Cotton Variety Tests in Oklahoma 1963-67

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Contents

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Cotton variety tests are conducted at several locations in Oklahoma each year to evaluate the more important agronomic and fiber quality characteristics of cotton varieties when grown under Oklahoma environmental conditions. Continuous testing is necessary because of the release of new varieties each year and because of modifications in existing varieties by the breeders who maintain them. Also, yield and micronaire data from only a few tests can be very misleading since environment does influence those traits to a high degree. For these traits especially, long term averages are better indicators of varieties' potential than are single year test results.

A similar bulletin, B-623, for tests conducted from 1956 through 1962 has been published previously. However, additional information from the five years testing since that time should be made available to the cotton farmers of Oklahoma. Hopefully, it will be used by them to decide in a logical manner which of the older varieties they should and/or should not grow. As data is collected on varieties which have only recently been released, this information will also be made available.

Procedures

During the period 1963 through 1967, irrigated cotton variety tests were conducted at Altus and Chickasha. Dryland tests were carried out at Chickasha, Mangum, and Perkins. A dryland stripper-harvested test was also conducted at Chickasha except in 1964. Tests included six replications with two-row plots 50 feet long except for the stripper test in which three replications with two-row plots 100 feet long were used. In all tests rows were 40 inches apart.

Planting dates were those common to each test area. Cultural practices such as rotary hoeing, cultivating, weeding, fertilizing, irrigating (in the irrigated tests), and spraying for insects were applied as needed. Except for the Mangum test in 1964 and 1965, the Perkins test in 1964 and 1967, and the stripper test in every year, two harvests were made on all tests, *i.e.,* one before and one several weeks after frost.

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In those tests listed above, only one harvest could be made. Several tests were not harvested due to extenuating circumstances. The 1967 test at Altus was not harvested because of poor stands in all entries in the test. Cold weather and extensive seedling disease early in the season were apparently the causes for those poor stands. The 1963 dryland Chickasha variety and stripper variety tests were not harvested due to severe drouth damage incurred during the growing season. Late planting date due to inadequate moisture early in the season coupled with an early frost at Mangum in 1966 destroyed that test before any of the varieties could mature.

Fiber samples were taken from the test plots for calculation of lint percentage and for fiber analysis in the laboratory at Stillwater. After ginning, the lint was conditioned for at least 24 hours at a constant temperature of 70 degrees Fahrenheit and a relative humidity of 65 percent before analyses were made.

The total number of cotton varieties available was too large for all varieties to be tested at every location in every year. Therefore, varieties thought to have some particular utility in a general area were included in the test nearest to or in that area. Some varieties were grown at a particular location throughout the period 1963-1967. The data on these varieties have been reported in tables separate from the data on those varieties grown only a portion of the five years. Those varieties not grown over the whole five years at a location were not planted for various reasons, *i.e.,* seed in short supply, limited space in that test, variety not yet released, etc.

In the tables on the right-hand side the average performance of each variety is given for that particular character over the years it was tested at that location. Averages of varieties tested at a location are comparable with each other in any combination. In those tables in which the varieties were not all grown in the same years, varietal averages are comparable with each other and with the averages of varieties grown all five years since Patterson's[1] method of adjustment for year effects was used. This method is not entirely accurate, but it is useful for purposes of comparison. One may also compare data within any particular year for any combination of varieties grown at that location. One should be cautioned against comparing varieties not grown in the same year and location. Under such circumstances it is difficult, if not impossible, to determine whether differences in varietal averages are true differences in varieties or are differences in the environments to which those varieties were subjected.

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[1]R. E. Patterson, "A Method of Adjustment for Calculating Comparable Yields in Variety Tests," Agronomy Journal 42:509-511. 1950.

Results

Below are discussed the several agronomic characters (yield, earliness, and lint percent) and fiber quality characters (length, coarseness, and strength) which were studied. In examining these results, one should keep in mind that he is seeking a variety having high yield, earliness, and lint percent and having a fiber that is long and strong with a coarseness consistently in the acceptable range under his environmental conditions.

Agronomic Characters

The agronomic characters given below are yield measured in terms of pounds of lint per acre, earliness measured as percent first harvest, and lint percent measured on the basis of snapped rather than picked cotton. For each of these characters, higher numerical values are more desirable than lower ones.

Lint yield. Although fiber quality continues to become more important each year, the farmer cannot afford to ignore yield in his decision of which variety to grow. Yield is reported here in pounds of lint per acre. Irrigated test results are given in Tables 1-4 while dryland results are listed in Tables 5-12.

Earliness. This is a character of particular importance on the northern extremities of the Cotton Belt where growing seasons are short. It was measured here as percent first harvest and calculated by dividing the weight of the lint from the first harvest by the weight of the lint from both harvests. Obviously, this character could not be measured when a test was harvested only once. This was the case for the Mangum 1964 and 1965 tests, the Perkins 1964 and 1967 tests, and the stripper tests in all years. Earliness data are found in Tables 13-21.

Lint percent. A farmer should consider lint percent in his choice of a variety if he pays by the hundredweight for the harvesting of his cotton or if his ginning costs are levied by weight of snaps or seed cotton rather than by weight of lint or by the bale. The lint percents listed in Tables 22-33 are pulled lint percents and were calculated by dividing the weight of lint by the total weight of the snapped sample from which it came. Therefore, these lint percents are applicable if harvesting is by hand pulling or mechanical stripping but not if by hand or mechanical picking.

Fiber Quality Characters

As time passes, more emphasis is being placed on fiber quality. In this regard the variety grown has a profound effect on the quality of

fiber the farmer will have to sell at the end of the season. Consequently, the farmer should pay particular attention to fiber quality when he chooses his variety. The fiber quality characters given below are fiber length measured in terms of 2.5 percent span length, fiber coarseness measured by micronaire, and fiber strength measured as 1/8" gauge stelometer and 0" gauge stelometer. For fiber length and strength, higher numerical values are more desirable than lower ones. For fiber coarseness, there is a range of highest desirability; and outside this range, price discounts are levied.

Fiber length. 2.5 percent span length was used to estimate fiber length since this measurement corresponds closely with classer's length. Tables 34-45 give this information for the various varieties at each test location. Table A in the Appendix converts periodic 2.5 percent span length measurements into 1/32's and into fractions of an inch to aid the reader in the interpretation of this data.

Fiber coarseness. Micronaire was used to measure fiber coarseness because it is the measurement commonly used in commercial channels of trade. These data may be found in Tables 46-57. At the present time the acceptable range of micronaire is from 3.5 to 4.9 inclusive. If the fiber is too fine (below 3.5) or too coarse (above 4.9), the price received per pound of lint, other things being equal, is lower.

Fiber strength. 1/8" gauge stelometer was used to measure fiber strength since it corresponds more closely with yarn strength than does any other strength measurement currently in use. These measurements are listed in Tables 58-69. 0" gauge stelometer was also used to measure fiber strength since this measurement may be converted into pounds per square inch by multiplying observed values by a factor of 21,614. The 0" gauge stelometer readings are given in Tables 70-81. Table B in the Appendix converts periodic 0" gauge readings into pounds per square inch for the reader's convenience.

Summary and Conclusions

Oklahoma variety test results for the years 1963 through 1967 are presented in the form of tables with a brief discussion for each of the characters studied. These results should be used by individual cotton farmers to choose the cotton variety best adapted to their particular circumstances. Test results of newer cotton varieties were available only for one or two years and could not be included in a publication of this type which summarizes many years of testing. Information on these newer varieties from 1966 and/or 1967 tests may be obtained by requesting Processed Series P-555 and P-582, respectively, from the Agronomy Department at Oklahoma State University.

Table 1. Yields of varieties tested 4 years under irrigation at Altus.

Variety	Pounds of lint per acre					
	1963	1964	1965	1966	1967*	Average
Deltapine Smoothleaf	1081	843	306	570		700
Stoneville 7A	1171	739	329	440		670
Stoneville 213	1009	793	342	524		667
Lankart 57	1037	649	325	612		656
Auburn M	1049	641	309	610		652
Paymaster 101A	956	591	312	494		588
Paymaster 54-B	941	516	322	573		588
Blightmaster	946	652	309	438		586
Western Stormproof	985	685	221	387		570
Lockett 4789	899	654	270	430		563
Northern Star No. 5	827	734	196	383		535
Paymaster 111	763	441	324	366		474
Yearly average	972	662	297	486		604

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 2. Yields of varieties tested 1 to 3 years under irrigation at Altus.

Variety	Pounds of lint per acre					
	1963	1964	1965	1966	1967*	Average
Auburn 56	1120	727	302			677
Austin	881	528	328			539
Rex S.S.L.	913	427	328			516
Northern Star 4-11	919	626		473		570
Stardel	889		195	291		477
Delfos 9169	934		189	224		468
Parrott 66		599	325	459		583
Gregg 35		511	234	396		503
Tideland TPSA-69	886			340		488
Paymaster 202			278	492		598
Dixie King II			282	251		479
Westburn				614		732
Lankburn				462		580

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 3. Yields of varieties tested 5 years under irrigation at Chickasha.

Variety	Pounds of lint per acre					
	1963	1964	1965	1966	1967	Average
Stoneville 213	1396	1151	1099	689	886	1044
Stoneville 7A	1144	1011	1113	736	828	966
Deltapine Smoothleaf	1121	1117	1069	665	811	957
Auburn M	1141	974	944	693	866	924
Paymaster 101A	1116	915	929	610	813	877
Northern Star No. 5	1137	1088	969	441	746	876
Paymaster 54-B	1007	832	992	633	867	866
Western Stormproof	1068	933	929	478	753	832
Blightmaster	1080	1042	937	317	772	830
Paymaster 111	1079	834	935	487	782	823
Lockett 4789	1045	994	907	610	538	819
Lankart 57	949	804	935	625	755	814
Yearly average	1107	975	980	582	785	886

Table 4. Yields of varieties tested 2 to 4 years under irrigation at Chickasha.

Variety	Pounds of lint per acre					
	1963	1964	1965	1966	1967	Average
Gregg 35		827	897	591	592	782
Rex S.S.L.	1210	895	977			893
Auburn 56	967	987	1009			853
Austin	906	1005	987			831
Stardel	1019		1015	725		916
Delfos 9169	988		873	510		787
Northern Star 4-11	913	953		539		800
Parrott 66		1036	930	644		910
Dixie King II			1088	498	826	908
Paymaster 202			936	581	782	870
Tideland TPSA-69	1045			641	1166	1012
Westburn				690	815	955
Lankburn				477	736	809

Table 5. Yields of varieties tested 4 years on dryland at Chickasha.

Variety	Pounds of lint per acre					
	1963*	1964	1965	1966	1967	Average
Lankart 57		191	489	592	409	420
Northern Star No. 5		182	422	511	464	395
Paymaster 101A		148	450	563	403	391
Gregg 35		152	404	579	410	386
Lockett 4789		188	472	464	399	381
Paymaster 54-B		123	393	553	413	371
Stoneville 7A		202	457	468	343	368
Deltapine Smoothleaf		189	362	373	441	341
Blightmaster		188	430	314	357	322
Western Stormproof		166	395	247	438	312
Yearly average		173	427	466	408	369

* Test not analyzed due to extensive drouth damage.

Table 6. Yields of varieties tested 2 to 3 years on dryland at Chickasha.

Variety	Pounds of lint per acre					
	1963*	1964	1965	1966	1967	Average
Auburn M		145	497	602		428
DeKalb 302		154	383	488		355
Paymaster 202			435	605	364	403
Lockett 88A			389	261	340	265
Parrott 66		151		400	383	331
Westburn				590	442	448
Lankburn				451	452	384

* Test not analyzed due to extensive drouth damage.

Table 7. Yields of varieties tested 3 years on dryland at Chickasha in stripper-harvested tests.

Variety	Pounds of lint per acre					
	1963*	1964**	1965	1966	1967	Average
Paymaster 101A			440	590	662	564
Northern Star No. 5			462	508	715	562
Rilcot 90			494	570	609	558
Lankart 57			438	610	603	550
Lankart 611			441	575	598	538
Gregg 35			435	637	536	536
Stripper 61-30			366	646	576	529
Paymaster 202			470	588	528	529
Paymaster 111			492	568	517	526
Lockett 88A			441	329	584	451
Western Stormproof			334	306	641	427
Yearly average			438	539	597	525

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 8. Yields of varieties tested 2 years on dryland at Chickasha in stripper-harvested tests.

Variety	Pounds of lint per acre					
	1963*	1964**	1965	1966	1967	Average
Gregg 45			559	780		706
DeKalb 302			446	579		549
Parrott 66			448	553		537
Tideland TPSA-41			435	565		537
Watson Stormproof B-29			436	509		509
Gregg 25V			430	513		508
Blightmaster			358	496		464
Lankburn				638	722	637
Westburn				646	653	607
Sweatt 75				558	562	517
Lockett 4789				471	623	504

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 9. Yields of varieties tested 4 years on dryland at Mangum.

Variety	Pounds of lint per acre					
	1963	1964	1965	1966*	1967	Average
Lankart 57	264	266	219		386	284
Stoneville 7A	272	266	211		328	269
Northern Star No. 5	178	261	360		263	266
Deltapine Smoothleaf	214	226	188		352	245
Lockett 4789	209	240	205		309	241
Blightmaster	159	187	233		265	211
Paymaster 101A	178	181	218		251	207
Western Stormproof	149	225	246		194	204
Yearly average	203	232	235		294	241

* Test not analyzed due to very low yields caused by an early frost.

Table 10. Yields of varieties tested 1 to 3 years on dryland at Mangum.

Variety	Pounds of lint per acre					
	1963	1964	1965	1966*	1967	Average
Stoneville 62	199	247	247			248
Auburn 56	252	239	200			248
Austin	244	214	228			246
Rex S.S.L.	241	209	205			236
Parrott	196	235	204			229
Coker 124-B	180	210	217			220
Auburn M	163	199	244			219
Paymaster 54-B	203		233		313	247
Parrott 66		217	240		375	397
Gregg 35		227	192		334	238
Westburn					383	330
Lankburn					306	253

* Test not analyzed due to very low yields caused by an early frost.

Table 11. Yields of varieties tested 5 years on dryland at Perkins.

Variety	Pounds of lint per acre					
	1963	1964	1965	1966	1967	Average
Lankart 57	650	554	432	578	439	531
Lockett 4789	634	475	406	569	398	496
Stoneville 7A	637	458	477	565	304	488
Deltapine Smoothleaf	610	409	436	593	338	477
Northern Star No. 5	687	430	382	418	422	468
Yearly average	644	465	427	545	380	492

Table 12. Yields of varieties tested 2 to 4 years on dryland at Perkins.

Variety	Pounds of lint per acre					
	1963	1964	1965	1966	1967	Average
Paymaster 101A	611	430	407	583		480
Tideland TPSA-69	580	497	443	497		476
Delfos 9169	576	504	401	443		453
Auburn 56	609	522	435			502
Stardel	673	445	423			494
Rex S.S.L.	587	502	419			483
Western Stormproof	577	467	348			444
Parrott 66		530	438	537		515
Paymaster 111			400	511	329	455
Westburn				650	498	604
Lankburn				488	417	482

Table 13. Earliness of varieties tested 4 years under irrigation at Altus.

Variety	Percent first harvest					
	1963	1964	1965	1966	1967*	Average
Lockett 4789	69.7	63.0	89.7	76.9		74.8
Stoneville 213	73.3	60.5	81.6	67.2		70.7
Paymaster 54-B	65.7	50.2	86.6	72.2		68.7
Lankart 57	64.7	58.1	83.1	67.6		68.4
Stoneville 7A	69.4	58.2	77.7	67.5		68.2
Deltapine Smoothleaf	58.6	57.7	79.7	69.7		66.4
Auburn M	64.9	46.1	83.1	71.2		66.3
Northern Star No. 5	62.0	45.5	73.9	79.4		65.2
Paymaster 101A	64.1	44.5	84.4	63.1		64.0
Western Stormproof	53.2	51.2	78.9	71.1		63.6
Blightmaster	55.7	44.1	77.0	61.6		59.6
Paymaster 111	50.3	40.9	76.8	62.9		57.7
Yearly average	62.6	51.7	81.0	69.2		66.1

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 14. Earliness of varieties tested 1 to 3 years under irrigation at Altus.

Variety	Percent first harvest					
	1963	1964	1965	1966	1967*	Average
Auburn 56	63.9	50.8	65.5			61.1
Rex S.S.L.	62.5	40.8	75.7			60.7
Austin	53.8	44.0	74.2			58.3
Northern Star 4-11	66.5	51.6		72.2		68.4
Stardel	69.1		81.1	77.7		71.1
Delfos 9169	62.7		71.5	64.1		61.3
Gregg 35		66.9	86.8	72.2		74.1
Parrott 66		44.6	83.6	72.7		65.8
Tideland TPSA-69	61.3			76.6		69.2
Paymaster 202			78.0	71.5		65.8
Dixie King II			56.0	45.0		41.5
Westburn				74.7		71.6
Lankburn				60.2		57.1

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 15. Earliness of varieties tested 5 years under irrigation at Chickasha.

Variety	Percent first harvest					
	1963	1964	1965	1966	1967	Average
Paymaster 54-B	30.3	77.7	66.5	63.0	59.6	59.4
Paymaster 101A	24.0	81.2	65.8	57.5	57.6	57.2
Lockett 4789	26.5	73.3	62.1	58.9	50.9	54.3
Auburn M	24.6	74.5	61.5	56.2	54.3	54.2
Lankart 57	39.2	56.7	56.9	52.3	41.3	49.3
Stoneville 7A	20.7	68.4	53.2	56.2	40.6	47.8
Paymaster 111	22.7	66.2	66.2	37.9	41.1	46.8
Stoneville 213	25.9	69.1	55.0	47.2	36.2	46.7
Northern Star No. 5	18.1	57.6	41.7	47.8	60.3	45.1
Deltapine Smoothleaf	26.5	67.1	34.0	44.6	41.6	42.8
Blightmaster	17.2	59.6	31.2	49.6	55.9	42.7
Western Stormproof	17.6	49.1	25.4	52.6	56.6	40.3
Yearly average	24.4	66.7	51.6	52.0	49.7	48.9

Table 16. Earliness of varieties tested 2 to 4 years under irrigation at Chickasha.

Variety	Percent first harvest					
	1963	1964	1965	1966	1967	Average
Gregg 35		72.9	74.5	60.0	50.8	58.5
Rex S.S.L.	27.2	80.7	74.3			62.1
Auburn 56	31.9	63.2	58.4			52.5
Austin	21.1	67.7	61.4			51.4
Stardel	28.5		61.1	48.3		52.2
Delfos 9169	21.6		57.1	36.5		44.6
Northern Star 4-11	32.1	63.2		43.8		47.6
Parrott 66		75.8	53.4	50.5		52.0
Paymaster 202			61.2	60.5	63.9	59.7
Dixie King II			50.2	40.3	31.8	38.6
Tideland TPSA-69	25.9			52.5	46.5	48.5
Westburn				62.5	63.9	61.3
Lankburn				34.6	34.9	32.8

Table 17. Earliness of varieties tested 4 years on dryland at Chickasha.

Variety	Percent first harvest					
	1963*	1964	1965	1966	1967	Average
Paymaster 54-B		67.1	79.8	71.4	74.1	73.1
Gregg 35		69.3	80.1	76.7	58.2	71.1
Paymaster 101A		60.4	74.6	67.3	71.1	68.4
Lockett 4789		61.7	72.4	64.7	66.6	66.4
Northern Star No. 5		58.7	68.1	54.9	76.0	64.4
Lankart 57		61.7	60.0	65.7	67.3	63.7
Blightmaster		42.4	52.1	59.9	71.5	56.5
Stoneville 7A		54.7	53.4	49.4	50.4	52.0
Western Stormproof		44.9	47.8	45.8	66.4	51.2
Deltapine Smoothleaf		53.0	43.1	40.9	52.5	47.4
Yearly average		57.4	63.1	59.7	65.4	61.4

* Test not analyzed due to extensive drouth damage.

Table 18. Earliness of varieties tested 2 to 3 years on dryland at Chickasha.

Variety	Percent first harvest					
	1963*	1964	1965	1966	1967	Average
DeKalb 302		64.7	87.4	73.5		76.5
Auburn M		57.7	64.8	64.2		63.6
Paymaster 202			75.6	65.4	65.9	67.6
Lockett 88A			66.1	39.6	63.8	55.2
Parrott 66		56.7		55.9	55.7	56.7
Westburn				59.2	71.3	64.1
Lankburn				50.7	58.7	53.6

* Test not analyzed due to extensive drouth damage.

Table 19. Earliness of varieties tested 1 to 2 years on dryland at Mangum.

Variety	Percent first harvest					
	1963	1964*	1965*	1966**	1967	Average
Paymaster 101A	82.5				68.1	75.3
Lankart 57	71.9				68.2	70.1
Lockett 4789	69.9				68.4	69.2
Paymaster 54-B	64.4				67.7	66.1
Northern Star No. 5	54.2				70.0	62.1
Blightmaster	57.2				65.5	61.4
Deltapine Smoothleaf	63.1				56.0	59.6
Stoneville 7A	57.0				62.1	59.6
Western Stormproof	48.9				53.5	51.2
Auburn M	66.0					66.6
Rex S.S L.	62.0					62.6
Stoneville 62	61.7					62.3
Auburn 56	60.8					61.4
Austin	57.0					57.6
Coker 124-B	54.2					54.8
Parrott	49.2					49.8
Gregg 35					74.1	73.5
Parrott 66					73.6	73.0
Westburn					68.7	68.1
Lankburn					57.1	56.5

* Tests only harvested once.
** Test not analyzed due to very low yields caused by an early frost.

Table 20. Earliness of varieties tested 3 years on dryland at Perkins.

Variety	Percent first harvest					
	1963	1964*	1965	1966	1967*	Average
Paymaster 101A	76.5		78.4	53.3		69.4
Lockett 4789	53.0		78.5	57.0		62.8
Tideland TPSA-69	54.1		62.8	51.0		56.0
Delfos 9169	47.1		63.8	54.9		55.3
Lankart 57	49.8		65.7	44.7		53.4
Stoneville 7A	35.4		67.7	48.7		50.6
Northern Star No. 5	44.6		68.2	38.9		50.6
Deltapine Smoothleaf	44.0		52.5	40.9		45.8
Yearly average	50.6		67.2	48.7		55.5

* Tests only harvested once.

Table 21. Earliness of varieties tested 1 to 2 years on dryland at Perkins.

Variety	Percent first harvest					
	1963	1964*	1965	1966	1967*	Average
Rex S.S.L.	59.9		75.6			64.4
Auburn 56	56.4		71.7			60.7
Stardel	51.6		74.1			59.5
Western Stormproof	35.2		60.8			44.6
Paymaster 111			81.4	52.8		64.7
Parrott 66			67.9	54.0		58.5
Westburn				57.3		64.1
Lankburn				45.4		52.2

* Tests only harvested once.

Table 22. Lint percent of varieties tested 4 years under irrigation at Altus.

Variety	Lint percent (pulled)					
	1963	1964	1965	1966	1967*	Average
Western Stormproof	29.1	27.2	20.0	24.1		25.1
Deltapine Smoothleaf	26.6	26.5	24.1	22.6		25.0
Northern Star No. 5	28.0	26.9	22.0	23.2		25.0
Lankart 57	26.4	25.8	23.7	23.0		24.7
Stoneville 213	26.4	25.3	23.9	23.0		24.7
Paymaster 54-B	25.8	23.7	24.3	23.8		24.4
Stoneville 7A	26.7	24.7	23.9	22.0		24.3
Paymaster 101A	26.7	23.8	23.7	22.0		24.1
Blightmaster	25.1	24.0	23.2	21.0		23.3
Auburn M	25.4	22.5	22.1	22.1		23.0
Lockett 4789	24.2	23.6	21.6	20.4		22.5
Paymaster 111	23.9	21.9	22.6	20.0		22.1
Yearly average	26.2	24.7	22.9	22.3		24.0

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 23. Lint percent of varieties tested 1 to 3 years under irrigation at Altus.

Variety	Lint percent (pulled)					
	1963	1964	1965	1966	1967*	Average
Austin	25.4	22.9	23.0			23.2
Auburn 56	25.3	23.8	21.2			22.8
Rex S.S.L.	23.9	21.1	22.2			21.8
Northern Star 4-11	25.2	23.8		21.4		23.1
Stardel	25.3		21.4	21.8		23.0
Delfos 9169	24.2		20.5	20.1		21.8
Parrott 66		25.1	25.2	24.3		25.6
Gregg 35		22.8	20.7	20.2		21.9
Tideland TPSA-69	25.4			21.8		23.4
Paymaster 202			22.3	22.2		23.7
Dixie King II			22.4	21.3		23.3
Westburn				21.7		23.4
Lankburn				20.1		21.8

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 24. Lint percent of varieties tested 5 years under irrigation at Chickasha.

Variety	Lint percent (pulled)					
	1963	1964	1965	1966	1967	Average
Western Stormproof	28.5	30.1	29.8	25.9	27.0	28.3
Stoneville 213	27.4	30.7	30.2	25.4	25.4	27.8
Paymaster 54-B	25.8	28.4	29.7	26.1	27.5	27.5
Deltapine Smoothleaf	27.3	29.6	30.4	25.6	24.6	27.5
Stoneville 7A	26.2	29.8	30.5	25.6	24.0	27.2
Northern Star No. 5	28.5	30.1	29.3	23.3	23.4	26.9
Lankart 57	26.5	28.3	29.3	24.2	24.6	26.6
Blightmaster	25.8	28.9	28.5	23.4	25.4	26.4
Paymaster 101A	25.7	28.7	28.6	25.2	23.4	26.3
Auburn M	24.2	27.5	27.9	24.8	25.0	25.9
Lockett 4789	25.5	28.4	27.8	23.8	22.5	25.6
Paymaster 111	24.6	26.9	27.6	23.1	23.8	25.2
Yearly average	26.3	29.0	29.1	24.7	24.7	26.8

Table 25. Lint percent of varieties tested 2 to 4 years under irrigation at Chickasha.

Variety	Lint percent (pulled)					
	1963	1964	1965	1966	1967	Average
Gregg 35		26.8	27.1	23.4	22.2	24.8
Austin	24.4	28.3	29.3			26.0
Auburn 56	24.6	27.7	28.5			25.6
Rex S.S.L.	25.3	26.9	27.7			25.3
Stardel	25.8		29 0	26.2		27.1
Delfos 9169	24.1		28.1	23.5		25.3
Northern Star 4-11	25.7	27.4		23.2		25.6
Parrott 66		30.1	31.6	25.4		28.2
Dixie King II			29.8	24.5	26.5	27.6
Paymaster 202			27.8	23 8	24.7	26.1
Tideland TPSA-69	25.2			24.1	24.3	26.1
Westburn				25.3	25.2	27.4
Lankburn				21.7	21.8	23.9

Table 26. Lint percent of varieties tested 4 years on dryland at Chickasha.

Variety	Lint percent (pulled)					
	1963*	1964	1965	1966	1967	Average
Western Stormproof		27.8	26.9	26.0	29.4	27.5
Northern Star No. 5		27.4	26.7	24.2	27.8	26.5
Lankart 57		26.7	27.6	24.0	26 9	26.3
Deltapine Smoothleaf		26.9	25.1	24.8	27.5	26.1
Paymaster 54-B		24.3	26.0	24.7	27.7	25.7
Paymaster 101A		25.3	26.1	24.2	26.5	25.5
Stoneville 7A		26.1	27.1	22.7	25.3	25.3
Blightmaster		25.8	25.3	22.4	26.4	25.0
Lockett 4789		25.7	25.9	22.0	24.8	24.6
Gregg 35		23.6	24.0	23.8	23.9	23.8
Yearly average		26.0	26.1	23.9	26.6	25.6

* Test not analyzed due to extensive drouth damage.

Table 27. Lint percent of varieties tested 2 to 3 years on dryland at Chickasha.

Variety	Lint percent (pulled)					
	1963*	1964	1965	1966	1967	Average
DeKalb 302		25.2	25.3	24.0		25.1
Auburn M		22.2	25.2	24.4		24.2
Paymaster 202			25.6	23.8	26.8	25.5
Lockett 88A			25.9	22.2	26.8	25.0
Parrott 66		26.1		24.0	26.9	25.8
Westburn				23.7	27.2	25.8
Lankburn				21.7	25.4	23.9

* Test not analyzed due to extensive drouth damage.

Table 28. Lint percent of varieties tested 3 years on dryland at Chickasha in stripper-harvested tests.

Variety	Lint percent (pulled)					
	1963*	1964**	1965	1966	1967	Average
Northern Star No. 5			27.8	23.2	28.1	26.4
Lankart 57			27.3	23.5	26.2	25.7
Lankart 611			25.4	21.8	25.4	24.2
Paymaster 101A			25.1	21.0	25.8	24.0
Paymaster 202			25.6	20.6	24.6	23.6
Western Stormproof			26.3	15.8	28.5	23.5
Rilcot 90			25.6	20.9	23.3	23.3
Stripper 61-30			24.2	23.0	22.0	23.1
Gregg 35			25.6	22.6	20.1	22.8
Paymaster 111			24.9	21.2	20.9	22.3
Lockett 88A			26.1	16.4	23.5	22.0
Yearly average			25.8	20.9	24.4	23.7

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 29. Lint percent of varieties tested 2 years on dryland at Chickasha in stripper-harvested tests.

Variety	Lint percent (pulled)					
	1963*	1964**	1965	1966	1967	Average
Gregg 45			25.3	25.7		25.9
Parrott 66			26.1	23.7		25.3
Watson Stormproof B-29			26.8	20.5		24.0
Gregg 25V			26.0	21.0		23.9
DeKalb 302			24.8	20.9		23.2
Tideland TPSA-41			24.2	20.9		22.9
Blightmaster			26.1	18.2		22.5
Westburn				20.6	25.4	24.1
Lankburn				20.9	24.4	23.7
Lockett 4789				19.3	25.3	23.4
Sweatt 75				21.5	22.2	22.9

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 30. Lint percent of varieties tested 4 years on dryland at Mangum.

Variety	Lint percent (pulled)					
	1963	1964	1965	1966*	1967	Average
Western Stormproof	29.9	29.3	27.4		25.5	28.0
Northern Star No. 5	29.2	28.7	27.1		26.4	27.9
Lankart 57	29.2	27.6	25.6		26.8	27.3
Stoneville 7A	28.2	26.0	25.6		25.1	26.2
Deltapine Smoothleaf	28.5	27.5	23.3		25.1	26.1
Paymaster 101A	26.6	26.4	25.9		23.6	25.6
Lockett 4789	25.9	26.7	24.0		23.9	25.1
Blightmaster	26.4	24.3	24.0		25.0	24.9
Yearly average	28.0	27.1	25.4		25.2	26.4

** Test not analyzed due to very low yields caused by an early frost.

Table 31. Lint percent of varieties tested 1 to 3 years on dryland at Mangum.

	Lint percent (pulled)					
variety	1963	1964	1965	1966*	1967	Average
Parrott	27.5	27.8	25.2			26.4
Stoneville 62	26.4	26.0	25.2			25.4
Austin	26.5	25.6	23.3			24.7
Coker 124-B	25.8	25.9	23.1			24.5
Auburn 56	26.4	24.4	22.9			24.1
Rex S.S.L.	25.8	23.9	22.1			23.5
Auburn M	23.5	22.3	23.3			22.6
Paymaster 54-B	26.7		25.0		24.9	25.7
Parrott 66		25.5	25.1		26.5	26.2
Gregg 35		24.6	21.6		24.7	24.1
Westburn					25.6	26.8
Lankburn					22.7	23.9

** Test not analyzed due to very low yields caused by an early frost.

Table 32. Lint percent of varieties tested 5 years on dryland at Perkins.

	Lint percent (pulled)					
Variety	1963	1964	1965	1966	1967	Average
Northern Star No. 5	25.0	27.0	28.4	22.6	25.5	25.7
Lankart 57	25.6	26.2	29.3	24.8	22.3	25.6
Deltapine Smoothleaf	24.5	25.7	28.3	25.9	23.0	25.5
Lockett 4789	23.9	25.3	27.6	23.8	23.2	24.8
Stoneville 7A	24.5	24.8	29.2	23.4	21.8	24.7
Yearly average	24.7	25.8	28.6	24.1	23.2	25.3

Table 33. Lint percent of varieties tested 2 to 4 years on dryland at Perkins.

	Lint percent (pulled)					
Variety	1963	1964	1965	1966	1967	Average
Tideland TPSA-69	23.3	27.1	28.1	24.6		25.3
Paymaster 101A	24.7	25.6	27.1	24.3		24.9
Delfos 9169	22.2	24.6	26.9	24.8		24.1
Western Stormproof	25.9	28.8	29.0			26.8
Stardel	24.4	26.1	28.2			25.2
Rex S.S.L.	23.5	24.8	27.2			24.1
Auburn 56	22.9	24.9	27.3			24.0
Parrott 66		26.9	28.8	25.5		26.2
Paymaster 111			26.9	23.9	22.2	24.3
Westburn				26.2	26.3	27.9
Lankburn				23.7	22.2	24.6

Table 34. Fiber length of varieties tested 4 years under irrigation at Altus.

Variety	2.5% span length					
	1963	1964	1965	1966	1967*	Average
Stoneville 7A	1.073	1.145	1.071	1.166		1.114
Deltapine Smoothleaf	1.079	1.135	1.067	1.168		1.112
Stoneville 213	1.056	1.147	1.032	1.150		1.096
Auburn M	1.063	1.139	1.058	1.118		1.095
Lockett 4789	1.044	1.097	1.035	1.133		1.077
Paymaster 111	1.041	1.075	1.037	1.120		1.068
Blightmaster	1.038	1.058	1.009	1.101		1.052
Lankart 57	1.018	1.076	.987	1.120		1.050
Western Stormproof	.977	1.007	.971	1.071		1.007
Northern Star No. 5	1.005	.977	.933	1.051		.992
Paymaster 101A	.964	.992	.951	1.039		.987
Paymaster 54-B	.941	.968	.961	1.017		.972
Yearly average	1.025	1.068	1.009	1.105		1.052

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 35. Fiber length of varieties tested 1 to 3 years under irrigation at Altus.

Variety	2.5% span length					
	1963	1964	1965	1966	1967*	Average
Auburn 56	1.069	1.158	1.055			1.112
Rex S.S.L.	1.073	1.093	1.057			1.092
Austin	1.052	1.064	1.058			1.076
Northern Star 4-11	1.073	1.075		1.111		1.072
Delfos 9169	1.159		1.065	1.156		1.132
Stardel	1.052		1.019	1.120		1.069
Gregg 35		1.051	.967	1.049		1.014
Parrott 66		.989	1.000	.994		.986
Tideland TPSA-69	1.028			1.047		1.025
Dixie King II			1.063	1.129		1.091
Paymaster 202			.955	1.044		.995
Lankburn				1.154		1.101
Westburn				1.091		1.038

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 36. Fiber length of varieties tested 5 years under irrigation at Chickasha.

Variety	2.5% span length					
	1963	1964	1965	1966	1967	Average
Stoneville 7A	1.070	1.173	1.165	1.187	1.186	1.156
Deltapine Smoothleaf	1.055	1.117	1.120	1.218	1.195	1.141
Stoneville 213	1.018	1.145	1.137	1.151	1.173	1.125
Auburn M	1.015	1.126	1.093	1.139	1.171	1.109
Paymaster 111	1.003	1.135	1.104	1.144	1.142	1.106
Lockett 4789	.997	1.120	1.150	1.128	1.131	1.105
Blightmaster	.972	1.092	1.067	1.141	1.126	1.080
Lankart 57	.968	1.082	1.062	1.093	1.106	1.062
Northern Star No. 5	.951	1.037	1.035	1.117	1.038	1.036
Western Stormproof	.947	1.025	.970	1.086	1.071	1.020
Paymaster 101A	.937	.977	1.018	1.052	1.027	1.002
Paymaster 54-B	.919	.976	.975	1.030	1.012	.982
Yearly average	.988	1.084	1.075	1.124	1.115	1.077

Table 37. Fiber length of varieties tested 2 to 4 years under irrigation at Chickasha.

Variety	2.5% span length					
	1963	1964	1965	1966	1967	Average
Gregg 35		1.053	1.035	1.075	1.037	1.028
Auburn 56	1.056	1.144	1.163			1.149
Rex S.S.L.	1.026	1.161	1.129			1.133
Austin	1.006	1.127	1.094			1.104
Delfos 9169	1.059		1.230	1.231		1.188
Stardel	1.028		1.155	1.174		1.134
Northern Star 4-11	1.029	1.127		1.151		1.114
Parrott 66		1.013	1.006	1.040		1.002
Dixie King II			1.082	1.145	1.141	1.095
Paymaster 202			1.000	1.045	1.041	1.001
Tideland TPSA-69	.970			1.140	1.125	1.080
Lankburn				1.185	1.152	1.126
Westburn				1.135	1.167	1.109

Table 38. Fiber length of varieties tested 4 years on dryland at Chickasha.

Variety	2.5% span length					
	1963*	1964	1965	1966	1967	Average
Stoneville 7A		1.118	1.102	1.184	1.085	1.122
Deltapine Smoothleaf		1.068	1.104	1.166	1.122	1.115
Lockett 4789		1.008	1.085	1.115	1.077	1.071
Blightmaster		1.011	1.058	1.079	1.035	1.046
Lankart 57		.994	1.004	1.064	1.014	1.019
Gregg 35		.998	.965	1.029	1.001	.998
Western Stormproof		.985	.965	1.057	.978	.996
Northern Star No. 5		.954	1.001	1.046	.964	.991
Paymaster 101A		.943	.931	1.036	.982	.973
Paymaster 54-B		.917	.944	1.029	.978	.967
Yearly average		1.000	1.016	1.081	1.024	1.030

* Test not analyzed due to extensive drouth damage.

Table 39. Fiber length of varieties tested 2 to 3 years on dryland at Chickasha.

Variety	2.5% span length					
	1963*	1964	1965	1966	1967	Average
Auburn M		1.039	1.039	1.120		1.064
DeKalb 302		.966	1.014	1.030		1.001
Paymaster 202			1.026	1.033	.992	1.007
Lockett 88A			.957	1.038	.958	.974
Parrott 66		.955		1.023	1.005	.989
Lankburn				1.174	1.085	1.107
Westburn				1.112	1.073	1.070

* Test not analyzed due to extensive drouth damage.

Table 40. Fiber length of varieties tested 3 years on dryland at Chickasha in stripper-harvested tests.

Variety	2.5% span length					
	1963*	1964**	1965	1966	1967	Average
Paymaster 111			1.073	1.131	1.099	1.101
Stripper 61-30			.996	1.152	1.038	1.062
Lankart 57			1.078	1.064	1.022	1.055
Lankart 611			1.037	1.088	.991	1.039
Western Stormproof			1.023	1.061	1.006	1.030
Gregg 35			1.040	1.023	1.022	1.028
Paymaster 101A			.960	1.052	1.022	1.011
Northern Star No. 5			.966	1.045	1.004	1.005
Paymaster 202			.966	1.032	.993	.997
Lockett 88A			.918	1.056	.994	.989
Rilcot 90			.909	.943	.994	.949
Yearly average			.997	1.059	1.017	1.024

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 41. Fiber length of varieties tested 2 years on dryland at Chickasha in stripper-harvested tests.

Variety	2.5% span length					
	1963*	1964**	1965	1966	1967	Average
Tideland TPSA-41			1.042	1.077		1.056
Blightmaster			1.030	1.088		1.055
DeKalb 302			.989	1.046		1.014
Parrott 66			.955	1.072		1.010
Watson Stormproof B-29			.973	1.036		1.001
Gregg 25V			.930	1.019		.971
Gregg 45			.924	.986		.951
Lankburn				1.156	1.115	1.122
Lockett 4789				1.133	1.109	1.107
Westburn				1.146	1.091	1.105
Sweatt 75				1.088	1.054	1.057

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 42. Fiber length of varieties tested 4 years on dryland at Mangum.

Variety	2.5% span length					
	1963	1964	1965	1966*	1967	Average
Deltapine Smoothleaf	.960	1.032	1.038		1.157	1.047
Stoneville 7A	1.026	.940	1.084		1.128	1.045
Blightmaster	.958	1.038	1.024		1.078	1.025
Lockett 4789	.974	.940	1.065		1.087	1.017
Lankart 57	.888	.959	1.009		1.063	.980
Northern Star No. 5	.934	.932	.993		1.040	.975
Western Stormproof	.913	.970	.976		1.032	.973
Paymaster 101A	.918	.926	.995		1.007	.962
Yearly average	.946	.967	1.023		1.074	1.003

* Test not analyzed due to very low yields caused by an early frost.

Table 43. Fiber length of varieties tested 1 to 3 years on dryland at Mangum.

Variety	2.5% span length					
	1963	1964	1965	1966*	1967	Average
Coker 124-B	.924	1.056	1.077			1.043
Austin	.948	1.009	1.066			1.032
Auburn 56	.958	1.005	1.040			1.025
Auburn M	.927	1.022	1.034			1.019
Rex S.S.L.	.894	1.055	1.017			1.013
Stoneville 62	.853	.965	.965			.952
Parrott	.889	.900	.932			.931
Paymaster 54-B	.868		.980		1.028	.947
Parrott 66		.970	.956		1.002	.958
Gregg 35		.925	.973		.979	.941
Lankburn					1.150	1.079
Westburn					1.109	1.038

* Test not analyzed due to very low yields caused by an early frost.

Table 44. Fiber length of varieties tested 5 years on dryland at Perkins.

Variety	2.5% span length					
	1963	1964	1965	1966	1967	Average
Deltapine Smoothleaf	1.000	1.088	1.074	1.175	1.120	1.091
Stoneville 7A	1.003	1.120	1.051	1.144	1.131	1.090
Lockett 4789	1.018	1.077	1.003	1.124	1.118	1.068
Lankart 57	.942	1.063	1.000	1.064	1.067	1.027
Northern Star No. 5	.977	.987	.919	1.025	1.013	.984
Yearly average	.988	1.067	1.009	1.106	1.090	1.052

Table 45. Fiber length of varieties tested 2 to 4 years on dryland at Perkins.

Variety	2.5% span length					
	1963	1964	1965	1966	1967	Average
Delfos 9169	1.125	1.199	1.092	1.173		1.157
Tideland TPSA-69	.984	1.039	1.018	1.070		1.037
Paymaster 101A	.920	.976	.983	1.026		.986
Stardel	1.049	1.145	1.033			1.106
Auburn 56	1.020	1.090	1.055			1.086
Rex S.S.L.	1.008	1.071	1.025			1.065
Western Stormproof	.897	1.010	.927			.975
Parrott 66		.991	.967	1.041		.991
Paymaster 111			1.035	1.112	1.066	1.055
Lankburn				1.138	1.133	1.090
Westburn				1.108	1.078	1.047

Table 46. Micronaire of varieties tested 4 years under irrigation at Altus.

Variety	Micronaire					
	1963	1964	1965	1966	1967*	Average
Stoneville 213	4.5	4.1	3.8	3.1		3.9
Deltapine Smoothleaf	4.0	4.3	3.4	2.9		3.7
Lankart 57	4.2	4.2	3.4	3.0		3.7
Stoneville 7A	4.2	4.1	3.3	2.9		3.6
Paymaster 54-B	4.1	3.9	3.4	3.1		3.6
Lockett 4789	4.2	4.1	3.5	2.6		3.6
Auburn M	4.0	3.5	3.4	3.2		3.5
Paymaster 111	3.9	3.8	3.5	2.9		3.5
Paymaster 101A	3.8	3.8	3.4	2.6		3.4
Blightmaster	3.7	3.8	3.4	2.8		3.4
Northern Star No. 5	3.7	3.7	3.1	2.6		3.3
Western Stormproof	3.5	3.7	3.0	2.5		3.2
Yearly average	4.0	3.9	3.4	2.9		3.5

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 47. Micronaire of varieties tested 1 to 3 years under irrigation at Altus.

Variety	Micronaire					
	1963	1964	1965	1966	1967*	Average
Auburn 56	4.0	3.9	3.4			3.5
Rex S.S.L.	4.1	3.6	3.3			3.4
Austin	4.0	3.7	3.4			3.4
Northern Star 4-11	4.0	3.8		2.7		3.4
Stardel	3.8		3.1	2.7		3.3
Delfos 9169	3.7		3.1	2.5		3.2
Parrott 66		4.4	3.9	3.4		4.0
Gregg 35		4.1	3.1	2.8		3.4
Tideland TPSA-69	3.5			2.5		3.1
Paymaster 202			3.5	3.0		3.6
Dixie King II			3.4	2.9		3.5
Westburn				2.6		3.2
Lankburn				2.6		3.2

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 48. Micronaire of varieties tested 5 years under irrigation at Chickasha.

Variety	Micronaire					
	1963	1964	1965	1966	1967	Average
Lankart 57	4.4	4.8	4.3	3.7	3.8	4.2
Paymaster 54-B	4.0	4.5	4.6	3.7	4.0	4.2
Stoneville 213	4.5	4.9	4.5	3.7	3.6	4.2
Stoneville 7A	4.1	4.6	4.4	4.0	3.6	4.1
Paymaster 101A	4.1	4.9	4.3	3.9	3.1	4.1
Paymaster 111	4.3	4.5	4.2	3.5	3.9	4.1
Auburn M	3.7	4.3	4.3	3.8	3.6	3.9
Deltapine Smoothleaf	3.7	4.7	4.4	3.4	3.4	3.9
Lockett 4789	4.3	4.6	4.1	3.7	2.9	3.9
Blightmaster	4.0	4.5	4.3	3.3	3.6	3.9
Northern Star No. 5	3.6	4.9	4.3	3.2	3.1	3.8
Western Stormproof	3.9	4.0	4.3	3.2	3.3	3.7
Yearly average	4.1	4.6	4.3	3.6	3.5	4.0

Table 49. Micronaire of varieties tested 2 to 4 years under irrigation at Chickasha.

Variety	Micronaire					
	1963	1964	1965	1966	1967	Average
Gregg 35		4.3	4.0	3.8	3.1	3.8
Auburn 56	4.0	4.5	4.3			3.9
Rex S.S L.	4.2	4.1	4.1			3.8
Austin	3.7	4.2	4.1			3.7
Delfos 9169	3.7		4.4	3.2		3.8
Stardel	3.6		4.3	3.5		3.8
Northern Star 4-11	4.4	4.4		3.2		3.9
Parrott 66		5.2	4.9	4.0		4.5
Paymaster 202			4.4	3.7	3.8	4.2
Dixie King II			4.4	3.5	3.8	4.1
Tideland TPSA-69	3.5			3.6	3.3	3.7
Lankburn				3.3	3.4	3.8
Westburn				3.2	3.2	3.7

Table 50. Micronaire of varieties tested 4 years on dryland at Chickasha.

Variety	Micronaire					
	1963*	1964	1965	1966	1967	Average
Lankart 57		5.3	4.5	4.3	5.2	4.8
Paymaster 101A		4.9	4.5	4.1	5.1	4.7
Stoneville 7A		5.2	4.6	3.8	5.1	4.7
Deltapine Smoothleaf		5.3	4.5	3.8	5.3	4.7
Paymaster 54-B		4.8	4.3	4.3	5.1	4.6
Lockett 4789		5.2	4.2	3.7	4.9	4.5
Northern Star No. 5		4.5	4.3	3.7	5.0	4.4
Gregg 35		4.7	3.6	4.4	4.8	4.4
Western Stormproof		4.7	4.1	3.5	4.8	4.3
Blightmaster		4.6	3.9	3.7	4.7	4.2
Yearly average		4.9	4.3	3.9	5.0	4.5

* Test not analyzed due to extensive drouth damage.

Table 51. Micronaire of varieties tested 2 to 3 years on dryland at Chickasha.

Variety	Micronaire					
	1963*	1964	1965	1966	1967	Average
DeKalb 302		4.8	4.0	4.1		4.4
Auburn M		4.2	4.0	4.0		4.2
Paymaster 202			4.5	4.0	5.4	4.7
Lockett 88A			4.3	3.3	5.2	4.4
Parrott 66		5.8		4.2	5.7	5.1
Lankburn				4.0	5.2	4.7
Westburn				3.4	4.5	4.0

* Test not analyzed due to extensive drouth damage.

Table 52. Micronaire of varieties tested 3 years on dryland at Chickasha in stripper-harvested tests.

Variety	Micronaire					
	1963*	1964**	1965	1966	1967	Average
Stripper 61-30			5.6	4.4	5.1	5.0
Paymaster 111			4.6	4.7	5.0	4.8
Rilcot 90			4.1	4.6	5.2	4.6
Paymaster 202			4.6	4.0	5.3	4.6
Lankart 57			4.2	4.3	5.2	4.6
Paymaster 101A			4.4	4.0	5.2	4.5
Gregg 35			3.6	4.5	4.9	4.3
Northern Star No. 5			4.4	3.3	5.3	4.3
Lankart 611			4.1	4.0	4.4	4.2
Lockett 88A			4.5	3.4	4.2	4.0
Western Stormproof			4.2	3.1	4.8	4.0
Yearly average			4.4	4.0	5.0	4.4

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 53. Micronaire of varieties tested 2 years on dryland at Chickasha in stripper-harvested tests.

Variety	Micronaire					
	1963*	1964**	1965	1966	1967	Average
Gregg 45			4.7	4.9		5.0
Parrott 66			4.9	4.4		4.9
Gregg 25V			4.8	3.9		4.6
Tideland TPSA-41			4.5	3.5		4.2
DeKalb 302			4.0	4.0		4.2
Watson Stormproof B-29			4.3	3.4		4.1
Blightmaster			4.1	3.4		4.0
Lankburn				3.7	5.3	4.4
Lockett 4789				3.7	4.7	4.1
Sweatt 75				3.6	4.5	4.0
Westburn				3.3	4.5	3.8

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 54. Micronaire of varieties tested 4 years on dryland at Mangum.

Variety	Micronaire					
	1963	1964	1965	1966*	1967	Average
Lankart 57	5.0	5.5	4.3		5.2	5.0
Stoneville 7A	5.4	5.1	4.5		4.8	5.0
Lockett 4789	4.7	5.5	4.0		4.8	4.8
Deltapine Smoothleaf	5.0	5.4	4.1		4.7	4.8
Paymaster 101A	4.6	5.1	4.6		4.6	4.7
Northern Star No. 5	4.5	5.1	4.0		4.6	4.6
Western Stormproof	4.4	5.2	3.8		4.5	4.5
Blightmaster	4.1	4.6	3.9		4.6	4.3
Yearly average	4.7	5.2	4.2		4.7	4.7

* Test not analyzed due to very low yields caused by an early frost.

Table 55. Micronaire of varieties tested 1 to 3 years on dryland at Mangum.

Variety	Micronaire					
	1963	1964	1965	1966*	1967	Average
Parrott	5.1	5.5	4.0			4.9
Coker 124-B	4.7	4.8	4.3			4.6
Rex S.S.L.	4.8	4.9	4.0			4.6
Auburn 56	4.5	5.1	4.2			4.6
Austin	4.8	5.0	3.9			4.6
Stoneville 62	4.5	5.0	4.1			4.5
Auburn M	3.7	4.1	4.0			3.9
Paymaster 54-B	4.6		4.5		4.8	4.8
Parrott 66		5.9	4.5		5.5	5.3
Gregg 35		4.7	4.0		4.6	4.4
Lankburn					4.9	4.9
Westburn					4.3	4.3

* Test not analyzed due to very low yields caused by an early frost.

Table 56. Micronaire of varieties tested 5 years on dryland at Perkins.

Variety	Micronaire					
	1963	1964	1965	1966	1967	Average
Deltapine Smoothleaf	4.6	4.4	5.3	4.7	4.5	4.7
Stoneville 7A	4.2	4.3	5.1	4.2	4.2	4.4
Northern Star No. 5	3.9	4.1	5.1	3.8	4.5	4.3
Lankart 57	3.8	4.1	5.3	4.4	4.1	4.3
Lockett 4789	3.7	4.2	4.9	3.9	4.4	4.2
Yearly average	4.0	4.2	5.1	4.2	4.3	4.4

Table 57. Micronaire of varieties tested 2 to 4 years on dryland at Perkins.

Variety	Micronaire					
	1963	1964	1965	1966	1967	Average
Tideland TPSA-69	4.0	4 9	4.9	4.2		4.5
Paymaster 101A	4.0	4.6	5.1	4.1		4.5
Delfos 9169	3.6	4.0	4.8	4.2		4.2
Stardel	3.9	4.5	5.0			4.4
Rex S.S.L.	3.6	4.4	4.8			4.2
Western Stormproof	3.8	4.1	4.7			4.2
Auburn 56	3.8	4.1	4.7			4.2
Parrott 66		4 8	5.6	4.6		4.9
Paymaster 111			5.0	4.3	4.6	4.5
Lankburn				4.7	4.6	4.8
Westburn				3.6	4.6	4.3

Table 58. Fiber strength of varieties tested 4 years under irrigation at Altus.

Variety	1/8" gauge stelometer					
	1963	1964	1965	1966	1967*	Average
Paymaster 111	2.09	2.11	1.97	2.06		2.06
Lockett 4789	2.01	2.04	1.93	2.12		2.03
Deltapine Smoothleaf	2.02	1.99	2.00	1.94		1.99
Auburn M	1.94	2.19	1.86	1.97		1.99
Paymaster 101A	1.86	2.15	1.99	1.83		1.96
Stoneville 213	1.90	2.08	1.85	1.94		1.94
Paymaster 54-B	1.81	2.08	1.97	1.85		1.93
Blightmaster	1.89	2.07	1.82	1.77		1.89
Stoneville 7A	1.96	1.96	1.75	1.90		1.89
Lankart 57	1.82	1.83	1.90	1.82		1.84
Northern Star No. 5	1.85	1.92	1.72	1.72		1.80
Western Stormproof	1.70	1.88	1.58	1.83		1.75
Yearly average	1.90	2.03	1.86	1.90		1.92

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 59. Fiber strength of varieties tested 1 to 3 years under irrigation at Altus.

Variety	1/8" gauge stelometer					
	1963	1964	1965	1966	1967*	Average
Auburn 56	2.11	2.00	1.99			2.02
Rex S.S.L.	2.05	1 97	1.77			1.92
Austin	1.89	1.92	1.73			1.84
Northern Star 4-11	1.91	2.00		1.90		1.91
Delfos 9169	2.00		1.91	1.98		2.00
Stardel	1.99		1.82	1.94		1.95
Gregg 35		2.20	2.15	2.22		2.18
Parrott 66		1.90	1.84	1.84		1.85
Tideland TPSA-69	1.98			1.96		1.99
Paymaster 202			1.99	2.00		2.04
Dixie King II			1.96	1.84		1.94
Westburn				1.99		2.01
Lankburn				1.78		1.80

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 60. Fiber strength of varieties tested 5 years under irrigation at Chickasha.

Variety	1/8" gauge stelometer					
	1963	1964	1965	1966	1967	Average
Deltapine Smoothleaf	2.11	2.11	2.11	2.12	2.12	2.11
Paymaster 111	2.05	2.23	2.05	1.97	2.17	2.09
Stoneville 7A	2.20	1.99	1.90	1.99	2.05	2.03
Auburn M	2.02	2.02	1.92	2.03	2.15	2.03
Paymaster 101A	1.91	2.06	1.94	2.02	1.98	1.98
Stoneville 213	1.99	1.99	1.89	1.93	2.12	1.98
Lockett 4789	1.92	1.99	1.89	1.80	2.04	1.93
Blightmaster	1.89	2.02	1.86	1.90	1.90	1.91
Lankart 57	1.74	2.17	1.80	1.94	1.77	1.88
Paymaster 54-B	1.87	1.88	1.71	1.97	1.90	1.87
Western Stormproof	1.75	1.89	1.86	1.93	1.86	1.86
Northern Star No. 5	1.74	1.78	1.72	1.88	1.83	1.79
Yearly average	1.93	2.01	1.89	1.96	1.99	1.96

Table 61. Fiber strength of varieties tested 2 to 4 years under irrigation at Chickasha.

Variety	1/8" gauge stelometer					
	1963	1964	1965	1966	1967	Average
Gregg 35		2.34	2.08	1.91	2.24	2.14
Auburn 56	2.11	2.26	1.84			2.05
Rex S.S.L.	1.88	2.13	2.00			1.99
Austin	1.94	1.93	1.66			1.83
Stardel	2.13		2.00	2.10		2.11
Delfos 9169	2.07		1.89	2.01		2.02
Northern Star 4-11	2.10	2.13		1.88		2.03
Parrott 66		1.92	1.88	1.90		1.91
Paymaster 202			2.04	1.89	2.24	2.07
Dixie King II			1.83	1.91	1.97	1.92
Tideland TPSA-69	1.88			1.92	2.03	1.94
Westburn				1.78	2.10	1.93
Lankburn				1.92	1.96	1.93

Table 62. Fiber strength of varieties tested 4 years on dryland at Chickasha.

Variety	1/8" gauge stelometer					
	1963*	1964	1965	1966	1967	Average
Gregg 35		2.33	2.16	2.25	2.00	2.19
Deltapine Smoothleaf		2.26	2.31	2.15	1.91	2.16
Lockett 4789		2.21	1.93	2.08	2.01	2.06
Paymaster 101A		2.17	1.97	2.03	2.08	2.06
Stoneville 7A		2.04	2.03	1.93	1.91	1.98
Blightmaster		2.09	1.91	1.99	1.87	1.97
Paymaster 54-B		2.05	2.00	1.93	1.82	1.95
Lankart 57		1.98	1.94	1.99	1.63	1.89
Western Stormproof		1.77	1.89	1.99	1.80	1.86
Northern Star No. 5		1.89	1.73	1.78	1.76	1.79
Yearly average		2.08	1.99	2.01	1.88	1.99

* Test not analyzed due to extensive drouth damage.

Table 63. Fiber strength of varieties tested 2 to 3 years on dryland at Chickasha.

Variety	1/8" gauge stelometer					
	1963*	1964	1965	1966	1967	Average
Auburn M		2.17	1.88	2.09		2.01
DeKalb 302		1.96	1.93	2.10		1.96
Paymaster 202			2.18	2.03	2.07	2.12
Lockett 88A			1.75	1.88	1.83	1.85
Parrott 66		2.11		1.94	1.91	1.99
Westburn				2.02	1.73	1.92
Lankburn				1.97	1.72	1.89

* Test not analyzed due to extensive drouth damage.

Table 64. Fiber strength of varieties tested 3 years on dryland at Chickasha in stripper-harvested tests.

Variety	1/8" gauge stelometer					
	1963*	1964**	1965	1966	1967	Average
Gregg 35			2.07	2.25	2.16	2.16
Paymaster 111			2.24	2.01	2.10	2.12
Paymaster 202			2.06	1.92	2.22	2.07
Rilcot 90			1.82	1.94	2.19	1.98
Paymaster 101A			1.92	2.01	1.94	1.96
Stripper 61-30			1.73	1.91	1.98	1.87
Lankart 57			1.98	1.82	1.77	1.86
Lankart 611			1.88	1.82	1.85	1.85
Western Stormproof			1.80	1.85	1.82	1.82
Lockett 88A			1.80	1.74	1.80	1.78
Northern Star No. 5			1.70	1.71	1.80	1.74
Yearly average			1.91	1.91	1.97	1.93

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 65. Fiber strength of varieties tested 2 years on dryland at Chickasha in stripper-harvested tests.

Variety	1/8" gauge stelometer					
	1963*	1964**	1965	1966	1967	Average
Gregg 25V			2.15	2.00		2.10
DeKalb 302			2.16	2.00		2.10
Gregg 45			2.06	1.97		2.04
Watson Stormproof B-29			1.92	2.07		2.02
Blightmaster			2.06	1.92		2.01
Parrott 66			1.95	1.88		1.94
Tideland TPSA-41			1.92	1.85		1.91
Westburn				1.92	2.07	1.99
Lockett 4789				2.01	1.83	1.91
Lankburn				1.79	1.88	1.83
Sweatt 75				1.70	1.88	1.78

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 66. Fiber strength of varieties tested 4 years on dryland at Mangum.

Variety	1/8" gauge stelometer					
	1963	1964	1965	1966*	1967	Average
Paymaster 101A	2.10	2.06	1.97		2.24	2.09
Lockett 4789	2.07	2.01	1.92		2.07	2.02
Deltapine Smoothleaf	2.09	1.97	1.97		2.00	2.01
Stoneville 7A	2.04	1.88	1.88		2.01	1.95
Blightmaster	1.92	1.92	1.86		2.04	1.94
Northern Star No. 5	1.83	1.59	1.67		2.09	1.80
Lankart 57	1.77	1.71	1.82		1.89	1.80
Western Stormproof	1.63	1.97	1.59		1.88	1.77
Yearly average	1.93	1.89	1.84		2.03	1.92

** Test not analyzed due to very low yields caused by an early frost.

Table 67. Fiber strength of varieties tested 1 to 3 years on dryland at Mangum.

Variety	1/8" gauge stelometer					
	1963	1964	1965	1966*	1967	Average
Auburn M	1.83	2.01	2.12			2.02
Coker 124-B	2.04	2.03	1.80			1.99
Auburn 56	2.01	1.85	1.89			1.95
Rex S.S.L.	1.79	1.92	1.85			1.89
Parrott	1.91	1.89	1.71			1.87
Austin	1.88	1.73	1.74			1.82
Stoneville 62	1.32	1.86	1.82			1.70
Paymaster 54-B	2.01		1.56		1.84	1.79
Gregg 35		2.06	1.97		2.36	2.13
Parrott 66		1.83	1.79		1.94	1.85
Westburn					2.06	1.95
Lankburn					1.97	1.86

** Test not analyzed due to very low yields caused by an early frost.

Table 68. Fiber strength of varieties tested 5 years on dryland at Perkins.

Variety	1/8" gauge stelometer					
	1963	1964	1965	1966	1967	Average
Deltapine Smoothleaf	2.13	2.03	2.06	2.21	2.12	2.11
Lockett 4789	2.09	2.07	1.88	2.04	2.15	2.05
Stoneville 7A	2.06	1.88	1.97	2.03	2.08	2.00
Lankart 57	2.00	2.01	1.87	1.95	1.78	1.92
Northern Star No. 5	2.04	1.91	1.90	1.77	1.91	1.91
Yearly average	2.06	1.98	1.94	2.00	2.01	2.00

Table 69. Fiber strength of varieties tested 2 to 4 years on dryland at Perkins.

Variety	1/8" gauge stelometer					
	1963	1964	1965	1966	1967	Average
Paymaster 101A	2.17	2.21	2.17	2.00		2.14
Delfos 9169	2 03	1.98	1.96	2.02		2.00
Tideland TPSA-69	2.10	2.01	1.83	2.00		1.99
Auburn 56	2.24	2.19	2.02			2.16
Stardel	2.22	2.04	2.07			2.12
Rex S.S.L.	2.15	2.03	1.77			1.99
Western Stormproof	1.78	1.80	1.79			1.80
Parrott 66		1.86	2.05	2.05		2.01
Paymaster 111			2.06	2.22	2.30	2.21
Westburn				2.14	1.93	2.03
Lankburn				1.94	1.83	1.88

Table 70. Fiber strength of varieties tested 4 years under irrigation at Altus.

Variety	0" gauge stelometer					
	1963	1964	1965	1966	1967*	Average
Paymaster 111	3.92	4.19	4.08	3.76		3.99
Stoneville 7A	3.79	4.09	3.89	3.94		3.93
Blightmaster	3.59	4.14	4.15	3.66		3.89
Deltapine Smoothleaf	3.67	4.03	4.09	3.71		3.88
Lockett 4789	3.73	4.06	4.09	3.56		3.86
Auburn M	3.69	4.18	3.82	3.67		3.84
Paymaster 101A	3.62	4.10	4.20	3.37		3.82
Stoneville 213	3.65	4.12	3.84	3.47		3.77
Northern Star No. 5	3.58	3.82	3.99	3.48		3.72
Western Stormproof	3.66	3.80	3.72	3.40		3.65
Paymaster 54-B	3.39	3.84	3.88	3.27		3.60
Lankart 57	3.47	3.72	3.45	3.23		3.47
Yearly average	3.65	4.01	3.93	3.54		3.78

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 71. Fiber strength of varieties tested 1 to 3 years under irrigation at Altus.

Variety	0" gauge stelometer					
	1963	1964	1965	1966	1967*	Average
Auburn 56	3.85	3.97	4.00			3.87
Rex S.S.L.	3.76	3.92	3.85			3.77
Austin	3.56	4.00	3.88			3.74
Northern Star 4-11	3.69	3.99		3.55		3.80
Stardel	4.08		4.42	3.80		4.18
Delfos 9169	3.42		3.72	3.47		3.62
Gregg 35		4.39	4.81	3.76		4.28
Parrott 66		3.76	3.94	3.38		3.66
Tideland TPSA-69	3.56			3.61		3.78
Paymaster 202			4.00	3.75		3.93
Dixie King II			4.07	3.50		3.84
Westburn				3.58		3.83
Lankburn				3.48		3.73

* Test not analyzed due to poor stands caused by cold and extensive seedling disease.

Table 72. Fiber strength of varieties tested 5 years under irrigation at Chickasha.

Variety	0″ gauge stelometer					
	1963	1964	1965	1966	1967	Average
Paymaster 111	4.09	4.27	4.07	3.76	3.77	3.99
Stoneville 7A	3.85	3.82	3.99	3.98	3.79	3.89
Auburn M	3.64	3.92	3.85	3.63	3.69	3.75
Paymaster 101A	3.74	4.12	3.75	3.44	3.52	3.71
Lockett 4789	3.70	3.72	3.91	3.59	3.57	3.70
Western Stormproof	3.95	3.83	3.80	3.29	3.58	3.69
Stoneville 213	3.73	4.00	3.63	3.41	3.70	3.69
Deltapine Smoothleaf	3.75	3.76	3.70	3.58	3.58	3.67
Blightmaster	3.64	3.78	3.71	3.34	3.63	3.62
Northern Star No. 5	3.58	3.64	3.83	3.23	3.54	3.56
Paymaster 54-B	3.32	3.74	3.33	3.31	3.34	3.41
Lankart 57	3.25	3.49	3.46	3.15	3.36	3.34
Yearly average	3.69	3.84	3.75	3.48	3.59	3.67

Table 73. Fiber strength of varieties tested 2 to 4 years under irrigation at Chickasha.

Variety	0″ gauge stelometer					
	1963	1964	1965	1966	1967	Average
Gregg 35		4 43	4.16	3.93	4.04	4.15
Rex S S.L.	3.76	3.83	3.87			3.73
Austin	3.75	4.13	3.52			3.71
Auburn 56	3.81	3.68	3.78			3.67
Stardel	4.19		4.35	3.92		4.18
Delfos 9169	3.65		3.39	3.24		3.46
Northern Star 4-11	3.92	4.17		3.42		3.84
Parrott 66		3.77	3.50	3.17		3.46
Paymaster 202			3.78	3.73	3.82	3.84
Dixie King II			3.77	3.44	3.75	3.72
Tideland TPSA-69	3.76			3.40	3.46	3.62
Westburn				3.47	3.71	3.73
Lankburn				3.20	3.19	3.33

Table 74. Fiber strength of varieties tested 4 years on dryland at Chickasha.

Variety	0″ gauge stelometer					
	1963*	1964	1965	1966	1967	Average
Gregg 35		4.60	4.34	3.95	4.37	4.32
Paymaster 101A		4.62	4.18	4.15	4.20	4.29
Stoneville 7A		4.41	4.30	3.80	3.96	4.12
Deltapine Smoothleaf		4.24	4.17	3.68	3.92	4.00
Lockett 4789		4.09	3.93	3.78	4.09	3.97
Western Stormproof		4.28	3.91	3.71	3.93	3.96
Northern Star No. 5		4.27	3.99	3.45	3.90	3.90
Blightmaster		3.95	3.94	3.67	3.90	3.87
Paymaster 54-B		4.33	3.70	3.33	3.77	3.78
Lankart 57		3.77	3.59	3.54	3.40	3.58
Yearly average		4.26	4.01	3.71	3.94	3.98

* Test not analyzed due to extensive drouth damage.

Table 75. Fiber strength of varieties tested 2 to 3 years on dryland at Chickasha.

Variety	0″ gauge stelometer					
	1963*	1964	1965	1966	1967	Average
DeKalb 302		4.46	3.92	3.77		4.04
Auburn M		4.29	3.70	3.70		3.88
Paymaster 202			4.46	3.97	4.27	4.33
Lockett 88A			3.71	3.56	3.93	3.83
Parrott 66		4.19		3.53	3.85	3.87
Westburn				3.71	3.79	3.91
Lankburn				3.49	3.52	3.66

* Test not analyzed due to extensive drouth damage.

Table 76. Fiber strength of varieties tested 3 years on dryland at Chickasha in stripper-harvested tests.

Variety	0″ gauge stelometer					
	1963*	1964**	1965	1966	1967	Average
Gregg 35			4.60	4.19	4.17	4.32
Paymaster 111			4.67	4.14	4.09	4.30
Paymaster 202			4.38	3.89	4.38	4.22
Rilcot 90			4.27	4.01	4.27	4.18
Stripper 61-30			4.17	4.27	4.04	4.16
Paymaster 101A			4.44	3.74	4.18	4.12
Northern Star No. 5			4.19	3.62	4.09	3.97
Western Stormproof			4.04	3.51	3.80	3.78
Lockett 88A			3.95	3.76	3.41	3.71
Lankart 57			3.74	3.34	3.78	3.62
Lankart 611			3.85	3.25	3.54	3.55
Yearly average			4.21	3.79	3.98	3.99

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 77. Fiber strength of varieties tested 2 years on dryland at Chickasha in stripper-harvested tests.

Variety	0″ gauge stelometer					
	1963*	1964**	1965	1966	1967	Average
Gregg 35			4.60	4.19		4.39
DeKalb 302			4.41	3.88		4.14
Watson Stormproof B-29			4.37	3.86		4.11
Gregg 25V			4.22	3.99		4.10
Blightmaster			4.17	3.50		3.83
Parrott 66			3.96	3.49		3.72
Tideland TPSA-41			3.94	3.36		3.64
Lockett 4789				3.61	4.05	3.94
Westburn				3.68	3.81	3.85
Sweatt 75				3.34	3.53	3.54
Lankburn				3.21	3.62	3.52

* Test not analyzed due to extensive drouth damage.
** Test not planted.

Table 78. Fiber strength of varieties tested 4 years on dryland at Mangum.

Variety	0" gauge stelometer					
	1963	1964	1965	1966*	1967	Average
Paymaster 101A	4.64	4.63	4.07		4.04	4.35
Stoneville 7A	4.13	4.09	4.33		4.10	4.16
Deltapine Smoothleaf	4.05	3.85	4.33		4.04	4.07
Western Stormproof	4.19	4.20	3.87		3.91	4.04
Lockett 4789	4.09	4.17	3.94		3.92	4.03
Blightmaster	4.14	4.17	3.79		3.87	3.99
Northern Star No. 5	4.04	4.04	3.95		3.66	3.92
Lankart 57	3.79	3.67	3.87		3.29	3.66
Yearly average	4.13	4.10	4.02		3.85	4.03

** Test not analyzed due to very low yields caused by an early frost.

Table 79. Fiber strength of varieties tested 1 to 3 years on dryland at Mangum.

Variety	0" gauge stelometer					
	1963	1964	1965	1966*	1967	Average
Rex S.S.L.	3.98	4.17	4.30			4.10
Stoneville 62	4.38	3.85	4.17			4.08
Coker 124-B	4.15	4.11	4.02			4.04
Auburn 56	3.88	4.11	4.22			4.02
Auburn M	4.17	4.04	3.82			3.96
Austin	4.00	3.93	3.82			3.86
Parrott	4.01	4.00	3.68			3.84
Paymaster 54-B	4.19		3.71		3.67	3.89
Gregg 35		4.24	4.45		4.54	4.45
Parrott 66		4.02	3.62		3.75	3.84
Westburn					3.94	4.12
Lankburn					3.67	3.85

* Tests not analyzed due to very low yields caused by an early frost.

Table 80. Fiber strength of varieties tested 5 years on dryland at Perkins.

Variety	0" gauge stelometer					
	1963	1964	1965	1966	1967	Average
Deltapine Smoothleaf	4.01	4.04	4.31	3.81	3.67	3.97
Stoneville 7A	4.03	4.27	4.36	3.72	3.45	3.97
Lockett 4789	3.95	3.95	4.22	3.75	3.52	3.88
Northern Star No. 5	3.85	3.50	4.28	3.82	3.72	3.83
Lankart 57	3.54	3.46	3.78	3.38	3.08	3.45
Yearly average	3.88	3.84	4.19	3.70	3.49	3.82

Table 81. Fiber strength of varieties tested 2 to 4 years on dryland at Perkins.

Variety	0″ gauge stelometer					
	1963	1964	1965	1966	1967	Average
Paymaster 101A	4.24	3.99	4.74	3.83		4.12
Tideland TPSA-69	4.07	4.25	4.17	3.63		3.95
Delfos 9169	3.93	3.96	3.86	3.28		3.68
Stardel	4.56	4.48	4.62			4.40
Auburn 56	4.05	4.15	4.35			4.03
Rex S.S.L.	3.94	4.09	4.19			3.92
Western Stormproof	4.05	3.65	4.34			3.86
Parrott 66		3.81	4.18	3.55		3.76
Paymaster 111			4.73	4.02	3.92	4.25
Westburn				3.66	3.55	3.83
Lankburn				3.46	3.40	3.66

APPENDIX

Table A. Conversion of 2.5% span length into 1/32's of an inch and into fractional equivalents of inches.

2.5% span length	Inches	
	In 32's	In fractions
0.844	27	27/32
0.875	28	7/8
0.906	29	29/32
0.938	30	15/16
0.969	31	31/32
1.000	32	1 0/32
1.031	33	1 1/32
1.063	34	1 1/16
1.094	35	1 3/32
1.125	36	1 1/8
1.156	37	1 5/32
1.188	38	1 3/16
1.219	39	1 7/32
1.250	40	1 1/4

Table B. Conversion of 0″ gauge stelometer into thousands of pounds per square inch.

0″ gauge stelometer	Lbs./in.² in 1,000's	0″ gauge stelometer	Lbs./in.² in 1,000's
3.10	67.0	4.00	86.5
3.20	69.2	4.10	88.6
3.30	71.3	4.20	90.8
3.40	73.5	4.30	92.9
3.50	75.6	4.40	95.1
3.60	77.8	4.50	97.3
3.70	80.0	4.60	99.4
3.80	82.1	4.70	101.6
3.90	84.3	4.80	103.7