.2108
Yellowness.....+b	+.4773	+.2767	-.1976	-.0751	+.3886	+.2589	-.4387	-.3967	+.2882	-.4946		-.0565	+.0346	-.1496	+.0827	-.6919	+.6049	+.6782
Composite.....index	+.1552	+.2601	+.4204	+.4585	+.1046	+.2411	-.1795	-.0806	+.2871	+.8897	-.0565		+.6318	-.5142	+.6152	-.0253	+.1658	+.1184
Color-22s bleached yarn:																		
Reflectance.....Rd	+.3367	+.3929	+.6214	+.7127	+.0555	+.1753	-.1855	-.1262	+.2132	+.5502	+.0346	+.6318		-.6626	+.9448	-.0313	+.3434	+.3323
Yellowness.....+b	-.5635	-.5416	-.4790	-.5295	-.3756	-.4928	+.5949	+.5457	-.5585	-.3730	-.1496	-.5142	-.6626		-.8629	+.5129	-.6983	-.6422
Composite.....index	+.4567	+.4782	+.6021	+.6903	+.1965	+.3208	-.3664	-.3047	+.3662	+.5053	+.0827	+.6152	+.9448	-.8629		-.4200	+.5221	+.4914
Color-22s dyed yarn:																		
Reflectance.....Rd	-.7210	-.5527	-.0846	-.2439	-.5153	-.4056	+.5628	+.5140	-.4273	+.3004	-.6919	-.0253	-.0313	+.5129	-.4200		-.8396	-.9388
Blueness.....-b	+.6869	+.5070	+.1001	+.2097	+.5419	+.5240	-.6900	-.6548	+.5452	-.1342	+.6049	+.1658	+.3434	-.6983	+.5221	-.8396		+.9741
Composite.....index	+.7276	+.5438	+.0948	+.2295	+.5579	+.4983	-.6704	-.6257	+.5123	-.2108	+.6782	+.1184	+.3323	-.6422	+.4914	-.9388	+.9741	

Table 12.--Cotton: Results of multiple correlation analyses for the relationship of classification and supplemental fiber test measurements with processing tests performed on 559 medium staple samples, collected at triweekly intervals from selected gin points, crop of 1963

Statistical Items	Dependent Variables													
			Yarn skein strength		Yarn elongation		Yarn appearance		Yarn imperfections		Trash in fabric	Color of 22s yarn		
	Picker & card waste	Neps in card web	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
Mean Values for:														
Dependent variable	6.6	22	108	37	6.0	4.7	110	98	26	20	90	97	104	107
Grade index	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Staple length	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
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 (O gauge)	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Uniformity ratio	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Standard Deviations (±) for:														
Dependent variable	1.0	9.3	9.1	4.6	.6	.5	9	7	9	7	8	3.9	2.8	4.9
Grade index	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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 (O gauge)	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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
Simple correlation Coef. for:														
Grade index	-.62	-.02	+.06	-.09	+.22	+.13	.00	+.13	-.47	-.38	+.40	+.68	+.40	+.49
Staple length	-.19	-.15	+.51	+.54	+.13	+.32	+.06	+.03	-.08	-.11	-.04	+.07	+.09	+.28
Micronaire	-.26	-.65	-.18	-.17	-.40	-.38	+.56	+.56	-.44	-.50	+.15	+.19	+.05	+.39
Fiber strength (O gauge)	+.03	-.30	+.36	+.43	-.46	-.26	+.30	+.19	+.08	.00	-.01	-.27	-.34	-.18
Uniformity ratio	-.18	-.41	+.46	+.41	+.06	+.17	+.28	+.41	-.38	-.45	+.15	+.05	-.04	+.26
Multiple Cor. Data for:														
DEPENDENT VARIABLE with GRADE INDEX, STAPLE LENGTH														
Multiple Cor. Coef.	.64	.15	.51	.55	.25	.34	.06	.14	.47	.39	.41	.69	.41	.55
Partial Cor. Coef. for:														
Grade index	-.62	-.01	+.03	-.14	+.21	+.12	.00	+.13	-.47	-.38	+.41	+.68	+.40	+.49
Staple length	-.19	-.15	+.51	+.55	+.12	+.32	+.06	+.03	-.06	-.09	-.06	+.05	+.08	+.29
Beta Coefficients for:														
Grade index	-.61	-.01*	+.03*	-.12	+.21	+.11*	.00*	+.13	-.47	-.38	+.41	+.68	+.40	+.47
Staple length	-.15	-.15	+.51	+.55	+.12*	+.31	+.06*	+.03*	-.05*	-.09*	-.06*	+.04*	+.07*	+.25
Regression Equation:														
Constant (a)	+27.01	+82.59	-92.36	-54.06	+.18	-2.69	+88.10	+66.55	+149.21	+114.11	+30.42	+26.93	+68.70	-1.90
Regression Coef. for:														
Grade index	-.15	-.03	+.06	-.14	+.03	+.01	-.01	+.24	-1.07	-.70	+.82	+.66	+.28	+.59
Staple length	-.18	-1.70	+5.73	+3.09	+.08	+.18	+.67	+.23	-.54	-.77	-.57	+.17	+.24	+1.52
Standard Error (±)	.74	9.18	7.83	3.86	.55	.44	8.57	7.14	8.06	6.76	7.24	2.81	2.51	4.12
DEPENDENT VARIABLE with GRADE INDEX, STAPLE LENGTH, MICRONAIRE														
Multiple Cor. Coef.	.65	.68	.55	.58	.53	.54	.57	.56	.59	.58	.41	.69	.41	.62
Partial Cor. Coef. for:														
Grade index	-.60	+.17	+.09	-.10	+.34	+.23	-.15	+.02	-.42	-.32	+.39	+.67	+.40	+.45
Staple length	-.19	-.17	+.53	+.56	+.16	+.36	+.06	+.01	-.05	-.09	-.07	+.05	+.08	+.29
Micronaire	-.16	-.67	-.24	-.20	-.48	-.45	+.57	+.54	-.39	-.46	+.08	+.06	-.04	+.33
Beta Coefficients for:														
Grade index	-.58	+.13	+.07*	-.08*	+.32	+.21	-.13	+.01*	-.39	-.28	+.39	+.67	+.41	+.41
Staple length	-.15	-.13	+.53	+.55	+.13	+.33	+.05*	+.01*	-.04*	-.07*	-.06*	+.03*	+.07*	+.24
Micronaire	-.12	-.67	-.21	-.17	-.48	-.43	+.58	+.55	-.36	-.44	+.07*	+.05*	-.04	+.29
Regression Equation:														
Constant (a)	+27.52	+109.69	-83.96	-50.60	+1.36	-1.81	+66.51	+49.33	+163.28	+127.91	+27.96	+26.15	+69.20	-8.00
Regression Coef. for:														
Grade index	-.14	+.31	+.17	-.10	+.05	+.02	-.28	+.02	-.90	-.52	+.78	+.65	+.29	+.51
Staple length	-.17	-1.48	+5.80	+3.12	+.09	+.19	+.49	+.09	-.43	-.66	-.59	+.16	+.24	+1.47
Micronaire	-.29	-1.52	-4.81	-1.98	-.67	-.50	+12.36	+9.86	-8.06	-7.90	+1.41	+.45	-.28	+3.49
Standard Error (±)	.73	6.85	7.60	3.78	.49	.39	7.04	5.99	7.40	6.00	7.22	2.81	2.51	3.89

* Statistically insignificant.

Table 12.--Continued

Statistical Items	Dependent Variable													
			Yarn skein strength		Yarn elongation		Yarn appearance		Yarn imperfections		Trash in fabric	Color of 22s yarn		
	Picker & card waste	Neps in card web	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
DEPENDENT VARIABLE with GRADE INDEX, STAPLE LENGTH, MICRONAIRE, FIBER STRENGTH (O GAUGE)														
Multiple Cor. Coef.	.65	.69	.64	.67	.66	.59	.60	.56	.59	.58	.42	.72	.51	.66
Partial Cor. Coef. for:														
Grade index	-.59	+.14	+.12	-.06	+.27	+.19	-.11	+.03	-.40	-.30	+.39	+.66	+.39	+.42
Staple length	-.18	-.13	+.48	+.52	+.28	+.42	.00	-.02	-.08	-.10	-.08	+.12	+.16	+.36
Micronaire	-.15	-.65	-.33	-.30	-.44	-.41	+.54	+.52	-.41	-.46	+.06	+.12	+.03	+.39
Fiber str. (O gauge)	.00	-.20	+.37	+.41	-.46	-.29	+.22	+.11	+.12	+.07	+.05	-.27	-.33	-.30
Beta Coefficients for:														
Grade index	-.58	+.10	+.10	-.05*	+.22	+.16	-.09*	+.03*	-.37	-.27	+.40	+.64	+.37	+.36
Staple length	-.15	-.09*	+.44	+.47	+.23	+.39	.00*	-.01*	-.06*	-.09*	-.07*	+.08*	+.15	+.30
Micronaire	-.12	-.64	-.28	-.25	-.39	-.38	+.54	+.53	-.38	-.45	+.06*	+.09*	+.03*	+.34
Fiber str. (O gauge)	.00*	-.15	+.33	+.36	-.41	-.26	+.20	+.10	+.11	-.06*	+.05	-.21	-.33	-.25
Regression Equation:														
Constant (a)	+27.50	+123.31	-104.04	-62.68	+3.82	-.71	+50.93	+42.82	+153.86	+123.41	+24.68	+32.85	+76.07	+3.69
Regression Coef. for:														
Grade index	-.14	-.24	+.22	-.06	+.03	+.02	-.21	+.05	-.85	-.50	+.80	+.63	+.26	+.45
Staple length	-.17	-1.07	+4.94	+2.64	+.16	+.22	+.01	-.12	-.71	-.80	-.71	+.40	+.50	+1.82
Micronaire	-.29	-14.78	-6.37	-2.84	-.55	-.43	+11.49	+9.48	-8.55	-8.14	+1.20	+.87	+.18	+4.13
Fiber str. (O gauge)	.00	-.29	+.62	+.34	-.05	-.03	+.35	+.15	+.20	+.10	+.08	-.17	-.18	-.25
Standard Error (±)	.73	6.71	7.05	3.44	.43	.38	6.86	5.95	7.35	5.98	7.21	2.70	2.36	3.71
DEPENDENT VARIABLE with GRADE INDEX, STAPLE LENGTH, MICRONAIRE, FIBER STRENGTH (O GAUGE), UNIFORMITY RATIO														
Multiple Cor. Coef.	.65	.71	.76	.76	.72	.70	.60	.60	.64	.65	.42	.72	.51	.67
Partial Cor. Coef. for:														
Grade index	-.59	+.17	+.07	-.14	+.23	+.14	-.12	.00	-.38	-.27	+.38	+.66	+.39	+.40
Staple length	-.18	-.12	+.53	+.55	+.28	+.44	.00	-.03	-.06	-.09	-.08	+.12	+.17	+.36
Micronaire	-.14	-.61	-.51	-.46	-.54	-.53	+.51	+.47	-.34	-.39	+.04	+.13	+.04	+.34
Fiber str. (O gauge)	-.01	-.14	+.27	+.33	-.55	-.42	+.20	+.04	+.20	+.18	+.03	-.25	-.31	-.33
Uniformity ratio	-.03	-.20	+.55	+.50	+.40	+.45	+.05	+.24	-.28	-.35	+.06	-.06	-.04	+.16
Beta Coefficients for:														
Grade index	-.58	+.13	+.04*	-.10	+.17	+.11	-.10*	.00*	-.33	-.23	+.39	+.65	+.38	+.35
Staple length	-.15	-.09*	+.41	+.44	+.21	+.36	.00*	-.03*	-.05*	-.07*	-.08*	+.09*	+.15	+.29
Micronaire	+.02*	-.60	-.42	-.37	-.49	-.50	+.53	+.47	-.30	-.35	+.04*	+.10	+.04*	+.30
Fiber str. (O gauge)	+.01	-.11	+.20	+.25	-.51	-.37	+.18	+.04*	+.18	+.15	+.03*	-.20	-.32	-.29
Uniformity ratio	-.03	-.16	+.48	+.42	+.34	+.41	+.05*	+.23	-.26	-.32	+.06*	-.04*	-.04*	+.14
Regression Equation:														
Constant (a)	+27.84	+143.32	-166.29	-89.75	+1.28	-3.30	+45.34	+20.70	+184.91	+154.93	+17.98	+35.21	+77.45	-5.38
Regression Coef. for:														
Grade index	-.14	+.30	+.10	-.11	+.02	+.01	-.22	.00	-.76	-.42	+.78	+.63	+.26	+.43
Staple length	-.17	-.97	+4.64	+2.51	+.15	+.21	-.01	-.23	-.55	-.64	-.74	+.41	+.51	+1.78
Micronaire	-.28	-13.70	-9.53	-4.24	-.70	-.58	+11.19	+8.30	-6.87	-6.44	+.85	+1.00	+.25	+3.64
Fiber str. (O gauge)	.00	-.21	+.37	+.23	-.60	-.04	+.32	+.06	+.33	+.23	+.06	-.16	-.18	-.29
Uniformity ratio	-.01	-.89	+2.62	+1.15	+.12	+.11	+.25	+.97	-1.39	-1.40	+.29	-.10	-.06	+.40
Standard Error (±)	.73	6.58	5.89	2.98	.40	.34	6.85	5.77	7.05	5.61	7.20	2.69	2.36	3.66

* Statistically insignificant.

Table 13.--Cotton: Results of multiple correlation analyses for the relationship of selected fiber test measurements with processing tests performed on 559 medium staple samples, collected at triweekly intervals from selected gin points, crop of 1963

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
Mean Values for:														
Dependent variable	6.6	22	108	37	6.0	4.7	110	98	26	20	90	97	104	107
Color index	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Nonlint content (S.A.)	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
Standard Deviations (+) for:														
Dependent variable	1.0	9.3	9.1	4.6	.6	.5	9	7	9	7	8	3.9	2.8	4.9
Color index	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Nonlint content (S.A.)	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
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)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Simple Correlation Coef. for:														
Color index	-.52	.00	+.07	-.03	+.28	+.23	+.02	+.09	-.39	-.29	+.37	+.85	+.49	+.55
Nonlint content (S.A.)	+.69	+.02	-.09	+.03	-.19	-.11	-.04	-.15	+.48	+.39	-.35	-.46	-.31	-.41
2.5% span length	-.14	-.07	+.49	+.50	+.28	+.42	-.02	-.01	-.08	-.08	-.05	+.11	+.13	+.35
Micronaire	-.26	-.65	-.18	-.17	-.40	-.38	+.56	+.56	-.44	-.50	+.15	+.19	+.05	+.39
Fiber str. (1/8" gauge)	+.04	-.24	+.66	+.72	-.12	+.14	+.19	+.12	+.09	+.01	-.06	-.18	-.25	+.05
Multiple Cor. Data for:														
DEPENDENT VARIABLE with COLOR INDEX, NONLINT														
Multiple Cor. Coef.	.70	.03	.09	.04	.28	.23	.04	.15	.50	.40	.41	.85	.50	.56
Partial Cor. Coef. for:														
Color index	-.22	+.01	+.02	-.01	+.22	+.20	-.01	.00	-.16	-.10	+.23	+.81	+.40	+.42
Nonlint	+.56	+.02	-.06	+.02	-.04	+.02	-.04	-.13	+.34	+.29	-.18	+.04	-.05	-.16
Beta Coefficients for:														
Color index	-.20	+.01*	+.02*	+.01*	+.26	+.25	-.01*	.00*	-.17*	-.11*	+.26	+.86	+.46	+.46
Nonlint	+.56	+.03*	-.08*	+.03*	-.04*	+.02*	-.05*	-.15*	+.38	+.33	-.20	+.03*	-.06*	-.16
Regression Equation:														
Constant (a)	+10.89	+17.97	+103.22	+38.67	+1.49	+1.06	+113.86	+100.65	+64.78	+37.45	+31.09	-7.56	+64.40	+38.11
Regression Coef. for:														
Color index	-.06	+.03	+.07	-.02	+.05	+.04	-.03	.00	-.49	-.25	+.65	+1.05	+.40	+.71
Nonlint	+.77	+.39	-.96	+.16	-.03	+.01	-.57	-1.51	+4.88	+3.40	-2.23	+.15	-.21	-1.08
Standard Error (+)	.68	9.29	9.10	4.62	.55	.45	8.58	7.12	7.91	6.72	7.25	2.04	2.39	4.08
DEPENDENT VARIABLE with COLOR INDEX, NONLINT, 2.5% SPAN LENGTH														
Multiple Cor. Coef.	.71	.08	3.50	.51	.37	.45	.05	.15	.50	.41	.42	.85	.50	.62
Partial Cor. Coef. for:														
Color index	-.21	+.02	-.07	-.11	+.18	+.15	-.01	.00	-.15	-.09	+.24	+.80	+.39	+.39
Nonlint	+.56	+.03	-.10	-.01	-.05	.00	-.04	-.12	+.35	+.29	-.17	+.05	-.06	-.18
2.5% span length	-.11	-.07	+.49	+.51	+.25	+.40	-.02	-.02	-.04	-.06	-.11	-.05	+.06	+.33
Beta Coefficients for:														
Color index	-.18	+.03*	-.07*	-.12*	+.21	+.17	-.01*	.00*	-.16*	-.10*	+.28	+.87	+.45	+.41
Nonlint	+.58	+.03*	-.11*	-.01*	-.06*	.00*	-.05*	-.15	+.39	+.34	-.19	+.03*	-.06*	-.17
2.5% span length	-.08*	-.07*	+.50	+.52	+.24	+.39	-.02*	-.02*	-.03*	-.05*	-.10*	-.03*	+.05*	+.27
Regression Equation:														
Constant (a)	+13.02	+37.01	-19.24	-26.36	-2.23	-3.87	+119.03	+104.20	+72.98	+48.07	+52.82	-4.68	+60.35	+1.60
Regression Coef. for:														
Color index	-.06	+.08	-.21	-.17	+.04	+.02	-.02	+.01	-.48	-.22	+.70	+1.06	+.39	+.63
Nonlint	+.78	+.44	-1.36	-.05	-.05	.00	-.56	-1.50	+4.91	+3.44	-2.15	+.16	-.23	-.20
2.5% span length	-2.51	-22.39	+143.98	+76.45	+4.38	+5.80	-6.08	-4.18	-9.64	-12.48	-25.55	-3.38	+4.76	+42.92
Standard Error (+)	.68	9.26	7.92	3.96	.53	.42	8.57	7.12	7.90	6.71	7.21	2.04	2.39	3.85

* 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	Index	Index	Index
DEPENDENT VARIABLE with COLOR INDEX, NONLINT, 2.5% SPAN LENGTH, MICRONAIRE														
Multiple Cor. Coef.	.72	.67	.54	.54	.59	.62	.56	.56	.61	.58	.42	.85	.50	.69
Partial Cor. Coef. for:														
Color index	-.20	+.06	-.05	-.09	+.25	+.21	-.04	-.03	-.15	-.08	+.24	+.80	+.39	+.40
Nonlint	+.55	-.10	-.14	-.04	-.15	-.09	+.06	-.05	+.31	+.25	-.16	+.07	-.06	-.13
2.5% span length	-.12	-.10	+.50	+.52	+.28	+.44	-.03	-.02	-.04	-.06	-.11	-.05	+.06	+.35
Micronaire	-.14	-.67	-.23	-.19	-.50	-.47	+.56	+.54	-.39	-.46	+.08	+.16	-.04	+.36
Beta Coefficients for:														
Color index	-.18	+.05*	-.05*	-.10*	+.25	+.21	-.04*	-.03*	-.15*	-.08*	+.27	+.87	+.46	+.39
Nonlint	+.56	-.09*	-.15	-.04*	-.15	-.08*	-.06*	-.05*	+.32	+.26	-.18*	+.04*	-.07*	-.12
2.5% span length	-.08*	-.08*	+.50	+.52	+.24	+.39	-.02*	-.02*	-.03*	-.05*	-.10*	-.03*	-.05*	+.27
Micronaire	-.10	-.68	-.21	-.17	-.48	-.43	+.58	+.55	-.35	-.43	-.07*	+.06*	-.04*	+.29
Regression Equation:														
Constant (a)	+13.97	+101.12	-4.07	-20.03	+.09	-2.19	+72.68	+66.89	+103.75	+79.11	+47.49	-6.96	+61.39	-12.22
Regression Coef. for:														
Color index	-.05	+.16	-.15	-.14	+.05	+.03	-.12	-.07	-.42	-.18	+.68	+1.06	+.40	+.61
Nonlint	+.75	-1.21	-1.86	-.25	-.12	-.05	+.74	-.46	+4.08	+2.61	-2.01	+.23	-.26	-.82
2.5% span length	-2.51	-22.34	+143.99	+76.46	+4.38	+5.80	-6.11	-4.20	-9.62	-12.46	-25.56	-3.38	+4.76	+42.91
Micronaire	-.24	-15.66	-4.67	-1.94	-.67	-.50	+12.24	+9.82	-7.86	-7.81	+3.40	+.60	-.27	+3.55
Standard error (±)	.67	6.91	7.71	3.89	.46	.37	7.09	5.98	7.27	5.96	7.19	2.02	2.38	3.59
DEPENDENT VARIABLE with COLOR INDEX, NONLINT, 2.5% SPAN LENGTH, MICRONAIRE, FIBER STRENGTH (1/8" GAUGE)														
Multiple Cor. Coef.	.72	.68	.80	.83	.60	.63	.58	.56	.62	.59	.42	.85	.54	.69
Partial Cor. Coef. for:														
Color index	-.19	+.03	+.13	+.09	+.22	+.24	-.01	-.01	-.12	-.06	+.24	+.79	+.36	+.39
Nonlint	+.55	-.11	-.17	-.03	-.15	-.08	+.07	-.04	+.32	+.25	-.16	+.06	-.07	-.13
2.5% span length	-.12	-.05	+.43	+.48	+.30	+.39	-.07	-.04	-.08	-.08	-.11	-.01	+.13	+.33
Micronaire	-.15	-.66	-.44	-.43	-.49	-.49	+.55	+.53	-.41	-.46	+.08	+.13	-.01	+.36
Fiber str. (1/8" gauge)	+.04	-.17	+.70	+.75	-.12	+.17	+.14	+.07	+.14	+.07	+.00	-.12	-.23	+.01
Beta Coefficients for:														
Color index	-.17	+.02*	+.10	+.06*	+.23	+.24	-.01*	-.01*	-.12*	-.06*	+.27	+.85	+.41	+.39
Nonlint	+.56	-.10*	-.13	-.02*	-.15	-.08*	-.07*	-.04*	+.32	+.26	-.18*	+.04*	-.07*	-.12
2.5% span length	-.09*	-.04*	+.31	+.32	+.27	+.35	-.06*	-.04*	-.07*	-.07*	-.10*	-.01*	+.12	+.27
Micronaire	-.11	-.66	-.30	-.27	-.46	-.45	+.56	+.54	-.37	-.44	-.07*	-.07	-.01*	+.29
Fiber str. (1/8" gauge)	+.03*	-.13	+.63	+.68	-.10*	+.14	+.13	-.06*	+.12	-.06*	.00*	-.07	-.22	.00*
Regression Equation:														
Constant (a)	+13.70	+113.33	-62.88	-51.90	+.66	-2.86	+61.88	+62.44	+92.83	+74.44	+47.22	-4.35	+67.36	-12.41
Regression Coef. for:														
Color index	-.05	+.07	+.28	+.09	+.04	+.04	-.04	-.03	-.34	-.14	+.69	+1.04	+.35	+.61
Nonlint	+.75	-1.26	-1.62	-.13	-.12	-.05	+.78	-.44	+4.12	+2.63	-2.01	+.21	-.28	-.82
2.5% span length	-2.77	-10.69	+89.68	+47.00	+4.91	+5.18	-16.30	-8.40	-19.97	-16.90	-25.81	-.92	+10.41	+42.73
Micronaire	-.25	-15.19	-6.87	-3.13	-.65	-.53	+11.82	+9.65	-8.27	-7.99	+1.39	+.70	-.04	+3.54
Fiber str. (1/8" gauge	+.02	-.82	+3.80	+2.06	-.04	+.04	+.71	+.29	+.72	+.31	+.02	-.17	-.39	+.01
Standard Error (±)	.67	6.81	5.51	2.57	.46	.36	7.02	5.97	7.20	5.94	7.19	2.01	2.32	3.59

* 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 is the length of a typical portion of the fibers in the samples as determined by the classer. 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 menufacturing 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

Below 42.....Very low uniformity
42 to 43.....Low uniformity
44 to 45.....Average uniformity
46 to 47.....High uniformity
Above 47.....Very high uniformity

Data source - 2066 American upland lots tested from crop of 1958-60 for M/UHM and 2897 American upland lots tested from crop of 1960-62 for 50/2.5.

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 26.....Very low variation
26 to 29.....Low variation
30 to 33.....Average variation
34 to 37.....High variation
Above 37.....Very high variation

Data source - 830 American upland lots tested from crops of 1958-60.

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 3.5.....Very low
3.5 to 3.9.....Low
4.0 to 4.4.....Average
4.5 to 5.0.....High
Above 5.0.....Very high

Data source - 2897 American upland lots tested from crops of 1960-62.

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 zero gauge tests. Results for both methods are reported, however, because the zero gauge tests are still widely used by the cotton industry.

The results for the zero 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 zero gauge fiber strength results reported and will facilitate comparisons between cottons:

Fiber Strength (0 Gauge)

Thousand psi	Designation	Grams per tex
Below 70	Very low strength	Below 34
70 to 76	Low strength	34 to 37
77 to 83	Average strength	38 to 41
84 to 90	High strength	42 to 45
Above 90	Very high strength	Above 45

Data source - 2897 American upland lots tested from crops of 1960-1962.

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 and 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)

Group Numbers and Staple Length	Average Strength grams per tex
American upland:	
Group 1.--Short staple	20
Group 2.--Medium staple	22
Group 3.--Long staple	24
American Egyptian:	
Group 4.--Extra long staple	33

Data source - 2897 American upland lots tested from crops 1960-62 and 158 American Egyptian lots tested from crops of 1956-60.

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:

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

$$(2) \quad S_6 = \frac{S_4}{0.217}$$

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 fiber strength tests by using the Stelometer instrument 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 these recent 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)

Designation	Percent
Very low	4.8 and below
Low	4.9 to 5.7
Average	5.8 to 6.6
High	6.7 to 7.5
Very high	7.6 and above

Data source - 1991 American upland lots tested from the crops of 1961-62.

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. Tests performed in recent years on samples of cotton from the bales used in the standards and from surveys of the crop, show the following average relationship of Shirley Analyzer nonlint to grade:

Average nonlint content for white grades of upland cotton

Grade of cotton	Nonlint content Percent
Good Middling	1.5
Strict Middling	1.6
Middling	2.2
Strict Low Middling	3.1
Low Middling	4.5
Strict Good Ordinary	5.8

Data source - 2897 American upland lots tested from crops of 1960-62.

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

Grade of cotton	Nonlint content Percent
1	1.1
2	1.9
3	2.7
4	3.6
5	4.4
6	5.3

Data source - 158 American Egyptian lots tested from the crops of 1956-60

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 procedure adopted in 1962 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

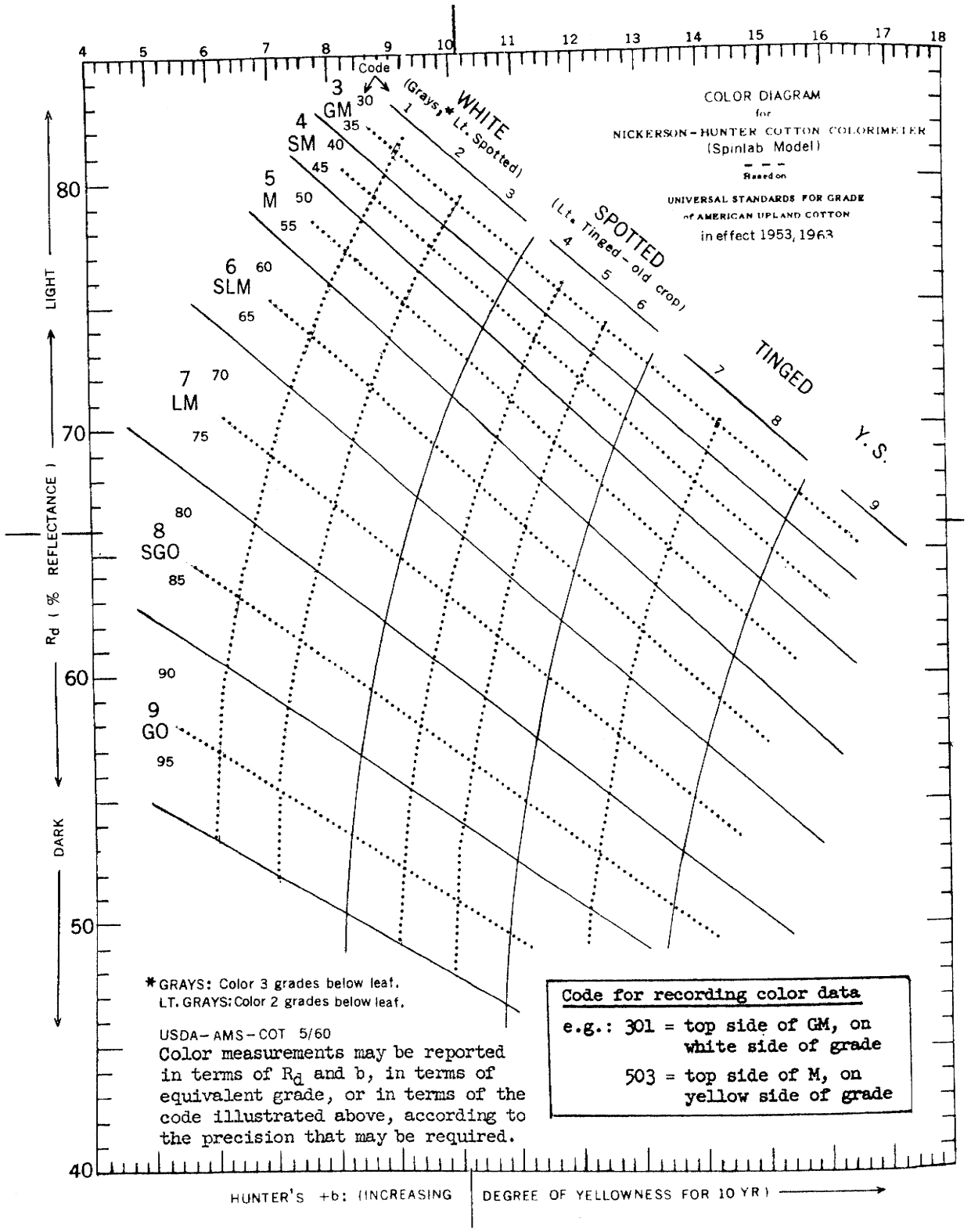

Fig. 2.--Code for relating color measurements of raw cotton to the color of American upland grade standards.

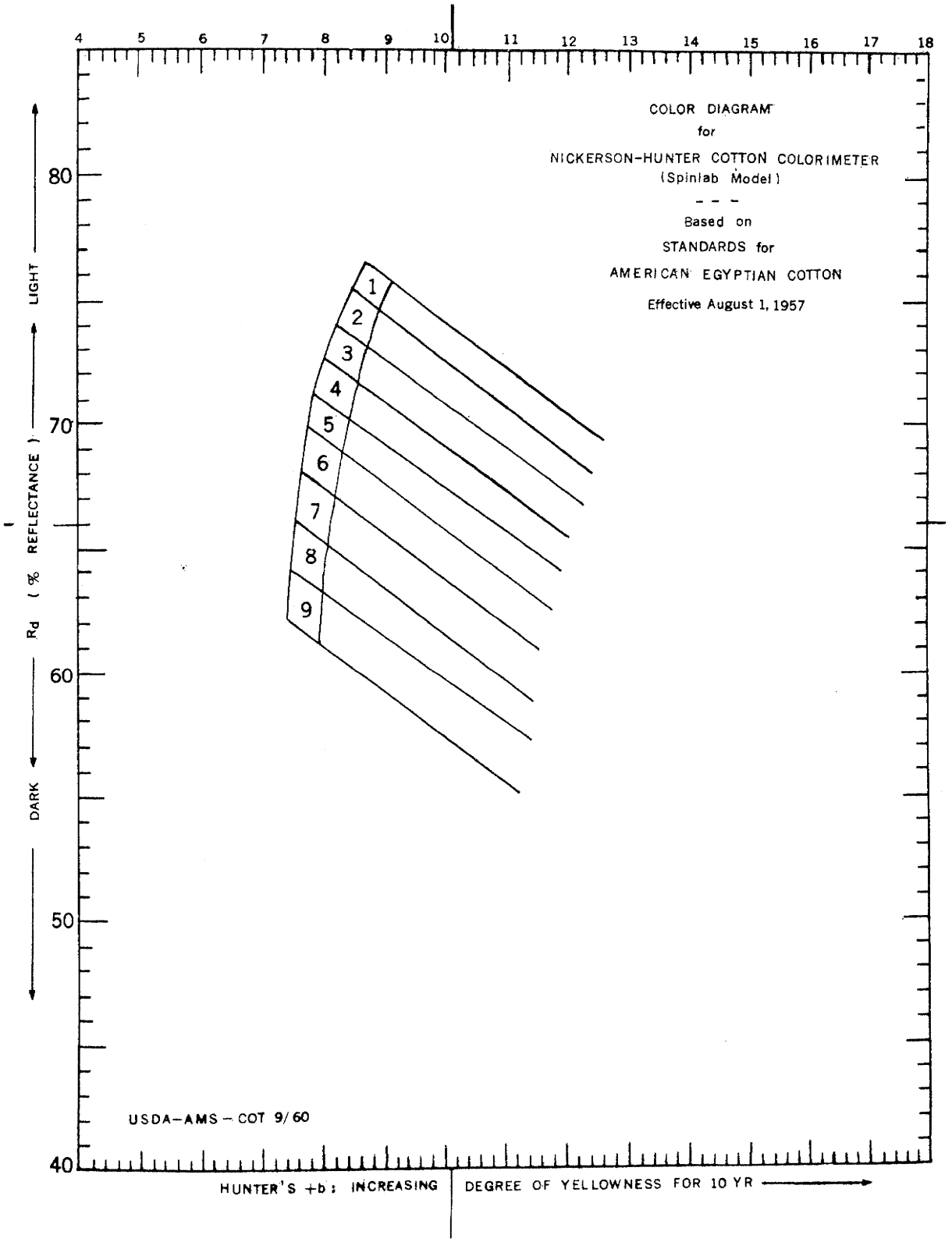

Fig. 3.--Diagram for relating color measurements of raw cotton to the color of American Egyptian grade standards.

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 80 yarns
    d. Appearance of carded and combed yarns
    e. Imperfections in carded and combed yarns

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. Tests performed in recent years on samples of cotton from bales used in the Standards and from surveys of the crop, show the following average relationship of picker and card waste to grade:

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

Process	Staple length groups			
	Short	Medium	Long	Extra long
5. COMBER (Model D-4)				
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
6. DRAWING FRAME (synthetic top rolls)				
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 1/:	4/16	4/16	4/16	4/16
Second to third.....inches plus fiber length 1/:	7/16	7/16	7/16	7/16
Third to fourth.....inches plus fiber length 1/:	10/16	10/16	10/16	10/16
7. LONG DRAFT ROVING (8 x 4, 2 apron type)				
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.p.m.:	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 1/:	1/4	1/4	1/4	1/4
8. LONG DRAFT SPINNING (two apron type)				
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 2/:	8s & 22s	22s & 50s	22s & 50s	-
Combed yarns.....number:	-	-	22s & 50s	50s & 80s
Spindle speed.....r.p.m. 3/:	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.

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

Process	Staple length groups			
	Short	Medium	Long	Extra long
1. PICKER				
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	Kirschner	Kirschner	2-blade
Beater speed....r.p.m.	1,000	1,000	1,000	1,000
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
2. CARD				
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
3. SLIVER LAPPER (combed only)				
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/	-	-	5/16	5/16
Second to third....inches plus fiber length 1/	-	-	9/16	9/16
4. RIBBON LAPPER (combed only)				
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/	-	-	4/16	4/16
Second to third....inches plus fiber length 1/	-	-	7/16	7/16
Third to fourth....inches plus fiber length 1/	-	-	10/16	10/16

For footnotes see next page.

American upland grade	Average picker and card waste (percent)	American Egyptian grade	Average picker and card waste (percent)
Good Middling	6.3	1	7.0
Strict Middling	6.4	2	8.5
Middling	7.1	3	10.0
Strict Low Middling	8.2	4	11.4
Low Middling	9.7	5	12.9
Strict Good Ordinary	11.2	6	14.4

Data source - 2897 lots tested from crops of 1960-62 for American upland and 158 lots tested from crops of 1956-60 for American Egyptian.

The percentage of waste removed by the comber is reported in addition to the picker and card waste for cottons processed into combed yarn. The shorter staple cottons are processed through the comber with a closer 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.....17 and below
Average.....17 to 32
High.....33 to 50
Very high.....above 50

Data source - 2897 lots tested from crops of 1960-62.

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. There is an average relationship between yarn strength and staple length but it varies for the individual cottons because of differences on the characteristics of the fiber. Tests performed in recent years on samples of cotton from bales used in the standards and from surveys of the crop have shown approximately the following relationship of yarn strength to staple length:

Type of cotton, kind of yarn and staple length group	Average yarn skein strength		
	Coarse (pounds)	Fine (pounds)	Average (lb. x No.)
American upland:			
Carded yarns:			
Short staple	294 (8s)	93 (22s)	2199
Medium staple	108 (22s)	38 (50s)	2138
Long staple	130 (22s)	48 (50s)	2630
Combed yarns:			
Long staple	143 (22s)	53 (50s)	2898
American Egyptian:			
Combed yarns:			
Extra long staple	71 (50s)	40 (80s)	3375

Data source - 2897 American upland lots tested from crops of 1960-62 and 158 American Egyptian lots tested from the crops of 1956-60.

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 and 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. Tests performed in recent years on samples of cotton from bales used in the standards and from surveys of the crop have shown approximately the following relationship of yarn appearance to staple length:

Type of cotton, kind of yarn and staple length group	Average yarn appearance		
	Course (index)	Fine (index)	Average (index)
American upland:			
Carded yarns:			
Short staple	111 (8s)	100 (22s)	106
Medium staple	107 (22s)	95 (50s)	101
Long staple	102 (22s)	91 (50s)	96
Combed yarns:			
Long staple	108 (22s)	99 (50s)	104
American Egyptian:			
Combed yarns:			
Extra long staple	117 (50s)	108 (80s)	112

Where: A grade = 130 index, B+ = 120, B = 110, C+ = 100, C = 90, D+ = 80, D = 70, and BG = 60.

Data source - 2897 American upland lots tested from crops of 1960-62 and 158 American Egyptian lots tested from crops of 1956-60.

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 though 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:

Type of cotton, kind of yarn and staple length group	Average yarn imperfections		
	Course (number)	Fine (number)	Average (number)
American upland:			
Carded yarns:			
Short staple	62 (8s)	41 (22s)	52
Medium staple	27 (22s)	19 (50s)	23
Long staple	27 (22s)	21 (50s)	24
Combed yarns:			
Long staple	19 (22s)	16 (50s)	18

Data source - 2897 lots tested from the crops of 1960-62.

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.

Tests performed in recent years on samples of cotton from surveys of the crop have shown approximately the following relationship between spinning potential yarn number and staple length:

Type of cotton and staple length group	Average spinning potential Yarn number
American upland:	
Short staple	41.3
Medium staple	58.8
Long staple	73.9

Data source - 1097 American upland lots tested from crops of 1961-62.

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:

Type of cotton, kind of yarn and staple length group	Average trash in fabric index
American upland:	
Carded yarns:	
Short staple	84
Medium staple	89
Long staple	92
Combed yarns:	
Long staple	105

Where: A grade = 130 index, B+ = 120, B = 110, C+ = 100, C = 90, D+ = 80, D = 70, and BG = 60.

Data source - 2535 American upland lots tested from crops of 1960-62.

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 Hunterlab 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

Gray	Mercerized	Adjective description
Below 33	Below 40	Low
33 - 34	40 - 44	Average
Above 34	Above 44	High