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Estimates of Performance of Cotton Varieties in Southeast Missouri 1969-71

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CONTENTS

ACKNOWLEDGMENT	2
INTRODUCTION	3
DEFINITION OF OBSERVATIONS	4
Agronomic Properties	4
Disease Reactions	5
Boll and Ginning	5
Fiber and Spinning Quality Determinations	5
STATISTICAL INTERPRETATION OF DATA FOR SIGNIFICANCE ...	6
TEST RESULTS	7

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W. P. SAPPENFIELD, L. E. TREECE, J. N. WARD AND D. R. GUETHLE*

INTRODUCTION

Estimates of comparative varietal performance can be gained from reliable variety trials. Estimates are most valid when derived from trials conducted during several seasons at locations representing production environmental variables within the region. During 1969-71 climatic variables in southeast Missouri, within and among seasons, were diverse and extreme often modifying or exaggerating varietal response to the already diversified soil and disease conditions existing at the test sites. However, 1971 produced one of the most productive cotton crops in the history of southeast Missouri cotton.

Variety test results serve as guides to cotton growers for the selection of varieties best adapted to their particular farms. Test results also serve to assist breeders in the evaluation of the performance of new varieties and the determination of successful breeding methods, materials, and characteristics needed to extend varietal adaptation to meet the constant pressures of nature and the consuming public.

Reported herein are results of general variety tests, 1969-71, that included approved commercial varieties, new varieties and experimental strains grown on (1) sandy loam, wilt-free, usually non-irrigated soils, (2) sandy loam, *Verticillium* infested, irrigated soils, (3) clay soils, free of wilt, and irrigated, (4) sandy, irrigated soil infested with *Fusarium* and Root-Knot nematodes. Performance estimates are given for nine varieties grown at the four locations over the 3-year period, 1969-71. Estimates for 16 varieties grown only in 1971 are presented. Also reported are 1971 results of varieties and strains grown in the Missouri Regional Variety and High Quality Strains Test.

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DEFINITION OF OBSERVATIONS

Agronomic Properties

1. *Seed Cotton Yield* is reported in pounds per acre.
2. *Total Lint Yield* is expressed in pounds per acre.
3. *Lint Yield, First Pick*, is reported in pounds per acre of lint produced by time of first picking.
4. *Stand* is the average number of hills per plot for each variety for all replications after uniform thinning to three plants per hill, when possible. Spacing between hills was 12-14" but in heavy clay and late-planted trials, hills were spaced 10-12" apart.
5. *Days to First Flower* is the average number of days from planting to first flower.
6. *Seedling Vigor Index* is an average visual rating of vigorousness from seedling to first flower.

4 = excellent

3 = good

2 = fair

1 = poor

7. *Height Index* is an average visual rating of height made just prior to harvest.

3 = approximately 60 inches

2 = approximately 40 inches

1 = approximately 20 inches

8. *Lodging Index* is an average visual rating made prior to harvest.

4 = plants upright and rigid

3 = plants showing slight arch

2 = plants showing moderate arch

1 = plants showing moderate arch and some root lodging

0 = plants showing severe root lodging and semi-prostrate position

9. *Storm Resistance Index* is average visual estimate of the degree of bur retention of locks.

4 = excessive storm resistance, tight bolls or tight locks

3 = bolls fluffed, little stringing-out of locks

2 = bolls fluffed, moderate stringing-out of locks

1 = "pan-cake" or flat open-bolls, with excessive stringing-out and some ground loss

Disease Reactions

10. *Verticillium Wilt* reactions were rated as follows:

5 = resistant

4 = very tolerant

3 = tolerant

2 = susceptible

1 = very susceptible

11. *Fusarium Wilt* is expressed as the average percent of plants dead or showing wilt symptoms by September 1 in all replications of only the *Fusarium Wilt-Root Knot* trials.

12. *Bacterial Blight Incidence* is an average visual estimate of the incidence of leaf, stem and boll infection.

5 = no infection

4 = mild infection

3 = moderate infection

2 = severe infection

1 = very severe infection

Boll and Ginning

13. *Seed Index* is a measure of seed size, expressed as the gram weight of 100 seeds.

14. *Seed Grade* is an estimate of the amount and length of linters and ease of ginning. Standard grades ranged from 0 = naked seeds to 9 = seeds having dense, long tufted seed fuzz, and exhibiting slow ginning characteristics.

15. *Lint Percent* =
$$\frac{\text{Gram weight of ginned lint}}{\text{Gram weight of seed cotton sample}}$$

16. *Lint Index* is the gram weight of the lint on 100 seed, calculated from means of:

$$\frac{\text{Percent Lint} \times \text{Seed Index}}{\text{Percent Seed}}$$

17. *Boll Weight* is the gram weight per boll of seed cotton.

Fiber and Spinning Quality Determinations

18. *2.5% Span Length* is the average length of fiber, in inches, of two determinations on the raw fiber sample using the Fibro-sample and Digital Fibrograph. Two and five-tenths percent of the fibers caught in the sample holder will extend this length or further, thereby approximating the Servo-Fibrograph Upper-Half-Mean (UHM) and the Classer's Staple.

19. *50% Span Length* is the average length of fiber, in inches, of two determinations on the raw fiber sample using the Fibro-sample and Digital Fibrograph.

Fifty percent of the fibers caught in the sample holder will extend this length or further.

20. *Length Uniformity Index* is determined by:

$$\frac{50\% \text{ Span Length} \times 100}{2.5\% \text{ Span Length}}$$

Values obtained usually range between 33 and 48 for cotton. High values indicate high uniformity of fiber length.

21. *Micronaire* is a measure of fiber fineness or coarseness.

4.9 and above = coarse

3.5 to 4.8 = premium range

3.4 and below = fine and often immature

22. *Colorimeter Rd Values* as measured by the colorimeter indicate the degree of brightness and are expressed in percent reflectance. Increasing values of Rd' indicate increasing brightness of sample. Colorimeter values may be useful as indicators of weathering and fiber deterioration.

23. *Colorimeter b values* as measured by the colorimeter indicate the degree of yellowness and increasing values of b indicate increasing yellowness of fiber.

24. *Trash* as estimated on a scale: (1) low trash through (5) high trash.

25. *Yarn Strength* is the average breaking strength in pounds of 20 determinations corrected to a yarn number of 27.0 tex and is in terms of the standard skein. The greater the value, the stronger the yarn. Yarn strength of 130 and above is considered superior and 110, inferior.

26. *Yarn Tenacity* is the strength of 27 tex yarn expressed as grams force per tex.

STATISTICAL INTERPRETATION OF DATA FOR SIGNIFICANCE

All data were analyzed statistically at the University of Missouri-Columbia Computer Research Center. All observations were analyzed using the randomized block analysis of variance method, except 1971 total lint yield and yield of lint at first picking for which the balanced lattice square analysis of variance method was used.

The Duncan's Multiple Range Test of Significance for .05 probability for variety mean values is given. Means or values followed by the same letter are not significantly different. Means or values not followed by the same letter are significantly different.

MiLSR (.05) = Minimum least significant range for Duncan's Multiple Range Test (.05) probability.

MaLSR (.05) = Maximum least significant range for Duncan's Multiple Range Test (.05) probability.

C.V.% = Coefficient of variation

TEST RESULTS

Table 1. Methods, Cultural Practices and Conditions of Cotton Variety Trials in Southeast Missouri, 1971

	Location and Test						
	Sandy Loam	Sandy Loam	Clay	Fine Sand	Sandy Loam	Sandy Loam	Regional
	Wilt-free	Verticillium	Wilt-free	Fusarium Wilt-	Wilt-free	Wilt-free	Variety &
		Wilt		Root Knot	Late Planted		Hi-Quality
	(7111)	(7122)	(7133)	(7144)	(7151)	(71156)	(71101)
Condition	Portageville	Portageville	Portageville	Portageville	Portageville	Sikeston	Portageville
Soil Texture	Sandy Loam	Sandy Loam	Clay(gumbo)	Fine Sand	Sandy Loam	Sandy Loam	Sandy Loam
				Fine Sandy Loam			
Fusarium Wilt-Root Knot	None	None	None	Very Light	None	None	None
Verticillium Wilt	Trace	Severe	Trace	None	None	None	None
Bacterial Blight	Severe-Moderate	Moderate	Moderate	Trace	Moderate	Moderate-Severe	Moderate
Cercospora-Alternaria	Light	Moderate	Light	Light	Light	Light	Light
Leaf Spot							
Plot Design ^{1/}	4 x 4 BLS	4 x 4 BLS	4 x 4 BLS	4 x 4 BLS	4 x 4 BLS	4 x 4 BLS	5 x 5 BLS
Replications - Yield	5	5	5	5	5	5	6
Stand - Disease							
Replications (Others)	2	2	2	2	2	2	3
Plot Size ^{2/}	2 rows x 50'	4 rows x 50'	4 rows x 50'	4 rows x 50'	2 rows x 50'	4 rows x 50'	2 rows x 38'
Hill Spacing ^{3/}	10-12"	10-12"	10-12"	12-14"	12-14"	10-12"	10-12"
Date Planted ^{4/}	May 3	May 4	April 30	May 18	May 19	May 4	May 10
Fertilizer ^{5/}	80+50+50	80+50+50	80+50+50	80+50+50	80+50+50	45+36+72	80+50+50
Weed Control	Treflan Preplant+Post Emergence MSA (3 app)	Treflan+MSA+Sweeps	Treflan+MSA+Sweeps	Treflan+MSA+Sweeps	Treflan, Cotoran	Treflan+MSA	Treflan+MSA
	+Wide Sweep Middle Cult.		Wide		Cotoran Plus	+Sweeps	
Irrigations	None	None	None	None	None	None	None
Insecticide App.	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended
Defoliant Applied ^{6/}	9/9; 9/30	9/30	9/29	9/10; 10/6	9/29; 10/19	9/9; 10/5	9/9; 10/5
Seed Cotton Samples ^{5/}	Machine	Machine	Machine	Machine	Machine	Machine	Machine
Harvesting	Machine	Machine	Machine	Machine	Machine	Machine	Machine
Date 1st Pick	Oct. 12	Oct. 13	Oct. 12	Oct. 22	Oct. 29	Oct. 29	Oct. 13
Date 2nd Pick	Nov. 8	Nov. 8	Nov. 5	Nov. 9			Nov. 8

^{1/}BLS = Balanced lattice square. RB = Randomized block.

^{2/}Middle two rows were harvested from 4-row plots.

^{3/}Acid-delinted, fungicide treated seed of all varieties obtained directly for respective originating breeders, were hill-dropped using a 4-row V-belt planter. Where possible hills were uniformly thinned to 3 plants.

^{4/}50+50+50 applied broadcast preplant; additional fertilizers applied were sidedressed mid-June to July 1

^{5/}Machine picked samples were collected as random "grab" samples taken from the total plot yield in two replications for each variety at first picking. Hand picked 25-boll samples were collected from two replications of the sandy loam wilt-free trials in 1971 for seed and boll characteristics (7111).

^{6/}Bottom defoliation, 1st date; full defoliation, 2nd date.

Table 2. Methods, Cultural Practices and Conditions of Cotton Variety Trials in Southeast Missouri, 1970.

Conditions	Test or Location					Variety & Regional Hi-Quality
	Sandy Loam Wilt-free	Sandy Loam Verticillium Wilt	Clay Wilt-free	Sandy Fusarium Wilt-Root-Knot		
Soil Texture	Sandy loam	Sandy loam	Clay (Gumbo)	Sand		Sandy loam
Fusarium Wilt-Root Knot	None	None	None	Light-Moderate		None
Verticillium Wilt	Traces	Severe	None	None		Traces
Bacterial Blight	Severe	Severe	Severe	Very Severe		Very Severe
Cercospora-Alternaria Leaf Spot	Moderate	Moderate	Moderate	Moderate		Moderate
Plot Design	RB	RB	RB	RB		RB
Replications yield-stand-disease	5	5	5	5		6
Replications other observations	2	2	2	2		3
Plot Size	2 rows x 50'	4 rows x 50'	4 rows x 50'	4 rows x 33'		2 rows x 38'
Hill Spacing	12-14"	12-14"	10-12"	12-14"		12-14"
Date Planted	May 6 & 20	May 7	May 6	May 4		May 6
Fertilizer	75+50+50	75+50+50	75+50+50	75+75+75		75+50+50
Weed Control		Treflan + Wide Sweep	Cultivation	of Middles		
Irrigations	None	2	1	2		2
Insecticide Applied	Recommended	Recommended	Recommended	Recommended		Recommended
Defoliant Applied	Sept. 14	Sept. 14	Oct. 23	Sept. 29		Sept. 14
Seed Cotton Sample	Machine	Machine	Machine	Machine		Machine
Harvesting	Machine	Machine	Machine	Machine		Machine
Date 1st Pick	Sept. 28	Oct. 6	Nov. 8	Oct. 9		Sept. 28
Date 2nd Pick	Nov. 3	Nov. 4	-----	Nov. 5		Nov. 3

Table 3. Methods, Cultural Practices and Conditions of Cotton Variety Trials in Southeast Missouri, 1969.

Conditions	Test or Location				
	Sandy Loam Wilt-free	Sandy Loam Verticillium Wilt	Clay Wilt-free	Sandy Fusarium Wilt- Root Knot	Regional Hi-Quality
Soil Texture	Sandy loam	Sandy loam	Clay (gumbo)	Sand	Sandy loam
Fusarium Wilt- Root Knot	None	None	None	Moderate	None
Verticillium Wilt	None	Moderate-Severe	None	None	None
Bacterial Blight	Light	Light	Light	Light	Light-Moderate
Cercospora-Alternaria Leaf Spot	Light	Light	Light	Light	Light
Plot Design	RB	RB	RB	RB	RB
Replications yield-stand-disease	5	5	5	5	3
Replications other observations	2	2	2	2	3
Plot Size	2 rows x 50'	4 rows x 50'	4 rows x 50'	4 rows x 33'	2 rows x 38'
Hill Spacing	12-14"	12-14"	12-14"	12-14"	12-14"
Date Planted	May 6	May 7	May 5	May 8	May 6
Fertilizer	80+50+50	80+50+50	100+50+50	80+80+80	80+50+50
Weed Control		Treflan + Wide	Sweep	Cultivation of Middles	
Irrigations	None	2	2	3	2
Insecticide Applied	Recommended	Recommended	Recommended	Recommended	Recommended
Defoliant Applied	Sept. 26	Oct. 9	Oct. 3	Oct. 6	Sept. 26
Seed Cotton Sample	Machine	Machine	Machine	Machine	Machine
Harvesting	Machine	Machine	Machine	Machine	Machine
Date 1st Pick	Sept. 29	Oct. 15	Oct. 16	Oct. 17	Sept. 29
Date 2nd Pick	Nov. 1	Nov. 6	Nov. 5	Nov. 7	Nov. 1

Table 4. Summary of Performance of Cotton Varieties Grown in Southeast Missouri, Combining Four Locations, 1969-71

Variety or Strain	Lint Yield		Percent of Crop	Lint Percent	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
Delcot 277	1001.75 a	910.96	91	37.63	1.18	3.98	118.25
Coker 310	902.85 b	810.55	90	37.85	1.20	4.40	111.92
Deltapine 16	895.21 bc	757.74	85	37.18	1.16	4.30	108.08
Deltapine 45A	881.90 bcd	756.23	86	37.76	1.11	4.35	108.87
Stoneville 213	860.69 cd	735.85	85	37.12	1.11	4.53	102.46
Stoneville 7A	855.65 de	690.56	81	37.97	1.14	4.45	105.29
Rex Smoothleaf 66	847.27 de	738.02	87	35.05	1.13	4.10	103.71
Auburn M	821.12 ef	743.69	91	35.00	1.11	4.13	103.67
MO-DEL	794.07 f	694.33	87	34.84	1.15	4.32	112.21
Mean	873.39	759.77	87	36.71	1.14	4.29	108.27
MI LSR (.05)	33.29	31.51		.51	.01	.07	1.83
Ma LSR (.05)	39.18	37.09		.60	.01	.08	2.15
C. V. %	10.66	11.60		2.45	1.65	2.79	2.98

Table 5. Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri, Combining Four Locations, 1969-71.

Variety	Seed Cotton Lbs/Acre		Variety	Total Lint Lbs/Acre	
Delcot 277	2666.26	a	Delcot 277	1001.75	a
Rex Smoothleaf 66	2412.07	b	Coker 310	902.85	b
Deltapine 16	2406.82	b	Deltapine 16	895.21	bc
Coker 310	2390.69	bc	Deltapine 45A	881.90	bcd
Auburn M	2337.51	bcd	Stoneville 213	860.69	cd
Deltapine 45A	2334.46	bcd	Stoneville 7A	855.65	de
Stoneville 213	2298.75	cd	Rex Smoothleaf 66	847.27	de
MO-DEL	2273.12	d	Auburn M	821.12	ef
Stoneville 7A	2250.88	d	MO-DEL	794.07	f

Variety	Lint-Lbs/Acre 1st Pick		Variety	Stand Hills/Plot	
Delcot 277	910.96	a	Deltapine 16	91.25	a
Coker 310	810.55	b	Deltapine 45A	90.85	a
Deltapine 16	757.74	c	Stoneville 213	90.42	ab
Deltapine 45A	756.23	c	Stoneville 7A	90.28	ab
Auburn M	743.69	c	Coker 310	90.20	ab
Rex Smoothleaf 66	738.02	c	MO-DEL	90.12	ab
Stoneville 213	735.85	c	Delcot 277	89.72	ab
MO-DEL	694.33	d	Auburn M	89.40	ab
Stoneville 7A	690.56	d	Rex Smoothleaf 66	88.45	b

Variety	1st Flower-Days	
Deltapine 45A	64.67	a
Deltapine 16	64.65	a
Stoneville 7A	64.62	a
Delcot 277	64.37	ab
Rex Smoothleaf 66	63.85	ab
Stoneville 213	63.50	abc
MO-DEL	63.23	bc
Coker 310	62.38	cd
Auburn M	61.30	d

Table 5. Continued

Variety	Verticillium Wilt Rating ^{1/}
Delcot 277	4.06 a
Deltapine 45A	3.39 b
Deltapine 16	3.31 b
Stoneville 7A	3.19 bc
Stoneville 213	2.95 cd
MO-DEL	2.89 d
Rex Smoothleaf 66	2.78 d
Auburn M	2.45 e
Coker 310	2.24 e

Variety	Fusarium Wilt % Plants ^{2/}
Stoneville 7A	24.60 a
Stoneville 213	24.10 a
Rex Smoothleaf 66	8.50 b
Deltapine 16	7.30 b
MO-DEL	7.30 b
Coker 310	6.50 b
Deltapine 45A	6.30 b
Auburn M	5.20 b
Delcot 277	2.10 b

Variety	Bacterial Blight Incidence ^{3/}
Rex Smoothleaf 66	4.85 a
MO-DEL	4.28 b
Stoneville 7A	4.08 bc
Deltapine 45A	3.95 cd
Deltapine 16	3.93 cd
Delcot 277	3.78 de
Coker 310	3.75 de
Stoneville 213	3.70 e
Auburn M	3.20 f

Variety	Seedling Vigor Index
Delcot 277	3.65 a
MO-DEL	3.63 a
Coker 310	3.53 ab
Deltapine 45A	3.50 ab
Stoneville 213	3.50 ab
Stoneville 7A	3.37 bc
Auburn M	3.25 cd
Deltapine 16	3.18 d
Rex Smoothleaf 66	3.15 d

Variety	Height Index
MO-DEL	2.32 a
Coker 310	2.20 ab
Stoneville 7A	2.14 b
Deltapine 45A	2.10 b
Delcot 277	2.08 bc
Stoneville 213	2.07 bc
Deltapine 16	1.94 c
Auburn M	1.60 d
Rex Smoothleaf 66	1.47 d

^{1/} From Verticillium wilt test 1969-71.

^{2/} From Fusarium wilt test 1969-70.

^{3/} 1970-71 only.

Table 5. Continued

Variety	Lodging Index	Variety	Storm Resistance Index
MO-DEL	2.95 a	MO-DEL	3.00 a
Coker 310	2.88 ab	Coker 310	2.82 b
Stoneville 7A	2.83 ab	Stoneville 213	2.80 b
Stoneville 213	2.80 abc	Stoneville 7A	2.75 b
Deltapine 16	2.75 bc	Deltapine 16	2.73 b
Deltapine 45A	2.65 c	Delcot 277	2.45 c
Delcot 277	2.35 d	Deltapine 45A	2.40 cd
Rex Smoothleaf 66	2.07 e	Auburn M	2.28 de
Auburn M	1.97 e	Rex Smoothleaf 66	2.22 e

Variety	Seed Index ^{1/}	Variety	Seed Grade ^{1/}
Rex Smoothleaf 66	13.95 a	Stoneville 213	8.00 a
MO-DEL	13.80 a	Stoneville 7A	8.00 a
Delcot 277	12.80 b	Delcot 277	8.00 a
Auburn M	12.10 c	Coker 310	8.00 a
Stoneville 213	11.40 d	Deltapine 45A	7.75 ab
Stoneville 7A	11.20 d	Auburn M	7.75 ab
Coker 310	11.10 d	MO-DEL	7.75 ab
Deltapine 45A	11.05 d	Deltapine 16	7.50 b
Deltapine 16	11.00 d	Rex Smoothleaf 66	7.50 b

Variety	Lint Percent
Stoneville 7A	37.97 a
Coker 310	37.85 a
Deltapine 45A	37.76 a
Delcot 277	37.63 ab
Deltapine 16	37.18 b
Stoneville 213	37.12 b
Rex Smoothleaf 66	35.05 c
Auburn M	35.00 c
MO-DEL	34.84 c

^{1/} From wilt-free, non-irrigated, sandy loam test, 1970-71.

Table 5. Continued

Variety	Boll Weight ^{1/}	Variety	50% Span Length
Rex Smoothleaf 66	7.60 a	Delcot 277	0.52 a
MO-DEL	7.33 a	Deltapine 16	0.51 ab
Delcot 277	7.20 a	MO-DEL	0.51 ab
Auburn M	6.58 b	Coker 310	0.51 ab
Coker 310	6.45 bc	Deltapine 45A	0.50 bc
Deltapine 16	6.28 bc	Stoneville 7A	0.50 bc
Stoneville 213	6.25 bc	Stoneville 213	0.49 c
Stoneville 7A	6.23 bc	Auburn M	0.49 c
Deltapine 45A	6.00 c	Rex Smoothleaf 66	0.49 c

Variety	2.5% Span Length	Variety	Length Uniformity Index
Coker 310	1.20 a	Deltapine 45A	44.71 a
Delcot 277	1.18 b	MO-DEL	44.33 ab
Deltapine 16	1.16 c	Stoneville 213	43.79 bc
MO-DEL	1.15 cd	Delcot 277	43.79 bc
Stoneville 7A	1.14 de	Deltapine 16	43.67 bc
Rex Smoothleaf 66	1.13 e	Auburn M	43.58 c
Stoneville 213	1.11 f	Stoneville 7A	43.29 c
Auburn M	1.11 f	Rex Smoothleaf 66	43.12 cd
Deltapine 45A	1.11 f	Coker 310	42.54 d

Variety	Micronaire
Stoneville 213	4.53 a
Stoneville 7A	4.45 b
Coker 310	4.40 bc
Deltapine 45A	4.35 cd
MO-DEL	4.32 d
Deltapine 16	4.30 d
Auburn M	4.13 e
Rex Smoothleaf 66	4.10 e
Delcot 277	3.98 f

^{1/} From wilt-free, non-irrigated, sandy loam test, 1970-71.

Table 5. Continued

Variety	Colorimeter Rd	Variety	Colorimeter b
Deltapine 16	73.08 a	MO-DEL	8.35 a
Stoneville 7A	71.71 b	Delcot 277	8.27 a
Deltapine 45A	71.33 bc	Stoneville 213	8.12 b
Rex Smoothleaf 66	71.08 bcd	Coker 310	8.10 b
Auburn M	70.83 cd	Rex Smoothleaf 66	8.10 b
Stoneville 213	70.58 d	Auburn M	7.98 bc
Delcot 277	70.50 de	Deltapine 45A	7.92 cd
Coker 310	69.87 ef	Stoneville 7A	7.83 de
MO-DEL	69.42 f	Deltapine 16	7.77 e

Variety	Trash	Variety	Yarn Strength 22's
Coker 310	3.54 a	Delcot 277	118.25 a
Deltapine 45A	3.50 a	MO-DEL	112.21 b
Delcot 277	3.50 a	Coker 310	111.92 b
MO-DEL	3.50 a	Deltapine 45A	108.87 c
Auburn M	3.37 ab	Deltapine 16	108.08 c
Stoneville 213	3.37 ab	Stoneville 7A	105.29 d
Rex Smoothleaf 66	3.37 ab	Rex Smoothleaf 66	103.71 de
Stoneville 7A	3.33 ab	Auburn M	103.67 de
Deltapine 16	3.17 b	Stoneville 213	102.46 e

Variety	Yarn Tenacity 27 Tex ^{1/}
Delcot 277	13.46 a
MO-DEL	12.89 b
Coker 310	12.80 b
Deltapine 45A	12.65 bc
Deltapine 16	12.45 c
Stoneville 7A	12.08 d
Stoneville 213	12.06 d
Auburn M	12.06 d
Rex Smoothleaf 66	12.06 d

^{1/} 1971 only.

Table 6. Summary of Performance of Cotton Varieties Grown in Southeast Missouri on Sandy Loam, Wilt-free, Non-irrigated Soil, 1969-71

Variety or Strain	Lint Yield		Percent of Crop	Lint Percent	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
Delcot 277	1084.16 a	1003.73	93	37.12	1.16	3.95	117.83
Stoneville 213	1061.78 ab	897.62	85	37.37	1.10	4.70	103.67
Coker 310	1036.74 abc	932.84	90	37.62	1.18	4.62	114.50
Stoneville 7A	1008.59 abc	806.38	80	38.15	1.13	4.65	106.50
Deltapine 16	997.86 bcd	853.42	86	37.15	1.14	4.52	109.33
Deltapine 45A	966.50 cd	807.57	84	37.42	1.10	4.50	110.67
Auburn M	961.09 cd	877.72	91	34.95	1.11	4.25	106.50
Rex Smoothleaf 66	954.30 cd	867.09	91	34.58	1.14	4.25	104.00
MO-DEL	918.63 d	811.97	88	34.68	1.13	4.52	113.67
Mean	998.85	873.15	88	36.56	1.13	4.44	109.63
MiLSR (.05)	75.01	73.86		.91	.02	.14	3.74
MaLSR (.05)	87.38	86.04		1.05	.02	.16	4.32
C. V. %	10.18	11.47		2.08	1.54	2.69	2.86

Table 7. Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri on Sandy Loam, Wilt-free, Non-irrigated Soil, 1969-71.

Variety	Seed Cotton Lbs/Acre
Delcot 277	2927.28 a
Stoneville 213	2834.65 ab
Coker 310	2754.87 abc
Rex Smoothleaf 66	2747.53 abc
Auburn M	2742.03 abc
Deltapine 16	2676.92 bc
MO-DEL	2653.07 bc
Stoneville 7A	2647.57 bc
Deltapine 45A	2577.87 c

Variety	Total Lint Lbs/Acre
Delcot 277	1084.16 a
Stoneville 213	1061.78 ab
Coker 310	1036.74 abc
Stoneville 7A	1008.59 abc
Deltapine 16	997.86 bcd
Deltapine 45A	966.50 cd
Auburn M	961.09 cd
Rex Smoothleaf 66	954.30 cd
MO-DEL	918.63 d

Variety	Lint-Lbs/Acre 1st Pick
Delcot 277	1003.73 a
Coker 310	932.84 ab
Stoneville 213	897.62 b
Auburn M	877.72 bc
Rex Smoothleaf 66	867.09 bc
Deltapine 16	853.42 bc
MO-DEL	811.97 c
Deltapine 45A	807.57 c
Stoneville 7A	806.38 c

Variety	Stand Hills/Plot
Deltapine 16	95.67 a
Deltapine 45A	94.87 ab
MO-DEL	94.13 abc
Stoneville 213	93.33 abcd
Stoneville 7A	93.27 abcd
Coker 310	93.00 abcd
Delcot 277	92.53 bcd
Auburn M	91.53 cd
Rex Smoothleaf 66	91.33 d

Variety	1st Flower-Days
Deltapine 45A	64.47 a
Stoneville 213	64.27 a
Deltapine 16	64.20 a
Delcot 277	64.20 a
Stoneville 7A	64.00 a
Rex Smoothleaf 66	63.80 a
MO-DEL	63.60 a
Coker 310	63.53 a
Auburn M	59.67 b

Table 7. Continued

Variety	Bacterial Blight ^{1/} Incidence	Variety	Seedling Vigor Index
Rex Smoothleaf 66	4.90 a	MO-DEL	3.87 a
Stoneville 7A	4.50 ab	Stoneville 213	3.73 ab
MO-DEL	4.30 bc	Delcot 277	3.73 ab
Deltapine 16	4.10 bc	Deltapine 16	3.67 abc
Stoneville 213	4.10 bc	Coker 310	3.67 abc
Deltapine 45A	4.00 bc	Auburn M	3.53 abc
Coker 310	3.90 c	Stoneville 7A	3.47 bc
Delcot 277	3.90 c	Deltapine 45A	3.40 bc
Auburn M	3.20 d	Rex Smoothleaf 66	3.33 c

Variety	Height Index
MO-DEL	2.30 a
Stoneville 213	2.17 a
Stoneville 7A	2.10 a
Coker 310	2.07 a
Delcot 277	2.07 a
Deltapine 45A	2.03 a
Auburn M	1.70 b
Deltapine 16	1.67 b
Rex Smoothleaf 66	1.57 b

Variety	Lodging Index
MO-DEL	2.80 a
Stoneville 7A	2.73 a
Stoneville 213	2.73 a
Coker 310	2.67 ab
Deltapine 16	2.47 abc
Deltapine 45A	2.33 bcd
Delcot 277	2.13 cd
Auburn M	2.00 d
Rex Smoothleaf 66	2.00 d

Variety	Storm Resistance Index
MO-DEL	3.07 a
Stoneville 7A	2.93 ab
Coker 310	2.73 bc
Deltapine 45A	2.67 bcd
Deltapine 16	2.60 cd
Stoneville 213	2.53 cd
Delcot 277	2.53 cd
Auburn M	2.47 cd
Rex Smoothleaf 66	2.40 d

^{1/} 1970-71 only

Table 7 Continued

Variety	Seed Index ^{1/}	Variety	Seed Grade ^{1/}
Rex Smoothleaf 66	13.95 a	Stoneville 213	8.00 a
MO-DEL	13.80 a	Stoneville 7A	8.00 a
Delcot 277	12.80 b	Delcot 277	8.00 a
Auburn M	12.10 c	Coker 310	8.00 a
Stoneville 213	11.40 d	Deltapine 45A	7.75 ab
Stoneville 7A	11.20 d	Auburn M	7.75 ab
Coker 310	11.10 d	MO-DEL	7.75 ab
Deltapine 45A	11.05 d	Deltapine 16	7.50 b
Deltapine 16	11.00 d	Rex Smoothleaf 66	7.50 b

Variety	Lint Percent	Variety	Boll Weight ^{1/}
Stoneville 7A	38.15 a	Rex Smoothleaf 66	7.60 a
Coker 310	37.62 ab	MO-DEL	7.33 a
Deltapine 45A	37.42 ab	Delcot 277	7.20 a
Stoneville 213	37.37 ab	Auburn M	6.58 b
Deltapine 16	37.15 ab	Coker 310	6.45 bc
Delcot 277	37.12 b	Deltapine 16	6.28 bc
Auburn M	34.95 c	Stoneville 213	6.25 bc
MO-DEL	34.68 c	Stoneville 7A	6.23 bc
Rex Smoothleaf 66	34.58 c	Deltapine 45A	6.00 c

Variety	50% Span Length
MO-DEL	0.51 a
Coker 310	0.51 a
Delcot 277	0.51 a
Stoneville 7A	0.50 a
Rex Smoothleaf 66	0.50 a
Deltapine 16	0.50 a
Stoneville 213	0.49 a
Auburn M	0.49 a
Deltapine 45A	0.49 a

^{1/} 1970-71 only

Table 7 Continued

Variety	2.5% Span Length
Coker 310	1.18 a
Delcot 277	1.16 ab
Rex Smoothleaf 66	1.14 bc
Deltapine 16	1.14 bc
MO-DEL	1.13 cd
Stoneville 7A	1.13 cd
Auburn M	1.11 de
Stoneville 213	1.10 e
Deltapine 45A	1.10 e

Variety	Length Uniformity Index
MO-DEL	44.50 a
Stoneville 213	44.50 a
Auburn M	44.33 a
Deltapine 45A	44.33 a
Stoneville 7A	44.00 a
Deltapine 16	44.00 a
Coker 310	43.50 a
Delcot 277	43.33 a
Rex Smoothleaf 66	43.17 a

Variety	Micronaire
Stoneville 213	4.70 a
Stoneville 7A	4.65 ab
Coker 310	4.62 ab
MO-DEL	4.52 b
Deltapine 16	4.52 b
Deltapine 45A	4.50 b
Rex Smoothleaf 66	4.25 c
Auburn M	4.25 c
Delcot 277	3.95 d

Variety	Colorimeter Rd
Deltapine 16	73.33 a
Stoneville 7A	72.83 ab
Deltapine 45A	72.17 abc
Rex Smoothleaf 66	72.17 abc
Stoneville 213	71.67 bc
Auburn M	71.50 bcd
Delcot 277	71.33 bcd
MO-DEL	71.00 cd
Coker 310	70.17 d

Variety	Colorimeter b
MO-DEL	8.42 a
Delcot 277	8.33 ab
Coker 310	8.25 abc
Auburn M	8.17 bc
Rex Smoothleaf 66	8.08 cd
Stoneville 213	8.08 cd
Stoneville 7A	7.92 de
Deltapine 45A	7.92 de
Deltapine 16	7.83 e

Table 7 Continued

Variety	Trash	Variety	Yarn Strength 22's
Coker 310	3.67 a	Delcot 277	117.83 a
Deltapine 45A	3.50 ab	Coker 310	114.50 ab
Delcot 277	3.50 ab	MO-DEL	113.67 b
Stoneville 7A	3.50 ab	Deltapine 45A	110.67 bc
Rex Smoothleaf 66	3.50 ab	Deltapine 16	109.33 cd
Deltapine 16	3.50 ab	Stoneville 7A	106.50 de
MO-DEL	3.50 ab	Auburn M	106.50 de
Auburn M	3.33 b	Rex Smoothleaf 66	104.00 e
Stoneville 213	3.33 b	Stoneville 213	103.67 e

Variety	Yarn Tenacity 27 Tex ^{1/}
Delcot 277	13.65 a
Coker 310	12.85 b
MO-DEL	12.85 b
Deltapine 45A	12.75 b
Deltapine 16	12.55 bc
Stoneville 7A	12.25 bc
Stoneville 213	12.00 c
Auburn M	12.00 c
Rex Smoothleaf 66	11.95 c

^{1/} 1971 only

Table 8. Summary of Performance of Cotton Varieties Grown in Southeast Missouri on Sandy Loam, Irrigated Soil Infected with *Verticillium* Wilt Disease, 1969-71

Variety or Strain	Lint Yield		Percent of Crop	Lint Percent	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
Delcot 277	1125.06 a	1013.63	90	38.05	1.18	3.72	116.17
Deltapine 16	983.83 b	824.17	84	36.80	1.15	3.97	105.33
Deltapine 45A	894.69 c	783.91	88	37.72	1.10	3.95	105.50
Coker 310	868.65 cd	805.18	93	37.70	1.19	3.92	109.50
Stoneville 7A	859.02 cde	705.50	82	37.62	1.14	4.10	101.00
Stoneville 213	830.04 de	716.41	86	36.12	1.11	4.17	98.17
Rex Smoothleaf 66	827.56 de	746.68	90	34.87	1.12	3.65	100.50
MO-DEL	805.83 e	723.11	90	34.27	1.13	3.72	110.00
Auburn M	803.63 e	739.52	92	34.60	1.11	3.77	102.83
Mean	888.70	784.23	88	36.41	1.14	3.88	105.44
MLSR (.05)	56.42	56.11		.93	.02	.18	3.89
MaLSR (.05)	65.73	65.36		1.07	.02	.20	4.48
C. V. %	8.61	9.70		2.14	1.59	3.80	3.09

Table 9. Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri on Sandy Loam, Irrigated Soil Infected with *Verticillium* Wilt Disease, 1969-71.

Variety	Seed Cotton Lbs/Acre	Variety	Total Lint Lbs/Acre
Delcot 277	2967.63 a	Delcot 277	1125.06 a
Deltapine 16	2674.17 b	Deltapine 16	983.83 b
Rex Smoothleaf 66	2365.11 c	Deltapine 45A	894.69 c
Deltapine 45A	2361.45 c	Coker 310	868.65 cd
MO-DEL	2334.85 c	Stoneville 7A	859.02 cde
Auburn M	2319.26 c	Stoneville 213	830.04 de
Coker 310	2291.75 c	Rex Smoothleaf 66	827.56 de
Stoneville 213	2284.41 c	MO-DEL	805.83 e
Stoneville 7A	2267.90 c	Auburn M	803.63 e

Variety	Lint-Lbs/Acre 1st Pick	Variety	Stand Hills/Plot
Delcot 277	1013.63 a	Deltapine 16	94.73 a
Deltapine 16	824.17 b	Stoneville 213	94.53 ab
Coker 310	805.18 bc	Coker 310	93.80 abc
Deltapine 45A	783.91 bcd	Deltapine 45A	93.60 abc
Rex Smoothleaf 66	746.68 cde	Delcot 277	93.60 abc
Auburn M	739.52 de	Stoneville 7A	93.33 abc
MO-DEL	723.11 de	MO-DEL	93.27 abc
Stoneville 213	716.41 e	Auburn M	92.40 bc
Stoneville 7A	705.50 e	Rex Smoothleaf 66	92.27 c

Variety	1st Flower Days	Variety	Verticillium Wilt Rating
Delcot 277	64.07 a	Delcot 277	4.06 a
Stoneville 7A	64.07 a	Deltapine 45A	3.39 b
Deltapine 16	64.07 a	Deltapine 16	3.31 b
Rex Smoothleaf 66	64.00 a	Stoneville 7A	3.19 bc
Deltapine 45A	63.73 a	Stoneville 213	2.95 cd
MO-DEL	62.60 a	MO-DEL	2.89 d
Coker 310	62.20 a	Rex Smoothleaf 66	2.78 d
Auburn M	61.73 a	Auburn M	2.45 e
Stoneville 213	59.67 a	Coker 310	2.24 e

Variety	Bacterial Blight Incidence ^{1/}
Rex Smoothleaf 66	4.80 a
MO-DEL	4.30 b
Deltapine 45A	3.70 c
Deltapine 16	3.60 c
Coker 310	3.50 cd
Stoneville 7A	3.50 cd
Stoneville 213	3.50 cd
Delcot 277	3.50 cd
Auburn M	3.10 d

^{1/} 1970-71 only

Table 9 Continued

Variety	Seedling Vigor Index
MO-DEL	3.87 a
Delcot 277	3.87 a
Coker 310	3.80 a
Deltapine 45A	3.80 a
Stoneville 213	3.80 a
Stoneville 7A	3.73 a
Rex Smoothleaf 66	3.40 b
Deltapine 16	3.33 b
Auburn M	3.33 b

Variety	Height Index
Stoneville 7A	2.43 a
Stoneville 213	2.23 ab
MO-DEL	2.20 b
Coker 310	2.10 b
Deltapine 45A	2.10 b
Deltapine 16	2.10 b
Delcot 277	2.00 b
Auburn M	1.37 c
Rex Smoothleaf 66	1.23 c

Variety	Lodging Index
Stoneville 7A	2.93 a
Stoneville 213	2.73 ab
Coker 310	2.67 ab
Deltapine 16	2.67 ab
MO-DEL	2.60 ab
Deltapine 45A	2.53 b
Delcot 277	2.13 c
Rex Smoothleaf 66	1.73 d
Auburn M	1.47 d

Variety	Storm Resistance Index
MO-DEL	3.67 a
Stoneville 213	3.00 b
Coker 310	2.93 bc
Stoneville 7A	2.80 bc
Deltapine 16	2.67 cd
Deltapine 45A	2.47 d
Delcot 277	2.47 d
Rex Smoothleaf 66	2.40 de
Auburn M	2.13 e

Variety	Lint Percent
Delcot 277	38.05 a
Deltapine 45A	37.72 ab
Coker 310	37.70 ab
Stoneville 7A	37.62 ab
Deltapine 16	36.80 bc
Stoneville 213	36.12 c
Rex Smoothleaf 66	34.87 d
Auburn M	34.60 d
MO-DEL	34.27 d

Variety	50% Span Length
Delcot 277	0.52 a
MO-DEL	0.50 ab
Deltapine 16	0.49 b
Coker 310	0.49 b
Deltapine 45A	0.49 b
Stoneville 7A	0.48 b
Stoneville 213	0.48 b
Auburn M	0.48 b
Rex Smoothleaf 66	0.48 b

Variety	2.5% Span Length
Coker 310	1.19 a
Delcot 277	1.18 a
Deltapine 16	1.15 b
Stoneville 7A	1.14 bc
MO-DEL	1.13 bcd
Rex Smoothleaf 66	1.12 cde
Stoneville 213	1.11 de
Auburn M	1.11 de
Deltapine 45A	1.10 e

Table 9 Continued

Variety	Length Uniformity Index
Deltapine 45A	44.33 a
MO-DEL	44.00 ab
Delcot 277	43.33 abc
Auburn M	42.83 abcd
Stoneville 213	42.83 abcd
Rex Smoothleaf 66	42.50 bed
Deltapine 16	42.33 cd
Stoneville 7A	42.17 cd
Coker 310	41.33 d

Variety	Colorimeter Rd
Deltapine 16	73.50 a
Deltapine 45A	71.33 b
Stoneville 7A	71.33 b
Rex Smoothleaf 66	71.17 b
Auburn M	70.67 bc
Delcot 277	70.33 bc
Coker 310	70.33 bc
Stoneville 213	69.67 c
MO-DEL	69.50 c

Variety	Trash
Deltapine 45A	3.67 a
Coker 310	3.67 a
Delcot 277	3.50 a
MO-DEL	3.50 a
Auburn M	3.33 ab
Rex Smoothleaf 66	3.33 ab
Stoneville 7A	3.17 ab
Stoneville 213	3.17 ab
Deltapine 16	2.83 b

Variety	Micronaire
Stoneville 213	4.17 a
Stoneville 7A	4.10 ab
Deltapine 16	3.97 b
Deltapine 45A	3.95 bc
Coker 310	3.92 bc
Auburn M	3.77 cd
MO-DEL	3.72 d
Delcot 277	3.72 d
Rex Smoothleaf 66	3.65 d

Variety	Colorimeter b
Stoneville 213	8.25 a
Delcot 277	8.25 a
Rex Smoothleaf 66	8.17 ab
MO-DEL	8.17 ab
Deltapine 45A	8.08 ab
Coker 310	8.00 ab
Stoneville 7A	7.92 b
Deltapine 16	7.92 b
Auburn M	7.92 b

Variety	Yarn Strength 22's
Delcot 277	116.17 a
MO-DEL	110.00 b
Coker 310	109.50 b
Deltapine 45A	105.50 c
Deltapine 16	105.33 c
Auburn M	102.83 cd
Stoneville 7A	101.00 de
Rex Smoothleaf 66	100.50 de
Stoneville 213	98.17 e

Variety	Yarn Tenacity 27 Tex ^{1/}
Delcot 277	13.20 a
MO-DEL	13.10 ab
Coker 310	12.75 abc
Deltapine 45A	12.55 abc
Deltapine 16	12.50 abc
Rex Smoothleaf 66	12.30 bc
Auburn M	12.20 c
Stoneville 213	12.15 c
Stoneville 7A	11.90 c

1/ 1971 only

Table 10. Summary of Performance of Cotton Varieties Grown in Southeast Missouri on Heavy Clay, Wilt-free, Irrigated Soil, 1969-71

Variety or Strain	Lint Yield		Percent of Crop	Lint Percent	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
Deltapine 16	752.27 a	616.27	82	37.13	1.17	4.57	108.83
Delcot 277	750.53 a	654.14	87	37.32	1.19	4.23	122.50
Stoneville 7A	735.49 ab	589.12	80	38.02	1.15	4.73	109.17
Stoneville 213	734.20 ab	608.38	83	37.70	1.13	4.73	107.50
Coker 310	714.21 ab	613.24	86	37.78	1.20	4.70	114.50
Deltapine 45A	708.80 b	587.38	83	37.68	1.12	4.55	112.33
Rex Smoothleaf 66	671.11 c	539.05	80	34.68	1.14	4.40	106.67
MO-DEL	593.43 d	500.53	84	35.07	1.16	4.55	114.83
Auburn M	578.12 d	509.25	88	34.90	1.13	4.33	106.67
Mean	693.13	579.71	84	36.70	1.15	4.53	111.44
MI _{LSR} (.05)	36.18	32.16		.90	.02	.11	2.79
Ma _{LSR} (.05)	42.14	37.47		1.04	.03	.13	3.21
C. V. %	7.08	7.52		2.05	1.61	2.02	2.10

Table 11. Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri on Heavy Clay Wilt-free, Irrigated Soil, 1969-71.

Variety	Seed Cotton Lbs/Acre	Variety	Total Lint Lbs/Acre
Deltapine 16	2034.97 a	Deltapine 16	752.27 a
Delcot 277	2012.04 a	Delcot 277	750.53 a
Stoneville 213	1959.77 ab	Stoneville 7A	735.49 ab
Stoneville 7A	1952.43 ab	Stoneville 213	734.20 ab
Rex Smoothleaf 66	1941.43 ab	Coker 310	714.21 ab
Coker 310	1892.82 b	Deltapine 45A	708.80 b
Deltapine 45A	1891.91 b	Rex Smoothleaf 66	671.11 c
MO-DEL	1691.07 c	MO-DEL	593.43 d
Auburn M	1659.89 c	Auburn M	578.12 d

Variety	Lint-Lbs/Acre 1st Pick	Variety	Stand Hills/Plot
Delcot 277	654.14 a	Stoneville 7A	107.67 a
Deltapine 16	616.27 b	Deltapine 16	107.60 a
Coker 310	613.24 b	Deltapine 45A	107.40 a
Stoneville 213	608.38 b	Coker 310	107.07 a
Stoneville 7A	589.12 b	Auburn M	106.47 ab
Deltapine 45A	587.38 b	Stoneville 213	106.33 ab
Rex Smoothleaf 66	539.05 c	MO-DEL	106.20 ab
Auburn M	509.25 cd	Delcot 277	105.40 ab
MO-DEL	500.53 d	Rex Smoothleaf 66	104.13 b

Variety	1st Flower-Days
Deltapine 45A	70.47 a
Stoneville 7A	70.20 a
Deltapine 16	70.07 a
Delcot 277	69.80 a
Stoneville 213	69.67 ab
Rex Smoothleaf 66	68.53 b
MO-DEL	68.53 b
Auburn M	66.60 c
Coker 310	65.60 c

Table 11 Continued

Variety	Bacterial Blight ^{1/} Incidence	Variety	Seedling Vigor Index
Rex Smoothleaf 66	5.00 a	MO-DEL	3.33 a
Stoneville 7A	4.30 b	Coker 310	3.27 a
MO-DEL	4.20 bc	Delcot 277	3.27 a
Deltapine 16	4.10 bcd	Deltapine 45A	3.27 a
Delcot 277	3.90 bcd	Stoneville 7A	3.13 ab
Deltapine 45A	3.80 cd	Stoneville 213	3.13 ab
Coker 310	3.70 d	Deltapine 16	3.07 ab
Stoneville 213	3.70 d	Auburn M	2.87 bc
Auburn M	3.20 e	Rex Smoothleaf 66	2.80 c

Variety	Height Index	Variety	Lodging Index
MO-DEL	2.33 a	Coker 310	3.27 a
Coker 310	2.30 a	MO-DEL	3.13 a
Delcot 277	1.83 b	Deltapine 45A	2.80 b
Stoneville 7A	1.83 b	Stoneville 7A	2.80 b
Deltapine 16	1.80 b	Deltapine 16	2.80 b
Deltapine 45A	1.73 b	Stoneville 213	2.73 b
Stoneville 213	1.67 b	Delcot 277	2.20 c
Auburn M	1.30 c	Auburn M	1.93 cd
Rex Smoothleaf 66	1.23 c	Rex Smoothleaf 66	1.87 d

Variety	Storm Resistance Index
MO-DEL	3.07 a
Stoneville 213	2.73 b
Coker 310	2.67 b
Stoneville 7A	2.53 bc
Deltapine 45A	2.33 c
Deltapine 16	2.33 c
Delcot 277	2.33 c
Rex Smoothleaf 66	2.27 c
Auburn M	2.00 d

^{1/} 1970-71 only

Table 11 Continued

Variety	Lint Percent
Stoneville 7A	38.02 a
Coker 310	37.78 a
Stoneville 213	37.70 a
Deltapine 45A	37.68 a
Delcot 277	37.32 a
Deltapine 16	37.13 a
MO-DEL	35.07 b
Auburn M	34.90 b
Rex Smoothleaf 66	34.68 b

Variety	50% Span Length
Delcot 277	0.53 a
Deltapine 16	0.52 ab
Coker 310	0.52 ab
Deltapine 45A	0.51 abc
MO-DEL	0.51 abc
Stoneville 7A	0.50 bc
Stoneville 213	0.50 bc
Rex Smoothleaf 66	0.50 bc
Auburn M	0.49 c

Variety	2.5% Span Length
Coker 310	1.20 a
Delcot 277	1.19 ab
Deltapine 16	1.17 bc
MO-DEL	1.16 cd
Stoneville 7A	1.15 cde
Rex Smoothleaf 66	1.14 def
Stoneville 213	1.13 ef
Auburn M	1.13 ef
Deltapine 45A	1.12 f

Variety	Length Uniformity Index
Deltapine 45A	45.33 a
Delcot 277	44.33 ab
Stoneville 213	44.17 ab
Stoneville 7A	43.83 bc
Deltapine 16	43.83 bc
MO-DEL	43.67 bc
Rex Smoothleaf 66	43.33 bc
Auburn M	43.17 bc
Coker 310	42.67 c

Variety	Micronaire
Stoneville 213	4.73 a
Stoneville 7A	4.73 a
Coker 310	4.70 a
Deltapine 16	4.57 b
Deltapine 45A	4.55 b
MO-DEL	4.55 b
Rex Smoothleaf 66	4.40 c
Auburn M	4.33 cd
Delcot 277	4.23 d

Table 11 Continued

Variety	Colorimeter Rd	Variety	Colorimeter b
Deltapine 16	72.83 a	MO-DEL	8.17 a
Deltapine 45A	71.67 b	Delcot 277	8.08 ab
Stoneville 7A	71.50 bc	Coker 310	7.92 abc
Stoneville 213	71.33 bcd	Rex Smoothleaf 66	7.83 bcd
Rex Smoothleaf 66	71.17 bcd	Stoneville 213	7.83 bcd
Auburn M	70.33 cde	Auburn M	7.75 cde
Delcot 277	70.17 de	Deltapine 45A	7.58 de
Coker 310	69.83 e	Stoneville 7A	7.50 e
MO-DEL	69.50 e	Deltapine 16	7.50 e

Variety	Trash	Variety	Yarn Strength 22's
Stoneville 213	3.50 a	Delcot 277	122.50 a
Stoneville 7A	3.33 a	MO-DEL	114.83 b
Rex Smoothleaf 66	3.33 a	Coker 310	114.50 b
Auburn M	3.33 a	Deltapine 45A	112.33 b
MO-DEL	3.33 a	Stoneville 7A	109.17 c
Delcot 277	3.33 a	Deltapine 16	108.83 c
Deltapine 16	3.17 a	Stoneville 213	107.50 c
Coker 310	3.17 a	Auburn M	106.67 c
Deltapine 45A	3.17 a	Rex Smoothleaf 66	106.67 c

Variety	Yarn Tenacity 27 Tex ^{1/}
Delcot 277	14.10 a
Deltapine 45A	13.15 b
Coker 310	13.05 b
MO-DEL	12.85 bc
Rex Smoothleaf 66	12.70 bc
Deltapine 16	12.40 c
Stoneville 213	12.35 c
Auburn M	12.30 c
Stoneville 7A	12.20 c

1/ 1971 only

Table 12. Summary of Performance of Cotton Varieties Grown in Southeast Missouri on Sandy, Irrigated Soil, 1969-71

Variety or Strain	Lint Yield		Percent of Crop	Lint Percent	Length 2.5% SL	Yarn Strength	
	Total Lbs/Acre	1st Pick Lbs/Acre				Micronaire	22's
Delcot 277	1047.24 a	972.35	93	38.05	1.19	4.02	116.50
Coker 310	991.80 ab	890.93	90	38.30	1.22	4.38	109.17
Deltapine 45A	957.62 abc	846.05	88	38.23	1.12	4.38	107.00
Auburn M	941.64 abc	848.27	90	35.57	1.10	4.17	98.67
Rex Smoothleaf 66	917.60 bcd	780.74	85	36.05	1.13	4.10	103.67
MO-DEL	858.41 cd	741.70	86	35.33	1.16	4.52	110.33
Deltapine 16	846.88 cd	737.11	87	37.63	1.17	4.15	108.83
Stoneville 7A	819.51 d	661.25	81	38.10	1.14	4.32	104.50
Stoneville 213	816.73 d	720.99	88	37.30	1.12	4.53	100.50
Mean	910.83	799.93	88	37.17	1.15	4.29	106.57
MiLSR (.05)	104.00	95.16		1.54	.02	.15	4.52
MaLSR (.05)	121.10	110.90		1.78	.02	.17	5.21
C. V. %	15.48	16.13		3.48	1.44	2.90	3.55

Table 13. Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri on Sandy Irrigated Soil, 1969-71.

Seed Cotton		Total Lint	
Variety	Lbs/Acre	Variety	Lbs/Acre
Delcot 277	2758.09 a	Delcot 277	1047.24 a
Auburn M	2628.87 ab	Coker 310	991.80 ab
Coker 310	2623.31 ab	Deltapine 45A	957.62 abc
Rex Smoothleaf 66	2542.72 abc	Auburn M	941.64 abc
Deltapine 45A	2506.60 abc	Rex Smoothleaf 66	917.60 bcd
MO-DEL	2413.50 bcd	MO-DEL	858.41 cd
Deltapine 16	2241.21 cd	Deltapine 16	846.88 cd
Stoneville 7A	2135.61 d	Stoneville 7A	819.51 d
Stoneville 213	2116.16 d	Stoneville 213	816.73 d

Lint-Lbs/Acre		Stand	
Variety	1st Pick	Variety	Hills/Plot
Delcot 277	972.35 a	Deltapine 45A	67.53 a
Coker 310	890.93 ab	Stoneville 213	67.47 a
Auburn M	848.27 bc	Delcot 277	67.33 ab
Deltapine 45A	846.05 bc	Auburn M	67.20 ab
Rex Smoothleaf 66	780.74 cd	Deltapine 16	67.00 ab
MO-DEL	741.70 de	Coker 310	66.93 ab
Deltapine 16	737.11 de	MO-DEL	66.87 ab
Stoneville 213	720.99 de	Stoneville 7A	66.87 ab
Stoneville 7A	661.25 e	Rex Smoothleaf 66	66.07 b

1st Flower		Fusarium Wilt ^{1/}	
Variety	Days	Variety	% Plants
Stoneville 213	60.40 a	Stoneville 7A	24.60 a
Deltapine 16	60.27 ab	Stoneville 213	24.10 a
Stoneville 7A	60.20 ab	Rex Smoothleaf 66	8.50 b
Deltapine 45A	60.00 ab	Deltapine 16	7.30 b
Delcot 277	59.40 bc	MO-DEL	7.30 b
Rex Smoothleaf 66	59.07 c	Coker 310	6.50 b
Coker 310	58.20 d	Deltapine 45A	6.30 b
MO-DEL	58.20 d	Auburn M	5.20 b
Auburn M	57.20 e	Delcot 277	2.10 b

Bacterial Blight Incidence ^{2/}	
Variety	
Rex Smoothleaf 66	4.70 a
Deltapine 45A	4.30 ab
MO-DEL	4.30 ab
Stoneville 7A	4.00 bc
Coker 310	3.90 bcd
Deltapine 16	3.90 bcd
Delcot 277	3.80 cd
Stoneville 213	3.50 de
Auburn M	3.30 e

^{1/} 1969-70 only^{2/} 1970-71 only

Table 13 Continued

Variety	Seedling Vigor Index
Delcot 277	3.73 a
Deltapine 45A	3.53 ab
MO-DEL	3.47 ab
Coker 310	3.40 ab
Stoneville 213	3.33 ab
Auburn M	3.27 ab
Stoneville 7A	3.13 b
Rex Smoothleaf 66	3.07 bc
Deltapine 16	2.67 c

Variety	Lodging Index
MO-DEL	3.27 a
Deltapine 16	3.07 ab
Stoneville 213	3.00 abc
Coker 310	2.93 abc
Deltapine 45A	2.93 abc
Delcot 277	2.93 abc
Stoneville 7A	2.87 bc
Rex Smoothleaf 66	2.67 cd
Auburn M	2.47 d

Variety	Lint Percent
Coker 310	38.30 a
Deltapine 45A	38.23 a
Stoneville 7A	38.10 a
Delcot 277	38.05 a
Deltapine 16	37.63 ab
Stoneville 213	37.30 ab
Rex Smoothleaf 66	36.05 bc
Auburn M	35.57 c
MO-DEL	35.33 c

Variety	Height Index
Deltapine 45A	2.53 a
Delcot 277	2.43 ab
MO-DEL	2.43 ab
Coker 310	2.33 ab
Stoneville 213	2.23 abc
Stoneville 7A	2.20 abc
Deltapine 16	2.20 abc
Auburn M	2.03 bc
Rex Smoothleaf 66	1.87 c

Variety	Storm Resistance Index
Deltapine 16	3.33 a
Stoneville 213	2.93 ab
Coker 310	2.93 ab
Stoneville 7A	2.73 b
Auburn M	2.53 bc
Delcot 277	2.47 bc
MO-DEL	2.20 cd
Deltapine 45A	2.13 cd
Rex Smoothleaf 66	1.80 d

Variety	50% Span Length
Delcot 277	0.53 a
Deltapine 16	0.52 a
MO-DEL	0.52 a
Coker 310	0.52 a
Deltapine 45A	0.50 b
Rex Smoothleaf 66	0.50 b
Stoneville 7A	0.49 b
Auburn M	0.49 b
Stoneville 213	0.49 b

Variety	2.5% Span Length
Coker 310	1.22 a
Delcot 277	1.19 b
Deltapine 16	1.17 c
MO-DEL	1.16 c
Stoneville 7A	1.14 d
Rex Smoothleaf 66	1.13 d
Stoneville 213	1.12 de
Deltapine 45A	1.12 de
Auburn M	1.10 e

Table 13 Continued

Variety	Length	
	Uniformity	Index
MO-DEL	45.17	a
Deltapine 45A	44.83	ab
Deltapine 16	44.50	abc
Delcot 277	44.17	abcd
Auburn M	44.00	abcd
Stoneville 213	43.67	cde
Rex Smoothleaf 66	43.50	cde
Stoneville 7A	43.17	de
Coker 310	42.67	e

Variety	Micronaire
Stoneville 213	4.53 a
MO-DEL	4.52 a
Coker 310	4.38 ab
Deltapine 45A	4.38 ab
Stoneville 7A	4.32 b
Auburn M	4.17 c
Deltapine 16	4.15 c
Rex Smoothleaf 66	4.10 c
Delcot 277	4.02 c

Variety	Colorimeter	Rd
Deltapine 16	72.67	a
Stoneville 7A	71.17	ab
Auburn M	70.83	bc
Deltapine 45A	70.17	bc
Delcot 277	70.17	bc
Rex Smoothleaf 66	69.83	bc
Stoneville 213	69.67	bc
Coker 310	69.17	cd
MO-DEL	67.67	d

Variety	Colorimeter	b
MO-DEL	8.67	a
Delcot 277	8.42	ab
Rex Smoothleaf	8.33	abc
Stoneville 213	8.33	abc
Coker 310	8.25	bc
Auburn M	8.08	bcd
Deltapine 45A	8.08	bcd
Stoneville 7A	8.00	cd
Deltapine 16	7.83	d

Variety	Trash
Deltapine 45A	3.67 a
Coker 310	3.67 a
Delcot 277	3.67 a
MO-DEL	3.67 a
Auburn M	3.50 ab
Stoneville 213	3.50 ab
Stoneville 7A	3.33 ab
Rex Smoothleaf 66	3.33 ab
Deltapine 16	3.17 b

Variety	Yarn Strength	22's
Delcot 277	116.50	a
MO-DEL	110.33	b
Coker 310	109.17	bc
Deltapine 16	108.83	bc
Deltapine 45A	107.00	bcd
Stoneville 7A	104.50	cde
Rex Smoothleaf 66	103.67	de
Stoneville 213	100.50	ef
Auburn M	98.67	f

Variety	Yarn Tenacity 27 Tex ^{1/}
Delcot 277	12.90 a
MO-DEL	12.75 ab
Coker 310	12.55 abc
Deltapine 16	12.35 abc
Deltapine 45A	11.95 abcd
Stoneville 7A	11.95 bcd
Stoneville 213	11.75 cd
Auburn M	11.70 cd
Rex Smoothleaf 66	11.30 d

1/ 1971 only

Table 14. Summary of Performance of Cotton Varieties, Planted May 20 (late), in Missouri on Sandy Loam, Wilt-free, Non-irrigated Soil, 1970-71

Variety or Strain	Lint Yield		Percent of Crop	Lint Percent	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
Coker 310	945.86 a	945.86	100	38.82	1.21	4.15	108.75
Delcot 277	918.90 ab	918.90	100	37.55	1.19	3.70	113.75
Deltapine 45A	859.06 bc	859.06	100	37.95	1.11	4.25	103.50
Deltapine 16	821.23 cd	821.23	100	37.65	1.15	4.12	107.00
Stoneville 213	813.67 cd	813.67	100	37.62	1.11	4.40	100.25
Stoneville 7A	785.33 de	785.33	100	38.75	1.11	4.27	102.50
Auburn M	775.84 de	775.84	100	35.70	1.09	4.02	96.00
Rex Smoothleaf 66	724.80 e	724.80	100	34.35	1.12	3.87	98.75
MO-DEL	619.29 f	619.29	100	35.55	1.13	4.32	100.75
Mean	807.11	807.11	100	37.11	1.14	4.12	103.47
MiLSR (.05)	61.65	61.65		.76	.02	.16	4.98
MaLSR (.05)	72.08	72.08		.86	.02	.18	5.66
C. V. %	8.53	8.53		1.36	1.24	2.54	3.21

Table 15 Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri on Sandy Loam Wilt-free, Non-irrigated Soil, 1970-71, Planted May 20 (late).

Variety	Seed Cotton Lbs/Acre	Variety	Total Lint Lbs/Acre
Delcot 277	2437.56 a	Coker 310	945.86 a
Coker 310	2434.81 a	Delcot 277	918.90 ab
Deltapine 45A	2247.73 b	Deltapine 45A	859.06 bc
Deltapine 16	2180.33 bc	Deltapine 16	821.23 cd
Auburn M	2178.95 bc	Stoneville 213	813.67 cd
Stoneville 213	2156.94 bc	Stoneville 7A	785.33 de
Rex Smoothleaf 66	2084.03 bc	Auburn M	775.84 de
Stoneville 7A	2013.88 c	Rex Smoothleaf 66	724.80 e
MO-DEL	1747.01 d	MO-DEL	619.29 f

Variety	Lint-Lbs/Acre 1st Pick	Variety	Stand Hills/Plot
Coker 310	945.86 a	Coker 310	87.50 a
Delcot 277	918.90 ab	Rex Smoothleaf 66	87.20 ab
Deltapine 45A	859.06 bc	MO-DEL	87.20 ab
Deltapine 16	821.23 cd	Delcot 277	86.90 ab
Stoneville 213	813.67 cd	Stoneville 213	86.70 ab
Stoneville 7A	785.33 de	Deltapine 45A	86.50 ab
Auburn M	775.84 de	Stoneville 7A	86.00 ab
Rex Smoothleaf 66	724.80 e	Auburn M	85.40 ab
MO-DEL	619.29 f	Deltapine 16	84.80 b

Variety	1st Flower-Days
Stoneville 7A	61.70 a
Stoneville 213	61.40 ab
Deltapine 45A	61.00 ab
Rex Smoothleaf 66	60.90 ab
Delcot 277	60.80 ab
MO-DEL	60.50 ab
Deltapine 16	60.20 b
Coker 310	58.30 c
Auburn M	58.00 c

Table 15 Continued

Variety	Bacterial Blight ^{1/} Incidence	Variety	Seedling Vigor Index
Rex Smoothleaf 66	5.00 a	MO-DEL	3.70 a
Coker 310	4.40 b	Coker 310	3.70 a
Stoneville 213	4.20 bc	Delcot 277	3.70 a
Stoneville 7A	4.20 bc	Stoneville 7A	3.60 ab
Deltapine 45A	4.00 bc	Deltapine 45A	3.60 ab
Deltapine 16	4.00 bc	Stoneville 213	3.60 ab
Delcot 277	4.00 bc	Deltapine 16	3.50 ab
MO-DEL	4.00 bc	Auburn M	3.50 ab
Auburn M	3.80 c	Rex Smoothleaf 66	3.10 b

Variety	Height Index ^{2/}	Variety	Lodging Index ^{2/}
MO-DEL	2.80 a	Deltapine 45A	2.40 a
Stoneville 7A	2.60 ab	MO-DEL	2.20 a
Coker 310	2.60 ab	Stoneville 7A	2.00 a
Deltapine 16	2.60 ab	Coker 310	2.00 a
Deltapine 45A	2.40 ab	Stoneville 213	2.00 a
Stoneville 213	2.00 bc	Deltapine 16	2.00 a
Delcot 277	2.00 bc	Delcot 277	2.00 a
Auburn M	1.40 c	Rex Smoothleaf 66	1.40 b
Rex Smoothleaf 66	1.40 c	Auburn M	1.20 b

Variety	Storm Resistance Index ^{2/}
MO-DEL	4.00 a
Deltapine 16	2.40 b
Rex Smoothleaf 66	2.40 b
Coker 310	2.00 b
Stoneville 213	2.00 b
Stoneville 7A	2.00 b
Delcot 277	2.00 b
Auburn M	2.00 b
Deltapine 45A	2.00 b

1/ 1971 only

2/ 1970 only

Table 15 Continued

Variety	Lint Percent
Coker 310	38.82 a
Stoneville 7A	38.75 a
Deltapine 45A	37.95 b
Deltapine 16	37.65 b
Stoneville 213	37.62 b
Delcot 277	37.55 b
Auburn M	35.70 c
MO-DEL	35.55 c
Rex Smoothleaf 66	34.35 d

Variety	50% Span Length
Delcot 277	0.51 a
Coker 310	0.51 a
Deltapine 16	0.50 ab
Deltapine 45A	0.49 bc
MO-DEL	0.49 bc
Stoneville 213	0.49 bc
Stoneville 7A	0.48 cd
Auburn M	0.47 d
Rex Smoothleaf 66	0.47 d

Variety	2.5% Span Length
Coker 310	1.21 a
Delcot 277	1.19 a
Deltapine 16	1.15 b
MO-DEL	1.13 bc
Rex Smoothleaf 66	1.12 c
Stoneville 7A	1.11 cd
Stoneville 213	1.11 cd
Deltapine 45A	1.11 cd
Auburn M	1.09 d

Variety	Length Uniformity Index
Deltapine 45A	44.00 a
Stoneville 213	43.50 ab
MO-DEL	43.50 ab
Stoneville 7A	43.25 abc
Deltapine 16	43.25 abc
Auburn M	43.00 abc
Delcot 277	42.25 bcd
Rex Smoothleaf 66	41.75 cd
Coker 310	41.50 d

Variety	Micronaire
Stoneville 213	4.40 a
MO-DEL	4.32 a
Stoneville 7A	4.27 ab
Deltapine 45A	4.25 ab
Coker 310	4.15 bc
Deltapine 16	4.12 bc
Auburn M	4.02 cd
Rex Smoothleaf 66	3.87 d
Delcot 277	3.70 e

Table 15 Continued

Variety	Colorimeter Rd
Deltapine 16	71.50 a
Deltapine 45A	70.50 ab
Auburn M	70.25 ab
Stoneville 7A	70.25 ab
Rex Smoothleaf 66	69.50 b
Delcot 277	69.00 b
Coker 310	68.75 b
Stoneville 213	68.75 b
MO-DEL	66.75 c

Variety	Colorimeter b
MO-DEL	8.37 a
Stoneville 213	8.12 ab
Delcot 277	8.12 ab
Auburn M	8.00 ab
Rex Smoothleaf 66	8.00 ab
Stoneville 7A	7.87 b
Coker 310	7.87 b
Deltapine 45A	7.87 b
Deltapine 16	7.75 b

Variety	Trash
MO-DEL	4.00 a
Stoneville 7A	4.00 a
Auburn M	4.00 a
Stoneville 213	3.75 a
Deltapine 45A	3.75 a
Deltapine 16	3.75 a
Delcot 277	3.75 a
Coker 310	3.75 a
Rex Smoothleaf 66	3.75 a

Variety	Yarn Strength 22's
Delcot 277	113.75 a
Coker 310	108.75 b
Deltapine 16	107.00 bc
Deltapine 45A	103.50 cd
Stoneville 7A	102.50 cd
MO-DEL	100.75 de
Stoneville 213	100.25 de
Rex Smoothleaf 66	98.75 de
Auburn M	96.00 e

Variety	Yarn Tenacity 27 Tex ^{1/}
Delcot 277	13.20 a
Deltapine 45A	12.80 ab
Coker 310	12.60 ab
Deltapine 16	12.50 ab
Stoneville 7A	12.05 bc
Stoneville 213	12.00 bc
Rex Smoothleaf 66	11.90 bc
MO-DEL	11.50 c
Auburn M	11.20 c

^{1/} 1971 only

Table 16. Performance of Cotton Varieties Grown in Southeast Missouri (1971) Combining Six Locations (7111 - 7122 - 7133 - 7144 - 7151 - 71156).

Variety or Strain	Lint Yield		% of Crop	Lint %	Length 2.5% SL	Micronaire ^{1/}	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
S69-988	1003.48 a	942.07	94	37.21	1.16	3.77	107.50
Delcot 277 (170-3)	992.30 ab	941.28	95	38.28	1.20	3.47	115.92
Mo. 63-277F	976.04 ab	908.49	93	37.79	1.19	3.58	116.50
Delcot 277	951.42 ab	900.96	95	37.58	1.17	3.57	115.58
Coker 310	946.02 b	885.07	94	39.02	1.21	3.94	109.50
Auburn M	857.08 c	820.40	96	35.77	1.12	3.81	102.17
S69-973	852.85 cd	761.70	89	37.31	1.14	3.72	111.75
Stoneville 603	833.37 cde	749.98	90	36.40	1.12	3.86	106.08
Deltapine 16	816.37 cde	719.75	88	37.07	1.15	3.81	108.08
Stoneville 213	808.64 cdef	749.98	86	38.12	1.10	4.24	103.75
Deltapine 6225	796.53 def	668.81	84	39.09	1.12	4.07	110.92
MO-DEL 1	789.79 ef	729.18	92	35.43	1.14	4.04	107.17
Rex SL 66	789.16 ef	737.82	93	35.35	1.13	3.77	103.75
Deltapine 45A	786.84 ef	676.49	86	38.19	1.11	3.97	109.08
Brycot 4-XP4	782.95 ef	650.78	83	37.82	1.11	3.99	104.75
Stoneville 7A	753.26 f	601.30	80	38.68	1.11	4.10	103.42
Mean	858.50	774.25	90	37.45	1.14	3.86	108.49
MiLSR (.05)	50.85	50.85		.50	.01	.13	2.69
MaLSR (.05)	61.46	61.46		.59	.01	.15	3.24
C.V. %	9.91	10.20		1.59	1.29	3.97	3.01

^{1/} Lower than normal readings due to premature bottom defoliation of tests 7111, 7144 and 71156; severe Verticillium wilt in test 7122 and season. Commercial fields produced crops with lower than normal micronaire during 1971.

Table 17 Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri, Combining Six Locations, 1971 (7111-7122-7133-7144-7151-71156)

Variety	Seed Cotton Lbs/Acre		Variety	Total Lint Lbs/Acre	
S69-988	2773.67	a	S69-988	1003.48	a
Delcot 277 (I70-3)	2677.83	a	Delcot 277 (I70-3)	992.30	ab
Delcot 277	2524.22	b	Mo63-277F	976.04	ab
Mo63-277F	2494.42	bc	Delcot 277	951.42	ab
Coker 310	2394.92	bcd	Coker 310	946.02	b
Auburn M	2389.42	bcd	Auburn M	857.08	c
S69-973	2339.89	cde	S69-973	852.85	cd
Stoneville 603	2290.83	de	Stoneville 603	833.37	cde
Rex SL 66	2230.31	def	Deltapine 16	816.37	cde
Deltapine 16	2225.26	def	Stoneville 213	808.64	cdef
MO-DEL 1	2171.15	ef	Deltapine 6225	796.53	def
Stoneville 213	2100.08	fg	MO-DEL 1	789.79	ef
Deltapine 45A	2067.53	fgh	Rex SL 66	789.16	ef
Brycot 4-XP4	2063.86	fgh	Deltapine 45A	786.84	ef
Deltapine 6225	1978.11	gh	Brycot 4-XP4	782.95	ef
Stoneville 7A	1916.67	h	Stoneville 7A	753.26	f

Variety	1st Pick Lint-Lbs/Acre		Variety	Stand-Hills/Plot	
S69-988	942.07	a	MO-DEL 1	103.80	a
Delcot 277 (I70-3)	941.28	a	Mo63-277F	102.63	ab
Mo63-277F	908.49	ab	Brycot 4-XP4	102.13	ab
Delcot 277	900.96	ab	Stoneville 7A	102.07	abc
Coker 310	885.07	b	Stoneville 213	101.67	bcd
Auburn M	820.40	c	S69-973	101.67	bcd
S69-973	761.70	d	S69-988	101.50	bcd
Stoneville 603	749.98	de	Coker 310	101.33	bcd
Rex SL 66	737.82	de	Deltapine 16	101.00	bcd
MO-DEL 1	729.18	def	Stoneville 603	100.97	bcd
Deltapine 16	719.75	defg	Deltapine 6225	100.87	bcd
Stoneville 213	694.01	efgh	Deltapine 45A	100.77	bcd
Deltapine 45A	676.49	fgh	Delcot 277 (I70-3)	99.93	cde
Deltapine 6225	668.81	gh	Delcot 277	99.83	de
Brycot 4-XP4	650.78	hi	Rex SL 66	98.70	ef
Stoneville 7A	601.30	i	Auburn M	97.40	f

Variety	1st Flower-days		Variety	Wilt-Rating Verticillium	
S69-973	68.40	a	S69-988	4.20	a
Deltapine 6225	67.67	b	Delcot 277 (I70-3)	4.00	ab
Delcot 277 (I70-3)	67.53	b	Mo63-277F	4.00	ab
Stoneville 213	67.47	bc	Delcot 277	4.00	ab
Stoneville 7A	67.43	bc	Deltapine 6225	4.00	ab
Mo63-277F	67.33	bc	S69-973	4.00	ab
Deltapine 45A	67.23	bcd	Deltapine 45A	3.80	ab
Delcot 277	67.23	bcd	Deltapine 16	3.40	bc
Stoneville 603	66.97	bcd	Stoneville 7A	3.40	bc
Deltapine 16	66.90	bcd	Stoneville 213	3.00	cd
Brycot 4-XP4	66.90	bcd	MO-DEL 1	3.00	cd
Rex SL 66	66.87	bcd	Brycot 4-XP4	2.80	de
S69-988	66.70	cd	Rex SL 66	2.60	def
MO-DEL 1	66.50	d	Stoneville 603	2.40	efg
Coker 310	65.03	e	Coker 310	2.20	fg
Auburn M	64.57	e	Auburn M	2.00	g

Table 17 continued

Variety	Bacterial Blight Incidence	Variety	Seedling Vigor Index
Rex SL 66	5.00 a	S69-988	3.83 a
S69-988	5.00 a	S69-973	3.73 ab
S69-973	4.87 a	MO-DEL 1	3.70 ab
Stoneville 7A	4.43 b	Stoneville 213	3.67 abc
Stoneville 213	4.30 bc	Brycot 4-XP4	3.63 abc
Brycot 4-XP4	4.27 bcd	Mo63-277F	3.60 abcd
MO-DEL 1	4.23 cde	Delcot 277 (I70-3)	3.50 bcd
Delcot 277 (I70-3)	4.17 cdef	Delcot 277	3.50 bcd
Deltapine 16	4.17 cdef	Stoneville 603	3.40 cde
Deltapine 45A	4.10 defg	Coker 310	3.40 cde
Coker 310	4.07 efg	Deltapine 6225	3.33 de
Delcot 277	4.00 fg	Stoneville 7A	3.20 e
Deltapine 6225	3.97 g	Deltapine 45A	3.17 ef
Mo63-277F	3.93 g	Deltapine 16	3.13 ef
Stoneville 603	3.60 h	Auburn M	2.90 f
Auburn M	3.47 h	Rex SL 66	2.90 f

Variety	Height Index	Variety	Lodging Index
Brycot 4-XP4	2.70 a	Brycot 4-XP4	3.00 a
Stoneville 7A	2.70 a	Deltapine 45A	3.00 a
Stoneville 213	2.68 ab	Stoneville 7A	3.00 a
Deltapine 6225	2.66 ab	MO-DEL 1	3.00 a
Deltapine 45A	2.64 ab	Deltapine 6225	3.00 a
S69-988	2.64 ab	Coker 310	3.00 a
MO-DEL 1	2.62 abc	Stoneville 213	2.96 a
S69-973	2.54 abcd	S69-973	2.92 a
Deltapine 16	2.52 abcd	Deltapine 16	2.92 a
Stoneville 603	2.48 bcd	S69-988	2.92 a
Delcot 277	2.44 cd	Stoneville 603	2.72 b
Coker 310	2.38 de	Delcot 277 (I70-3)	2.44 c
Delcot 277 (I70-3)	2.24 e	Delcot 277	2.44 c
Mo63-277F	2.22 e	Mo63-277F	2.36 cd
Auburn M	2.02 f	Auburn M	2.28 d
Rex SL 66	1.92 f	Rex SL 66	2.08 e

Variety	Storm Resistance Index	Variety	Seed Index
S69-973	3.76 a	Rex SL 66	15.10 a
Stoneville 603	3.68 ab	MO-DEL 1	15.00 a
MO-DEL 1	3.60 ab	S69-973	13.80 ab
Deltapine 6225	3.52 abc	S69-988	13.80 ab
Deltapine 16	3.40 bc	Delcot 277 (I70-3)	13.40 abc
Stoneville 7A	3.24 cd	Delcot 277	13.40 abc
Deltapine 45A	3.08 d	Mo63-277F	13.10 abc
Coker 310	3.00 d	Auburn M	12.60 bc
Stoneville 213	3.00 d	Stoneville 603	12.00 bc
Brycot 4-XP4	2.60 e	Stoneville 213	11.80 bc
Rex SL 66	2.40 ef	Stoneville 7A	11.80 bc
Auburn M	2.24 fg	Deltapine 45A	11.70 bc
Delcot 277	2.20 fg	Deltapine 6225	11.50 c
Mo63-277F	2.12 fg	Coker 310	11.40 c
Delcot 277 (I70-3)	2.08 g	Brycot 4-XP4	11.40 c
S69-988	2.08 g	Deltapine 16	11.40 c

Table 17 continued

Variety	Seed Grade
Brycot 4-XP4	8.00 a
Coker 310	8.00 a
Stoneville 7A	8.00 a
Stoneville 213	8.00 a
Stoneville 603	8.00 a
Delcot 277	8.00 a
Mo63-277F	8.00 a
Delcot 277 (I70-3)	8.00 a
MO-DEL 1	7.50 ab
Deltapine 45A	7.50 ab
S69-973	7.50 ab
Auburn M	7.50 ab
Deltapine 16	7.00 b
Rex SL 66	7.00 b
Deltapine 6225	7.00 b
S69-988	7.00 b

Variety	Lint Percent
Deltapine 6225	39.09 a
Coker 310	39.02 a
Stoneville 7A	38.68 ab
Delcot 277 (I70-3)	38.28 bc
Deltapine 45A	38.19 bc
Stoneville 213	38.12 c
Brycot 4-XP4	37.82 cd
Mo63-277F	37.79 cd
Delcot 277	37.58 de
S69-973	37.31 de
S69-988	37.21 e
Deltapine 16	37.07 e
Stoneville 603	36.40 f
Auburn M	35.77 g
MO-DEL 1	35.43 g
Rex SL 66	35.35 g

Variety	Boll Weight
Delcot 277 (I70-3)	8.45 a
MO-DEL 1	7.80 ab
S69-988	7.75 bc
Delcot 277	7.45 bcd
Rex SL 66	7.40 bcd
S60-973	7.05 cde
Auburn M	7.05 cde
Mo63-277F	6.90 def
Stoneville 7A	6.45 efg
Stoneville 213	6.30 fg
Stoneville 603	6.25 fg
Deltapine 16	6.25 fg
Coker 310	6.20 fg
Brycot 4-XP4	6.10 g
Deltapine 6225	6.00 g
Deltapine 45A	6.00 g

Variety	50% Span Length
Delcot 277 (I70-3)	0.52 a
Mo 63-277F	0.52 a
Coker 310	0.51 ab
S69-988	0.50 bc
Deltapine 6225	0.50 bc
Delcot 277	0.50 bc
S69-973	0.50 bc
MO-DEL 1	0.50 bc
Stoneville 603	0.49 cd
Deltapine 45A	0.49 cd
Auburn M	0.49 cd
Deltapine 16	0.49 cd
Rex SL 66	0.49 cd
Brycot 4-XP4	0.48 d
Stoneville 7A	0.48 d
Stoneville 213	0.48 d

Variety	2.5% Span Length
Coker 310	1.21 a
Delcot 277 (I70-3)	1.20 ab
Mo63-277F	1.19 b
Delcot 277	1.17 c
S69-988	1.16 cd
Deltapine 16	1.15 de
S69-973	1.14 ef
MO-DEL 1	1.14 ef
Rex SL 66	1.13 fg
Stoneville 603	1.12 gh
Deltapine 6225	1.12 gh
Auburn M	1.12 gh
Brycot 4-XP4	1.11 hi
Deltapine 45A	1.11 hi
Stoneville 7A	1.11 hi
Stoneville 213	1.10 i

Variety	Length-Uniformity Index
Deltapine 6225	44.08 a
Deltapine 45A	44.08 a
MO-DEL 1	43.83 ab
Stoneville 603	43.58 ab
S69-973	43.50 abc
Stoneville 213	43.33 abcd
Auburn M	43.33 abcd
S69-988	43.25 abcd
Brycot 4-XP4	43.08 abcd
Stoneville 7A	43.00 bcd
Mo63-277F	43.00 bcd
Rex SL 66	42.83 bcd
Delcot 277 (I70-3)	42.83 bcd
Deltapine 16	42.50 cd
Delcot 277	42.42 d
Coker 310	41.42 e

Table 17 continued

Variety	Micronaire	Variety	Colorimeter Rd
Stoneville 213	4.24 a	Deltapine 16	72.92 a
Stoneville 7A	4.10 b	Auburn M	71.67 b
Deltapine 6225	4.07 bc	Rex SL 66	71.50 bc
MO-DEL 1	4.04 bc	Deltapine 45A	71.25 bcd
Brycot 4-XP4	3.99 bcd	Deltapine 6225	71.00 bcde
Deltapine 45A	3.97 bcd	Stoneville 7A	71.00 bcde
Coker 310	3.94 cde	Delcot 277 (I70-3)	70.92 bcde
Stoneville 603	3.86 def	Delcot 277	70.92 bcde
Auburn M	3.81 ef	Mo63-277F	70.83 bcde
Deltapine 16	3.81 ef	Stoneville 603	70.67 bcde
Rex SL 66	3.77 f	S69-988	70.50 bcde
S69-988	3.77 f	Stoneville 213	70.50 bcde
S69-973	3.72 f	Brycot 4-XP4	70.42 cde
Mo63-277F	3.58 g	Coker 310	70.17 de
Delcot 277	3.57 g	S69-973	69.83 e
Delcot 277 (I70-3)	3.47 g	Mo-DEL 1	68.67 f

Variety	Colorimeter b	Variety	Trash
MO-DEL 1	8.58 a	Mo63-277F	4.50 a
S69-973	8.50 ab	Coker 310	4.42 ab
Delcot 277 (I70-3)	8.25 bc	MO-DEL 1	4.42 ab
Delcot 277	8.25 bc	Delcot 277 (I70-3)	4.33 ab
Stoneville 213	8.25 bc	Deltapine 45A	4.33 ab
S69-988	8.25 bc	Delcot 277	4.33 ab
Mo63-277F	8.21 cd	S69-973	4.25 ab
Brycot 4-XP4	8.08 cde	Stoneville 7A	4.25 ab
Stoneville 7A	8.00 cde	Stoneville 603	4.08 b
Rex SL 66	7.96 de	Stoneville 213	4.08 b
Deltapine 6225	7.96 de	Brycot 4-XP4	4.08 b
Coker 310	7.96 de	S69-988	4.08 b
Auburn M	7.92 e	Deltapine 6225	4.08 b
Deltapine 45A	7.87 e	Rex SL 66	4.08 b
Deltapine 16	7.87 e	Auburn M	4.08 b
Stoneville 603	7.83 e	Deltapine 16	3.67 c

Variety	Yarn Strength 22's	Variety	Yarn Tenacity 27 tex
Mo63-277F	116.50 a	Mo63-277F	13.43 a
Delcot 277 (I70-3)	115.92 a	Delcot 277 (I70-3)	13.37 a
Delcot 277	115.58 a	Delcot 277	13.29 a
S69-973	111.75 b	Deltapine 6225	12.77 b
Deltapine 6225	110.92 bc	S69-973	12.75 b
Coker 310	109.50 bcd	Coker 310	12.62 bc
Deltapine 45A	109.08 bcd	Deltapine 45A	12.57 bc
Deltapine 16	108.08 cde	Deltapine 16	12.39 cd
S69-988	107.50 def	S69-988	12.38 cd
MO-DEL 1	107.17 def	MO-DEL 1	12.34 cde
Stoneville 603	106.08 efg	Stoneville 603	12.17 def
Brycot 4-XP4	104.75 fgh	Brycot 4-XP4	12.05 efg
Rex SL 66	103.75 gh	Rex SL 66	11.95 fg
Stoneville 213	103.75 gh	Stoneville 213	11.95 fg
Stoneville 7A	103.42 gh	Stoneville 7A	11.94 fg
Auburn M	102.17 h	Auburn M	11.77 g

Table 18. Performance of Cotton Varieties Grown in Southeast Missouri on Sandy Loam, Wilt-free, Non-irrigated Soil, 1971 (7111), Portageville.

Variety or Strain	Lint Yield		% of Crop	Lint %	Length 2.5% SL	Micronaire ^{1/}	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
S69-988	1145.35 a	1046.91	91	35.80	1.16	3.65	107.50
Coker 310	1080.99 ab	925.66	86	37.85	1.21	3.80	111.50
Delcot 277 (I70-3)	1069.07 abc	1000.12	94	36.55	1.20	3.35	118.50
Mo. 63-277F	1068.97 abc	978.40	92	36.75	1.19	3.35	119.50
Delcot 277	1068.09 abc	975.13	91	36.90	1.20	3.25	118.50
S69-973	1054.57 bcd	898.58	85	36.55	1.16	3.75	116.00
Deltapine 6225	1018.09 bcd	712.11	70	38.55	1.14	4.00	112.00
Stoneville 213	1016.03 bcd	728.54	72	37.05	1.11	4.30	104.00
Auburn M	1013.54 bcd	922.44	91	35.20	1.14	3.90	104.50
MO-DEL 1	996.55 bcde	884.14	89	34.55	1.15	4.05	111.50
Deltapine 16	993.47 cde	786.19	79	36.60	1.16	3.85	109.00
Brycot 4-XP4	981.88 cde	676.19	69	37.00	1.12	3.90	108.50
Stoneville 603	974.98 de	792.95	81	35.50	1.13	3.85	109.50
Deltapine 45A	924.16 ef	652.00	71	37.40	1.12	3.90	111.00
Rex SL 66	913.19 ef	827.19	91	34.75	1.16	3.65	103.50
Stoneville 7A	843.31 f	489.94	58	37.95	1.14	4.20	106.00
Mean	1010.15	831.03	82	36.56	1.16	3.80	110.69
MiLSR (.05)	77.26	88.74		1.16	.02	.20	5.44
MaLSR (.05)	91.97	105.60		1.33	.03	.23	6.25
C.V. %	5.92	8.26		1.49	0.97	2.45	2.31

^{1/} Low readings likely due to premature bottom defoliation.

Table 19. Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri on Sandy Loam, Wilt-free, Non-irrigated Soil, 1971 (7111 Portageville, Lee Field)

Variety	Seed Cotton Lbs/Acre		Variety	Total Lint Lbs/Acre	
S69-988	3238.16	a	S69-988	1145.35	a
S69-973	2954.79	ab	Coker 310	1080.99	ab
Delcot 277 (I70-3)	2941.03	ab	Delcot 277 (I70-3)	1069.07	abc
Mo63-277F	2866.75	bc	Mo63-277F	1068.97	abc
Delcot 277	2864.00	bc	Delcot 277	1068.09	abc
Auburn M	2861.25	bc	S69-973	1054.57	bcd
Stoneville 603	2847.49	bc	Deltapine 6225	1018.09	bcd
Coker 310	2822.73	bc	Stoneville 213	1016.03	bcd
Deltapine 16	2751.20	bcd	Auburn M	1013.54	bcd
Stoneville 213	2748.45	bcd	MO-DEL 1	996.55	bcde
MO-DEL 1	2737.44	bcd	Deltapine 16	993.47	cde
Rex SL 66	2718.18	bcd	Brycot 4-XP4	981.88	cde
Deltapine 6225	2632.90	bcd	Stoneville 603	974.98	de
Brycot 4-XP4	2572.37	cd	Deltapine 45A	924.16	ef
Deltapine 45A	2429.31	de	Rex SL 66	913.19	ef
Stoneville 7A	2231.22	e	Stoneville 7A	843.31	f

Variety	1st Pick Lint-Lbs/Acre		Variety	Stand Hills/Plot	
S69-988	1046.91	a	Mo63-277F	111.80	a
Delcot 277 (I70-3)	1000.12	ab	Deltapine 16	111.00	a
Mo63-277F	978.40	abc	MO-DEL 1	111.00	a
Delcot 277	975.13	abc	Deltapine 45A	110.40	a
Coker 310	925.66	bc	S69-973	109.80	a
Auburn M	922.44	bcd	Brycot 4-XP4	109.60	a
S69-973	898.58	cd	Stoneville 213	109.20	a
MO-DEL 1	884.14	cde	S69-988	108.60	ab
Rex SL 66	827.19	def	Stoneville 7A	108.20	ab
Stoneville 603	792.95	efg	Deltapine 6225	106.20	abc
Deltapine 16	786.19	fg	Delcot 277 (I70-3)	106.20	abc
Stoneville 213	728.54	gh	Coker 310	106.00	abc
Deltapine 6225	712.11	gh	Stoneville 603	105.60	abc
Brycot 4-XP4	676.19	h	Delcot 277	105.60	abc
Deltapine 45A	652.00	h	Rex SL 66	103.00	bc
Stoneville 7A	489.94	i	Auburn M	100.80	c

Variety	1st Flower-days		Variety	Bacterial Blight Incidence	
Deltapine 6225	71.20	a	S69-973	5.00	a
Deltapine 45A	71.00	a	Rex SL 66	5.00	a
S69-973	70.80	a	S69-988	5.00	a
Stoneville 603	70.80	a	Stoneville 7A	4.60	ab
Mo63-277F	70.60	a	Stoneville 213	4.40	bc
S69-988	70.40	ab	Brycot 4-XP4	4.00	cd
Brycot 4-XP4	70.40	ab	Delcot 277 (I70-3)	4.00	cd
Delcot 277	70.20	ab	Deltapine 16	4.00	cd
Stoneville 213	70.20	ab	MO-DEL 1	4.00	cd
Coker 310	70.00	ab	Deltapine 45A	3.80	de
Stoneville 7A	70.00	ab	Deltapine 6225	3.60	def
Deltapine 16	70.00	ab	Delcot 277	3.60	def
Delcot 277 (I70-3)	69.80	ab	Coker 310	3.40	efg
Rex SL 66	69.80	ab	Mo63-277F	3.20	fg
MO-DEL 1	69.80	ab	Stoneville 603	3.00	g
Auburn M	69.00	b	Auburn M	2.20	h

Table 19 continued

Variety	Seedling Vigor Index
S69-973	3.80 a
S69-988	3.80 a
Deltapine 6225	3.60 ab
MO-DEL 1	3.60 ab
Mo63-277F	3.60 ab
Delcot 277	3.40 ab
Delcot 277 (I70-3)	3.40 ab
Stoneville 213	3.40 ab
Brycot 4-XP4	3.20 abc
Stoneville 603	3.20 abc
Coker 310	3.00 abcd
Deltapine 16	3.00 abcd
Auburn M	2.80 bcd
Rex SL 66	2.80 bcd
Stoneville 7A	2.40 cd
Deltapine 45A	2.20 d

Variety	Height Index
Stoneville 7A	3.10 a
Stoneville 213	3.10 a
Brycot 4-XP4	3.00 ab
Deltapine 6225	3.00 ab
Deltapine 45A	2.90 abc
MO-DEL 1	2.90 abc
S69-973	2.70 bcd
S69-988	2.70 bcd
Stoneville 603	2.60 cd
Coker 310	2.60 cd
Delcot 277	2.60 cd
Deltapine 16	2.60 cd
Delcot 277 (I70-3)	2.50 d
Mo63-277F	2.40 de
Auburn M	2.10 e
Rex SL 66	2.10 e

Variety	Lodging Index
Brycot 4-XP4	3.00 a
Deltapine 45A	3.00 a
Stoneville 7A	3.00 a
Stoneville 213	3.00 a
Deltapine 6225	3.00 a
Coker 310	3.00 a
S69-973	3.00 a
MO-DEL 1	3.00 a
Deltapine 16	3.00 a
Stoneville 603	2.80 a
S69-988	2.80 a
Delcot 277 (I70-3)	2.40 b
Mo63-277F	2.20 bc
Rex SL 66	2.20 bc
Delcot 277	2.20 bc
Auburn M	2.00 c

Variety	Storm Resistance Index
Stoneville 7A	4.00 a
MO-DEL 1	3.80 ab
S69-973	3.80 ab
Coker 310	3.60 ab
Stoneville 603	3.60 ab
Deltapine 6225	3.60 ab
Deltapine 45A	3.40 bc
Stoneville 213	3.00 cd
Deltapine 16	3.00 cd
Brycot 4-XP4	2.80 de
Auburn M	2.40 ef
Rex SL 66	2.20 f
Mo63-277F	2.20 f
Delcot 277	2.20 f
Delcot 277 (I70-3)	2.00 f
S69-988	2.00 f

Variety	Seed Index
Rex SL 66	15.10 a
MO-DEL 1	15.00 a
S69-973	13.80 ab
S69-988	13.80 ab
Delcot 277 (I70-3)	13.40 abc
Delcot 277	13.40 abc
Mo63-277F	13.10 abc
Auburn M	12.60 bc
Stoneville 603	12.00 bc
Stoneville 213	11.80 bc
Stoneville 7A	11.80 bc
Deltapine 45A	11.70 bc
Deltapine 6225	11.50 c
Coker 310	11.40 c
Brycot 4-XP4	11.40 c
Deltapine 16	11.40 c

Variety	Seed Grade
Brycot 4-XP4	8.00 a
Coker 310	8.00 a
Stoneville 7A	8.00 a
Stoneville 213	8.00 a
Stoneville 603	8.00 a
Delcot 277	8.00 a
Mo63-277F	8.00 a
Delcot 277 (I70-3)	8.00 a
MO-DEL 1	7.50 ab
Deltapine 45A	7.50 ab
S69-973	7.50 ab
Auburn M	7.50 ab
Deltapine 16	7.00 b
Rex SL 66	7.00 b
Deltapine 6225	7.00 b
S69-988	7.00 b

Table 19 continued

Variety	Lint Percent	Variety	Boll Weight
Deltapine 6225	38.55 a	Delcot 277 (I70-3)	8.45 a
Stoneville 7A	37.95 ab	MO-DEL 1	7.80 ab
Coker 310	37.85 abc	S69-988	7.75 bc
Deltapine 45A	37.40 abc	Delcot 277	7.45 bcd
Stoneville 213	37.05 bcd	Rex SL 66	7.40 bcd
Brycot 4-XP4	37.00 bcd	S69-973	7.05 cde
Delcot 277	36.90 bcd	Auburn M	7.05 cde
Mo63-277F	36.75 bcde	Mo63-277F	6.90 def
Deltapine 16	36.60 cde	Stoneville 7A	6.45 efg
Delcot 277 (I70-3)	36.55 cde	Stoneville 213	6.30 fg
S69-973	36.55 cde	Stoneville 603	6.25 fg
S69-988	35.80 def	Deltapine 16	6.25 fg
Stoneville 603	35.50 ef	Coker 310	6.20 fg
Auburn M	35.20 f	Brycot 4-XP4	6.10 g
Rex SL 66	34.75 f	Deltapine 6225	6.00 g
MO-DEL 1	34.55 f	Deltapine 45A	6.00 g

Variety	50% Span Length	Variety	2.5% Span Length
Deltapine 6225	0.53 a	Coker 310	1.21 a
Mo63-277F	0.53 a	Delcot 277 (I70-3)	1.20 a
Rex SL 66	0.52 ab	Delcot 277	1.20 a
MO-DEL 1	0.52 ab	Mo63-277F	1.19 a
Delcot 277 (I70-3)	0.52 ab	S69-973	1.16 b
S69-973	0.52 ab	Deltapine 16	1.16 b
Auburn M	0.52 ab	S69-988	1.16 b
Coker 310	0.51 ab	Rex SL 66	1.16 b
Deltapine 16	0.51 ab	MO-DEL 1	1.15 bc
Deltapine 45A	0.51 ab	Deltapine 6225	1.14 bcd
Stoneville 7A	0.51 ab	Stoneville 7A	1.14 bcd
S69-988	0.51 ab	Auburn M	1.14 bcd
Delcot 277	0.51 ab	Stoneville 603	1.13 cde
Stoneville 603	0.50 ab	Deltapine 45A	1.12 de
Stoneville 213	0.50 ab	Brycot 4-XP4	1.12 de
Brycot 4-XP4	0.49 b	Stoneville 213	1.11 e

Variety	Length Uniformity Index	Variety	Micronaire
Deltapine 6225	46.50 a	Stoneville 213	4.30 a
Deltapine 45A	45.50 ab	Stoneville 7A	4.20 ab
Auburn M	45.50 ab	MO-DEL 1	4.05 bc
MO-DEL 1	45.50 ab	Deltapine 6225	4.00 bcd
Stoneville 213	45.00 abc	Brycot 4-XP4	3.90 cde
Stoneville 603	44.50 bcd	Deltapine 45A	3.90 cde
Stoneville 7A	44.50 bcd	Auburn M	3.90 cde
Rex SL 66	44.50 bcd	Deltapine 16	3.85 cdef
S69-973	44.50 bcd	Stoneville 603	3.85 cdef
Deltapine 16	44.00 bcd	Coker 310	3.80 def
Brycot 4-XP4	44.00 bcd	S69-973	3.75 ef
S69-988	43.50 cde	Rex SL 66	3.65 f
Mo63-277F	43.50 cde	S69-988	3.65 f
Delcot 277 (I70-3)	43.00 de	Delcot 277 (I70-3)	3.35 g
Coker 310	42.00 e	Mo63-277F	3.35 g
Delcot 277	42.00 e	Delcot 277	3.25 g

Table 19 continued

Variety	Colorimeter Rd
Rex SL 66	74.50 a
Auburn M	74.00 ab
Deltapine 16	74.00 ab
Stoneville 603	73.00 abc
Deltapine 6225	73.00 abc
Delcot 277	73.00 abc
Stoneville 7A	73.00 abc
Stoneville 213	72.50 bcd
Delcot 277 (I70-3)	72.50 bcd
Deltapine 45A	72.50 bcd
Mo63-277F	72.00 cde
S69-988	72.00 cde
S69-973	72.00 cde
Coker 310	71.00 de
MO-DEL 1	71.00 de
Brycot 4-XP4	70.50 e

Variety	Colorimeter b
MO-DEL 1	8.75 a
S69-973	8.50 ab
Delcot 277 (I70-3)	8.25 bc
S69-988	8.25 bc
Stoneville 603	8.00 cd
Coker 310	8.00 cd
Stoneville 7A	8.00 cd
Delcot 277	8.00 cd
Brycot 4-XP4	8.00 cd
Stoneville 213	8.00 cd
Mo63-277F	8.00 cd
Deltapine 6225	8.00 cd
Auburn M	8.00 cd
Deltapine 45A	7.75 de
Deltapine 16	7.75 de
Rex SL 66	7.50 e

Variety	Trash
Coker 310	5.00 a
Brycot 4-XP4	4.50 ab
Stoneville 7A	4.50 ab
Deltapine 16	4.50 ab
Stoneville 603	4.50 ab
Deltapine 45A	4.50 ab
Mo63-277F	4.50 ab
S69-988	4.50 ab
Delcot 277 (I70-3)	4.50 ab
Rex SL 66	4.50 ab
Deltapine 6225	4.50 ab
MO-DEL 1	4.50 ab
Delcot 277	4.50 ab
S69-973	4.00 b
Auburn M	4.00 b
Stoneville 213	4.00 b

Variety	Yarn Strength 22's
Mo63-277F	119.50 a
Delcot 277	118.50 a
Delcot 277 (I70-3)	118.50 a
S69-973	116.00 ab
Deltapine 6225	112.00 bc
MO-DEL 1	111.50 bc
Coker 310	111.50 bc
Deltapine 45A	111.00 bc
Stoneville 603	109.50 cd
Deltapine 16	109.00 cd
Brycot 4-XP4	108.50 cd
S69-988	107.50 cd
Stoneville 7A	106.00 cd
Auburn M	104.50 d
Stoneville 213	104.00 d
Rex SL 66	103.50 d

Variety	Yarn Tenacity 27 tex
Mo63-277F	13.75 a
Delcot 277 (I70-3)	13.70 a
Delcot 277	13.65 a
S69-973	13.35 ab
Deltapine 6225	12.90 bc
MO-DEL 1	12.85 bc
Coker 310	12.85 bc
Deltapine 45A	12.75 bc
Stoneville 603	12.60 cd
Deltapine 16	12.55 cd
Brycot 4-XP4	12.45 cd
S69-988	12.40 cd
Stoneville 7A	12.25 cd
Stoneville 213	12.00 d
Auburn M	12.00 d
Rex SL 66	11.95 d

Table 20. Performance of Cotton Varieties Grown in Southeast Missouri on Sandy Loam, Non-irrigated Soil Infected with Verticillium Wilt Disease, 1971 (7122), Portageville.

Variety or Strain	Lint Yield			% of Crop	Lint %	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre						
Delcot 277 (I70-3)	1354.74 a	1245.11		92	39.55	1.18	3.45	116.00
Mo. 63-277F	1345.42 a	1230.82		91	38.40	1.22	3.70	120.00
Delcot 277	1319.13 a	1228.38		93	37.90	1.18	3.55	115.00
S69-988	1265.04 a	1159.82		92	37.25	1.16	3.65	110.50
S69-973	1097.47 b	979.15		89	37.00	1.15	3.65	112.00
Coker 310	1042.63 bc	1005.06		96	40.05	1.23	3.75	110.50
Deltapine 16	1023.36 bcd	901.04		88	36.75	1.16	3.75	108.50
Deltapine 6225	999.79 bcde	829.28		83	39.30	1.13	3.75	112.50
Deltapine 45A	988.92 bcde	891.19		90	39.20	1.11	4.00	109.00
Rex SL 66	985.93 bcde	930.22		94	36.25	1.14	3.50	107.00
Stoneville 7A	963.93 cde	771.59		80	38.95	1.12	4.10	103.00
Stoneville 603	935.02 cde	867.25		93	36.20	1.13	3.40	110.50
MO-DEL 1	926.85 cde	853.00		92	35.10	1.15	3.60	113.50
Auburn M	912.09 de	890.03		98	35.30	1.14	3.50	106.00
Stoneville 213	896.39 ef	789.01		88	37.30	1.12	3.95	105.50
Brycot 4-XP4	803.06 f	670.34		83	38.10	1.12	3.70	104.00
Mean	1053.74	952.58		90	37.66	1.15	3.69	110.22
MiLSR (.05)	102.60	96.16			1.52	.03	.30	7.50
MaLSR (.05)	122.10	114.50			1.74	.03	.34	8.62
C.V. %	7.53	7.81			1.89	1.04	3.76	3.20

Table 21. Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri on Sandy Loam, Non-irrigated Soil Infected with Verticillium Wilt Disease, 1971 (7122 Portageville, Lee Field)

Variety	Seed Cotton Lbs/Acre		Variety	Total Lint Lbs/Acre	
Mo63-277F	3513.28	a	Delcot 277 (I70-3)	1354.74	a
Delcot 277	3496.77	a	Mo63-277F	1345.42	a
S69-988	3394.98	a	Delcot 277	1319.13	a
Delcot 277 (I70-3)	3367.47	a	S69-988	1265.04	a
S69-973	3007.06	b	S69-973	1097.47	b
Deltapine 16	2762.20	bc	Coker 310	1042.63	bc
Rex SL 66	2742.95	bc	Deltapine 16	1023.36	bcd
MO-DEL 1	2693.42	bc	Deltapine 6225	999.79	bcde
Coker 310	2635.65	cd	Deltapine 45A	988.92	bcde
Auburn M	2564.12	cd	Rex SL 66	985.93	bcde
Stoneville 603	2558.61	cd	Stoneville 7A	963.93	cde
Deltapine 45A	2522.85	cd	Stoneville 603	935.02	cde
Deltapine 6225	2520.10	cd	MO-DEL 1	926.85	cde
Stoneville 7A	2462.32	cd	Auburn M	912.09	de
Stoneville 213	2346.77	de	Stoneville 213	896.39	ef
Brycot 4-XP4	2129.43	e	Brycot 4-XP4	803.06	f

Variety	1st Pick Lint-Lbs/Acre		Variety	Stand Hills/Plot	
Delcot 277 (I70-3)	1245.11	a	MO-DEL 1	112.20	a
Mo63-277F	1230.82	a	Mo63-277F	111.80	a
Delcot 277	1228.38	a	S69-988	111.00	ab
S69-988	1159.82	a	Deltapine 16	110.60	ab
Coker 310	1005.06	b	Stoneville 213	110.20	ab
S69-973	979.15	bc	Delcot 277	110.00	ab
Rex SL 66	930.22	bcd	S69-973	109.80	ab
Deltapine 16	901.04	cd	Deltapine 6225	109.60	ab
Deltapine 45A	891.19	cde	Coker 310	109.40	ab
Auburn M	890.03	cde	Brycot 4-XP4	108.40	ab
Stoneville 603	867.25	def	Delcot 277 (I70-3)	107.80	ab
MO-DEL 1	853.00	def	Stoneville 7A	107.80	ab
Deltapine 6225	829.28	def	Deltapine 45A	107.60	ab
Stoneville 213	789.01	ef	Stoneville 603	106.60	b
Stoneville 7A	771.59	f	Auburn M	106.40	b
Brycot 4-XP4	670.34	g	Rex SL 66	106.20	b

Variety	1st Flower-days		Variety	Verticillium Wilt-Rating	
S69-973	69.60	a	S69-988	4.20	a
Deltapine 16	69.40	ab	Delcot 277 (I70-3)	4.00	ab
Delcot 277 (I70-3)	69.40	ab	Mo63-277F	4.00	ab
Delcot 277	69.20	ab	Delcot 277	4.00	ab
Deltapine 6225	69.20	ab	Deltapine 6225	4.00	ab
S69-988	69.20	ab	S69-973	4.00	ab
Stoneville 7A	69.00	abc	Deltapine 45A	3.80	ab
Stoneville 603	69.00	abc	Deltapine 16	3.40	bc
Rex SL 66	68.80	abc	Stoneville 7A	3.40	bc
Coker 310	68.80	abc	Stoneville 213	3.00	cd
Stoneville 213	68.80	abc	MO-DEL 1	3.00	cd
MO-DEL 1	68.80	abc	Brycot 4-XP4	2.80	de
Brycot 4-XP4	68.60	abc	Rex SL 66	2.60	def
Deltapine 45A	68.60	abc	Stoneville 603	2.40	efg
Mo63-277F	68.40	bc	Coker 310	2.20	fg
Auburn M	68.00	c	Auburn M	2.00	g

Table 21 continued

Variety	Bacterial Blight Incidence		Variety	Seedling Vigor Index
S69-973	5.00	a	Brycot 4-XP4	4.00 a
Rex SL 66	5.00	a	Coker 310	4.00 a
S69-988	5.00	a	Mo63-277F	4.00 a
Coker 310	4.20	b	Stoneville 213	4.00 a
MO-DEL 1	4.20	b	Stoneville 603	4.00 a
Brycot 4-XP4	4.00	bc	Delcot 277	4.00 a
Delcot 277 (I70-3)	4.00	bc	S69-973	4.00 a
Stoneville 7A	4.00	bc	S69-988	4.00 a
Mo63-277F	4.00	bc	Delcot 277 (I70-3)	4.00 a
Deltapine 45A	4.00	bc	MO-DEL 1	4.00 a
Stoneville 213	4.00	bc	Deltapine 6225	4.00 a
Delcot 277	4.00	bc	Deltapine 45A	3.80 a
Deltapine 6225	3.80	c	Stoneville 7A	3.80 a
Deltapine 16	3.80	c	Rex SL 66	3.40 b
Auburn M	3.40	d	Auburn M	3.20 b
Stoneville 603	3.00	e	Deltapine 16	3.20 b

Variety	Height Index		Variety	Lodging Index
Deltapine 6225	2.50	a	Brycot 4-XP4	3.00 a
MO-DEL 1	2.40	a	Deltapine 45A	3.00 a
Brycot 4-XP4	2.40	a	Stoneville 7A	3.00 a
Stoneville 213	2.30	ab	Stoneville 213	3.00 a
Stoneville 7A	2.30	ab	Deltapine 6225	3.00 a
S69-988	2.30	ab	Coker 310	3.00 a
S69-973	2.30	ab	S69-973	3.00 a
Deltapine 45A	2.10	bc	MO-DEL 1	3.00 a
Stoneville 603	2.10	bc	Deltapine 16	2.80 a
Deltapine 16	2.10	bc	S69-988	2.80 a
Mo63-277F	2.00	c	Stoneville 603	2.40 b
Delcot 277	2.00	c	Auburn M	2.20 bc
Delcot 277 (I70-3)	2.00	c	Delcot 277 (I70-3)	2.00 c
Coker 310	1.90	c	Rex SL 66	2.00 c
Auburn M	1.50	d	Mo63-277F	2.00 c
Rex SL 66	1.50	d	Delcot 277	2.00 c

Variety	Storm Resistance Index		Variety	Lint Percent
S69-973	4.00	a	Coker 310	40.05 a
MO-DEL 1	4.00	a	Delcot 277 (I70-3)	39.55 ab
Stoneville 603	3.40	b	Deltapine 6225	39.30 ab
Coker 310	3.40	b	Deltapine 45A	39.20 ab
Deltapine 6225	3.40	b	Stoneville 7A	38.95 abc
Deltapine 45A	3.00	bc	Mo63-277F	38.40 abcd
Stoneville 7A	3.00	bc	Brycot 4-XP4	38.10 bcd
Stoneville 213	3.00	bc	Delcot 277	37.90 bcde
Deltapine 16	3.00	bc	Stoneville 213	37.30 cde
Brycot 4-XP4	2.80	c	S69-988	37.25 de
Mo63-277F	2.00	d	S69-973	37.00 de
Rex SL 66	2.00	d	Deltapine 16	36.75 def
Delcot 277 (I70-3)	2.00	d	Rex SL 66	36.25 ef
Delcot 277	2.00	d	Stoneville 603	36.20 ef
Auburn M	2.00	d	Auburn M	35.30 f
S69-988	2.00	d	MO-DEL 1	35.10 f

Table 21 continued

Variety	50% Span Length	Variety	2.5% Span Length
Mo63-277F	0.54 a	Coker 310	1.23 a
Delcot 277 (I70-3)	0.53 ab	Mo63-277F	1.22 a
Coker 310	0.52 abc	Delcot 277 (I70-3)	1.18 b
MO-DEL 1	0.52 abc	Delcot 277	1.18 b
S69-973	0.52 abc	Deltapine 16	1.16 bc
Delcot 277	0.52 abc	S69-988	1.16 bc
Deltapine 6225	0.51 abcd	S69-973	1.15 cd
S69-988	0.51 abcd	MO-DEL 1	1.15 cd
Stoneville 603	0.50 bcd	Auburn M	1.14 cde
Deltapine 45A	0.50 bcd	Rex SL 66	1.14 cde
Auburn M	0.50 bcd	Stoneville 603	1.13 def
Deltapine 16	0.50 bcd	Deltapine 6225	1.13 def
Brycot 4-XP4	0.49 cd	Brycot 4-XP4	1.12 ef
Stoneville 7A	0.49 cd	Stoneville 213	1.12 ef
Rex SL 66	0.48 d	Stoneville 7A	1.12 ef
Stoneville 213	0.48 d	Deltapine 45A	1.11 f

Variety	Length Uniformity Index	Variety	Micronaire
Deltapine 6225	45.50 a	Stoneville 7A	4.10 a
Deltapine 45A	45.50 a	Deltapine 45A	4.00 ab
Mo63-277F	45.00 a	Stoneville 213	3.95 abc
S69-973	45.00 a	Deltapine 6225	3.75 bcd
MO-DEL 1	44.50 ab	Coker 310	3.75 bcd
Delcot 277	44.00 ab	Deltapine 16	3.75 bcd
Brycot 4-XP4	44.00 ab	Brycot 4-XP4	3.70 bcde
S69-988	44.00 ab	Mo63-277F	3.70 bcde
Delcot 277 (I70-3)	44.00 ab	S69-973	3.65 cde
Stoneville 603	44.00 abv	S69-988	3.65 cde
Stoneville 7A	43.50 ab	MO-DEL 1	3.60 de
Auburn M	43.50 ab	Delcot 277	3.55 de
Stoneville 213	43.00 ab	Auburn M	3.50 de
Deltapine 16	43.00 ab	Rex SL 66	3.50 de
Rex SL 66	42.00 b	Delcot 277 (I70-3)	3.45 de
Coker 310	42.00 b	Stoneville 603	3.40 e

Variety	Colorimeter Rd	Variety	Colorimeter b
Deltapine 16	72.50 a	Delcot 277 (I70-3)	8.50 a
Deltapine 45A	73.50 b	Mo63-277F	8.50 a
Rex SL 66	73.50 b	S69-973	8.50 a
Deltapine 6225	72.50 b	S69-988	8.25 ab
Stoneville 7A	72.50 b	Brycot 4-XP4	8.25 ab
S69-973	72.50 b	Delcot 277	8.00 bc
Auburn M	72.50 b	Stoneville 213	8.00 bc
S69-988	72.00 b	MO-DEL 1	8.00 bc
Delcot 277 (I70-3)	72.00 b	Deltapine 6225	8.00 bc
Coker 310	72.00 b	Rex SL 66	7.75 cd
Stoneville 603	72.00 b	Stoneville 7A	7.75 cd
Stoneville 213	72.00 b	Coker 310	7.75 cd
Mo63-277F	72.00 b	Deltapine 16	7.75 cd
Delcot 277	72.00 b	Stoneville 603	7.50 d
Brycot 4-XP4	71.50 b	Auburn M	7.50 d
MO-DEL 1	71.50 b	Deltapine 45A	7.50 d

Table 21 continued

Variety	Trash	Variety	Yarn Strength 22's
Delcot 277 (I70-3)	4.00 a	Mo63-277F	120.00 a
Deltapine 45A	4.00 a	Delcot 277 (I70-3)	116.00 ab
Stoneville 7A	4.00 a	Delcot 277	115.00 abc
S69-988	4.00 a	MO-DEL 1	113.50 abcd
Mo63-277F	4.00 a	Deltapine 6225	112.50 abcde
Coker 310	4.00 a	S69-973	112.00 abcde
MO-DEL 1	4.00 a	Coker 310	110.50 bcdef
Delcot 277	4.00 a	S69-988	110.50 bcdef
Stoneville 603	3.50 ab	Stoneville 603	110.50 bcdef
Brycot 4-XP4	3.50 ab	Deltapine 45A	109.00 bcdef
S69-973	3.50 ab	Deltapine 16	108.50 bcdef
Stoneville 213	3.50 ab	Rex SL 66	107.00 cdef
Auburn M	3.50 ab	Auburn M	106.00 def
Rex SL 66	3.50 ab	Stoneville 213	105.50 def
Deltapine 6225	3.00 ab	Brycot 4-XP4	104.00 ef
Deltapine 16	2.50 b	Stoneville 7A	103.00 f

Variety	Yarn Tenacity 27 tex
Mo63-277F	13.80 a
Delcot 277 (I70-3)	13.40 ab
Delcot 277	13.20 abc
MO-DEL 1	13.10 abcd
Deltapine 6225	12.95 abcd
Coker 310	12.75 bcde
S69-988	12.75 bcde
Deltapine 45A	12.55 bcde
Deltapine 16	12.50 bcde
Stoneville 603	12.40 cde
S69-973	12.30 cde
Rex SL 66	12.30 cde
Auburn M	12.20 de
Stoneville 213	12.15 de
Brycot 4-XP4	11.95 e
Stoneville 7A	11.90 e

Table 22. Performance of Cotton Varieties Grown in Southeast Missouri on Heavy Clay, Wilt-free, Non-irrigated Soil, 1971 (7133), Portageville.

Variety or Strain	Lint Yield		% of Crop	Lint %	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
Delcot 277 (I70-3)	850.20 a	751.99	88	38.10	1.22	4.20	117.50
Mo. 63-277F	840.73 a	697.69	83	37.50	1.24	4.35	121.00
Delcot 277	812.48 ab	699.89	86	38.20	1.20	4.30	123.00
S69-973	801.17 abc	634.04	79	37.45	1.16	4.45	118.00
S69-988	768.39 bcd	655.54	85	37.30	1.18	4.30	109.00
Brycot 4-XP4	761.96 bcde	569.21	75	37.25	1.13	4.80	109.00
Deltapine 16	740.45 cdef	577.17	78	37.10	1.17	4.60	107.50
Coker 310	727.75 defg	613.90	85	38.10	1.23	4.55	113.50
Stoneville 7A	726.89 defg	522.74	72	38.45	1.12	5.00	105.50
Stoneville 213	717.05 defg	523.40	73	38.45	1.13	4.90	107.50
Deltapine 6225	699.70 efgh	522.72	75	38.75	1.16	4.65	113.00
Deltapine 45A	686.44 fgh	503.55	73	37.45	1.15	4.60	114.00
Rex SL 66	667.68 ghi	552.74	83	34.75	1.16	4.55	110.00
Stoneville 603	652.05 hi	502.36	77	35.45	1.17	4.50	109.00
Auburn M	609.88 ij	533.11	87	34.95	1.14	4.50	107.00
MO-DEL 1	573.63 j	451.37	79	34.90	1.17	4.60	111.50
Mean	727.28	581.96	80	37.13	1.17	4.55	112.25
MI _{LSR} (.05)	58.40	56.67		1.17	.03	.22	4.20
Ma _{LSR} (.05)	69.51	67.45		1.35	.04	.25	4.83
C.V. %	6.21	7.53		1.49	1.22	2.27	1.76

Table 23. Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri on Heavy Clay, Wilt-free, Non-irrigated Soil, 1971 (7133 Portageville, Lee Field)

Variety	Seed Cotton Lbs/Acre	Variety	Total Lint Lbs/Acre
Delcot 277 (I70-3)	2244.98 a	Delcot 277 (I70-3)	850.20 a
Mo63-277F	2154.19 ab	Mo63-277F	840.73 a
S69-973	2137.68 ab	Delcot 277	812.48 ab
Delcot 277	2123.93 ab	S69-973	801.17 abc
S69-988	2118.42 ab	S69-988	768.39 bcd
Brycot 4-XP4	2066.15 abc	Brycot 4-XP4	761.96 bcde
Deltapine 16	2033.14 abcd	Deltapine 16	740.45 cdef
Rex SL 66	1967.11 bcde	Coker 310	727.75 defg
Stoneville 7A	1920.34 bcde	Stoneville 7A	726.89 defg
Deltapine 45A	1884.57 cde	Stoneville 213	717.05 defg
Coker 310	1843.30 cde	Deltapine 6225	699.70 efgh
Stoneville 213	1837.80 cde	Deltapine 45A	686.44 fgh
Deltapine 6225	1824.05 de	Rex SL 66	667.68 ghi
Stoneville 603	1796.53 de	Stoneville 603	652.05 hi
Auburn M	1744.26 ef	Auburn M	609.88 ij
MO-DEL 1	1570.93 f	MO-DEL 1	573.63 j

Variety	1st Pick Lint-Lbs/Acre
Delcot 277 (I70-3)	751.99 a
Delcot 277	699.89 ab
Mo63-277F	697.69 ab
S69-988	655.54 bc
S69-973	634.04 cd
Coker 310	613.90 cde
Deltapine 16	577.17 def
Brycot 4-XP4	569.21 ef
Rex SL 66	552.74 efg
Auburn M	533.11 fg
Stoneville 213	523.40 fg
Stoneville 7A	522.74 fg
Deltapine 6225	522.72 fg
Deltapine 45A	503.55 gh
Stoneville 603	502.36 gh
MO-DEL 1	451.37 h

Variety	Stand Hills/Plot
Stoneville 7A	119.80 a
Delcot 277 (I70-3)	118.40 ab
MO-DEL 1	118.20 ab
Coker 310	118.00 ab
Mo63-277F	118.00 ab
Brycot 4-XP4	117.80 ab
Deltapine 16	117.20 ab
Stoneville 213	117.00 ab
Deltapine 6225	117.00 ab
Stoneville 603	116.80 ab
Auburn M	116.60 ab
Deltapine 45A	116.40 ab
S69-988	115.80 ab
S69-973	115.60 ab
Rex SL 66	114.40 b
Delcot 277	114.00 b

Variety	1st Flower-days
S69-973	74.40 a
Delcot 277 (I70-3)	73.80 ab
Deltapine 45A	73.40 abc
Deltapine 6225	73.40 abc
Delcot 277	72.80 abc
Mo63-277F	72.80 abc
Stoneville 603	72.60 abcd
Stoneville 7A	72.60 abcd
Stoneville 213	72.20 abcd
Deltapine 16	71.80 bcd
Rex SL 66	71.80 bcd
Brycot 4-XP4	71.60 bcd
MO-DEL 1	71.20 cd
S69-988	70.40 d
Auburn M	67.80 e
Coker 310	67.80 e

Variety	Bacterial Blight Incidence
Rex SL 66	5.00 a
S69-988	5.00 a
Stoneville 7A	4.80 ab
S69-973	4.80 ab
Brycot 4-XP4	4.40 abc
Deltapine 6225	4.40 abc
Stoneville 213	4.20 bc
Deltapine 16	4.20 bc
Mo63-277F	4.20 bc
MO-DEL 1	4.20 bc
Delcot 277 (I70-3)	4.00 cd
Delcot 277	4.00 cd
Deltapine 45A	4.00 cd
Coker 310	3.80 cd
Stoneville 603	3.40 d
Auburn M	3.40 d

Variety	Seedling Vigor	
	Index	
Mo63-277F	4.00	a
S69-988	4.00	a
S69-973	4.00	a
MO-DEL 1	4.00	a
Brycot 4-XP4	3.80	ab
Deltapine 45A	3.80	ab
Stoneville 7A	3.80	ab
Coker 310	3.80	ab
Delcot 277	3.80	ab
Stoneville 213	3.80	ab
Deltapine 6225	3.60	abc
Delcot 277 (I70-3)	3.60	abc
Deltapine 16	3.60	abc
Stoneville 603	3.40	abc
Auburn M	3.20	bc
Rex SL 66	3.00	c

Variety	Lodging Index	
	Brycot 4-XP4	3.00
Deltapine 45A	3.00	a
Stoneville 7A	3.00	a
S69-988	3.00	a
Deltapine 6225	3.00	a
Coker 310	3.00	a
MO-DEL 1	3.00	a
S69-973	2.80	a
Stoneville 213	2.80	a
Deltapine 16	2.80	a
Stoneville 603	2.60	a
Delcot 277 (I70-3)	2.20	b
Mo63-277F	2.00	bc
Delcot 277	2.00	bc
Auburn M	1.80	c
Rex SL 66	1.00	d

Variety	Lint Percent	
	Deltapine 6225	38.75
Stoneville 213	38.45	ab
Stoneville 7A	38.45	ab
Delcot 277	38.20	abc
Delcot 277 (I70-3)	38.10	abc
Coker 310	38.10	abc
Mo63-277F	37.50	abc
Deltapine 45A	37.45	abc
S69-973	37.45	abc
S69-988	37.30	bc
Brycot 4-XP4	37.25	bc
Deltapine 16	37.10	c
Stoneville 603	35.45	d
Auburn M	34.95	d
MO-DEL 1	34.90	d
Rex SL 66	34.75	d

Variety	2.5% Span Length	
	Mo63-277F	1.24
Coker 310	1.23	ab
Delcot 277 (I70-3)	1.22	ab
Delcot 277	1.20	bc
S69-988	1.18	cd
Stoneville 603	1.17	cde
Deltapine 16	1.17	cde
MO-DEL 1	1.17	cde
S69-973	1.16	def
Deltapine 6225	1.16	def
Rex SL 66	1.16	def
Deltapine 45A	1.15	defg
Auburn M	1.14	efg
Brycot 4-XP4	1.13	fg
Stoneville 213	1.13	fg
Stoneville 7A	1.12	g

Variety	Height Index	
	MO-DEL 1	2.80
Deltapine 45A	2.60	ab
S69-988	2.60	ab
Stoneville 7A	2.50	abc
Coker 310	2.50	abc
Stoneville 603	2.40	bcd
Stoneville 213	2.40	bcd
Deltapine 16	2.40	bcd
Brycot 4-XP4	2.30	bcd
S69-973	2.30	bcd
Deltapine 6225	2.20	cdef
Delcot 277	2.10	def
Mo63-277F	2.00	ef
Delcot 277 (I70-3)	2.00	ef
Auburn M	1.90	f
Rex SL 66	1.50	g

Variety	Storm Resistance Index	
	Stoneville 603	3.80
S69-973	3.20	b
Deltapine 6225	3.20	b
Deltapine 45A	3.00	bc
Stoneville 213	3.00	bc
Deltapine 16	3.00	bc
MO-DEL 1	2.80	bc
Stoneville 7A	2.60	cd
Coker 310	2.60	cd
Rex SL 66	2.20	de
Delcot 277	2.20	de
S69-988	2.20	de
Brycot 4-XP4	2.00	e
Mo63-277F	2.00	e
Delcot 277 (I70-3)	2.00	e
Auburn M	2.00	e

Variety	50% Span Length	
	Mo63-277F	0.57
Delcot 277 (I70-3)	0.55	ab
Deltapine 45A	0.53	bc
S69-988	0.53	bc
Stoneville 603	0.53	bc
Coker 310	0.53	bc
MO-DEL 1	0.53	bc
Delcot 277	0.53	bc
S69-973	0.52	bcd
Deltapine 6225	0.52	bcd
Brycot 4-XP4	0.51	cd
Stoneville 213	0.51	cd
Rex SL 66	0.51	cd
Deltapine 16	0.51	cd
Stoneville 7A	0.49	d
Auburn M	0.49	d

Variety	Length-Uniformity Index	
	Mo63-277F	46.00
Deltapine 45A	46.00	a
Stoneville 603	45.00	ab
Stoneville 213	45.00	ab
Deltapine 6225	45.00	ab
MO-DEL 1	45.00	ab
S69-973	45.00	ab
Delcot 277	44.50	abc
Brycot 4-XP4	44.50	abc
S69-988	44.50	abc
Delcot 277 (I70-3)	44.50	abc
Rex SL 66	44.00	abc
Stoneville 7A	44.00	abc
Deltapine 16	43.50	bc
Auburn M	43.00	bc
Coker 310	42.50	c

Table 23 continued

Variety	Micronaire	Variety	Colorimeter Rd
Stoneville 7A	5.00 a	Deltapine 16	73.50 a
Stoneville 213	4.90 a	Deltapine 45A	72.50 ab
Brycot 4-XP4	4.80 ab	Rex SL 66	72.50 ab
Deltapine 6225	4.65 bc	Brycot 4-XP4	72.00 ab
Deltapine 45A	4.60 bc	Mo63-277F	72.00 ab
MO-DEL 1	4.60 bc	S69-973	72.00 ab
Deltapine 16	4.60 bc	Deltapine 6225	71.50 ab
Coker 310	4.55 cd	Stoneville 213	71.50 ab
Rex SL 66	4.55 cd	Delcot 277 (I70-3)	71.50 ab
Auburn M	4.50 cde	Coker 310	71.50 ab
Stoneville 603	4.50 cde	Auburn M	71.00 abc
S69-973	4.45 cde	S69-988	71.00 abc
Mo63-277F	4.35 def	Delcot 277	71.00 abc
Delcot 277	4.30 ef	Stoneville 603	70.50 bc
S69-988	4.30 ef	Stoneville 7A	70.50 bc
Delcot 277 (I70-3)	4.20 f	MO-DEL 1	68.50 c

Variety	Colorimeter b	Variety	Trash
Delcot 277	8.50 a	Stoneville 213	4.50 a
MO-DEL 1	8.50 a	Brycot 4-XP4	4.00 ab
Delcot 277 (I70-3)	8.25 ab	Stoneville 7A	4.00 ab
S69-973	8.25 ab	Deltapine 45A	4.00 ab
S69-988	8.25 ab	Stoneville 603	4.00 ab
Mo63-277F	8.00 abc	Coker 310	4.00 ab
Auburn M	8.00 abc	S69-973	4.00 ab
Rex SL 66	8.00 abc	S69-988	4.00 ab
Coker 310	8.00 abc	Delcot 277 (I70-3)	4.00 ab
Stoneville 213	8.00 abc	Rex SL 66	4.00 ab
Stoneville 603	7.75 bc	Mo63-277F	4.00 ab
Brycot 4-XP4	7.75 bc	MO-DEL 1	4.00 ab
Deltapine 6225	7.75 bc	Deltapine 6225	4.00 ab
Deltapine 45A	7.75 bc	Delcot 277	4.00 ab
Stoneville 7A	7.75 bc	Auburn M	4.00 ab
Deltapine 16	7.50 c	Deltapine 16	3.50 b

Variety	Yarn Strength 22's	Variety	Yarn Tenacity 27 tex
Delcot 277	123.00 a	Delcot 277	14.10 a
Mo63-277F	121.00 ab	Mo63-277F	13.95 ab
S69-973	118.00 bc	Delcot 277 (I70-3)	13.55 bc
Delcot 277 (I70-3)	117.50 bcd	S69-973	13.50 bc
Deltapine 45A	114.00 cde	Deltapine 45A	13.15 cd
Coker 310	113.50 cdef	Coker 310	13.05 cde
Deltapine 6225	113.00 def	Deltapine 6225	13.05 cde
MO-DEL 1	111.50 efg	MO-DEL 1	12.85 def
Rex SL 66	110.00 efgh	Rex SL 66	12.70 defg
Brycot 4-XP4	109.00 fgh	S69-988	12.60 defg
Stoneville 603	109.00 fgh	Brycot 4-XP4	12.55 defg
S69-988	109.00 fgh	Stoneville 603	12.55 defg
Stoneville 213	107.50 gh	Deltapine 16	12.40 fg
Deltapine 16	107.50 gh	Stoneville 213	12.35 fg
Auburn M	107.00 gh	Auburn M	12.30 g
Stoneville 7A	105.50 h	Stoneville 7A	12.20 g

Table 24. Performance of Cotton Varieties Grown in Southeast Missouri on Fine Sand, with Fusarium Wilt-Root Disease, Non-irrigated Soil, 1971 (7144), Portageville.^{1/}

Variety or Strain	Lint Yield		% of Crop	Lint %	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
Coker 310	1117.15 a	1058.19	95	40.20	1.20	4.15	109.00
S69-988	1097.42 a	1045.48	95	37.95	1.15	3.70	107.00
Auburn M	1093.60 a	1063.43	97	37.35	1.11	3.80	101.50
Mo. 63-277F	1006.53 b	944.39	94	38.35	1.19	3.70	116.50
Rex SL 66	988.93 bc	937.52	95	37.50	1.11	3.95	98.00
Stoneville 603	986.82 bc	885.94	90	37.55	1.11	4.15	105.00
Delcot 277	971.04 bc	964.54	99	38.85	1.15	3.75	112.00
Deltapine 6225	966.30 bc	853.43	88	41.45	1.10	4.30	110.00
Delcot 277 (I70-3)	944.77 bc	915.44	97	37.80	1.20	3.60	115.50
S69-973	937.65 bc	832.19	89	37.80	1.10	3.65	109.50
MO-DEL 1	924.01 bc	868.90	94	36.45	1.14	4.30	110.50
Deltapine 45A	920.88 bc	811.55	88	39.80	1.11	4.05	105.50
Stoneville 7A	918.56 bc	756.70	82	39.50	1.12	3.75	103.50
Brycot 4-XP4	910.79 bc	748.92	82	40.25	1.12	4.20	100.50
Deltapine 16	907.45 bc	820.61	90	38.35	1.15	3.90	110.00
Stoneville 213	894.03 c	794.78	89	40.35	1.08	4.30	101.50
Mean	973.82	893.88	92	38.72	1.14	3.95	107.22
MiLSR (.05)	88.14	102.00		1.37	.03	.49	7.48
MaLSR (.05)	104.90	121.40		1.57	.03	.56	8.91
C.V. %	7.00	8.83		1.66	1.22	5.81	3.39

^{1/} Fusarium Wilt-root knot disease very light.

Table 25. Performance and Characteristics of Cotton Varieties Grown in Southeast Missouri on Fine Sand, Wilt-free, Non-irrigated Soil, 1971 (7144 Portageville, Marsh Field)

Variety	Seed Cotton Lbs/Acre		Variety	Total Lint Lbs/Acre
Auburn M	3026.32	a	Coker 310	1117.15
S69-988	2894.26	ab	S69-988	1097.42
Delcot 277	2682.42	abc	Auburn M	1093.60
Coker 310	2663.16	abc	Mo63-277F	1001.53
Rex SL 66	2616.39	abcd	Rex SL 66	988.93
S69-973	2580.62	bcd	Stoneville 603	986.82
Delcot 277 (I70-3)	2572.37	bcd	Delcot 277	971.04
Mo63-277F	2547.61	bcd	Deltapine 6225	966.30
Stoneville 603	2533.85	bcd	Delcot 277 (I70-3)	944.77
MO-DEL 1	2432.06	cd	S69-973	937.65
Deltapine 16	2418.30	cd	MO-DEL 1	924.01
Deltapine 45A	2319.26	cd	Deltapine 45A	920.88
Brycot 4-XP4	2289.00	cd	Stoneville 7A	918.56
Stoneville 213	2258.73	cd	Brycot 4-XP4	910.79
Stoneville 7A	2244.98	cd	Deltapine 16	907.45
Deltapine 6225	2203.71	d	Stoneville 213	894.03

Variety	1st Pick Lint-Lbs/Acre		Variety	Stand Hills/Plot
Auburn M	1063.43	a	Stoneville 213	90.00
Coker 310	1058.19	a	Stoneville 603	89.40
S69-988	1045.48	ab	Mo63-277F	89.40
Delcot 277	964.54	abc	Coker 310	89.40
Mo63-277F	944.39	bcd	Brycot 4-XP4	89.20
Rex SL 66	937.52	bcd	Deltapine 45A	89.00
Delcot 277 (I70-3)	915.44	cde	S69-973	89.00
Stoneville 603	885.94	cdef	S69-988	89.00
MO-DEL 1	868.90	cdefg	Rex SL 66	89.00
Deltapine 6225	853.43	cdefgh	Deltapine 16	89.00
S69-973	832.19	defgh	MO-DEL 1	88.80
Deltapine 16	820.61	efgh	Delcot 277 (I70-3)	88.40
Deltapine 45A	811.55	efgh	Stoneville 7A	88.40
Stoneville 213	794.78	fgh	Deltapine 6225	88.40
Stoneville 7A	756.70	gh	Delcot 277	88.20
Brycot 4-XP4	748.92	h	Auburn M	87.40

Variety	1st Flower-days		Variety	Bacterial Blight Incidence
S69-973	60.40	a	Brycot 4-XP4	5.00
Deltapine 16	59.40	ab	Deltapine 45A	5.00
Brycot 4-XP4	59.40	ab	Stoneville 7A	5.00
Deltapine 6225	59.40	ab	Stoneville 213	5.00
Stoneville 7A	59.40	ab	Stoneville 603	5.00
Delcot 277 (I70-3)	59.40	ab	Coker 310	5.00
S69-988	59.20	ab	S69-973	5.00
Stoneville 213	59.20	ab	S69-988	5.00
Rex SL 66	59.00	ab	Delcot 277 (I70-3)	5.00
Delcot 277	59.00	ab	Rex SL 66	5.00
Mo63-277F	58.60	ab	Mo63-277F	5.00
Deltapine 45A	58.60	ab	Deltapine 16	5.00
Stoneville 603	58.40	ab	Deltapine 6225	5.00
MO-DEL 1	57.80	bc	Delcot 277	5.00
Coker 310	56.40	cd	Auburn M	5.00
Auburn M	55.40	d	MO-DEL	5.00

Table 25 continued

Seedling Vigor		Height Index	
Variety	Index	Variety	Index
Brycot 4-XP4	4.00 a	S69-988	2.90 a
Delcot 277	4.00 a	Brycot 4-XP4	2.80 a
Mo63-277F	4.00 a	Stoneville 7A	2.80 a
Stoneville 213	4.00 a	Delcot 277	2.70 a
Delcot 277 (I70-3)	4.00 a	Stoneville 213	2.70 a
S69-988	4.00 a	S69-973	2.60 ab
S69-973	4.00 a	Deltapine 45A	2.60 ab
Deltapine 45A	3.80 a	Deltapine 16	2.60 ab
Stoneville 603	3.80 a	Stoneville 603	2.50 ab
Coker 310	3.80 a	Deltapine 6225	2.50 ab
Deltapine 6225	3.80 a	MO-DEL 1	2.50 ab
MO-DEL 1	3.60 a	Delcot 277 (I70-3)	2.40 ab
Rex SL 66	3.60 a	Coker 310	2.40 ab
Stoneville 7A	3.40 a	Auburn M	2.30 ab
Auburn M	3.40 a	Mo63-277F	2.00 b
Deltapine 16	3.40 a	Rex SL 66	2.00 b

Lodging Index		Storm Resistance	
Variety	Index	Variety	Index
Brycot 4-XP4	3.00 a	Deltapine 16	4.00 a
Deltapine 45A	3.00 a	S69-973	3.80 ab
Stoneville 7A	3.00 a	Stoneville 603	3.60 abc
Stoneville 213	3.00 a	MO-DEL 1	3.60 abc
Deltapine 6225	3.00 a	Deltapine 6225	3.60 abc
Coker 310	3.00 a	Brycot 4-XP4	3.20 abcd
S69-988	3.00 a	Stoneville 213	3.00 bcde
Delcot 277	3.00 a	Stoneville 7A	3.00 bcde
Deltapine 16	3.00 a	Coker 310	2.80 cde
MO-DEL 1	3.00 a	Rex SL 66	2.40 de
S69-973	2.80 ab	Deltapine 45A	2.20 e
Stoneville 603	2.80 ab	Mo63-277F	2.00 e
Mo63-277F	2.60 abc	Delcot 277 (I70-3)	2.00 e
Delcot 277 (I70-3)	2.60 abc	Delcot 277	2.00 e
Auburn M	2.40 bc	Auburn M	2.00 e
Rex SL 66	2.20 c	S69-988	2.00 e

Lint Percent		50% Span Length	
Variety	Index	Variety	Index
Deltapine 6225	41.45 a	Delcot 277 (I70-3)	0.52 a
Stoneville 213	40.35 ab	Mo63-277F	0.52 a
Brycot 4-XP4	40.25 ab	Coker 310	0.51 ab
Coker 310	40.20 ab	S69-988	0.51 ab
Deltapine 45A	39.80 bc	Delcot 277	0.51 ab
Stoneville 7A	39.50 bc	MO-DEL 1	0.51 ab
Delcot 277	38.85 bcd	Auburn M	0.50 abc
Mo63-277F	38.35 cd	Deltapine 16	0.50 abc
Deltapine 16	38.35 cd	Stoneville 603	0.49 abc
S69-988	37.95 de	Brycot 4-XP4	0.49 abc
Delcot 277 (I70-3)	37.80 de	Deltapine 45A	0.49 abc
S69-973	37.80 de	Stoneville 7A	0.48 abc
Stoneville 603	37.55 de	Deltapine 6225	0.48 abc
Rex SL 66	37.50 de	Rex SL 66	0.48 abc
Auburn M	37.35 de	S69-973	0.47 bc
MO-DEL 1	36.45 e	Stoneville 213	0.46 c

2.5% Span Length		Length-Uniformity	
Variety	Index	Variety	Index
Delcot 277 (I70-3)	1.20 a	Auburn M	44.50 a
Coker 310	1.20 a	MO-DEL 1	44.50 a
Mo63-277F	1.19 a	Stoneville 603	44.00 a
Deltapine 16	1.15 b	Deltapine 45A	44.00 a
Delcot 277	1.15 b	S69-988	44.00 a
S69-988	1.15 b	Brycot 4-XP4	43.50 a
MO-DEL 1	1.14 bc	Delcot 277	43.50 a
Brycot 4-XP4	1.12 bcd	Rex SL 66	43.50 a
Stoneville 7A	1.12 bcd	Deltapine 16	43.50 a
Stoneville 603	1.11 cde	Stoneville 7A	43.00 a
Auburn M	1.11 cde	Deltapine 6225	43.00 a
Deltapine 45A	1.11 cde	Mo63-277F	43.00 a
Rex SL 66	1.11 cde	Delcot 277 (I70-3)	42.50 a
Deltapine 6225	1.10 de	Coker 310	42.00 a
S69-973	1.10 de	S69-973	42.00 a
Stoneville 213	1.08 e	Stoneville 213	42.00 a

Table 25 continued

Variety	Micronaire	Variety	Colorimeter Rd
Deltapine 6225	4.30 a	Deltapine 16	72.50 a
Stoneville 213	4.30 a	Auburn M	71.50 ab
MO-DEL 1	4.30 a	Delcot 277 (I70-3)	71.00 ab
Brycot 4-XP4	4.20 ab	Deltapine 6225	71.00 ab
Stoneville 603	4.15 abc	Stoneville 7A	70.50 ab
Coker 310	4.15 abc	Delcot 277	70.00 abc
Deltapine 45A	4.05 abc	S69-988	70.00 abc
Rex SL 66	3.95 abc	Stoneville 213	69.50 abc
Deltapine 16	3.90 abc	Brycot 4-XP4	69.00 abc
Auburn M	3.80 abc	Deltapine 45A	69.00 abc
Stoneville 7A	3.75 abc	Mo63-277F	68.50 abc
Delcot 277	3.75 abc	S69-973	68.50 abc
Mo63-277F	3.70 bc	Rex SL 66	68.00 bc
S69-988	3.70 bc	Coker 310	68.00 bc
S69-973	3.65 bc	Stoneville 603	68.00 bc
Delcot 277 (I70-3)	3.60 c	MO-DEL 1	66.00 c

Variety	Colorimeter b	Variety	Trash
S69-973	8.75 a	Mo63-277F	5.00 a
Delcot 277	8.75 a	Coker 310	5.00 a
MO-DEL 1	8.75 a	MO-DEL 1	5.00 a
Rex SL 66	8.50 ab	Delcot 277 (I70-3)	4.50 ab
S69-988	8.50 ab	S69-973	4.50 ab
Delcot 277 (I70-3)	8.25 abc	Deltapine 45A	4.50 ab
Stoneville 603	8.25 abc	Delcot 277	4.50 ab
Mo63-277F	8.25 abc	Stoneville 603	4.00 b
Deltapine 45A	8.25 abc	Brycot 4-XP4	4.00 b
Stoneville 213	8.25 abc	Stoneville 213	4.00 b
Coker 310	8.25 abc	Stoneville 7A	4.00 b
Brycot 4-XP4	8.00 bc	S69-988	4.00 b
Stoneville 7A	8.00 bc	Deltapine 6225	4.00 b
Deltapine 6225	7.75 c	Rex SL 66	4.00 b
Auburn M	7.75 c	Auburn M	4.00 b
Deltapine 16	7.75 c	Deltapine 16	3.00 c

Variety	Yarn Strength 22's	Variety	Yarn Tenacity 27 tex
Mo63-277F	116.50 a	Mo63-277F	13.45 a
Delcot 277 (I70-3)	115.50 ab	Delcot 277 (I70-3)	13.35 ab
Delcot 277	112.00 abc	Delcot 277	12.90 abc
MO-DEL 1	110.50 abc	MO-DEL 1	12.75 abcd
Deltapine 6225	110.00 abcd	Deltapine 6225	12.65 abcd
Deltapine 16	110.00 abcd	S69-973	12.60 abcde
S69-973	109.50 abcd	Coker 310	12.55 bcdef
Coker 310	109.00 abcde	Deltapine 16	12.35 cdefg
S69-988	107.00 bcde	S69-988	12.30 cdefg
Deltapine 45A	105.50 cdef	Deltapine 45A	12.15 cdefgh
Stoneville 603	105.00 cdef	Stoneville 603	12.10 cdefgh
Stoneville 7A	103.50 cdef	Stoneville 7A	11.95 defgh
Auburn M	101.50 def	Stoneville 213	11.75 efg
Stoneville 213	101.50 def	Auburn M	11.70 fgh
Brycot 4-XP4	100.50 ef	Brycot 4-XP4	11.55 gh
Rex SL 66	98.00 f	Rex SL 66	11.30 h

Table 26. Performance of Cotton Varieties, planted May 19 (late), in Southeast Missouri on Sandy Loam, Wilt-free, Non-irrigated Soil, 1971 (7151), Portageville.

Variety or Strain	Lint Yield		% of Crop	Lint %	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
Delcot 277 (I70-3)	921.78 a	921.78	100	38.05	1.19	3.40	115.00
S69-988	916.85 a	916.85	100	36.45	1.15	3.80	104.00
Coker 310	916.07 a	916.07	100	39.55	1.20	3.95	109.50
Mo. 63-277F	845.18 ab	845.18	100	38.30	1.16	3.50	116.50
Delcot 277	825.11 abc	825.11	100	37.65	1.18	3.45	114.50
Stoneville 603	757.43 bcd	757.43	100	36.70	1.11	4.00	106.00
Deltapine 45A	736.76 cde	736.76	100	37.95	1.10	4.05	111.00
Auburn M	696.00 def	696.00	100	35.95	1.08	3.85	97.00
Stoneville 213	670.90 defg	670.90	100	37.60	1.08	4.35	104.50
Brycot 4-XP4	668.18 defg	668.18	100	38.05	1.08	4.15	106.00
Deltapine 16	664.95 defg	664.95	100	36.80	1.13	3.85	109.00
S69-973	651.98 efgh	651.98	100	37.80	1.13	3.75	110.50
Deltapine 6225	620.84 fghi	620.84	100	38.65	1.10	4.25	113.50
Stoneville 7A	577.91 ghi	577.91	100	38.55	1.08	4.15	104.50
Rex SL 66	566.59 hi	566.59	100	33.55	1.10	3.75	103.50
MO-DEL 1	536.35 i	536.35	100	35.80	1.11	4.20	100.00
Mean	723.31	723.31	100	37.34	1.13	3.90	107.81
MI LSR (.05)	88.59	88.59		1.07	.04	.25	6.99
MA LSR (.05)	105.40	105.40		1.23	.04	.29	8.04
C.V. %	9.48	9.48		1.35	1.63	2.99	3.05

Table 27. Performance and Characteristics of Cotton Varieties Grown on Sandy Loam, Wilt-free, Non-irrigated Soil, 1971 (7151 Portageville, Lee Farm) Planted May 19 (Late)

Variety	Seed Cotton Lbs/Acre		Variety	Total Lint-Lbs/Acre	
Delcot 277 (I70-3)	2500.84	a	Delcot 277 (I70-3)	921.78	a
S69-988	2412.80	ab	S69-988	916.85	a
Mo63-277F	2247.73	abc	Coker 310	916.07	a
Coker 310	2242.23	abc	Mo63-277F	845.18	ab
Stoneville 603	2154.19	abc	Delcot 277	825.11	abc
Delcot 277	2123.93	abc	Stoneville 603	757.43	bcd
Deltapine 45A	2022.13	bcd	Deltapine 45A	736.76	cde
Auburn M	1950.60	cde	Auburn M	696.00	def
Brycot 4-XP4	1925.84	cde	Stoneville 213	670.90	defg
Deltapine 16	1851.56	cde	Brycot 4-XP4	668.18	defg
Rex SL 66	1725.00	def	Deltapine 16	664.95	defg
S69-973	1708.49	def	S69-973	651.98	efgh
Deltapine 6225	1620.46	ef	Deltapine 6225	620.84	efghi
Stoneville 213	1590.19	ef	Stoneville 7A	577.91	ghi
Stoneville 7A	1430.62	f	Rex SL 66	566.59	hi
MO-DEL 1	1427.87	f	MO-DEL 1	536.35	i

Variety	1st Pick Lint-Lbs/Acre		Variety	Stand Hills/Plot	
Delcot 277 (I70-3)	921.78	a	S69-973	89.00	a
S69-988	916.85	a	Coker 310	89.00	a
Coker 310	916.07	a	Brycot 4-XP4	88.80	a
Mo63-277F	845.18	ab	Delcot 277	88.40	a
Delcot 277	825.11	abc	Stoneville 603	88.20	a
Stoneville 603	757.43	bcd	MO-DEL 1	88.20	a
Deltapine 45A	736.76	cde	Rex SL 66	88.00	a
Auburn M	696.00	def	Delcot 277 (I70-3)	87.60	a
Stoneville 213	670.90	defg	Mo63-277F	87.20	a
Brycot 4-XP4	668.18	defg	Stoneville 213	86.20	a
Deltapine 16	664.95	defg	Stoneville 7A	86.20	a
S69-973	651.98	efgh	Deltapine 45A	86.20	a
Deltapine 6225	620.84	efghi	Deltapine 6225	86.20	a
Stoneville 7A	577.91	ghi	S69-988	85.40	a
Rex SL 66	566.59	hi	Auburn M	85.00	a
MO-DEL 1	536.35	i	Deltapine 16	85.00	a

Variety	1st Flower-days		Variety	Bacterial Blight Incidence	
S69-973	64.20	a	S69-973	5.00	a
Stoneville 213	63.00	ab	Rex SL 66	5.00	a
Stoneville 7A	62.40	abc	S69-988	5.00	a
Delcot 277 (I70-3)	62.20	abc	Coker 310	4.40	b
Delcot 277	61.80	abc	Brycot 4-XP4	4.20	bc
S69-988	61.80	abc	Delcot 277 (I70-3)	4.20	bc
Deltapine 6225	61.80	abc	Stoneville 7A	4.20	bc
MO-DEL 1	61.80	abc	Stoneville 213	4.20	bc
Mo63-277F	61.80	abc	Stoneville 603	4.00	bc
Deltapine 45A	61.60	abc	Deltapine 45A	4.00	bc
Rex SL 66	61.40	bc	Mo63-277F	4.00	bc
Brycot 4-XP4	61.20	bcd	Deltapine 16	4.00	bc
Stoneville 603	61.00	bcd	Deltapine 6225	4.00	bc
Deltapine 16	60.20	cde	Delcot 277	4.00	bc
Coker 310	58.80	de	MO-DEL 1	4.00	bc
Auburn M	58.40	e	Auburn M	3.80	c

Table 27 continued

Variety	Seedling Vigor Index	Variety	Lint Percent
Brycot 4-XP4	3.60 a	Coker 310	39.55 a
Stoneville 213	3.60 a	Deltapine 6225	38.65 ab
S69-973	3.60 a	Stoneville 7A	38.55 ab
S69-988	3.60 a	Mo63-277F	38.30 b
Mo63-277F	3.40 ab	Brycot 4-XP4	38.05 b
Coker 310	3.40 ab	Delcot 277 (I70-3)	38.05 b
Delcot 277	3.40 ab	Deltapine 45A	37.95 bc
MO-DEL 1	3.40 ab	S69-973	37.80 bcd
Stoneville 603	3.20 ab	Delcot 277	37.65 bcd
Delcot 277 (I70-3)	3.20 ab	Stoneville 213	37.60 bcde
Stoneville 7A	3.20 ab	Deltapine 16	36.80 cdef
Deltapine 45A	3.20 ab	Stoneville 603	36.70 def
Auburn M	3.00 ab	S69-988	36.45 ef
Deltapine 16	3.00 ab	Auburn M	35.95 f
Deltapine 6225	2.80 ab	MO-DEL 1	35.80 f
Rex SL 66	2.60 b	Rex SL 66	33.55 g

Variety	50% Span Length	Variety	2.5% Span Length
Delcot 277 (I70-3)	0.51 a	Coker 310	1.20 a
Mo63-277F	0.50 ab	Delcot 277 (I70-3)	1.19 ab
S69-973	0.50 ab	Delcot 277	1.18 ab
Coker 310	0.49 abc	Mo63-277F	1.16 abc
S69-988	0.49 abc	S69-988	1.15 bcd
Stoneville 603	0.49 abc	S69-973	1.13 cde
Delcot 277	0.48 abc	Deltapine 16	1.13 cde
Deltapine 16	0.48 abc	Stoneville 603	1.11 def
Deltapine 6225	0.48 abc	MO-DEL 1	1.11 def
Deltapine 45A	0.47 bc	Deltapine 6225	1.10 ef
Stoneville 7A	0.47 bc	Deltapine 45A	1.10 ef
MO-DEL 1	0.47 bc	Rex SL 66	1.10 ef
Brycot 4-XP4	0.46 c	Stoneville 7A	1.08 f
Rex SL 66	0.46 c	Brycot 4-XP4	1.08 f
Auburn M	0.46 c	Auburn M	1.08 f
Stoneville 213	0.46 c	Stoneville 213	1.08 f

Variety	Length-Uniformity Index	Variety	Micronaire
Stoneville 603	43.50 a	Stoneville 213	4.35 a
S69-973	43.50 a	Deltapine 6225	4.25 ab
Deltapine 45A	43.00 a	MO-DEL 1	4.20 abc
Deltapine 6225	43.00 a	Stoneville 7A	4.15 abc
Stoneville 7A	43.00 a	Brycot 4-XP4	4.15 abc
S69-988	42.50 ab	Deltapine 45A	4.05 bcd
Mo63-277F	42.50 ab	Stoneville 603	4.00 bcde
Auburn M	42.50 ab	Coker 310	3.95 cde
Stoneville 213	42.00 abc	Auburn M	3.85 de
Deltapine 16	42.00 abc	Deltapine 16	3.85 de
MO-DEL 1	42.00 abc	S69-988	3.80 de
Brycot 4-XP4	42.00 abc	S69-973	3.75 ef
Delcot 277 (I70-3)	42.00 abc	Rex SL 66	3.75 ef
Rex SL 66	41.50 abc	Mo63-277F	3.50 fg
Delcot 277	40.50 bc	Delcot 277	3.45 g
Coker 310	40.00 c	Delcot 277 (I70-3)	3.40 g

Table 27 continued

Variety	Colorimeter Rd	Variety	Colorimeter b
Deltapine 16	72.00 a	MO-DEL 1	9.00 a
Stoneville 603	71.00 ab	Stoneville 213	8.75 ab
Deltapine 45A	71.00 ab	Delcot 277 (I70-3)	8.50 abc
Stoneville 7A	70.50 ab	Stoneville 7A	8.50 abc
Brycot 4-XP4	70.50 ab	S69-973	8.50 abc
Delcot 277	70.50 ab	S69-988	8.50 abc
Deltapine 6225	70.50 ab	Mo63-277F	8.25 bcd
Rex SL 66	70.00 ab	Rex SL 66	8.25 bcd
Auburn M	70.00 ab	Auburn M	8.25 bcd
Coker 310	70.00 ab	Delcot 277	8.25 bcd
Mo63-277F	70.00 ab	Deltapine 16	8.25 bcd
Delcot 277 (I70-3)	69.50 abc	Stoneville 603	8.00 cd
S69-988	69.00 bc	Brycot 4-XP4	8.00 cd
Stoneville 213	68.50 bc	Deltapine 45A	8.00 cd
S69-973	67.50 c	Coker 310	8.00 cd
MO-DEL 1	67.50 c	Deltapine 6225	7.75 d

Variety	Trash	Variety	Yarn Strength 22's
Stoneville 7A	5.00 a	Mo63-277F	116.50 a
MO-DEL 1	5.00 a	Delcot 277 (I70-3)	115.00 a
S69-973	5.00 a	Delcot 277	114.50 a
Mo63-277F	5.00 a	Deltapine 6225	113.50 ab
Auburn M	5.00 a	Deltapine 45A	111.00 abc
Deltapine 45A	4.50 a	S69-973	110.50 abc
Coker 310	4.50 a	Coker 310	109.50 abc
Stoneville 213	4.50 a	Deltapine 16	109.00 abc
Brycot 4-XP4	4.50 a	Brycot 4-XP4	106.00 bcd
Rex SL 66	4.50 a	Stoneville 603	106.00 bcd
Stoneville 603	4.50 a	Stoneville 213	104.50 cde
Deltapine 16	4.50 a	Stoneville 7A	104.50 cde
Delcot 277 (I70-3)	4.50 a	S69-988	104.00 cde
Delcot 277	4.50 a	Rex SL 66	103.50 cde
Deltapine 6225	4.50 a	MO-DEL 1	100.00 de
S69-988	4.50 a	Auburn M	97.00 e

Variety	Yarn Tenacity 27 tex
Mo63-277F	13.45 a
Delcot 277 (I70-3)	13.25 ab
Delcot 277	13.20 ab
Deltapine 6225	13.05 abc
Deltapine 45A	12.80 abcd
S69-973	12.70 abcd
Coker 310	12.60 abcd
Deltapine 16	12.50 bcd
Brycot 4-XP4	12.20 cde
Stoneville 603	12.20 cde
Stoneville 7A	12.05 def
Stoneville 213	12.00 def
S69-988	11.95 def
Rex SL 66	11.90 def
MO-DEL 1	11.50 ef
Auburn M	11.20 f

Table 28. Performance of Cotton Varieties Grown in Southeast Missouri on Sandy Loam, Wilt-free, Non-irrigated Soil, 1971 (71156), Sikeston.^{1/}

Variety or Strain	Lint Yield		% of Crop	Lint %	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
S69-988	827.48 a	827.48	100	38.50	1.12	3.55	107.00
Auburn M	817.39 a	817.39	100	35.85	1.08	3.30	97.00
Delcot 277 (I70-3)	813.26 ab	813.26	100	39.65	1.16	2.80	113.00
Coker 310	791.54 abc	791.54	100	38.40	1.17	3.45	103.00
MO-DEL 1	781.35 abc	781.35	100	35.80	1.09	3.50	96.00
Mo. 63-277F	754.44 abcd	754.44	100	37.45	1.15	2.90	105.50
Delcot 277	712.69 bcd	712.69	100	36.00	1.12	3.15	110.50
Stoneville 603	693.94 cde	693.94	100	37.00	1.08	3.25	96.50
Stoneville 213	657.43 def	657.43	100	38.00	1.07	3.65	99.50
Rex SL 66	612.67 ef	612.67	100	35.30	1.12	3.25	100.50
S69-973	574.26 fg	574.26	100	37.25	1.12	3.10	104.50
Brycot 4-XP4	571.82 fg	571.82	100	36.25	1.07	3.20	100.50
Deltapine 16	568.52 fg	568.52	100	36.80	1.11	2.90	104.50
Stoneville 7A	488.95 gh	488.95	100	38.70	1.07	3.40	98.00
Deltapine 6225	474.47 gh	474.47	100	37.85	1.11	3.50	104.50
Deltapine 45A	463.89 h	463.89	100	37.35	1.08	3.25	104.00
Mean	662.78	662.78	100	37.26	1.11	3.26	102.78
MiLSR (.05)	92.53	92.53		1.24	.04	.40	8.83
MaLSR (.05)	110.10	110.10		1.43	.04	.46	10.15
C.V. %	10.80	10.80		1.57	1.53	5.79	4.03

^{1/} Rainfall excessive, July and August.

Table 29. Performance and Characteristics of Cotton Varieties Grown on Sandy Loam, Wilt-free, Non-irrigated Soil, 1971 (71156 Sikeston)

Variety	Seed Cotton Lbs/Acre		Variety	Total Lint Lbs/Acre	
S69-988	2583.38	a	S69-988	827.48	a
Delcot 277 (I70-3)	2440.31	ab	Auburn M	817.39	a
Auburn M	2189.95	abc	Delcot 277 (I70-3)	813.26	ab
MO-DEL 1	2165.19	abc	Coker 310	791.54	abc
Coker 310	2162.44	abc	MO-DEL 1	781.35	abc
Stoneville 603	1854.31	bcd	Mo63-277F	754.44	abcd
Delcot 277	1854.31	bcd	Delcot 277	712.69	bcd
Stoneville 213	1818.54	bcd	Stoneville 603	693.94	cde
S69-973	1650.72	cde	Stoneville 213	657.43	def
Mo63-277F	1636.96	cde	Rex SL 66	613.67	ef
Rex SL 66	1612.20	cde	S69-973	574.26	fg
Deltapine 16	1535.17	cde	Brycot 4-XP4	571.82	fg
Brycot 4-XP4	1400.36	de	Deltapine 16	568.52	fg
Deltapine 45A	1227.03	de	Stoneville 7A	488.95	gh
Stoneville 7A	1210.53	de	Deltapine 6225	474.47	gh
Deltapine 6225	1067.47	e	Deltapine 45A	463.89	h

Variety	1st Pick Lint-Lbs/Acre		Variety	Stand-Hills/Plot	
S69-988	827.84	a	MO-DEL 1	104.40	a
Auburn M	817.39	a	Stoneville 7A	102.00	ab
Delcot 277 (I70-3)	813.26	ab	Stoneville 603	99.20	abc
Coker 310	791.54	abc	S69-988	99.20	abc
MO-DEL 1	781.35	abc	Brycot 4-XP4	99.00	abc
Mo63-277F	754.44	abcd	Deltapine 6225	97.80	abcd
Delcot 277	712.69	bcd	Mo63-277F	97.60	abcd
Stoneville 603	693.94	cde	Stoneville 213	97.40	bcd
Stoneville 213	657.43	def	S69-973	96.80	bcd
Rex SL 66	612.67	ef	Coker 310	96.20	bcd
S69-973	574.26	fg	Deltapine 45A	95.00	bcd
Brycot 4-XP4	571.82	fg	Deltapine 16	93.20	cde
Deltapine 16	568.52	fg	Delcot 277	92.80	cde
Stoneville 7A	488.95	gh	Rex SL 66	91.60	de
Deltapine 6225	474.47	gh	Delcot 277 (I70-3)	91.20	de
Deltapine 45A	463.89	h	Auburn M	88.20	e

Variety	1st Flower-days		Variety	Bacterial Blight Incidence	
Mo63-277F	71.80	a	Rex SL 66	5.00	a
Stoneville 213	71.40	ab	S69-988	5.00	a
Stoneville 7A	71.20	abc	S69-973	4.40	b
Deltapine 6225	71.00	abc	Brycot 4-XP4	4.00	bc
S69-973	71.00	abc	Stoneville 7A	4.00	bc
Deltapine 16	70.60	abcd	Stoneville 213	4.00	bc
Delcot 277 (I70-3)	70.60	abcd	Deltapine 16	4.00	bc
Rex SL 66	70.40	abcde	MO-DEL 1	4.00	bc
Delcot 277	70.40	abcde	Delcot 277 (I70-3)	3.80	cd
Deltapine 45A	70.20	abcde	Deltapine 45A	3.80	cd
Brycot 4-XP4	70.20	abcde	Coker 310	3.60	cde
Stoneville 603	70.00	abcde	Delcot 277	3.40	def
MO-DEL 1	69.60	bcde	Stoneville 603	3.20	ef
S69-988	69.20	cde	Mo63-277F	3.20	ef
Auburn M	68.80	de	Deltapine 6225	3.00	f
Coker 310	68.40	e	Auburn M	3.00	f

Table 29 continued

Variety	Seedling Vigor Index	Variety	Height Index
S69-988	3.60 a	Deltapine 6225	3.10 a
MO-DEL 1	3.60 a	Deltapine 45A	3.00 ab
Brycot 4-XP4	3.20 ab	Brycot 4-XP4	3.00 ab
Stoneville 213	3.20 ab	Stoneville 213	2.90 ab
S69-973	3.00 abc	Deltapine 16	2.90 ab
Stoneville 603	2.80 abcd	Stoneville 7A	2.80 abc
Delcot 277 (I70-3)	2.80 abcd	S69-973	2.80 abc
Deltapine 16	2.60 bcde	Delcot 277	2.80 abc
Stoneville 7A	2.60 bcde	Stoneville 603	2.80 abc
Mo63-277F	2.60 bcde	S69-988	2.70 abc
Coker 310	2.40 bcde	Mo63-277F	2.70 abc
Delcot 277	2.40 bcde	Rex SL 66	2.50 bc
Deltapine 6225	2.20 cde	Coker 310	2.50 bc
Deltapine 45A	2.20 cde	MO-DEL 1	2.50 bc
Rex SL 66	2.00 de	Delcot 277 (I70-3)	2.30 c
Auburn M	1.80 e	Auburn M	2.30 c

Variety	Lodging Index	Variety	Storm Resistance Index
Brycot 4-XP4	3.00 a	Stoneville 603	4.00 a
Deltapine 45A	3.00 a	Deltapine 16	4.00 a
Stoneville 7A	3.00 a	S69-973	4.00 a
Stoneville 213	3.00 a	Deltapine 45A	3.80 ab
Stoneville 603	3.00 a	Deltapine 6225	3.80 ab
Coker 310	3.00 a	MO-DEL 1	3.80 ab
S69-973	3.00 a	Stoneville 7A	3.60 abc
S69-988	3.00 a	Rex SL 66	3.20 abcd
Delcot 277 (I70-3)	3.00 a	Stoneville 213	3.00 bcde
Rex SL 66	3.00 a	Auburn M	2.80 cde
Mo63-277F	3.00 a	Coker 310	2.60 de
Deltapine 16	3.00 a	Delcot 277	2.60 de
Deltapine 6225	3.00 a	Delcot 277 (I70-3)	2.40 de
Delcot 277	3.00 a	Mo63-277F	2.40 de
Auburn M	3.00 a	Brycot 4-XP4	2.20 e
MO-DEL 1	3.00 a	S69-988	2.20 e

Variety	Lint Percent	Variety	50% Span Length
Delcot 277 (I70-3)	39.65 a	Delcot 277 (I70-3)	0.48 a
Stoneville 7A	38.70 ab	Rex SL 66	0.47 a
S69-988	38.50 abc	Deltapine 6225	0.47 a
Coker 310	38.40 abc	Coker 310	0.47 a
Stoneville 213	38.00 bcd	S69-973	0.46 a
Deltapine 6225	37.85 bcd	Stoneville 213	0.46 a
Mo63-277F	37.45 bcde	S69-988	0.46 a
Deltapine 45A	37.35 bcdef	MO-DEL 1	0.46 a
S69-973	37.25 cdef	Delcot 277	0.45 a
Stoneville 603	37.00 defg	Mo63-277F	0.44 a
Deltapine 16	36.80 defg	Brycot 4-XP4	0.44 a
Brycot 4-XP4	36.25 efgh	Auburn M	0.44 a
Delcot 277	36.00 fgh	Stoneville 603	0.44 a
Auburn M	35.85 gh	Deltapine 45A	0.44 a
MO-DEL 1	35.80 gh	Stoneville 7A	0.43 a
Rex SL 66	35.30 h	Deltapine 16	0.43 a

Table 29 continued

Variety	2.5% Span Length	Variety	Length Uniformity Index
Coker 310	1.17 a	Stoneville 213	43.00 a
Delcot 277 (I70-3)	1.16 ab	Deltapine 6225	41.50 ab
Mo 63-277F	1.15 abc	Rex SL 66	41.50 ab
S69-988	1.12 bcd	MO-DEL 1	41.50 ab
S69-973	1.12 bcd	S69-973	41.00 abc
Rex SL 66	1.12 bcd	Delcot 277 (I70-3)	41.00 abc
Delcot 277	1.12 bcd	Auburn M	41.00 abc
Deltapine 6225	1.11 cde	S69-988	41.00 abc
Deltapine 16	1.11 cde	Brycot 4-XP4	40.50 abc
MO-DEL 1	1.09 de	Deltapine 45A	40.50 abc
Stoneville 603	1.08 de	Stoneville 603	40.50 abc
Auburn M	1.08 de	Coker 310	40.00 abc
Deltapine 45A	1.08 de	Stoneville 7A	40.00 abc
Brycot 4-XP4	1.07 e	Delcot 277	40.00 abc
Stoneville 7A	1.07 e	Deltapine 16	39.00 bc
Stoneville 213	1.07 e	Mo 63-277F	38.00 c

Variety	Micronaire	Variety	Colorimeter Rd
Stoneville 213	3.65 a	Auburn M	71.00 a
S69-988	3.55 ab	Rex SL 66	70.50 a
Deltapine 6225	3.50 ab	Mo 63-277F	70.50 a
MO-DEL 1	3.50 ab	Deltapine 16	70.00 ab
Coker 310	3.45 ab	Stoneville 603	69.50 ab
Stoneville 7A	3.40 ab	Delcot 277	69.00 ab
Auburn M	3.30 abc	Brycot 4-XP4	69.00 ab
Stoneville 603	3.25 abcd	S69-988	69.00 ab
Deltapine 45A	3.25 abcd	Delcot 277 (I70-3)	69.00 ab
Rex SL 66	3.25 abcd	Deltapine 45A	69.00 ab
Brycot 4-XP4	3.20 abcd	Stoneville 7A	69.00 ab
Delcot 277	3.15 bcd	Stoneville 213	69.00 ab
S69-973	3.10 bcd	Coker 310	68.50 ab
Mo 63-277F	2.90 cd	Deltapine 6225	67.50 ab
Deltapine 16	2.90 cd	MO-DEL 1	67.50 ab
Delcot 277 (I70-3)	2.80 d	S69-973	66.50 b

Variety	Colorimeter b	Variety	Trash
Brycot 4-XP4	8.50 a	Delcot 277 (I70-3)	4.50 a
Stoneville 213	8.50 a	Deltapine 45A	4.50 a
S69-973	8.50 a	Mo63-277F	4.50 a
MO-DEL 1	8.50 a	Delcot 277	4.50 a
Deltapine 6225	8.50 a	Deltapine 6225	4.50 a
Deltapine 16	8.25 a	S69-973	4.50 a
Mo63-277F	8.25 a	Stoneville 213	4.00 a
Deltapine 45A	8.00 a	MO-DEL 1	4.00 a
Stoneville 7A	8.00 a	Brycot 4-XP4	4.00 a
Delcot 277	8.00 a	Rex SL 66	4.00 a
Auburn M	8.00 a	Stoneville 7A	4.00 a
Rex SL 66	7.75 a	Deltapine 16	4.00 a
Delcot 277 (I70-3)	7.75 a	Stoneville 603	4.00 a
Coker 310	7.75 a	Coker 310	4.00 a
S69-988	7.75 a	Auburn M	4.00 a
Stoneville 603	7.50 a	S69-988	3.50 a

Variety	Yarn Strength 22's	Variety	Yarn Tenacity 27 tex
Delcot 277 (I70-3)	113.00 a	Delcot 277 (I70-3)	13.00 a
Delcot 277	110.50 ab	Delcot 277	12.70 ab
S69-988	107.00 abc	S69-988	12.30 abc
Mo63-277F	105.50 abcd	Mo63-277F	12.20 abc
Deltapine 6225	104.50 abcd	Deltapine 6225	12.05 abcd
Deltapine 16	104.50 abcd	Deltapine 16	12.05 abcd
S69-973	104.50 abcd	S69-973	12.05 abcd
Deltapine 45A	104.00 abcd	Deltapine 45A	12.00 abcd
Coker 310	103.00 abcd	Coker 310	11.90 abcd
Brycot 4-XP4	100.50 bcd	Brycot 4-XP4	11.60 bcd
Rex SL 66	100.50 bcd	Rex SL 66	11.55 bcd
Stoneville 213	99.50 cd	Stoneville 213	11.45 cd
Stoneville 7A	98.00 cd	Stoneville 7A	11.30 cd
Auburn M	97.00 cd	Auburn M	11.20 cd
Stoneville 603	96.50 d	Stoneville 603	11.15 cd
MO-DEL 1	96.00 d	MO-DEL 1	11.00 d

Table 30: Performance of Varieties and Strains Grown in the Missouri Regional Variety and High Quality Strains Tests on Sandy Loam, Wilt-free, Non-irrigated Soil, 1971, Portageville.

Variety or Strain	Lint Yield		Percent of Crop	Lint Percent	Length 2.5% SL	Micronaire	Yarn Strength 22's
	Total Lbs/Acre	1st Pick Lbs/Acre					
Coker 310	1114.88 a	1008.48	90	37.93	1.19	3.80	110.33
CP 820589	1077.14 ab	1027.95	95	36.17	1.16	4.20	120.00
Coker 310-1901	1048.52 abc	913.86	87	37.73	1.20	3.57	110.67
MO. 63-079B	1033.73 abcd	967.86	94	34.70	1.17	3.50	115.33
Delcot 277	1030.73 abcd	935.43	91	36.17	1.17	3.33	115.33
Coker 201	1018.98 abcd	882.99	87	37.30	1.12	4.00	107.33
PD 4381-567	1013.75 abcd	890.91	88	35.07	1.15	3.50	112.33
PD 4381-54	1011.90 abcd	804.69	80	35.83	1.12	4.10	110.67
Stoneville 603	1009.66 abcd	850.33	84	36.30	1.09	3.80	104.67
Stoneville 804	1008.34 abcd	888.62	88	37.10	1.12	4.00	113.67
Deltapine 16	995.44 bcde	764.61	77	36.07	1.14	3.77	109.33
Coker 417	994.88 bcde	852.40	86	35.60	1.18	3.60	115.67
Stoneville 213	980.27 bcdef	773.01	79	37.40	1.08	4.27	102.67
CP 828	976.14 bcdef	914.37	94	36.20	1.15	3.80	123.67
Deltapine 45A	953.99 cdefg	802.59	84	37.03	1.10	3.63	107.67
Coker 8215	930.71 defgh	755.84	81	38.33	1.17	3.97	115.00
PD 8619	894.21 efghi	681.18	76	36.73	1.18	3.97	126.33
Coker 8103	890.36 efghij	766.29	87	36.20	1.16	3.70	118.33
Coker 423-70911	871.18 fghijk	725.61	83	35.83	1.19	3.67	117.33
McNair 9416	854.85 ghijk	705.49	83	34.57	1.09	4.13	114.33
LaDass 51	838.16 hijk	557.61	67	37.30	1.09	4.00	111.00
Stoneville 7A	787.07 ijk	529.95	67	37.13	1.09	4.13	104.00
Acala SJ-1	782.84 ijk	694.82	89	34.20	1.15	4.03	121.67
Paymaster III	780.14 jk	668.80	86	32.97	1.06	3.87	100.67
Deltapine 607	761.67 k	529.49	70	35.00	1.13	3.60	117.67
Mean	946.40	795.75	84	36.19	1.14	3.84	113.03
MLSR (.05)	98.24	103.00		1.16	.03	.22	5.66
MaLSR (.05)	120.10	125.90		1.41	.04	.26	6.84
C.V. %	8.96	11.17		1.94	1.63	3.42	3.02

Table 31 Performance and Characteristics of Varieties and Strains Grown in the Missouri Regional Variety and High Quality Strains Tests on Sandy Loam, Wilt-free, Non-irrigated Soil, 1971
(71101 Portageville, Lee Field)

Variety	Seed Cotton/Lbs/Acre	Variety	Total Lint-Lbs/Acre	Variety	Lint-Lbs/Acre-1st Pick
CP 820589	3055.88 a	Coker 310	1114.88 a	CP 820589	1027.95 a
Mo63-079B	2971.42 ab	CP 820589	1077.14 ab	Coker 310	1008.48 a
Coker 310	2917.12 abc	Coker 310-1901	1048.52 abc	Mo63-079B	967.86 ab
Stoneville 603	2896.00 abcd	Mo63-079B	1033.73 abcd	Delcot 277	935.43 ab
PD 4381-567	2808.52 abcde	Delcot 277	1030.73 abcd	CP 828	914.37 abc
Coker 310-1901	2805.50 abcde	Coker 201	1018.98 abcd	Coker 310-1901	913.86 abc
Delcot 277	2796.45 abcdef	PD 4381-567	1013.75 abcd	PD 4381-567	890.91 bcd
Coker 417	2769.30 abcdefg	PD 4381-54	1011.90 abcd	Stoneville 804	888.62 bcd
Deltapine 16	2763.27 abcdefg	Stoneville 603	1009.66 abcd	Coker 201	882.99 bcde
Coker 201	2721.03 bcdefg	Stoneville 804	1008.34 abcd	Coker 417	852.40 bcdef
PD 4381-54	2718.02 bcdefg	Deltapine 16	995.44 bcde	Stoneville 603	850.33 bcdef
CP 828	2708.97 bcdefg	Coker 417	994.88 bcde	PD 4381-54	804.69 cdefg
Stoneville 804	2663.72 bcdefg	Stoneville 213	980.27 bcdef	Deltapine 45A	802.59 cdefg
Stoneville 213	2600.37 cdefgh	CP 828	976.14 bcdef	Stoneville 213	773.01 defgh
Deltapine 45A	2573.22 defghi	Deltapine 45A	953.99 cdefg	Coker 8103	776.29 efgh
Coker 423-70911	2527.97 efghi	Coker 8215	930.71 defgh	Deltapine 16	764.61 efgh
McNair 9416	2512.88 efghi	PD 8619	894.21 efghi	Coker 8215	755.84 fgh
Coker 8215	2470.65 fghij	Coker 8103	890.36 efghij	Coker 423-70911	725.61 gh
PD 8619	2449.53 ghijk	Coker 423-70911	871.18 fghijk	McNair 9416	705.49 gh
Coker 8103	2446.52 ghijk	McNair 9416	854.85 ghijk	Acala SJ-1	694.82 gh
Paymaster III	2322.83 hijkl	La Dass 51	838.16 hijk	PD 8619	681.18 h
Acala SJ-1	2256.47 ijkl	Stoneville 7A	787.07 ijk	Paymaster III	668.80 h
Deltapine 607	2190.10 jkl	Acala SJ-1	782.84 ijk	La Dass 51	557.61 i
La Dass 51	2138.82 kl	Paymaster III	780.14 jk	Stoneville 7A	529.95 i
Stoneville 7A	2060.38 l	Deltapine 607	761.67 k	Deltapine 607	529.49 i

Table 31 continued

Variety	Stand-Hills/Plot	Variety	1st Flower-days	Variety	Seedling Vigor Index
Deltapine 45A	84.33 a	Deltapine 607	67.50 a	McNair 9416	3.83 a
Coker 201	83.83 ab	Stoneville 7A	66.33 ab	Coker 201	3.83 a
Stoneville 603	83.67 ab	Delcot 277	66.33 ab	Coker 310	3.67 ab
Acala SJ-1	83.33 ab	McNair 9416	66.33 ab	Mo63-079B	3.67 ab
Coker 310	82.83 ab	Acala SJ-1	66.17 abc	Acala SJ-1	3.50 ab
Deltapine 607	82.33 ab	La Dass 51	65.50 bcd	Deltapine 45A	3.50 ab
Coker 8103	81.83 ab	Stoneville 213	65.50 bcd	Delcot 277	3.50 ab
McNair 9416	81.67 ab	Deltapine 45A	65.17 bcde	PD 4381-54	3.33 ab
La Dass 51	81.33 ab	Stoneville 603	65.00 bcdef	Coker 8103	3.33 ab
CP 820589	81.17 ab	PD 4381-54	64.83 bcdef	Stoneville 213	3.33 ab
Mo63-079B	81.00 ab	PD 8619	64.83 bcdef	Stoneville 603	3.33 ab
PD 4381-567	81.00 ab	Deltapine 16	64.67 cdefg	CP 820589	3.33 ab
Deltapine 16	80.83 ab	Coker 423-70911	64.50 defg	PD 4381-567	3.33 ab
PD 8619	80.33 abc	Coker 310-1901	64.33 defg	Coker 417	3.17 abc
CP 828	80.00 abc	Coker 417	64.17 defgh	PD 8619	3.00 bcd
Paymaster III	79.67 abc	Coker 8103	64.00 defgh	Deltapine 16	3.00 bcd
Stoneville 213	79.33 abc	PD 4381-567	63.67 efgh	Paymaster III	3.00 bcd
Delcot 277	79.00 abc	Stoneville 804	63.67 efgh	Stoneville 7A	3.00 bcd
Coker 423-70911	78.67 abc	Mo63-079B	63.50 fgh	CP 828	3.00 bcd
Coker 417	78.50 abc	Coker 310	63.50 fgh	Coker 423-70911	3.00 bcd
Stoneville 7A	78.00 abc	Coker 201	63.17 ghi	La Dass 51	3.00 bcd
Coker 8215	75.17 bc	Paymaster III	63.17 ghi	Stoneville 804	2.50 cde
PD 4381-54	72.50 c	Coker 8215	62.67 hi	Coker 310-1901	2.33 de
Coker 310-1901	72.17 c	CP 828	61.83 ij	Coker 8215	2.33 de
Stoneville 804	72.00 c	CP 820589	61.17 j	Deltapine 607	1.83 e

Table 31 Continued

Variety	Height Index	Variety	Lodging Index	Variety	Storm Resistance Index
La Dass 51	3.83 a	Coker 423-70911	3.00 a	Paymaster III	3.83 a
Acala SJ-1	3.75 a	Acala SJ-1	3.00 a	Deltapine 607	3.83 a
Coker 8103	3.42 b	Stoneville 213	3.00 a	Deltapine 16	3.67 ab
Deltapine 607	3.33 bc	Coker 8103	2.83 ab	La Dass 51	3.67 ab
PD 4381-54	3.25 bcd	Paymaster III	2.83 ab	PD 4381-567	3.50 abc
Coker 423-70911	3.17 bcde	PD 4381-567	2.83 ab	Coker 8103	3.50 abc
Stoneville 7A	3.17 bcde	La Dass 51	2.83 ab	Coker 423-70911	3.33 abc
Deltapine 45A	3.08 bcdef	Coker 201	2.83 ab	Coker 8215	3.33 abc
PD 4381-567	3.08 bcdef	Coker 310	2.83 ab	Coker 310-1901	3.33 abc
Stoneville 804	3.08 bcdef	Deltapine 607	2.83 ab	Stoneville 7A	3.33 abc
Stoneville 213	3.08 bcdef	Coker 417	2.67 abc	Deltapine 45A	3.00 abcd
McNair 9416	3.08 bcdef	McNair 9416	2.67 abc	Stoneville 213	3.00 abcd
Paymaster III	3.00 cdefg	Coker 8215	2.67 abc	Stoneville 804	3.00 abcd
Deltapine 16	3.00 cdefg	Coker 310-1901	2.67 abc	Stoneville 603	2.83 bcde
Coker 201	2.92 defg	Stoneville 804	2.67 abc	Coker 417	2.83 bcde
Coker 417	2.92 defg	CP 820589	2.50 abcd	Coker 201	2.67 cdef
Stoneville 603	2.83 efg	Stoneville 7A	2.50 abcd	Coker 310	2.67 cdef
Delcot 277	2.83 efgh	Deltapine 16	2.50 abcd	Acala SJ-1	2.67 cdef
Coker 310	2.75 fgh	Deltapine 45A	2.33 bcd	PD 8619	2.67 cdef
Coker 8215	2.75 fgh	PD 4381-54	2.33 bcd	PD 4381-54	2.33 def
Mo63-079B	2.75 fgh	Stoneville 603	2.17 cd	Delcot 277	2.00 ef
CP 828	2.75 fgh	Delcot 277	2.17 cd	Mo63-079B	2.00 ef
PD 8619	2.67 gh	CP 828	2.17 cd	CP 828	1.83 f
Coker 310-1901	2.67 gh	Mo63-079B	2.00 d	CP 820589	1.83 f
CP 820589	2.50 h	PD 8619	2.00 d	McNair 9416	1.83 f

Table 31 continued

Variety	Seed Index	Variety	Seed Grade	Variety	Lint Percent
Mo63-079B	14.67 a	Acala SJ-1	8.33 a	Coker 8215	38.33 a
Acala SJ-1	14.33 ab	La Dass 51	8.00 ab	Coker 310	37.93 ab
CP828	13.87 abc	Coker 201	8.00 ab	Coker 310-1901	37.73 ab
PD 4381-54	13.60 bcd	Delcot 277	8.00 ab	Stoneville 213	37.40 abc
Delcot 277	13.60 bcd	Stoneville 213	8.00 ab	La Dass 51	37.30 abc
PD 4381-567	13.60 bcd	Stoneville 603	8.00 ab	Coker 201	37.30 abc
CP 820589	13.47 bcd	Coker 310	8.00 ab	Stoneville 7A	37.13 abcd
Paymaster III	13.27 cde	Coker 310-1901	8.00 ab	Stoneville 804	37.10 abcd
McNair 9416	13.07 cdef	Stoneville 7A	7.67 abc	Deltapine 45A	37.03 abcd
Stoneville 603	12.93 cdef	CP 820589	7.67 abc	PD 8619	36.73 bcde
PD 8619	12.60 defg	PD 4381-567	7.67 abc	Stoneville 603	36.30 cdef
Coker 417	12.40 efgh	Coker 8215	7.67 abc	CP 828	36.20 cdef
Stoneville 213	12.20 fghi	Deltapine 607	7.67 abc	Coker 8103	36.20 cdef
Coker 8103	12.13 fghij	Paymaster III	7.33 bcd	Delcot 277	36.17 cdef
Coker 201	12.13 fghij	PD 4381-54	7.33 bcd	CP 820589	36.17 cdef
Deltapine 16	12.07 fghij	CP 828	7.33 bcd	Deltapine 16	36.07 cdef
Coker 423-70911	12.07 fghij	Coker 423-70911	7.33 bcd	PD 4381-54	35.83 defg
Stoneville 804	11.80 ghij	Mo63-079B	7.33 bcd	Coker 423-70911	35.83 defg
Deltapine 45A	11.80 ghij	Deltapine 16	7.00 cde	Coker 417	35.60 efg
Stoneville 7A	11.53 hij	Coker 8103	7.00 cde	PD 4381-567	35.07 fgh
Coker 310	11.47 hij	PD 8619	7.00 cde	Deltapine 607	35.00 fgh
Coker 310-1901	11.47 hij	Coker 417	7.00 cde	Mo63-079B	34.70 gh
La Dass 51	11.27 ij	Deltapine 45A	7.00 cde	McNair 9416	34.57 gh
Coker 8215	11.13 j	McNair 9416	6.67 de	Acala SJ-1	34.20 h
Deltapine 607	11.13 j	Stoneville 804	6.33 e	Paymaster III	32.97 i

Table 31 continued

Variety	Boll Weight	Variety	50% Span Length	Variety	2.5% Span Length
Paymaster III	8.20 a	PD 8619	0.51 a	Coker 310-1901	1.20 a
Mo63-079B	7.57 b	CP 828	0.50 ab	Coker 423-70911	1.19 ab
Acala SJ-1	7.37 b	Coker 423-70911	0.50 ab	Coker 310	1.19 ab
McNair 9416	7.33 bc	CP 820589	0.50 ab	Coker 417	1.18 abc
CP 820589	7.30 bc	Coker 8215	0.50 ab	PD 8619	1.18 abc
PD 4381-567	7.17 bcd	Coker 417	0.49 abc	Delcot 277	1.17 abcd
Delcot 277	7.10 bcde	PD 4381-567	0.49 abc	Mo63-079B	1.17 abcd
CP 828	6.97 bcdef	Deltapine 607	0.49 abc	Coker 8215	1.17 abcd
PD 4381-54	6.70 cdefg	Acala SJ-1	0.49 abc	Coker 8103	1.16 bcde
PD 8619	6.63 defg	Coker 8103	0.48 abcd	CP 820589	1.16 bcde
Deltapine 16	6.63 defg	PD 4381-54	0.48 abcd	CP 828	1.15 cdef
Coker 8103	6.63 defg	Mo63-079B	0.48 abcd	PD 4381-567	1.15 cdef
Coker 310	6.60 defg	Coker 201	0.48 abcd	Acala SJ-1	1.15 cdef
Coker 423-70911	6.57 defg	Coker 310	0.48 abcd	Deltapine 16	1.14 def
Stoneville 804	6.47 efgh	Delcot 277	0.48 abcd	Deltapine 607	1.13 efg
Coker 201	6.47 efgh	McNair 9416	0.47 bcd	PD 4381-54	1.12 fgh
Coker 310-1901	6.43 fgh	Deltapine 16	0.47 bcd	Coker 201	1.12 fgh
Stoneville 213	6.37 fghi	Stoneville 804	0.47 bcd	Stoneville 804	1.12 fgh
Stoneville 603	6.20 ghi	Deltapine 45A	0.47 bcd	Deltapine 45A	1.10 ghi
Coker 417	6.17 ghi	Stoneville 7A	0.46 cd	Stoneville 7A	1.09 hij
Stoneville 7A	6.10 ghi j	Stoneville 213	0.46 cd	McNair 9416	1.09 hij
La Dass 51	5.90 hij	Coker 310-1901	0.46 cd	La Dass 51	1.09 hij
Deltapine 45A	5.83 hij	Paymaster III	0.45 d	Stoneville 603	1.09 hij
Coker 8215	5.73 ij	Stoneville 603	0.45 d	Stoneville 213	1.08 ij
Deltapine 607	5.50 j	La Dass 51	0.45 d	Paymaster III	1.06 j

Table 31 continued

Variety	Length-Uniformity Index	Variety	Micronaire	Variety	Colorimeter Rd
CP 820589	43.33 a	Stoneville 213	4.27 a	Deltapine 16	73.33 a
PD 8619	43.33 a	CP 820589	4.20 ab	Stoneville 603	73.00 ab
McNair 9416	43.00 ab	Stoneville 7A	4.13 ab	PD 4381-567	72.33 abc
CP 828	43.00 ab	McNair 9416	4.13 ab	Coker 310	72.00 abcd
Deltapine 607	42.67 abc	PD 4381-54	4.10 abc	Coker 310-1901	72.00 abcd
Coker 8215	42.67 abc	Acala SJ-1	4.03 abcd	Coker 201	71.67 abcde
Deltapine 45A	42.33 abcd	Coker 201	4.00 bcde	Delcot 277	71.67 abcde
PD 4381-54	42.33 abcd	Stoneville 804	4.00 bcde	Mo63-079B	71.67 abcde
Stoneville 213	42.33 abcd	La Dass 51	4.00 bcde	CP 828	71.33 abcdef
Acala SJ-1	42.33 abcd	PD 8619	3.97 bcde	Coker 417	71.33 abcdefg
Coker 201	42.00 abcd	Coker 8215	3.97 bcde	Deltapine 607	71.33 abcdefg
PD 4381-567	42.00 abcd	Paymaster III	3.87 cdef	CP 820589	71.33 abcdefg
Stoneville 7A	41.67 abcde	Stoneville 603	3.80 defg	Coker 8103	71.00 abcdefg
Paymaster III	41.67 abcde	CP 828	3.80 defg	Coker 423-70911	71.00 abcdefg
Coker 423-70911	41.33 abcde	Coker 310	3.80 defg	Acala SJ-1	70.67 bcdefgh
Coker 417	41.33 abcde	Deltapine 16	3.77 efg	Stoneville 804	70.67 bcdefgh
Stoneville 804	41.33 abcde	Coker 8103	3.70 fgh	Deltapine 45A	70.67 bcdefgh
Stoneville 603	41.00 bcde	Coker 423-70911	3.67 fgh	PD 4381-54	70.33 cdefgh
Coker 8103	41.00 bcde	Deltapine 45A	3.63 fgh	Stoneville 213	70.33 cdefgh
La Dass 51	41.00 bcde	Deltapine 607	3.60 gh	Coker 8215	69.67 defghi
Delcot 277	40.67 cde	Coker 417	3.60 gh	Stoneville 7A	69.33 efghi
Deltapine 16	40.67 cde	Coker 310-1901	3.57 gh	McNair 9416	69.00 fghi
Mo63-079B	40.33 de	PD 4381-567	3.50 hi	Paymaster III	69.00 ghi
Coker 310	39.67 ef	Mo63-079B	3.50 hi	La Dass 51	68.67 hi
Coker 310-1901	38.33 f	Delcot 277	3.33 i	PD 8619	67.67 i

Table 31 continued

Variety	Colorimeter b	Variety	Trash	Variety	Yarn Strength 22's
Paymaster III	8.83 a	La Dass 51	4.33 a	PD 8619	126.33 a
PD 4381-54	8.83 a	Coker 417	4.33 a	CP 828	123.67 ab
Acala SJ-1	8.67 ab	Coker 201	4.00 ab	Acala SJ-1	121.67 abc
PD 8619	8.67 ab	PD 8619	4.00 ab	CP 820589	120.00 bcd
Coker 423-70911	8.50 abc	McNair 9416	4.00 ab	Coker 8103	118.33 bcde
Delcot 277	8.50 abc	Paymaster III	4.00 ab	Deltapine 607	117.67 bcde
La Dass 51	8.50 abc	Coker 8103	4.00 ab	Coker 423-70911	117.33 bcdef
Mo63-079B	8.50 abc	Deltapine 45A	3.67 ab	Coker 417	115.67 cdefg
Stoneville 213	8.50 abc	Stoneville 213	3.67 ab	Mo63-079B	115.33 cdefg
Stoneville 7A	8.50 abc	Delcot 277	3.67 ab	Delcot 277	115.33 cdefg
PD 4381-567	8.50 abc	Acala SJ-1	3.67 ab	Coker 8215	115.00 defg
Stoneville 804	8.33 abcd	Coker 310-1901	3.67 ab	McNair 9416	114.33 defg
Coker 8103	8.33 abcd	Coker 310	3.67 ab	Stoneville 804	113.67 defgh
Deltapine 45A	8.33 abcd	PD 4381-54	3.67 ab	PD 4381-567	112.33 efg
Coker 8215	8.17 abcd	Deltapine 607	3.67 ab	La Dass 51	111.00 fghi
Deltapine 16	8.17 abcd	Stoneville 7A	3.67 ab	PD 4381-54	110.67 ghi
Deltapine 607	8.17 abcd	Stoneville 603	3.33 ab	Coker 310-1901	110.67 ghi
Coker 201	8.00 bcd	Coker 423-70911	3.33 ab	Coker 310	110.33 ghij
Coker 417	8.00 bcd	CP 820589	3.33 ab	Deltapine 16	109.33 ghij
Coker 310-1901	8.00 bcd	Mo63-079B	3.33 ab	Deltapine 45A	107.67 hijk
McNair 9416	8.00 bcd	Coker 8215	3.33 ab	Coker 201	107.33 hijk
Stoneville 603	7.83 cd	PD 4381-567	3.33 ab	Stoneville 603	104.67 ijkl
CP 820589	7.83 cd	Stoneville 804	3.33 ab	Stoneville 7A	104.00 jkl
Coker 310	7.67 d	CP 828	3.00 b	Stoneville 213	102.67 kl
CP 828	7.67 d	Deltapine 16	3.00 b	Paymaster III	100.67 l

Table 31 continued

Variety	Yarn Tenacity 27 tex
PD 8619	14.57 a
CP 828	14.27 ab
Acala SJ-1	13.97 abc
CP 820589	13.83 bed
Coker 8103	13.60 cde
Coker 423-70911	13.50 cdef
Coker 417	13.30 cdefg
Deltapine 607	13.30 cdefg
Mo63-079B	13.27 cdefgh
Delcot 277	13.27 cdefgh
Coker 8215	13.23 defgh
McNair 9416	13.13 defgh
Stoneville 804	13.10 efghi
PD 4381-567	12.93 efghij
La Dass 51	12.80 fghij
PD 4381-54	12.77 ghijk
Coker 310	12.70 ghijk
Coker 310-1901	12.67 ghijk
Deltapine 16	12.57 hijkl
Deltapine 45A	12.40 ijklm
Coker 201	12.37 jklm
Stoneville 603	12.07 klmn
Stoneville 7A	11.97 lmn
Stoneville 213	11.87 mn
Paymaster III	11.63 n