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Reports of Oklahoma Agricultural Experiment Station serve people of all socio-economic levels, race, color, sex, religion and national origin.

Cotton Variety Tests in Oklahoma, 1968-1973¹

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The purpose of the cotton variety testing program in Oklahoma is to determine the relative performance (under Oklahoma environmental conditions) among cotton varieties available commercially and to distribute that information to cotton producers throughout the state. Individual producers should then use the information to choose the cotton variety best adapted to their particular situations.

Cotton variety tests are conducted at several locations in Oklahoma each year under irrigation and on dryland. Yield and other agronomic characters are determined in each test as are the more important measurements of fiber quality. Continuous testing over years is necessary because of the release of new varieties each year and because of the modifications in existing varieties by the breeders who maintain them. Testing at several locations each year is required because a variety which performs well in one part of the state may or may not perform well in another. Also, yield, earliness, and fiber coarseness (i.e., micronaire) data from a limited number of tests can be misleading because environment influences those three characters to a considerable degree. For those traits, long-term averages are much better indicators of relative performance than are results from only a few tests.

A similar bulletin, B-623, was published for tests conducted from 1956 through 1962 as was another, B-665, for the years 1963 through 1967. This bulletin presents test information from 1968 through 1973. As data is collected on varieties which have recently been released, that information will also be published and distributed.

¹ The research published herein was conducted under Oklahoma Agricultural Experiment Station Project S-714 (Cotton Variety Tests).

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Procedures

During the period 1968 through 1973, irrigated cotton variety tests were conducted at Altus and Chickasha. Dryland tests were also conducted each of those years at Mangum and Chickasha. Irrigated tests were performed at Tipton in 1972 and 1973; but those data were not included in this bulletin because only two years testing were involved. Dryland tests were conducted at Perkins in 1968 and 1969 and at Tipton in 1973, but they were not included herein because of the limited time spans involved. Data for the 1968, 1969, 1972, and 1973 tests may be found in the previous Oklahoma Agricultural Experiment Station Reports P-607, P-634, P-680, and P-694, respectively.

Individual tests reported herein were planted in randomized complete-block experimental designs with 30 varieties in each test. Six replications per test were used in the experiments from 1968 through 1970 with five replications per test thereafter. Plots were two rows 50 feet long with rows spaced 40 inches apart. Two rows of a common border were grown on each side of each plot. Cultural information by year is given for the Altus tests in Table 1, Chickasha (irrigated) in Table 2, Mangum in Table 3, and Chickasha (dryland) in Table 4. The 1973 test at Mangum (Table 3) was not harvested because of uneven stands caused by wind-blown sand early in the season. The 1970 dryland test at Chickasha (Table 4) was not harvested because of severe drouth damage. Yields were also very low because of drouth in the Chickasha dryland test the following year (Tables 11 and 12); and perhaps, that test should have been discarded as well. However, rather than lose the test two years in a row, the 1971 data were calculated and are reported herein.

The total number of cotton varieties commercially available was too large for all varieties to be tested at every location in every year. Therefore, varieties thought to have utility in a general area or type of culture (e.g., irrigated versus dryland conditions) were included in the experiments most closely approximating that situation. Some varieties were grown at a particular location throughout the period 1968 through 1973. The data for those varieties have been reported in tables separate from those grown less than the full six years. Typical reasons why varieties were not grown in a test over all years include: seed in short supply in a particular year, variety replaced by a subsequent release, variety not released until sometime after 1968, variety performed poorly and was dropped from the testing program, etc.

In the tables on the right-hand side, the average performance for each variety is given over the years it was tested at that location. In those tables in which the varieties were not grown all six years, varietal averages are comparable with each other and with the averages for varieties

grown over all years at that location since Patterson's³ method was used to adjust for year effects. His method is not entirely accurate, but it is useful for purposes of comparison. Averages for varieties tested at a location are comparable with each other in any combination. One may also compare data within a 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 the differences observed can be attributed to varieties, to environments, or to variety by environment interactions.

For yield (Tables 5 through 12) and earliness (Tables 13 through 15), statistical analyses are represented by LSD (least significant difference) values given at the base of those tables for each test. An LSD may be used to compare differences in performance between varieties at that location in the year involved. If the difference in performance between two varieties exceeds the LSD value for that test, the chances are approximately 19 out of 20 that the apparent difference for that trait is a real difference. Of course, two varieties with significantly different performance for one character may be very similar for another and vice versa.

Results

Below are discussed the individual agronomic (yield, earliness, and lint percent) and fiber quality (length, length uniformity, coarseness, and strength) characters which are reported in this bulletin. In examining the results for these characters, the producer should keep in mind that he is seeking a variety having high yield, moderate to high earliness, reasonably high lint percent, and fiber that is long, uniform, and strong with a coarseness consistently in the acceptable range under his environmental conditions. When the producer uses these data to choose the variety best adapted to his particular situation, he should study the variety test which comes nearest to fulfilling the conditions existing on his farm. Attention should be given to location in the state, to whether the test was irrigated or dryland, etc., and to how the varieties in that test performed *relative* to one another.

Agronomic Characters

The agronomic characters discussed below are yield measured as pounds of lint per acre, earliness estimated by percent first harvest, and lint percent calculated on the basis of both snapped and picked cotton. For each of these characters, higher numerical values are in general

³ Patterson, R. E. 1950. A method of adjustment for calculating comparable yields in variety tests, Agron. J. 42:509-511.

more desirable than are lower ones.

Yield. Although fiber quality is important (particularly length and coarseness), lint yield is probably the single most important criteria the producer should use in deciding which variety he should grow. However, yield is a character which is considerably influenced by environment; and relative yield performance should be studied over a number of years at a location to more reliably determine which varieties consistently yield well in that area. Irrigation versus no-irrigation can have a profound effect on relative varietal performance. Some varieties do well under irrigation but cannot compete with others under dryland conditions. Others do relatively better on dryland than under irrigation. This suggests that if a producer irrigates, he should study yields in the irrigated test closest to his farm. If he does not or cannot irrigate, he should study the dryland test in his area. Yield results are presented in Tables 5 through 12.

Earliness. Relative maturity is a character of particular importance on the northern extremities of the Cotton Belt where growing seasons are comparatively short. It has been our experience in conducting variety tests in Oklahoma that in general the earlier the variety, the better it performs under dryland conditions. Under irrigation, a moderate amount of earliness is still required, but extreme earliness is not as necessary for maximum performance as it is on dryland. Like yield, multiple observations of earliness are much more reliable than are single estimates. Earliness was calculated herein as percent first harvest by dividing the weight of lint per plot from the first harvest by the weight of lint from both harvests. The character can be measured only in those tests harvested more than once. The only such dryland experiment was at Mangum in 1969. Results from that test were not reported herein, but may be found in the publication P-634. In the irrigated tests earliness was estimated two years at Altus and four years at Chickasha. Those data are presented in Tables 13 through 15.

Lint percent. The producer should consider lint percent in his choice of variety if he pays by the hundredweight for harvesting or if his ginning costs are levied by weight of snaps or seed cotton rather than by weight of lint or by the bale. Pulled lint percents (Tables 16 through 23) were calculated by dividing the weight of lint by the total weight of the snapped sample from which it came, and those percents should be studied if harvesting is accomplished using mechanical strippers. Picked lint percents (Tables 24 through 31) were estimated by dividing the weight of lint by the total weight of the seedcotton sample from which it came, and those percents should be considered if harvesting is done with mechanical pickers. However, the producer should keep in mind

that as the price of cotton seed increases, the importance of high lint percent declines. Also, a higher yielding variety with a moderate (sometimes even very low) lint percent often gives higher net returns per acre than does a lower yielding variety with a high lint percent. Differences in lint yield mean more in terms of dollars and cents than do differences in lint percent.

Fiber Quality Characters

The fiber quality characters discussed below are fiber length measured as 2.5 percent span length, fiber length uniformity as uniformity index, fiber coarseness as micronaire, and fiber strength a 1/8" and 0" gauge stelometer. For each of these characters except coarseness, higher numerical values are more desirable than are lower ones. For fiber coarseness, there is a range of acceptability; and micronaire values outside that range result in lower prices per pound of lint.

Fiber length. Length is one of the major criteria determining the price per pound that the producer receives for his lint. It was measured here as 2.5 percent span length, in inches, on the digital fibrograph since this measurement corresponds closely with classer's length. Tables 32 through 39 provide this information for the varieties at the various test locations used. Table A in the Appendix converts periodic 2.5 percent span length measurements into 32's and into fractions of an inch to aid the reader in the interpretation of this data.

Fiber length uniformity. Length uniformity relates to the amount of waste in the manufacturing process; i.e., the higher the uniformity, the less the waste. It was measured here as uniformity index, i.e., the ratio expressed as a percentage of 50 to 2.5 percent span length. Both span length measurements are obtained in inches on the digital fibrograph. Tables 40 through 47 summarize the length uniformity data. At present, price incentives are not received by the producer for lint having high fiber length uniformity.

Fiber coarseness. Micronaire was used to measure fiber coarseness because it is the measurement commonly used in commercial channels of trade. Micronaire is estimated in standard (curvilinear scale) micronaire units, i.e., micrograms per inch. At present, the desirable range for 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 per pound of lint is reduced. It should be noted, however, that penalties are somewhat greater for micronaires below 3.5 than for those above 4.9. The micronaire data are shown in Tables 48 through 55. Like yield and earliness, fiber coarseness is greatly influenced by the environment; and observations over a number of years at a location are much more reliable than are those from one or two years at that same location.

Fiber strength. Although the producer presently receives no direct financial incentive for fiber strength, the character is related to yarn strength and to efficiency in the spinning process. Strength was measured as 1/8" gauge stelometer because it corresponds more closely with yarn strength than does any other strength measurement currently in use. Those measurements are shown in grams-force per tex in Tables 56 through 63. In past reports, strength data reported in grams-force per grex. This change merely involves moving the decimal one space to the right, e.g., 2.13 grams-force per grex under the old system becomes 21.3 grams-force per tex under the new. The change was made to increase the uniformity of fiber testing and reporting techniques for cotton variety tests across the United States. Strength was also measured as 0" gauge stelometer because that measurement can be converted into pounds per square inch by multiplying the observed values (in grams-force per tex) by a factor of 2161.4. Table B in the Appendix converts periodic 0'' gauge readings into pounds per square inch in thousands for the reader's convenience. Tables 64 through 71 report 0" guage data from the individual variety tests.

Summary and Conclusions

Oklahoma cotton variety test results for the years 1968 through 1973 are presented in the form of tables with a brief discussion for each of the characters studied. These results should be used by the individual cotton producer to choose the variety best adapted to his area and production practices. Test results of newer cotton varieties were available for only one or two years and could not be included in a publication which summarizes many years of testing. Information on the more recent variety releases from 1972 and 1973 can be obtained by requesting Research Reports P-680 and P-694, respectively, from the Department of Agronomy, Oklahoma State University.

Cultural information relating to the irrigated cotton variety Table 1. tests at Altus, 1968 through 1973*

| Years | Planting dates | Fertilizer applications | | Insecticide applications | Harvest dates | |
|-------|-------------------|---------------------------------------|---|-----------------------------|----------------------|---------|
| 1968 | June 10 | 150 lbs. 18-48-0 30 lbs. N | 3 | 3 | November | 22 |
| 1969 | M ay 24 | 45 lbs. P_2O_5 | 4 | 8 | November December | 11 4 |
| 1970 | M ay 19 | 200 lbs. 30-10-70 100 lbs. 18-46-0 | 5 | 3 | November | 12 |
| 1971 | June 3 | 200 lbs. 18-46-0 | 3 | 0 | January | 12 |
| 1972 | May 3'1 | 150 lbs. 18-46-0 | 2 | 0 | December | |
| 1973 | May 29 | 200 lbs. 18-46-0 | 3 | 2 | November December | |

^{*}The soil type at this location is a Hollister clay loam.

Table 2. Cultural information relating to the irrigated cotton variety tests at Chickasha, 1968 through 1973*

| Years | Planting dates | Fertilizer applications | Number of Insecticide irrigations applications | |
|-------|--------------------------|----------------------------|------------------------------------------------|----------------------------|
| 1968 | May 1 (Repl. June 21) | 200 lbs. 12-24-12 | 2 9 | December 6 |
| 1969 | May 26 | 200 lbs. 12-24-12 | 3 4 | October 21 November 17 |
| 1970 | May 19 | 200 lbs. 10-20-10 | 5 10 | October 28 November 16 |
| 1971 | May 25 | 200 lbs. 10-20-10 | 2 8 | November 15 |
| 1972 | May 11 | 200 lbs. 12-24-12 | 4 8 | September 27 November 8 |
| 1973 | May 15 (Repl. June 8) | 200 lbs. 15-30-15 | 0** 5 | October 24 November 28 |

^{*}The soil type at this location is a Reinach silt loam.

Table 3. Cultural information relating to the dryland cotton variety tests at Mangum, 1968 through 1973*

| Planting Years dates | | Fertilizer applications | Insecticide applications | Harvest dates |
|-------------------------|---------|--------------------------------|--------------------------|----------------------------|
| 1968 | May 28 | 150 lbs. 14-28-14 | 5 | December 7 |
| 1969 | May 24 | 150 lbs. 8-32-16 30 lbs. N | 5 | November 13 December 20 |
| 1970 | May 26 | 150 lbs. 8-32-16 30 lbs. N | 2 | December 8 |
| 1971 | June 5 | 150 lbs. 8-32-16 20 lbs. N | 0 | January 6 |
| 1972 | June 2 | 160 lbs. 15-30-15 20 lbs. N | 0 | December 20 |
| 1973 | June 12 | 160 lbs. 15-30-15 20 lbs. N | 0 | ** |

^{**}Irrigation was not required because of abundant rainfall in 1973.

^{*}The soil type at this location is a Meno loamy fine sand.
**Test was not harvested due to uneven stands caused by wind-blown sand.

Cultural information relating to the dryland cotton variety tests at Chickasha, 1968 through 1973* Table 4.

| 1969 May 29 None 0 November of the control of the | | | Fertilizer applications | Insecticide applications | Harvest dates |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|-------------------------|--------------------------|------------------|
| 1970 May 26 None 0 ** 1971 June 15 None 4 November 1972 May 24 None 2 Octob | 1968 | June 14 | None | 7 | December 3 |
| 1971 June 15 None 4 Noveml 1972 May 24 None 2 Octol | 1969 | May 29 | None | 0 | November 24 |
| 1972 May 24 None 2 Octo | 1970 | May 26 | None | 0 | ** |
| 110110 | 1971 | June 15 | None | 4 | November 20 |
| 1973 June 7 None 5 December | 1972 | May 24 | None | 2 | October 11 |
| J | 1973 | June 7 | None | 5 | December 8 |

^{*}The soil type at this location is a Reinach silt loam.
**Test was not harvested due to severe drouth damage.

Yield of varieties tested 6 years under irrigation at Altus Table 5.

| | Lint yield, pounds/acre | | | | | | | |
|-------------------|-------------------------|------|-------------|-------------|-------------|-------------|---------|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | |
| Deltapine 16 | 351 | 630 | 490 | 262 | 369 | 1140 | 540 | |
| Stoneville 213 | 319 | 686 | 52 8 | 20 8 | 334 | 913 | 498 | |
| Paymaster 202 | 3 8 0 | 558 | 419 | 22 8 | 351 | 1010 | 491 | |
| Lockett BXL | 321 | 626 | 507 | 211 | 31 8 | 89 3 | 479 | |
| Stoneville 7A | 273 | 628 | 432 | 151 | 324 | 777 | 431 | |
| Lockett 4789 | 306 | 532 | 433 | 133 | 284 | 833 | 420 | |
| Lockett 4789-A | 307 | 576 | 43 8 | 137 | 315 | 712 | 414 | |
| Lankart 3840 | 412 | 543 | 486 | 122 | 95 | 769 | 405 | |
| Coker 201 | 224 | 420 | 407 | 172 | 196 | 910 | 388 | |
| Yearly average | 321 | 578 | 460 | 180 | 287 | 884 | 452 | |
| LSD (0.05) | 56 | 67 | 65 | 53 | 117 | 178 | 89 | |

Table 6. Yield of varieties tested 3 to 5 years under irrigation at Altus

| | Lint yield, pounds/acre | | | | | | | | |
|-----------------|-------------------------|------|-------------|-------------|------|-------------|--------------|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | |
| Lankart LX 571 | 359 | 644 | | 182 | 299 | 829 | 465 | | |
| Deltapine 45A | 329 | 679 | | 161 | 303 | 765 | 448 | | |
| Tamcot 788 | | 771 | 473 | 261 | 314 | 1036 | 545 | | |
| Stripper Cala-S | | 616 | 51 8 | 21 8 | 219 | 860 | 460 | | |
| Lankart 57 | 401 | 686 | 491 | 130 | | | 494 | | |
| Paymaster 111 | 295 | 449 | 363 | 152 | | | 3 8 2 | | |
| Coker 310 | | | 547 | 198 | 385 | 854 | 495 | | |
| Coker 5110 | | | 467 | 23 8 | 326 | 895 | 481 | | |
| Westburn 70 | | | 564 | 214 | 322 | 68 3 | 445 | | |
| Coker 4104 | 254 | 612 | 521 | | | | 461 | | |
| Westburn | 357 | 524 | 459 | | | | 446 | | |
| Paymaster 101-A | 35 8 | 605 | 360 | | | | 440 | | |
| Dunn 56C | 321 | 511 | 401 | | | | 410 | | |
| Paymaster 18 | | 554 | 43 8 | 22 8 | | | 453 | | |
| Acala SJ-1 | | 323 | 286 | 77 | | | 275 | | |
| Lankart 611 | | | 506 | | 262 | 1073 | 522 | | |
| Delcot 277 | | | 544 | | 264 | 922 | 485 | | |
| Coker 312 | | | | 235 | 313 | 980 | 511 | | |
| Paymaster 101-B | | | | 249 | 263 | 895 | 471 | | |
| Paymaster 111-A | | | | 153 | 305 | 889 | 451 | | |
| Dunn 118 | | | | 206 | 238 | 888 | 446 | | |
| HyBee 100A | | | | 209 | 252 | 8 22 | 429 | | |
| LSD (0.05) | 56 | 67 | 65 | 53 | 117 | 178 | 89 | | |

Table 7. Yield of varieties tested 6 years under irrigation at Chickasha

| | Lint yield, pounds/acre | | | | | | | |
|----------------|-------------------------|------|-------------|------------|------|------|---------|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | |
| Stoneville 213 | 145 | 692 | 435 | 457 | 1093 | 513 | 556 | |
| Deltapine 16 | 178 | 684 | 329 | 433 | 1136 | 519 | 547 | |
| Stoneville 7A | 96 | 687 | 419 | 400 | 1172 | 504 | 546 | |
| Lockett BXL | 187 | 645 | 31 8 | 365 | 1068 | 632 | 536 | |
| Paymaster 202 | 2 48 | 645 | 296 | 294 | 997 | 673 | 526 | |
| Lockett 4789-A | 216 | 629 | 276 | 257 | 1084 | 529 | 499 | |
| Coker 201 | 141 | 700 | 225 | 373 | 1089 | 426 | 492 | |
| Lockett 4789 | 156 | 604 | 323 | 333 | 1036 | 491 | 491 | |
| Lankart 3840 | 218 | 572 | 332 | 294 | 885 | 515 | 469 | |
| Yearly average | 176 | 651 | 328 | 356 | 1062 | 534 | 518 | |
| LSD (0.05) | 51 | 69 | 69 | 7 3 | 142 | 116 | 87 | |

Table 8. Yield of varieties tested 3 to 5 years under irrigation at Chickasha

| | | | Lint yi | eld, pour | ds/acre | | |
|-----------------|------|-------------|---------|-------------|---------|------|--------------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average |
| Deltapine 45A | 116 | 696 | | 378 | 956 | 415 | 474 |
| Lankart LX 571 | 220 | 58 6 | | 315 | 932 | 445 | 462 |
| Tamcot 788 | | 636 | 318 | 350 | 1058 | 663 | 537 |
| Stripper Cala-S | | 593 | 228 | 195 | 990 | 472 | 427 |
| Paymaster 111 | 140 | 603 | 276 | 340 | | | 480 |
| Lankart 57 | 183 | 581 | 254 | 249 | | | 457 |
| Westburn 70 | | | 335 | 393 | 991 | 599 | 528 |
| Coker 5110 | | | 279 | 464 | 1017 | 436 | 497 |
| Coker 310 | | | 267 | 370 | 1022 | 456 | 477 |
| Paymaster 101-A | 295 | 642 | 296 | | | | 544 |
| Westburn | 157 | 675 | 338 | | | | 523 |
| Coker 4104 | 127 | 713 | 321 | | | | 520 |
| Dunn 56C | 146 | 577 | 242 | | | | 455 |
| Paymaster 18 | | 625 | 272 | 330 | | | 482 |
| Acala SI-1 | | 570 | 166 | 313 | | | 423 |
| Delcot 277 | | | 404 | | 1199 | 638 | 624 |
| Lankart 611 | | | 310 | | 1050 | 632 | 541 |
| Paymaster 101-B | | | | 347 | 1069 | 572 | 530 |
| Coker 312 | | | | 3 89 | 965 | 504 | 487 |
| Paymaster 111-A | | | | 305 | 1031 | 501 | 4 8 0 |
| HyBee 100A | | | | 414 | 995 | 403 | 471 |
| Dunn 118 | | | | 355 | 874 | 518 | 450 |
| LSD (0.05) | 51 | 69 | 69 | 73 | 142 | 116 | 87 |

Table 9. Yield of varieties tested 5 years on dryland at Mangum

| | Lint yield, pounds/acre | | | | | | | |
|----------------|-------------------------|------|------------|------|------|-------|---------|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average | |
| Lankart 3840 | 144 | 384 | 328 | 353 | 108 | | 263 | |
| Lankart LX 571 | 92 | 490 | 267 | 331 | 125 | | 261 | |
| Lankart 57 | 116 | 464 | 292 | 328 | 68 | | 254 | |
| Lockett 4789-A | 124 | 318 | 290 | 297 | 117 | | 229 | |
| Paymaster 202 | 90 | 391 | 233 | 309 | 108 | | 226 | |
| Yearly average | 113 | 409 | 282 | 324 | 105 | | 247 | |
| LSD (0.05) | NS | 110 | 8 2 | 76 | 60 | | 95 | |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 10. Yield of varieties tested 3 or 4 years on dryland at Mangum

| | | | Lint yi | eld, poun | ds/acre | | |
|---------------------|------|--------------|-------------|-----------|---------|-------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average |
| Coker 201 | 85 | 446 | | 284 | 66 | | 230 |
| Lockett BXL | 88 | | 265 | 340 | 129 | | 247 |
| Lockett 4789 | 87 | | 279 | 320 | 65 | | 229 |
| Tamcot 788 | | 434 | 321 | 356 | 129 | | 277 |
| Stripper Cala-S | | 4 8 0 | 311 | 332 | 97 | | 272 |
| Westburn | 161 | 559 | 2 89 | | | | 315 |
| Coker 4104 | 87 | 523 | 330 | | | | 292 |
| Paymaster 101-A | 106 | 443 | 224 | | | | 237 |
| Dunn 56C | 102 | 388 | 222 | | | | 216 |
| Stoneville 7A | 79 | 504 | | 274 | | | 251 |
| Paymaster 111 | 35 | 364 | | 227 | | | 174 |
| Tamcot 24 | | 52 8 | 254 | 4 | 103 | | 277 |
| Stripper Cala-N | | 527 | 269 | | 81 | | 274 |
| Lankart 611 | | 479 | 228 | | 123 | | 258 |
| Prolific Stormproof | | 637 | | 389 | 84 | | 338 |
| Coker 310 | | 506 | | 362 | 143 | | 305 |
| Westburn 70 | | | 315 | 408 | 173 | | 309 |
| Paymaster 111-A | | | 282 | 320 | 70 | | 234 |
| LSD (0.05) | NS | 110 | 82 | 76 | 60 | | 95 |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 11. Yield of varieties tested 5 years on dryland at Chickasha

| Variety | Lint yield, pounds/acre | | | | | | | | | |
|----------------|-------------------------|-------------|-------|------|------------|------|---------|--|--|--|
| | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | | |
| Paymaster 202 | 462 | 283 | | 63 | 229 | 513 | 310 | | | |
| Lockett 4789-A | 517 | 2 77 | | 30 | 253 | 455 | 306 | | | |
| Lankart LX 571 | 466 | 33 5 | | 35 | 231 | 444 | 302 | | | |
| Lankart 57 | 464 | 320 | | 43 | 240 | 401 | 294 | | | |
| Lankart 3840 | 425 | 292 | | 36 | 226 | 395 | 275 | | | |
| Coker 201 | 410 | 265 | | 44 | 203 | 311 | 247 | | | |
| Yearly average | 457 | 295 | | 42 | 230 | 420 | 289 | | | |
| LSD (0.05) | 5 8 | 43 | | 17 | 5 8 | 93 | 54 | | | |

^{*}Test was not harvested due to severe drouth damage.

Table 12. Yield of varieties tested 3 or 4 years on dryland at Chickasha

| | Lint yield, pounds/acre | | | | | | | | | |
|---------------------|-------------------------|-------------|-------|------|------|-------------|--------------|--|--|--|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | | |
| Lockett BXL | 470 | | | 55 | 309 | 489 | 333 | | | |
| Lockett 4789 | 446 | | | 26 | 237 | 554 | 31 8 | | | |
| Coker 310 | | 277 | | 70 | 222 | 534 | 31 8 | | | |
| Tamcot 788 | | 267 | | 54 | 236 | 433 | 290 | | | |
| Prolific Stormproof | | 2 84 | | 36 | 205 | 425 | 2 8 0 | | | |
| Stripper Cala-S | | 179 | | 34 | 153 | 481 | 254 | | | |
| Stoneville 7A | 437 | 336 | | 50 | | | 299 | | | |
| Paymaster 111 | 374 | 236 | | 47 | | | 243 | | | |
| Lankburn | 3 8 6 | 274 | | | | 515 | 2 9 0 | | | |
| Lankart 611 | | 298 | | | 195 | 571 | 329 | | | |
| Stripper Cala-N | | 205 | | | 220 | 48 0 | 276 | | | |
| Westburn 70 | | | | 77 | 232 | 535 | 340 | | | |
| Paymaster 101-B | | | | 71 | 270 | 487 | 334 | | | |
| Deltapine 16 | | | | 52 | 244 | 532 | 334 | | | |
| Coker 5110 | | | | 53 | 203 | 548 | 326 | | | |
| HyBee 200A | | | | 42 | 201 | 53 8 | 319 | | | |
| Quapaw | | | | 53 | 223 | 455 | 302 | | | |
| Paymaster 111-A | | | | 45 | 201 | 461 | 294 | | | |
| Dunn 119 | | | | 47 | 189 | 438 | 283 | | | |
| LSD (0.05) | 58 | 43 | | 17 | 58 | 93 | 54 | | | |

^{*}Test was not harvested due to severe drouth damage.

Table 13. Earliness of varieties tested 2 years under irrigation at Altus

| | | | | • | | _ | | | | | |
|-----------------|-------|-----------------------|-------|-------|-------|--------------|---------|--|--|--|--|
| | | Percent first harvest | | | | | | | | | |
| Variety | 1968* | 1969 | 1970* | 1971* | 1972* | 1973 | Average | | | | |
| Lankart 3840 | | 82.4 | | | | 86.6 | 84.5 | | | | |
| Lankart LX 571 | | 82.5 | | | | 78.7 | 80.6 | | | | |
| Paymaster 202 | | 73.3 | | | | 8 4.6 | 79.0 | | | | |
| Lockett BXL | | 77.0 | | | | 79.9 | 78.5 | | | | |
| Lockett 4789-A | | 8 0.3 | | | | 74.3 | 77.3 | | | | |
| Tamcot 788 | | 70.6 | | | | 79.2 | 74.9 | | | | |
| Stoneville 213 | | 79.8 | | | | 69.1 | 74.5 | | | | |
| Stripper Cala-S | | 67.7 | | | | 74.8 | 71.3 | | | | |
| Lockett 4789 | | 65.7 | | | | 73.6 | 69.7 | | | | |
| Deltapine 16 | | 6 8 .9 | | | | 69.3 | 69.1 | | | | |
| Coker 201 | | 5 8 .3 | | | | 72.4 | 65.4 | | | | |
| Stoneville 7A | | 74.1 | | | | 56.2 | 65.2 | | | | |
| Deltapine 45A | | 64.5 | | | | 62.5 | 63.5 | | | | |
| Yearly average | | 72.7 | | | | 73.9 | 73.3 | | | | |
| LSD (0.05) | | 8.4 | | | | 10.9 | 9.7 | | | | |

^{*}Test was harvested only once.

Table 14. Earliness of varieties tested 4 years under irrigation at Chickasha

| Variety | Percent first harvest | | | | | | | | |
|-----------------|-----------------------|------|------|-------|------|------|--------------|--|--|
| | 1968* | 1969 | 1970 | 1971* | 1972 | 1973 | Average | | |
| Lankart 3840 | | 71.2 | 83.0 | | 80.3 | 52.6 | 71.8 | | |
| Paymaster 202 | | 67.2 | 83.4 | | 72.6 | 50.2 | 68.4 | | |
| Lockett BXL | | 71.1 | 84.7 | | 71.4 | 44.1 | 67. 8 | | |
| Lockett 4789-A | | 72.6 | 74.8 | | 68.8 | 48.2 | 66.1 | | |
| Tamcot 788 | | 61.9 | 83.8 | | 64.2 | 53.3 | 65. 8 | | |
| Lockett 4789 | | 63.1 | 87.3 | | 67.1 | 39.3 | 64.2 | | |
| Stoneville 213 | | 66.0 | 76.6 | | 70.5 | 32.7 | 61.5 | | |
| Stripper Cala-S | | 67.4 | 80.1 | | 49.6 | 44.6 | 60.4 | | |
| Deltapine 16 | | 55.8 | 80.2 | | 66.0 | 31.2 | 58.3 | | |
| Coker 201 | | 62.1 | 66.9 | | 67.7 | 31.3 | 57.0 | | |
| Stoneville 7A | | 58.1 | 74.5 | | 63.0 | 24.7 | 55.1 | | |
| Yearly average | V-A | 65.1 | 79.6 | | 67.4 | 41.1 | 63.3 | | |
| LSD (0.05) | | 4.9 | 6.7 | | 12.0 | 10.6 | 8.6 | | |

^{*}Test was harvested only once.

Table 15. Earliness of varieties tested 2 or 3 years under irrigation at Chickasha

| | Percent first harvest | | | | | | | | | |
|-----------------|-----------------------|------|----------------------|-------|------|------|---------|--|--|--|
| Variety | 1968* | 1969 | 1970 | 1971* | 1972 | 1973 | Average | | | |
| Lankart LX 571 | | 67.1 | | | 66.6 | 41.7 | 63.9 | | | |
| Deltapine 45A | | 57.0 | | | 56.8 | 24.3 | 51.5 | | | |
| Westburn 70 | | | 88.0 | | 77.6 | 48.2 | 71.9 | | | |
| Lankart 611 | | | 86.2 | | 67.1 | 52.2 | 69.1 | | | |
| Delcot 277 | | | 87.5 | | 68.7 | 36.7 | 64.9 | | | |
| Coker 5110 | | | 78.0 | | 63.3 | 31.9 | 58.3 | | | |
| Coker 310 | | | 75.4 | | 51.9 | 40.7 | 56.6 | | | |
| Dunn 56C | | 64.5 | 8 3. 8 | | | | 65.1 | | | |
| Westburn | | 62.3 | 84.4 | | | | 64.3 | | | |
| Paymaster 101-A | | 65.4 | 81.2 | | | | 64.3 | | | |
| Lankart 57 | | 61.5 | 83.9 | | | | 63.7 | | | |
| Paymaster 111 | | 62.6 | 76. 8 | | | | 60.7 | | | |
| Paymaster 18 | | 62.4 | 73.1 | | | | 58.7 | | | |
| Coker 4104 | | 55.0 | 75.7 | | | | 56.0 | | | |
| Acala SJ-1 | | 54.0 | 70.0 | | | | 53.0 | | | |
| Paymaster 101-B | | | | | 68.6 | 55.2 | 71.0 | | | |
| Paymaster 111-A | | | | | 69.5 | 35.6 | 61.6 | | | |
| Dunn 118 | | | | | 64.0 | 37.3 | 59.7 | | | |
| Coker 312 | | | | | 58.1 | 31.9 | 54.1 | | | |
| HyBee 100A | | | | | 62.3 | 26.0 | 53.2 | | | |
| LSD (0.05) | | 4.9 | 6.7 | | 12.0 | 10.6 | 8.6 | | | |

^{*}Test was harvested only once.

Table 16. Pulled lint percent of varieties tested 6 years under irrigation at Altus

| Variety | | Lint percent (pulled) | | | | | | | | |
|----------------|------|-----------------------|-------------|------|------|------|---------|--|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | |
| Deltapine 16 | 23.0 | 23.3 | 26.8 | 20.7 | 24.3 | 27.2 | 24.2 | | | |
| Coker 201 | 24.2 | 24.4 | 28.0 | 20.1 | 21.5 | 26.1 | 24.1 | | | |
| Paymaster 202 | 23.4 | 22.1 | 26.4 | 20.3 | 24.7 | 27.3 | 24.0 | | | |
| Stoneville 213 | 23.9 | 24.7 | 25.9 | 17.7 | 23.0 | 26.2 | 23.6 | | | |
| Lockett BXL | 22.5 | 22.3 | 25.5 | 20.4 | 23.7 | 25.2 | 23.3 | | | |
| Stoneville 7A | 22.4 | 24.3 | 25.4 | 16.4 | 23.3 | 24.1 | 22.7 | | | |
| Lankart 3840 | 22.0 | 22.1 | 26.0 | 19.5 | 20.4 | 25.4 | 22.6 | | | |
| Lockett 4789-A | 22.9 | 21.8 | 24.1 | 19.7 | 23.0 | 23.9 | 22.6 | | | |
| Lockett 4789 | 20.8 | 22.2 | 24.1 | 16.9 | 22.8 | 24.7 | 21.9 | | | |
| Yearly average | 22.8 | 23.0 | 25.8 | 19.1 | 23.0 | 25.6 | 23.2 | | | |

Table 17. Pulled lint percent of varieties tested 3 to 5 years under irrigation at Altus

| | | Lint percent (pulled) | | | | | | | | | |
|-----------------|------|-----------------------|---------------|------|--------------|--------------|--------------|--|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | | |
| Lankart LX 571 | 22.7 | 23.5 | | 18.3 | 23.1 | 26.0 | 23.2 | | | | |
| Deltapine 45A | 24.0 | 23.9 | | 16.7 | 20.7 | 26.3 | 22. 8 | | | | |
| Tamcot 788 | | 25.4 | 26.0 | 21.8 | 23. 8 | 27.2 | 24.7 | | | | |
| Stripper Cala-S | | 23.5 | 25.3 | 20.6 | 23.0 | 24.9 | 23.4 | | | | |
| Lankart 57 | 22.7 | 23.5 | 2 8 .1 | 18.2 | | | 23.7 | | | | |
| Paymaster 111 | 21.3 | 22.1 | 25.3 | 18.4 | | | 22.3 | | | | |
| Coker 310 | | | 27.9 | 19.0 | 24.4 | 26.3 | 24.2 | | | | |
| Coker 5110 | | | 26.0 | 17.5 | 23. 8 | 26. 8 | 23.4 | | | | |
| Westburn 70 | | | 27.7 | 17.6 | 22.7 | 24.2 | 22.9 | | | | |
| Coker 4104 | 23.2 | 26. 9 | 26. 8 | | | | 25 0 | | | | |
| Westburn | 22.3 | 22.3 | 25.7 | | | | 22.8 | | | | |
| Paymaster 101-A | 23.6 | 23.3 | 22.6 | | | | 22.5 | | | | |
| Dunn 56C | 22.0 | 21.5 | 23.7 | | | | 21.7 | | | | |
| Paymaster 18 | | 22.3 | 25.3 | 20.0 | | | 23.1 | | | | |
| Acala SJ-1 | | 22.2 | 24.6 | 13.2 | | | 20.6 | | | | |
| Lankart 611 | | | 26.0 | | 22.7 | 27.3 | 23.7 | | | | |
| Delcot 277 | | | 25.9 | | 23.5 | 24.2 | 22. 9 | | | | |
| Paymaster 101-B | | | | 21.1 | 23.4 | 25.4 | 23.9 | | | | |
| Coker 312 | | | | 18.1 | 22.3 | 27.3 | 23.2 | | | | |
| HyBee 100A | | | | 18.1 | 20.8 | 26.2 | 22.3 | | | | |
| Dunn 118 | | | | 19.1 | 21.4 | 23.7 | 22.0 | | | | |
| Paymaster 111-A | | | | 17.8 | 21.9 | 24.2 | 21.9 | | | | |

Table 18. Pulled lint percent of varieties tested 6 years under irrigation at Chickasha

| Variety | Lint percent (pulled) | | | | | | | | |
|----------------|-----------------------|------|---------------|--------------|-------------|-------------|--------------|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | |
| Coker 201 | 23.3 | 28.9 | 29.5 | 28.5 | 27.7 | 26.5 | 27.4 | | |
| Stoneville 213 | 20.0 | 26.2 | 2 8 .0 | 28 .0 | 28.6 | 26.6 | 26.2 | | |
| Deltapine 16 | 20.8 | 26.1 | 2 8 .3 | 26.4 | 28.4 | 25.8 | 26.0 | | |
| Stoneville 7A | 20.2 | 26.6 | 2 7.8 | 26.8 | 28.6 | 24.9 | 25. 8 | | |
| Lankart 3840 | 21. 8 | 26.8 | 26.6 | 24.4 | 26.0 | 26.5 | 25.4 | | |
| Paymaster 202 | 24.0 | 26.0 | 25. 8 | 23.4 | 26.4 | 26.1 | 25.3 | | |
| Lockett 4789-A | 22.7 | 26.5 | 26.2 | 23.7 | 26.9 | 24.9 | 25.2 | | |
| Lockett BXL | 20.4 | 27.3 | 26.5 | 24.7 | 26.6 | 25.8 | 25.2 | | |
| Lockett 4789 | 20.3 | 25.9 | 26.9 | 24.3 | 27.1 | 23.8 | 24.7 | | |
| Yearly average | 21.5 | 26.7 | 27.3 | 25.6 | 27.4 | 25.7 | 25.7 | | |

Table 19. Pulled lint percent of varieties tested 3 to 5 years under irrigation at Chickasha

| | | | Lint 1 | percent (1 | oulled) | | |
|-----------------|--------------|------|--------------|--------------|---------------|------|--------------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average |
| Lankart LX 571 | 23.0 | 27.1 | | 23.6 | 27.4 | 26.2 | 25.8 |
| Deltapine 45A | 20.1 | 25.9 | | 26.3 | 27.1 | 24.9 | 25.2 |
| Tamcot 788 | | 26.2 | 26.0 | 24.1 | 27.4 | 25.6 | 25.0 |
| Stripper Cala-S | | 26.0 | 26.2 | 23.1 | 2 8 .1 | 24.3 | 24.7 |
| Lankart 57 | 20.9 | 26.6 | 27.7 | 23.4 | | | 25.1 |
| Paymaster 111 | 21.0 | 26.6 | 25.6 | 24.8 | | | 24. 9 |
| Coker 310 | | | 28 .4 | 26.2 | 29.3 | 25.1 | 26.5 |
| Coker 5110 | | | 25.6 | 26.9 | 2 8 .6 | 26.4 | 26.1 |
| Westburn 70 | | | 26.7 | 24.9 | 26.5 | 26.5 | 25.4 |
| Coker 4104 | 22. 9 | 26.4 | 27.4 | | | | 26.1 |
| Paymaster 101-A | 23.7 | 26.7 | 25.7 | | | | 25. 9 |
| Westburn | 22.2 | 26.6 | 26.9 | | | | 25. 8 |
| Dunn 56C | 21.8 | 23.7 | 23.6 | | | | 23.6 |
| Paymaster 18 | | 26.3 | 26.3 | 23.8 | | | 24.6 |
| Acala SJ-1 | | 25.2 | 25.9 | 24.9 | | | 24.5 |
| Delcot 277 | | | 26.7 | | 2 8 .4 | 26.0 | 25.9 |
| Lankart 611 | | | 26.9 | | 26.6 | 26.1 | 25.4 |
| HyBee 100A | | | | 25.7 | 28.6 | 26.7 | 26.5 |
| Coker 312 | | | | 25. 9 | 27.9 | 26.3 | 26.2 |
| Paymaster 101-B | | | | 24.9 | 28.6 | 25.8 | 25.9 |
| Paymaster 111-A | | | | 22.3 | 25.5 | 24.0 | 23.4 |
| Dunn 118 | | | | 21.8 | 23.6 | 23.2 | 22.3 |

Table 20. Pulled lint percent of varieties tested 5 years on dryland at Mangum

| Variety | Lint percent (pulled) | | | | | | | | |
|----------------|-----------------------|------|------|------|------|-------|---------|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average | | |
| Lankart LX 571 | 19.8 | 25.1 | 24.3 | 21.1 | 17.6 | | 21.6 | | |
| Lankart 3840 | 19.7 | 23.2 | 22.8 | 22.4 | 19.0 | | 21.4 | | |
| Lankart 57 | 18.8 | 25.4 | 26.3 | 20.0 | 16.7 | | 21.4 | | |
| Paymaster 202 | 21.2 | 23.0 | 21.6 | 22.2 | 19.2 | | 21.4 | | |
| Lockett 4789-A | 19.0 | 22.4 | 24.1 | 20.9 | 16.1 | | 20.5 | | |
| Yearly average | 19.7 | 23.8 | 23.8 | 21.3 | 17.7 | | 21.3 | | |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 21. Pulled lint percent of varieties tested 3 or 4 years on dryland at Mangum

| | | | Lint 1 | percent (1 | oulled) | | |
|---------------------|------|---------------|--------|---------------|--------------|-------|--------------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average |
| Coker 201 | 19.0 | 24.9 | | 20.3 | 17.7 | | 21.2 |
| Lockett BXL | 19.9 | | 23.2 | 22.6 | 16.5 | | 21.2 |
| Lockett 4789 | 18.1 | | 24.1 | 21.5 | 13. 8 | | 20.1 |
| Tamcot 788 | | 24.5 | 23.9 | 21.4 | 20.6 | | 22.3 |
| Stripper Cala-S | | 24.3 | 22.1 | 22.1 | 16.0 | | 20. 8 |
| Coker 4104 | 23.4 | 25.3 | 25.4 | | | | 23.6 |
| Paymaster 101-A | 20.8 | 24.1 | 24.7 | | | | 22.1 |
| Westburn | 19.7 | 23.5 | 23.9 | | | | 21.2 |
| Dunn 56C | 20.1 | 21.6 | 21.3 | | | | 19.9 |
| Stoneville 7A | 21.0 | 24.2 | | 18.4 | | | 20. 9 |
| Paymaster 111 | 14.0 | 22.0 | | 16.8 | | | 17.3 |
| Stripper Cala-N | | 25.7 | 24.2 | | 18.0 | | 22.2 |
| Lankart 611 | | 25.3 | 21.6 | | 19.6 | | 21.7 |
| Tamcot 24 | | 21 .8 | 23.6 | | 16.8 | | 20.3 |
| Prolific Stormproof | | 2 8 .1 | | 2 8 .1 | 18.7 | | 25.3 |
| Coker 310 | | 24.5 | | 2 3.9 | 18.8 | | 22.8 |
| Westburn 70 | | | 21.5 | 24.7 | 18.8 | | 22.0 |
| Paymaster 111-A | | | 23.4 | 20.1 | 16.0 | | 20.2 |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 22. Pulled lint percent of varieties tested 5 years on dryland at Chickasha

| | Lint percent (pulled) | | | | | | | | |
|----------------|-----------------------|---------------|-------|------|------|------|---------|--|--|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | |
| Paymaster 202 | 25.1 | 25.0 | | 21.1 | 27.4 | 26.2 | 25.0 | | |
| Lankart 57 | 25.6 | 2 8 .3 | | 21.3 | 27.4 | 20.8 | 24.7 | | |
| Lankart LX 571 | 25.1 | 26.5 | | 21.4 | 26.8 | 23.4 | 24.6 | | |
| Lankart 3840 | 24.2 | 26.3 | | 22.2 | 27.0 | 22.8 | 24.5 | | |
| Lockett 4789-A | 25.2 | 25.9 | | 19.8 | 26.1 | 23.8 | 24.2 | | |
| Coker 201 | 25.7 | 28.3 | | 24.9 | 24.3 | 17.5 | 24.1 | | |
| Yearly Average | 25.2 | 26.7 | | 21.8 | 26.5 | 22.4 | 24.5 | | |

^{*}Test was not harvested due to severe drouth damage.

Table 23. Pulled lint percent of varieties tested 3 or 4 years on dryland at Chickasha

| | Lint percent (pulled) | | | | | | | | |
|---------------------|-----------------------|--------------|-------|--------------|--------------|--------------|---------|--|--|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | |
| Lockett 4789 | 23.6 | | | 21.2 | 27.1 | 26.7 | 25.2 | | |
| Lockett BXL | 24.4 | | | 20.3 | 26.0 | 23.5 | 24.1 | | |
| Prolific Stormproof | | 27.8 | | 23.2 | 28.5 | 23.6 | 25.9 | | |
| Coker 310 | | 25.9 | | 23.4 | 25.4 | 26.2 | 25.4 | | |
| Tamcot 788 | | 22.7 | | 22.2 | 26.2 | 22.6 | 23.6 | | |
| Stripper Cala-S | | 22.1 | | 20.3 | 24.4 | 26.2 | 23.4 | | |
| Stoneville 7A | 24.6 | 26.2 | | 24.6 | | | 25.1 | | |
| Paymaster 111 | 23.9 | 25.2 | | 22.2 | | | 23.7 | | |
| Lankburn | 22.7 | 23.3 | | | | 24.8 | 23.3 | | |
| Lankart 611 | | 26. 8 | | | 25.2 | 26.7 | 25.5 | | |
| Stripper Cala-N | | 23.0 | | | 25.9 | 23.9 | 23.6 | | |
| Deltapine 16 | | | | 24. 8 | 26.7 | 23. 8 | 26.0 | | |
| Westburn 70 | | | | 23.3 | 26.1 | 23.4 | 25.2 | | |
| Paymaster 101-B | | | | 23.5 | 25.7 | 23.6 | 25.2 | | |
| HyBee 200A | | | | 23.2 | 25.2 | 24.5 | 25.2 | | |
| Coker 5110 | | | | 23.1 | 25.1 | 24.3 | 25.1 | | |
| Quapaw | | | | 20.6 | 26.3 | 24.0 | 24.6 | | |
| Paymaster 111-A | | | | 20.8 | 24. 8 | 24.2 | 24.2 | | |
| Dunn 119 | | | | 19.8 | 25.0 | 22.7 | 23.4 | | |

^{*}Test was not harvested due to severe drouth damage.

Table 24. Picked lint percent of varieties tested 6 years under irrigation at Altus

| Variety | | Lint percent (picked) | | | | | | | | |
|----------------|------|-----------------------|---------------|------|---------------|--------------|---------|--|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | |
| Coker 201 | 34.6 | 34.8 | 39.3 | 35.5 | 37.2 | 37. 8 | 36.5 | | | |
| Deltapine 16 | 32.2 | 32.7 | 37.9 | 34.9 | 36.6 | 37.4 | 35.3 | | | |
| Stoneville 7A | 32.5 | 34.7 | 3 8 .1 | 30.9 | 38.0 | 35.1 | 34.9 | | | |
| Paymaster 202 | 32.6 | 31. 8 | 37.1 | 33.3 | 35.9 | 36.7 | 34.6 | | | |
| Stoneville 213 | 31.5 | 34.9 | 34.7 | 32.1 | 3 8 .0 | 36.4 | 34.6 | | | |
| Lankart 3840 | 32.0 | 30.9 | 36.9 | 33.0 | 35. 8 | 36.1 | 34.1 | | | |
| Lockett BXL | 31.7 | 32.3 | 36.5 | 31.9 | 35.5 | 35.3 | 33.9 | | | |
| Lockett 4789 | 32.1 | 31.5 | 35.7 | 30.5 | 35.2 | 34. 8 | 33.3 | | | |
| Lockett 4789-A | 32.5 | 31.1 | 35.5 | 30.9 | 35.4 | 34.0 | 33.2 | | | |
| Yearly average | 32.4 | 32.7 | 36.9 | 32.6 | 36.4 | 36.0 | 34.5 | | | |

Table 25. Picked lint percent of varieties tested 3 to 5 years under irrigation at Altus

| | | | Lint 1 | ercent (p | oicked) | Lint percent (picked) | | | | | | | | |
|-----------------|--------------|--------------|--------|---------------|---------------|-----------------------|--------------|--|--|--|--|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | | | | | |
| Deltapine 45A | 34.7 | 33.8 | | 31.4 | 37.5 | 37.7 | 35.5 | | | | | | | |
| Lankart LX 571 | 33. 8 | 33. 8 | | 31.9 | 35. 8 | 36.7 | 34.9 | | | | | | | |
| Tamcot 788 | | 35.8 | 35.9 | 33. 8 | 36.2 | 37.3 | 35.4 | | | | | | | |
| Stripper Cala-S | | 33.7 | 35.1 | 31.5 | 33.6 | 33. 8 | 33.1 | | | | | | | |
| Lankart 57 | 34. 8 | 32.8 | 39.3 | 32.3 | | | 35.7 | | | | | | | |
| Paymaster 111 | 32. 8 | 31.3 | 36.7 | 33.0 | | | 34.3 | | | | | | | |
| Coker 310 | | | 39.9 | 34.2 | 3 8 .0 | 37.5 | 36.4 | | | | | | | |
| Coker 5110 | | | 37.7 | 31.6 | 3 7.8 | 37.6 | 35.2 | | | | | | | |
| Westburn 70 | | | 40.4 | 31.3 | 35.1 | 35.4 | 34.6 | | | | | | | |
| Coker 4104 | 33.3 | 36. 8 | 36.0 | | | | 35.9 | | | | | | | |
| Paymaster 101-A | 34. 8 | 33.1 | 35.2 | | | | 34.9 | | | | | | | |
| Westburn | 32.6 | 30.8 | 36.4 | | | | 33. 8 | | | | | | | |
| Dunn 56C | 32.1 | 31.2 | 34.4 | | | | 33.1 | | | | | | | |
| Paymaster 18 | | 32.6 | 37.3 | 31.4 | | | 34.2 | | | | | | | |
| Acala SJ-1 | | 32.1 | 35.6 | 2 8 .2 | | | 32.4 | | | | | | | |
| Delcot 277 | | | 37.1 | | 3 8 .1 | 36.7 | 35.4 | | | | | | | |
| Lankart 611 | | | 36.7 | | 3 5.8 | 37.6 | 34. 8 | | | | | | | |
| Coker 312 | | | | 33.5 | 37.5 | 39.5 | 36.3 | | | | | | | |
| Paymaster 101-B | | | | 34.8 | 36.4 | 36.1 | 35.3 | | | | | | | |
| HyBee 100A | | | | 31.7 | 36.5 | 37.6 | 34. 8 | | | | | | | |
| Paymaster 111-A | | | | 32.6 | 35.9 | 34.7 | 33.9 | | | | | | | |
| Dunn 118 | | | | 31.0 | 34.9 | 34.3 | 32.9 | | | | | | | |

Table 26. Picked lint percent of varieties tested 6 years under irrigation at Chickasha

| Variety | Lint percent (picked) | | | | | | | | |
|----------------|-----------------------|--------------|------|---------------|---------------|-------------|---------|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | |
| Coker 201 | 34.7 | 38.0 | 38.4 | 40.5 | 36.5 | 40.2 | 38.1 | | |
| Stoneville 7A | 31.0 | 35. 8 | 36.7 | 37.2 | 38 .3 | 37.4 | 36.1 | | |
| Stoneville 213 | 30.5 | 35.1 | 37.0 | 3 8 .0 | 37.4 | 37.8 | 36.0 | | |
| Deltapine 16 | 31.3 | 36.0 | 36.1 | 36.8 | 3 8 .1 | 37.7 | 36.0 | | |
| Lockett BXL | 31.1 | 35.9 | 34.8 | 34.8 | 35.4 | 37.2 | 34.9 | | |
| Lankart 3840 | 32.0 | 35.6 | 35.2 | 34.3 | 34.5 | 36.3 | 34.7 | | |
| Lockett 4789-A | 33.0 | 35.0 | 34.8 | 34.0 | 35.4 | 35.9 | 34.7 | | |
| Paymaster 202 | 33.5 | 34.9 | 33.7 | 33.1 | 35. 8 | 36.1 | 34.5 | | |
| Lockett 4789 | 30.4 | 34.9 | 34.9 | 33.7 | 36.0 | 35.7 | 34.3 | | |
| Yearly average | 31.9 | 35.7 | 35.7 | 35.8 | 36.4 | 37.1 | 35.5 | | |

Table 27. Picked lint percent of varieties tested 3 to 5 years under irrigation at Chickasha

| | | Lint percent (picked) | | | | | | | | | |
|-----------------|--------------|-----------------------|------|---------------|---------------|---------------|--------------|--|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | | |
| Deltapine 45A | 31.2 | 36.1 | | 37.8 | 37.1 | 37.4 | 35.9 | | | | |
| Lankart LX 571 | 32.6 | 36.4 | | 34.5 | 36.9 | 36.5 | 35.4 | | | | |
| Tamcot 788 | | 36.0 | 34.5 | 34.6 | 36.3 | 37.6 | 35.1 | | | | |
| Stripper Cala-S | | 33.7 | 33.3 | 32.4 | 34.6 | 34.8 | 33.0 | | | | |
| Lankart 57 | 33.2 | 37.2 | 37.0 | 34.1 | | | 36.0 | | | | |
| Paymaster 111 | 32. 9 | 35.6 | 34.4 | 35.6 | | | 35.3 | | | | |
| Coker 310 | | | 37.6 | 37. 9 | 39.8 | 38.3 | 37.6 | | | | |
| Coker 5110 | | | 35.2 | 37.9 | 3 8. 0 | 3 8 .4 | 36.5 | | | | |
| Westburn 70 | | | 34.6 | 34.6 | 34.4 | 36.9 | 34.3 | | | | |
| Paymaster 101-A | 34. 8 | 35.7 | 34.4 | | | | 35.9 | | | | |
| Coker 4104 | 32. 8 | 36.3 | 35.6 | | | | 35.9 | | | | |
| Westburn | 33.6 | 35.4 | 34.6 | | | | 35.5 | | | | |
| Dunn 56C | 31.3 | 33.7 | 32.2 | | | | 33.4 | | | | |
| Acala SJ-1 | | 35.2 | 35.2 | 36.3 | | | 35.2 | | | | |
| Paymaster 18 | | 34.6 | 33.6 | 33.3 | | | 33.5 | | | | |
| Delcot 277 | | | 35.7 | | 37.5 | 38 .9 | 36.4 | | | | |
| Lankart 611 | | | 36.7 | | 36.6 | 37.7 | 36.0 | | | | |
| Coker 312 | | | | 3 8 .4 | 37.5 | 40.1 | 37.6 | | | | |
| HyBee 100A | | | | 37.5 | 3 8 .7 | 39.7 | 37.6 | | | | |
| Paymaster 101-B | | | | 36.1 | 37.1 | 37.2 | 35. 8 | | | | |
| Paymaster 111-A | | | | 33.2 | 34.3 | 35.6 | 33.3 | | | | |
| Dunn 118 | | | | 33.0 | 32.9 | 34.1 | 32.3 | | | | |

Table 28. Picked lint percent of varieties tested 5 years on dryland at Mangum

| Variety | Lint percent (picked) | | | | | | | | |
|----------------|-----------------------|--------------|---------------|------|------|-------|---------|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average | | |
| Lankart 57 | 33.9 | 35.5 | 39.7 | 32.2 | 34.6 | | 35.2 | | |
| Lankart LX 571 | 33.5 | 34. 8 | 3 8 .5 | 33.1 | 35.3 | | 35.0 | | |
| Lankart 3840 | 33.3 | 32. 8 | 37.6 | 34.9 | 34.4 | | 34.6 | | |
| Paymaster 202 | 33.9 | 33.3 | 36.2 | 34.3 | 33.4 | | 34.2 | | |
| Lockett 4789-A | 33.1 | 33.1 | 35.6 | 33.7 | 30.4 | | 33.2 | | |
| Yearly average | 33.5 | 33.9 | 37.5 | 33.6 | 33.6 | | 34.4 | | |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 29. Picked lint percent of varieties tested 3 or 4 years on dryland at Mangum

| | | | Lint p | percent (p | oicked) | | |
|---------------------|------|------|--------|---------------|--------------|-------|--------------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average |
| Coker 201 | 35.4 | 36.3 | | 35.9 | 35.5 | | 36.5 |
| Lockett BXL | 33.1 | | 36.0 | 35.4 | 34.0 | | 34.5 |
| Lockett 4789 | 32.4 | | 36.1 | 33.7 | 33.3 | | 33.7 |
| Tamcot 788 | | 35.0 | 36.0 | 34.7 | 35.9 | | 35.2 |
| Stripper Cala-S | | 33.9 | 35.7 | 33.6 | 32.2 | | 33.6 |
| Coker 4104 | 36.5 | 35.1 | 37.6 | | | | 35. 8 |
| Paymaster 101-A | 34.1 | 34.1 | 37.6 | | | • | 34.7 |
| Dunn 56C | 33.7 | 32.7 | 37.6 | | | | 34.1 |
| Westburn | 33.5 | 33.2 | 36.6 | | | | 33.9 |
| Stoneville 7A | 33.9 | 34.5 | | 34.5 | | | 35.0 |
| Paymaster 111 | 31.1 | 33.4 | | 26.6 | | | 31.1 |
| Lankart 611 | | 35.6 | 38.1 | | 34.9 | | 35.6 |
| Stripper Cala-N | | 36.4 | 37.2 | | 33.8 | | 35.2 |
| Tamcot 24 | | 32.0 | 36.0 | | 32. 8 | | 33.0 |
| Prolific Stormproof | | 38.3 | | 3 8 .7 | 35.3 | | 38.1 |
| Coker 310 | | 34.9 | | 38.5 | 37.2 | | 37.6 |
| Paymaster 111-A | | | 37.1 | 33.2 | 36.6 | | 35.1 |
| Westburn 70 | | | 36.1 | 35.8 | 34.2 | | 34.9 |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 30. Picked lint percent of varieties tested 5 years on dryland at Chickasha

| | Lint percent (picked) | | | | | | | | |
|----------------|-----------------------|------|-------|--------------|------|------|---------|--|--|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | |
| Coker 201 | 36.9 | 38.5 | | 37.6 | 40.0 | 32.2 | 37.0 | | |
| Lankart 57 | 35.5 | 39.2 | | 33.7 | 40.4 | 34.5 | 36.7 | | |
| Lankart LX 571 | 34.2 | 36.7 | | 32.6 | 37.4 | 37.4 | 35.7 | | |
| Paymaster 202 | 34.6 | 35.2 | | 32. 8 | 38.0 | 37.1 | 35.5 | | |
| Lockett 4789-A | 34.8 | 36.6 | | 32.1 | 37.5 | 35.9 | 35.4 | | |
| Lankart 3840 | 33. 9 | 35.3 | | 33.1 | 37.5 | 35.3 | 35.0 | | |
| Yearly average | 35.0 | 36.9 | | 33.7 | 38.5 | 35.4 | 35.9 | | |

^{*}Test was not harvested due to severe drouth damage.

Table 31. Picked lint percent of varieties tested 3 or 4 years on dryland at Chickasha

| | Lint percent (picked) | | | | | | | | |
|---------------------|-----------------------|------|-------|------|---------------|--------------|---------------|--|--|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | |
| Lockett 4789 | 34.0 | | | 32.4 | 37.5 | 35.3 | 35.1 | | |
| Lockett BXL | 34.2 | | | 31.8 | 37.5 | 35.1 | 34.9 | | |
| Prolific Stormproof | | 39.4 | | 36.1 | 39.3 | 37.5 | 37.9 | | |
| Coker 310 | | 36.3 | | 36.1 | 39.7 | 39.1 | 37.6 | | |
| Tamcot 788 | | 34.2 | | 33.7 | 39.2 | 34.2 | 35.1 | | |
| Stripper Cala-S | | 33.9 | | 32.1 | 34.2 | 35.3 | 33.7 | | |
| Stoneville 7A | 34. 8 | 35.5 | | 36.4 | | | 36.3 | | |
| Paymaster 111 | 434.1 | 36.0 | | 33.5 | | | 35.2 | | |
| Lankburn | 32.2 | 33.7 | | | | 36.9 | 34.4 | | |
| Lankart 611 | | 36.3 | | | 3 8 .2 | 37.1 | 36.2 | | |
| Stripper Cala-N | | 34.5 | | | 36.3 | 35.4 | 34.4 | | |
| Deltapine 16 | | | | 37.1 | 39.4 | 39.4 | 3 8 .7 | | |
| HyBee 200A | | | | 36.0 | 39.6 | 37.9 | 37.9 | | |
| Coker 5110 | | | | 36.5 | 39.5 | 37.2 | 37. 8 | | |
| Paymaster 101-B | | | | 35.4 | 3 8 .0 | 35.8 | 36.4 | | |
| Dunn 119 | | | | 33.6 | 38.4 | 35.5 | 35.9 | | |
| Westburn 70 | | | | 34.6 | 36.5 | 33. 8 | 35.0 | | |
| Paymaster 111-A | | | | 33.1 | 35.7 | 36.0 | 35.0 | | |
| Quapaw | | | | 31.2 | 36.3 | 36.3 | 34.6 | | |

^{*}Test was not harvested due to severe drouth damage.

Table 32. Fiber length of varieties tested 6 years under irrigation at Altus

| | 2.5% span length, inches | | | | | | | | |
|----------------|--------------------------|-------|-------|-------|-------|-------|---------|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | |
| Deltapine 16 | 1.146 | 1.163 | 1.053 | 1.015 | 1.105 | 1.135 | 1.103 | | |
| Stoneville 7A | 1.093 | 1.144 | 1.104 | 1.033 | 1.062 | 1.148 | 1.097 | | |
| Lockett BXL | 1.102 | 1.132 | 1.085 | .993 | 1.088 | 1.126 | 1.088 | | |
| Stoneville 213 | 1.111 | 1.128 | 1.059 | 1.056 | 1.053 | 1.106 | 1.086 | | |
| Lockett 4789-A | 1.113 | 1.117 | 1.063 | .978 | 1.078 | 1.162 | 1.085 | | |
| Lankart 3840 | 1.098 | 1.167 | 1.043 | .965 | 1.073 | 1.104 | 1.075 | | |
| Coker 201 | 1.090 | 1.129 | 1.051 | .935 | 1.071 | 1.118 | 1.066 | | |
| Lockett 4789 | 1.077 | 1.089 | 1.022 | .984 | 1.051 | 1.091 | 1.052 | | |
| Paymaster 202 | 1.007 | 1.021 | .937 | .924 | .943 | .987 | .970 | | |
| Yearly average | 1.093 | 1.121 | 1.046 | .987 | 1.058 | 1.109 | 1.069 | | |

Table 33. Fiber length of varieties tested 3 to 5 years under irrigation at Altus

| | | | 2.5% s | pan lengtl | h, inches | | |
|-----------------|---------------|-------|--------|------------|-----------|-------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average |
| Deltapine 45A | 1.115 | 1.120 | | 1.044 | 1.060 | 1.079 | 1.079 |
| Lankart LX 571 | 1.063 | 1.075 | | 1.007 | 1.059 | 1.092 | 1.055 |
| Tamcot 788 | | 1.139 | 1.084 | 1.011 | 1.107 | 1.106 | 1.094 |
| Stripper Cala-S | | 1.085 | 1.031 | .969 | 1.053 | 1.086 | 1.050 |
| Paymaster 111 | 1.067 | 1.078 | .987 | .943 | | | 1.026 |
| Lankart 57 | 1.032 | 1.030 | .976 | .910 | | | .994 |
| Coker 310 | | | 1.121 | 1.081 | 1.176 | 1.183 | 1.159 |
| Coker 5110 | | | 1.095 | 1.065 | 1.147 | 1.203 | 1.147 |
| Westburn 70 | | | 1.022 | .997 | 1.042 | 1.103 | 1.060 |
| Coker 4104 | 1.182 | 1.187 | 1.090 | | | | 1.135 |
| Dunn 56C | 1.125 | 1.149 | 1.061 | | | | 1.094 |
| Westburn | 1.064 | 1.091 | 1.009 | | | | 1.037 |
| Paymaster 101-A | .9 8 3 | 1.015 | 1.022 | | | | .989 |
| Acala SJ-1 | | 1.181 | 1.060 | 1.017 | | | 1.104 |
| Paymaster 18 | | .960 | .882 | .921 | | | .939 |
| Delcot 277 | | | 1.122 | | 1,126 | 1.196 | 1.146 |
| Lankart 611 | | | .987 | | 1.017 | 1.063 | 1.020 |
| Coker 312 | | | | 1.077 | 1.143 | 1.214 | 1.162 |
| Dunn 118 | | | | 1.069 | 1.117 | 1.146 | 1.128 |
| HyBee 100A | | | | 1.047 | 1.094 | 1.121 | 1.105 |
| Paymaster 111-A | | | | .994 | 1.067 | 1.086 | 1.067 |
| Paymaster 101-B | | | | .907 | .939 | 1.023 | .974 |

Table 34. Fiber length of varieties tested 6 years under irrigation at Chickasha

| | | 2.5% span length, inches | | | | | | | | |
|----------------|-------|--------------------------|-------|-------|-------|-------|---------|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | |
| Deltapine 16 | 1.194 | 1.137 | 1.089 | 1.082 | 1.183 | 1.179 | 1.144 | | | |
| Coker 201 | 1.191 | 1.099 | 1.099 | 1.095 | 1.140 | 1.134 | 1.126 | | | |
| Stoneville 7A | 1.161 | 1.139 | 1.143 | .974 | 1.168 | 1.171 | 1.126 | | | |
| Lankart 3840 | 1.143 | 1.111 | 1.079 | 1.051 | 1.134 | 1.130 | 1.108 | | | |
| Stoneville 213 | 1.131 | 1.106 | 1.123 | 1.030 | 1.069 | 1.123 | 1.097 | | | |
| Lockett 4789-A | 1.151 | 1.084 | 1.087 | 1.021 | 1.102 | 1.111 | 1.093 | | | |
| Lockett BXL | 1.140 | 1.075 | 1.074 | 1.029 | 1.134 | 1.099 | 1.092 | | | |
| Lockett 4789 | 1.135 | 1.078 | 1.058 | 1.027 | 1.120 | 1.094 | 1.085 | | | |
| Paymaster 202 | 1.047 | .964 | .981 | .913 | 1.003 | 1.015 | .987 | | | |
| Yearly average | 1.144 | 1.088 | 1.081 | 1.025 | 1.117 | 1.117 | 1.095 | | | |

Table 35. Fiber length of varieties tested 3 to 5 years under irrigation at Chickasha

| | | | 2.5% sp | oan lengtl | ı, inches | | |
|-----------------|-------|-------|---------|------------|-----------|--------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average |
| Deltapine 45A | 1.162 | 1.109 | | 1.048 | 1.105 | 1.117 | 1.105 |
| Lankart LX 571 | 1.123 | 1.076 | | 1.068 | 1.090 | 1.072 | 1.083 |
| Stripper Cala-S | | 1.066 | 1.040 | .974 | 1.073 | 1.090 | 1.058 |
| Tamcot 788 | | 1.114 | 1.106 | 1.061 | 1.116 | 1.111 | 1.111 |
| Paymaster 111 | 1.105 | 1.077 | 1.010 | 1.024 | | | 1.065 |
| Lankart 57 | 1.075 | 1.006 | .980 | 1.013 | | | 1.029 |
| Coker 310 | | | 1.168 | 1.109 | 1.212 | 1.216 | 1.186 |
| Coker 5110 | | | 1.167 | 1.096 | 1.182 | 1.211. | 1.174 |
| Westburn 70 | | | 1.036 | 1.016 | 1.100 | 1.088 | 1.070 |
| Coker 4104 | 1.237 | 1.164 | 1.159 | | | | 1.177 |
| Dunn 56C | 1.167 | 1.104 | 1.091 | | | | 1.111 |
| Westburn | 1.129 | 1.055 | 1.022 | | | | 1.059 |
| Paymaster 101-A | 1.053 | .970 | 1.068 | | | | 1.021 |
| Acala SJ-1 | | 1.163 | 1.121 | 1.062 | | | 1.146 |
| Paymaster 18 | | .926 | .888 | .942 | | | .949 |
| Delcot 277 | | | 1.184 | | 1.177 | 1.177 | 1.169 |
| Lankart 611 | | | .982 | | 1.052 | 1.020 | 1.008 |
| Coker 312 | | | | 1.112 | 1.152 | 1.205 | 1.165 |
| HyBee 100A | | | | 1.110 | 1.153 | 1.176 | 1.155 |
| Dunn 118 | | | | 1.021 | 1.157 | 1.173 | 1.126 |
| Paymaster 111-A | | | | .999 | 1.079 | 1.110 | 1.071 |
| Paymaster 101-B | | | | .933 | .988 | .991 | .979 |

Table 36. Fiber length of varieties tested 5 years on dryland at Mangum

| Variety | 2.5% span length, inches | | | | | | | | |
|----------------|--------------------------|-------|-------|-------|-------|-------|---------|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average | | |
| Lankart 3840 | 1.110 | 1.107 | 1.015 | 1.066 | 1.144 | | 1.088 | | |
| Lockett 4789-A | 1.094 | 1.101 | 1.011 | 1.034 | 1.072 | | 1.062 | | |
| Lankart LX 571 | 1.078 | 1.041 | .987 | .956 | 1.128 | | 1.038 | | |
| Lankart 57 | 1.011 | .983 | .942 | .977 | 1.107 | | 1.004 | | |
| Paymaster 202 | 1.012 | 1.010 | .903 | .902 | 1.029 | | .971 | | |
| Yearly average | 1.061 | 1.048 | .972 | .987 | 1.096 | | 1.033 | | |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 37. Fiber length of varieties tested 3 or 4 years on dryland at Mangum

| | | | 2.5% sp | oan lengtl | n, inches | | |
|---------------------|-------|-------|---------|------------|-----------|-------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average |
| Coker 201 | 1.090 | 1.093 | | 1.019 | 1.129 | | 1.068 |
| Lockett BXL | 1.070 | | 1.014 | .993 | 1.121 | | 1.054 |
| Lockett 4789 | 1.038 | | .967 | 1.030 | 1.115 | | 1.042 |
| Tamcot 788 | | 1.096 | 1.018 | 1.069 | 1.141 | | 1.088 |
| Stripper Cala-S | | 1.007 | .996 | .998 | 1.087 | | 1.029 |
| Coker 4104 | 1.118 | 1.160 | 1.006 | | | | 1.101 |
| Dunn 56C | 1.115 | 1.116 | 1.014 | | | | 1.088 |
| Westburn | 1.088 | 1.097 | .916 | | | | 1.040 |
| Paymaster 101-A | .998 | .998 | .095 | | | | .973 |
| Stoneville 7A | 1.089 | 1.123 | | 1.021 | | | 1.079 |
| Paymaster 111 | 1.008 | 1.088 | | 1.026 | | | 1.042 |
| Tamcot 24 | | 1.183 | 1.046 | | 1.167 | | 1.126 |
| Stripper Cala-N | | 1.048 | .960 | | 1.040 | | 1.010 |
| Lankart 611 | | .962 | .910 | | 1.009 | | .955 |
| Coker 310 | | 1.167 | | 1.012 | 1.177 | | 1.108 |
| Prolific Stormproof | | .983 | | .887 | 1.061 | | .966 |
| Westburn 70 | | | 1.030 | .964 | 1.101 | | 1.046 |
| Paymaster 111-A | | | 1.009 | .973 | 1.081 | | 1.036 |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 38. Fiber length of varieties tested 5 years on dryland at Chickasha

| Variety | 2.5% span length, inches | | | | | | | | | |
|----------------|--------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|---------|--|--|--|
| | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | | |
| Coker 201 | 1.117 | 1.024 | Accessed to the control of the contr | .964 | 1.032 | 1.155 | 1.058 | | | |
| Lankart 3840 | 1.124 | 1.041 | | .985 | 1.022 | 1.038 | 1.042 | | | |
| Lockett 4789-A | 1.101 | 1.006 | | .928 | 1.007 | 1.150 | 1.038 | | | |
| Lankart LX 571 | 1.092 | 1.033 | | .958 | .973 | 1.131 | 1.037 | | | |
| Lankart 57 | 1.025 | .940 | | .917 | .898 | 1.084 | .973 | | | |
| Paymaster 202 | 1.015 | .935 | | .833 | .884 | 1.026 | .939 | | | |
| Yearly average | 1.079 | .997 | | .931 | .969 | 1.097 | 1.015 | | | |

^{*}Test was not harvested due to severe drouth damage.

Table 39. Fiber length of varieties tested 3 or 4 years on dryland at Chickasha

| | 2.5% span length, inches | | | | | | | | | |
|---------------------|--------------------------|-------|-------|-----------------------|-------|-------|---------|--|--|--|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | | |
| Lockett BXL | 1.098 | | | .894 | 1.000 | 1.164 | 1.035 | | | |
| Lockett 4789 | 1.084 | | | .889 | 1.004 | 1.084 | 1.011 | | | |
| Coker 310 | | 1.118 | | 1.008 | 1.094 | 1.181 | 1.117 | | | |
| Tamcot 788 | | 1.059 | | .899 | 1.040 | 1.093 | 1.039 | | | |
| Stripper Cala-S | | 1.005 | | . 87 2 | .972 | 1.098 | 1.003 | | | |
| Prolific Stormproof | | .911 | | .851 | .905 | 1.034 | .942 | | | |
| Stoneville 7A | 1.148 | 1.072 | | .898 | | | 1.052 | | | |
| Paymaster 111 | 1.072 | .971 | | .870 | | | .984 | | | |
| Lankburn | 1.142 | 1.007 | | | | 1.156 | 1.059 | | | |
| Stripper Cala-N | | 1.014 | | | .920 | 1.060 | .992 | | | |
| Lankart 611 | | .953 | | | .983 | 1.037 | .985 | | | |
| Dunn 119 | | | | .987 | 1.092 | 1.154 | 1.094 | | | |
| Coker 5110 | | | | .947 | 1.058 | 1.153 | 1.069 | | | |
| Deltapine 16 | | | | .966 | 1.041 | 1.128 | 1.061 | | | |
| HyBee 200A | | | | .936 | 1.036 | 1.128 | 1.049 | | | |
| Paymaster 111-A | | | | .945 | .995 | 1.042 | 1.010 | | | |
| Quapaw | | | | .919 | .988 | 1.073 | 1.009 | | | |
| Westburn 70 | | | | .849 | .982 | 1.123 | 1.001 | | | |
| Paymaster 101-B | | | | 8 0 8 . | .946 | 1.019 | .940 | | | |

^{*}Test was not harvested due to severe drouth damage.

Table 40. Fiber length uniformity of varieties tested 6 years under irrigation at Altus

| | Uniformity index, % | | | | | | | | | |
|----------------|---------------------|------|------|------|-------------|--------------|--------------|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | |
| Paymaster 202 | 48.3 | 49.7 | 48.9 | 46.7 | 47.5 | 49.9 | 48.5 | | | |
| Lankart 3840 | 44.2 | 46.2 | 47.2 | 43.8 | 44.5 | 49.0 | 45. 8 | | | |
| Lockett 4789 | 44.3 | 45.9 | 46.1 | 44.4 | 45.4 | 48.6 | 45.8 | | | |
| Lockett BXL | 44.7 | 45.4 | 45.8 | 42.4 | 47.5 | 48.4 | 45.7 | | | |
| Coker 201 | 44.3 | 46.2 | 45.6 | 43.6 | 45.3 | 48.3 | 45.6 | | | |
| Lockett 4789-A | 44.2 | 45.3 | 46.0 | 41.8 | 45.8 | 49.5 | 45.4 | | | |
| Deltapine 16 | 43.1 | 45.8 | 44.6 | 43.6 | 44.6 | 48.2 | 45.0 | | | |
| Stoneville 213 | 44.8 | 45.8 | 43.8 | 44.3 | 43.5 | 48 .0 | 45.0 | | | |
| Stoneville 7A | 41.6 | 44.2 | 43.0 | 43.7 | 43.5 | 45.5 | 43.6 | | | |
| Yearly average | 44.4 | 46.1 | 45.7 | 43.8 | 45.3 | 48.4 | 45.6 | | | |

Table 41. Fiber length uniformity of varieties tested 3 to 5 years under irrigation at Altus

| | Uniformity index, % | | | | | | | | | |
|-----------------|---------------------|------|------|------|--------------|------|---------|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | |
| Lankart LX 571 | 44.8 | 46.5 | | 43.1 | 45.1 | 48.5 | 45.5 | | | |
| Deltapine 45A | 44.5 | 46.6 | | 40.4 | 47.5 | 46.7 | 45.1 | | | |
| Tamcot 788 | | 47.2 | 45.7 | 45.0 | 44.4 | 49.1 | 46.0 | | | |
| Stripper Cala-S | | 45.9 | 43.6 | 45.4 | 43. 8 | 46.9 | 44.9 | | | |
| Paymaster 111 | 45.2 | 47.6 | 46.6 | 44.7 | | | 46.6 | | | |
| Lankart 57 | 45.4 | 47.4 | 46.6 | 43.4 | | | 46.3 | | | |
| Coker 5110 | | | 46.8 | 43.0 | 44.7 | 47.5 | 45.3 | | | |
| Coker 310 | | | 45.9 | 43.1 | 45.2 | 46.3 | 44.9 | | | |
| Westburn 70 | | | 45.0 | 44.8 | 43.0 | 45.5 | 44.4 | | | |
| Paymaster 101-A | 46.6 | 50.0 | 45.9 | | | | 47.7 | | | |
| Dunn 56C | 46.0 | 47.6 | 44.9 | | | | 46.4 | | | |
| Westburn | 43.5 | 46.7 | 45.7 | | | | 45.5 | | | |
| Coker 4104 | 43.1 | 45.2 | 41.5 | | | | 43.5 | | | |
| Paymaster 18 | | 49.0 | 49.1 | 47.8 | | | 49.0 | | | |
| Acala SJ-1 | | 47.9 | 47.7 | 44.1 | | | 47.0 | | | |
| Lankart 611 | | | 46.3 | | 47.5 | 47.8 | 46.3 | | | |
| Delcot 277 | | | 45.9 | | 44.8 | 49.4 | 45.8 | | | |
| Paymaster 101-B | | | | 46.7 | 48.7 | 50.0 | 48.2 | | | |
| Paymaster 111-A | | | | 43.9 | 46.7 | 48.5 | 46.1 | | | |
| Dunn 118 | | | | 45.3 | 44.6 | 48.5 | 45.9 | | | |
| HyBee 100A | | | | 41.4 | 44.2 | 46.7 | 43.9 | | | |
| Coker 312 | | | | 40.7 | 42.5 | 45.1 | 42.5 | | | |

Table 42. Fiber length uniformity of varieties tested 6 years under irrigation at Chickasha

| | Uniformity index, % | | | | | | | | |
|----------------|---------------------|------|------|------|------|--------------|--------------|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | |
| Paymaster 202 | 51.2 | 49.7 | 48.8 | 45.1 | 48.6 | 50.2 | 48.9 | | |
| Coker 201 | 49.5 | 48.3 | 46.6 | 47.7 | 47.7 | 48.8 | 48.1 | | |
| Lockett 4789-A | 47.9 | 48.7 | 49.0 | 43.1 | 46.6 | 49.2 | 47.4 | | |
| Lockett 4789 | 48.6 | 48.7 | 47.1 | 45.1 | 47.4 | 47.3 | 47.4 | | |
| Lankart 3840 | 48.7 | 48.4 | 47.7 | 42.9 | 46.8 | 49.4 | 47.3 | | |
| Stoneville 213 | 46.5 | 47.7 | 48.4 | 46.6 | 45.6 | 48. 3 | 47.2 | | |
| Deltapine 16 | 46.8 | 46.7 | 45.1 | 45.4 | 48.1 | 48.8 | 46. 8 | | |
| Lockett BXL | 47.3 | 47.9 | 47.4 | 44.2 | 45.9 | 47.7 | 46.7 | | |
| Stoneville 7A | 45.8 | 46.7 | 46.2 | 42.3 | 45.8 | 46.8 | 45.6 | | |
| Yearly average | 48.0 | 48.1 | 47.4 | 44.7 | 46.9 | 48.5 | 47.3 | | |

Table 43. Fiber length uniformity of varieties tested 3 to 5 years under irrigation at Chickasha

| | | | Unif | ormity inc | lex, % | | |
|-----------------|------|------|------|------------|--------|------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average |
| Lankart LX 571 | 49.4 | 48.1 | | 46.3 | 47.3 | 47.1 | 47.7 |
| Deltapine 45A | 47.3 | 48.4 | | 47.1 | 47.2 | 47.8 | 47.6 |
| Tamcot 788 | | 46.8 | 46.4 | 44.8 | 45.3 | 47.0 | 46.2 |
| Stripper Cala-S | | 46.4 | 45.9 | 42.8 | 45.7 | 45.5 | 45.4 |
| Paymaster 111 | 50.0 | 49.4 | 47.0 | 47.5 | | | 48.7 |
| Lankart 57 | 49.3 | 48.7 | 48.2 | 43.6 | | | 47.7 |
| Coker 5110 | | | 45.7 | 42.3 | 46.2 | 49.5 | 46.4 |
| Coker 310 | | | 47.3 | 41.0 | 47.1 | 46.0 | 45.8 |
| Westburn 70 | | | 45.5 | 42.6 | 43.3 | 46.1 | 44.8 |
| Paymaster 101-A | 50.7 | 50.5 | 46.8 | | | | 48.8 |
| Dunn 56C | 49.8 | 48.2 | 49.0 | | | | 48.5 |
| Coker 4104 | 47.7 | 46.7 | 47.1 | | | | 46.6 |
| Westburn | 47.6 | 47.2 | 46.3 | | | | 46.5 |
| Paymaster 18 | | 50.3 | 48.7 | 46.3 | | | 49.0 |
| Acala SJ-1 | | 49.7 | 48.3 | 46.7 | | | 48.8 |
| Lankart 611 | | | 49.4 | | 47.3 | 47.3 | 47.7 |
| Delcot 277 | | | 44.6 | | 45.7 | 49.5 | 46.3 |
| Paymaster 101-B | | | | 46.8 | 49.0 | 50.4 | 49.3 |
| HyBee 100A | | | | 44.6 | 47.9 | 48.9 | 47.7 |
| Dunn 118 | | | | 41.2 | 47.7 | 49.5 | 46.7 |
| Paymaster 111-A | | | | 43.5 | 46.9 | 47.7 | 46.6 |
| Coker 312 | | | | 42.8 | 46.1 | 47.5 | 46.1 |

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

| Variety | Uniformity index, % | | | | | | | | |
|----------------|---------------------|------|------|------|------|-------|---------|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average | | |
| Paymaster 202 | 49.3 | 47.9 | 49.3 | 47.8 | 47.2 | | 48.3 | | |
| Lankart 3840 | 45.8 | 46.7 | 47.3 | 45.8 | 48.5 | | 46.8 | | |
| Lankart 57 | 45.2 | 46.4 | 46.5 | 45.4 | 49.4 | | 46.6 | | |
| Lankart LX 571 | 46.6 | 46.9 | 45.7 | 45.3 | 48.4 | | 46.6 | | |
| Lockett 4789-A | 44.6 | 44.5 | 44.3 | 48.1 | 43.2 | | 44.9 | | |
| Yearly average | 46.3 | 46.5 | 46.6 | 46.5 | 47.3 | | 46.6 | | |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 45. Fiber length uniformity of varieties tested 3 or 4 years on dryland at Mangum

| | | | Unif | ormity inc | lex, % | | |
|---------------------|------|------|------|------------|--------------|-------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average |
| Coker 201 | 44.2 | 46.1 | | 46.6 | 50.0 | | 46.7 |
| Lockett 4789 | 43.5 | | 47.4 | 47.1 | 47.7 | | 46.4 |
| Lockett BXL | 44.1 | | 46.6 | 44.4 | 47.1 | | 45.5 |
| Tamcot 788 | | 46.6 | 46.4 | 46.3 | 47.0 | | 46.5 |
| Stripper Cala-S | | 46.2 | 47.1 | 44.9 | 45.5 | | 45.8 |
| Paymaster 101-A | 47.0 | 48.6 | 49.5 | | | | 48.5 |
| Dunn 56C | 45.8 | 45.0 | 48.3 | | | | 46.5 |
| Westburn | 45.6 | 45.5 | 44.7 | | | | 45.4 |
| Coker 4104 | 43.9 | 47.3 | 43.4 | | | | 45.0 |
| Paymaster 111 | 44.8 | 48.7 | | 47.6 | | | 47.2 |
| Stoneville 7A | 42.3 | 43.8 | | 45.1 | | | 43.9 |
| Stripper Cala-N | | 48.5 | 48.0 | | 49.3 | | 48.4 |
| Lankart 611 | | 46.8 | 48.6 | | 45.6 | | 46.8 |
| Tamcot 24 | | 45.3 | 46.7 | | 48.1 | | 46.5 |
| Prolific Stormproof | | 48.1 | | 47.8 | 48 .0 | | 47.8 |
| Coker 310 | | 45.6 | | 45.0 | 43.0 | | 44.4 |
| Paymaster 111-A | | | 47.2 | 45.4 | 46.7 | | 46.2 |
| Westburn 70 | | | 46.0 | 45.3 | 46. 8 | | 45.8 |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 46. Fiber length uniformity of varieties tested 5 years on dryland at Chickasha

| Variety | Uniformity index, % | | | | | | | | |
|----------------|---------------------|------|-------|-------------|------|------|---------|--|--|
| | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | |
| Paymaster 202 | 52.9 | 49.0 | | 43.5 | 47.4 | 47.6 | 48.1 | | |
| Lankart 57 | 49.8 | 48.4 | | 42.9 | 48.4 | 47.4 | 47.4 | | |
| Lankart 3840 | 50.8 | 47.6 | | 46.5 | 45.4 | 44.2 | 46.9 | | |
| Lockett 4789-A | 49.6 | 48.1 | | 46.2 | 44.9 | 44.6 | 46.7 | | |
| Coker 201 | 49.3 | 47.0 | | 46.4 | 46.2 | 43.5 | 46.5 | | |
| Lankart LX 571 | 51.1 | 48.7 | | 43.8 | 45.1 | 42.4 | 46.2 | | |
| Yearly average | 50.6 | 48.1 | | 44.9 | 46.2 | 45.0 | 47.0 | | |

^{*}Test was not harvested due to severe drouth damage.

Table 47. Fiber length uniformity of varieties tested 3 or 4 years on dryland at Chickasha

| | Uniformity index, % | | | | | | | | | |
|---------------------|---------------------|------|-------|------|-------------|------|--------------|--|--|--|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | | |
| Lockett 4789 | 50.8 | | | 44.4 | 46.8 | 45.3 | 47.2 | | | |
| Lockett BXL | 48.8 | | | 41.4 | 45.9 | 44.8 | 45.6 | | | |
| Prolific Stormproof | | 47.4 | | 45.9 | 45.9 | 44.7 | 46.9 | | | |
| Stripper Cala-S | | 46.8 | | 44.3 | 42.9 | 44.6 | 45.6 | | | |
| Tamcot 788 | | 46.6 | | 42.2 | 43.1 | 44.6 | 45.1 | | | |
| Coker 310 | | 45.6 | | 41.6 | 46.2 | 41.0 | 44.6 | | | |
| Paymaster 111 | 51. 8 | 47.6 | | 44.3 | | | 47.0 | | | |
| Stoneville 7A | 47.0 | 46.3 | | 45.0 | | | 45.2 | | | |
| Lankburn | 47.5 | 46.0 | | | | 44.9 | 45.2 | | | |
| Lankart 611 | | 48.1 | | | 47.0 | 46.6 | 47.8 | | | |
| Stripper Cala-N | | 45.8 | | | 44.2 | 45.9 | 45.9 | | | |
| Paymaster 101-B | | | | 46.4 | 44.5 | 48.9 | 48 .2 | | | |
| Dunn 119 | | | | 43.9 | 48.6 | 45.9 | 47.8 | | | |
| Paymaster 111-A | | | | 44.2 | 46.2 | 45.9 | 47.1 | | | |
| Deltapine 16 | | | | 44.8 | 46.6 | 44.3 | 46.9 | | | |
| Quapaw | | | | 41.8 | 47.2 | 45.6 | 46.5 | | | |
| HyBee 200A | | | | 43.1 | 46.2 | 43.7 | 46.0 | | | |
| Coker 5110 | | | | 44.7 | 44.3 | 43.2 | 45.7 | | | |
| Westburn 70 | | | | 43.5 | 44.9 | 42.3 | 45.2 | | | |

^{*}Test was not harvested due to severe drouth damage.

Table 48. Fiber coarseness of varieties tested 6 years under irrigation at Altus

| Variety | Micronaire, micrograms/inch | | | | | | | | |
|----------------|-----------------------------|------|------|-------------|------|------|-------------|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | |
| Paymaster 202 | 3.7 | 3.7 | 4.3 | 3.4 | 4.4 | 4.9 | 4.1 | | |
| Lankart 3840 | 3.5 | 3.7 | 4.2 | 2.7 | 3.6 | 4.8 | 3. 8 | | |
| Deltapine 16 | 3.4 | 3.4 | 4.3 | 2.9 | 3.9 | 4.6 | 3. 8 | | |
| Stoneville 213 | 3.6 | 3.5 | 4.2 | 2.7 | 4.0 | 4.5 | 3. 8 | | |
| Coker 201 | 3.3 | 3.3 | 4.4 | 3.0 | 4.0 | 4.6 | 3. 8 | | |
| Lockett BXL | 3.2 | 3.3 | 4.6 | 2. 8 | 3.8 | 4.7 | 3.7 | | |
| Lockett 4789 | 3.1 | 3.2 | 3.7 | 2.6 | 3.7 | 4.5 | 3.5 | | |
| Stoneville 7A | 2.9 | 3.2 | 3.6 | 2.7 | 3.9 | 4.2 | 3.4 | | |
| Lockett 4789-A | 2.9 | 3.1 | 3.7 | 2.7 | 3.7 | 3.9 | 3.3 | | |
| Yearly average | 3.3 | 3.4 | 4.1 | 2.8 | 3.9 | 4.5 | 3.7 | | |

Table 49. Fiber coarseness of varieties tested 3 to 5 years under irrigation at Altus

| | | | Micronair | e, microg | rams/incl | l | |
|-----------------|------|------|-----------|-----------|-----------|------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average |
| Lankart LX 571 | 3.4 | 4.2 | | 3.0 | 4.2 | 4.8 | 4.0 |
| Deltapine 45A | 3.4 | 3.5 | | 2.9 | 3.7 | 4.6 | 3.7 |
| Tamcot 788 | | 3.4 | 3.9 | 3.0 | 3.4 | 4.3 | 3.6 |
| Stripper Cala-S | | 3.1 | 4.1 | 3.1 | 3.7 | 3.8 | 3.5 |
| Lankart 57 | 3.4 | 4.1 | 4.5 | 2.7 | | | 4.0 |
| Paymaster 111 | 3.3 | 3.3 | 4.5 | 2.9 | | | 3.8 |
| Coker 310 | | | 4.3 | 2.9 | 4.3 | 4.4 | 3.9 |
| Coker 5110 | | | 3.9 | 2.8 | 3.7 | 4.0 | 3.5 |
| Westburn 70 | | | 3.6 | 2.6 | 3.5 | 3.2 | 3.1 |
| Paymaster 101-A | 3.3 | 3.8 | 3.9 | | | | 3.8 |
| Dunn 56C | 3.2 | 3.2 | 4.2 | | | | 3.6 |
| Coker 4104 | 3.0 | 3.1 | 3.8 | | | | 3.4 |
| Westburn | 2.9 | 3.1 | 3.5 | | | | 3.3 |
| Paymaster 18 | | 3.8 | 5.8 | 4.1 | | | 4.8 |
| Acala SJ-1 | | 3.3 | 4.2 | 2.5 | | | 3.6 |
| Lankart 611 | | | 4.2 | | 3.9 | 3.9 | 3.5 |
| Delcot 277 | | | 3.9 | | 3.8 | 3.9 | 3.4 |
| Paymaster 101-B | | | | 3.1 | 4.3 | 4.4 | 3.9 |
| Dunn 118 | | | | 3.1 | 3.8 | 4.3 | 3.7 |
| Coker 312 | | | | 3.0 | 3.8 | 4.1 | 3.6 |
| Paymaster 111-A | | | | 2.9 | 3.9 | 4.2 | 3.6 |
| HyBee 100A | | | | 2.9 | 3.6 | 4.1 | 3.5 |

Table 50. Fiber coarseness of varieties tested 6 years under irrigation at Chickasha

| | Micronaire, micrograms/inch | | | | | | | | |
|----------------|-----------------------------|------|------|------|------|------|---------|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | |
| Lankart 3840 | 3.7 | 4.7 | 5.0 | 4.0 | 4.8 | 4.6 | 4.5 | | |
| Coker 201 | 3.7 | 4.9 | 4.9 | 4.5 | 4.5 | 4.4 | 4.5 | | |
| Paymaster 202 | 3.8 | 4.7 | 4.8 | 3.8 | 4.5 | 4.6 | 4.4 | | |
| Stoneville 213 | 3.1 | 4.4 | 5.2 | 4.6 | 4.4 | 4.5 | 4.4 | | |
| Deltapine 16 | 3.2 | 4.5 | 5.0 | 4.3 | 4.7 | 4.3 | 4.3 | | |
| Lockett 4789-A | 3.4 | 4.4 | 4.8 | 3.6 | 4.2 | 4.0 | 4.1 | | |
| Stoneville 7A | 2.9 | 4.3 | 4.8 | 4.2 | 4.2 | 3.9 | 4.1 | | |
| Lockett BXL | 3.3 | 4.7 | 4.5 | 3.5 | 4.2 | 4.3 | 4.1 | | |
| Lockett 4789 | 3.1 | 4.5 | 4.6 | 3.5 | 4.2 | 3.9 | 4.0 | | |
| Yearly average | 3.4 | 4.6 | 4.9 | 4.0 | 4.4 | 4.3 | 4.2 | | |

Table 51. Fiber coarseness of varieties tested 3 to 5 years under irrigation at Chickasha

| | | | Micronaiı | e, microg | rams/incl | ı | |
|-----------------|------|------|-----------|-----------|-----------|------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average |
| Lankart LX 571 | 3.6 | 4.9 | | 3.8 | 4.8 | 4.8 | 4.4 |
| Deltapine 45A | 3.2 | 4.6 | | 4.2 | 4.5 | 4.1 | 4.2 |
| Stripper Cala-S | | 4.2 | 4.5 | 3.6 | 3.8 | 3.9 | 3.8 |
| Tamcot 788 | | 4.1 | 4.2 | 3.2 | 4.2 | 4.2 | 3.7 |
| Paymaster 111 | 3.8 | 4.9 | 4.6 | 3.9 | | | 4.3 |
| Lankart 57 | 3.4 | 4.8 | 5.1 | 3.4 | | | 4.2 |
| Coker 310 | | | 5.0 | 4.0 | 4.6 | 4.2 | 4.3 |
| Coker 5110 | | | 4.3 | 3.9 | 4.3 | 4.0 | 3.9 |
| Westburn 70 | | | 4.3 | 3.3 | 3.6 | 3.6 | 3.5 |
| Paymaster 101-A | 3.4 | 4.7 | 4.6 | | | | 4.1 |
| Dunn 56C | 3.7 | 4.3 | 4.2 | | | | 4.0 |
| Coker 4104 | 3.2 | 4.3 | 4.4 | | | | 3.9 |
| Westburn | 3.0 | 4.0 | 4.4 | | | | 3.7 |
| Paymaster 18 | • | 5.7 | 6.2 | 4.3 | | | 5.1 |
| Acala SJ-1 | | 4.5 | 4.6 | 4.0 | | | 4.1 |
| Lankart 611 | | | 4.7 | | 4.0 | 4.2 | 4.0 |
| Delcot 277 | | | 4.4 | | 4.3 | 3.9 | 3.9 |
| HyBee 100A | | | | 4.1 | 4.6 | 4.4 | 4.3 |
| Coker 312 | | | | 4.2 | 4.4 | 4.5 | 4.3 |
| Paymaster 101-B | | | | 3.7 | 4.6 | 4.5 | 4.2 |
| Dunn 118 | | | | 3.8 | 4.1 | 4.0 | 3.9 |
| Paymaster 111-A | | | | 3.2 | 4.3 | 4.2 | 3.9 |

Table 52. Fiber coarseness of varieties tested 5 years on dryland at Mangum

| Variety | Micronaire, micrograms/inch | | | | | | | | |
|----------------|-----------------------------|------|------|------|------|-------|---------|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average | | |
| Lankart 3840 | 4.5 | 4.8 | 5.1 | 4.7 | 4.7 | | 4.8 | | |
| Lankart LX 571 | 4.7 | 5.1 | 4.9 | 4.6 | 4.2 | | 4.7 | | |
| Paymaster 202 | 4.8 | 4.9 | 4.7 | 4.6 | 4.1 | | 4.6 | | |
| Lankart 57 | 3.7 | 4.9 | 4.4 | 4.4 | 4.1 | | 4.3 | | |
| Lockett 4789-A | 4.0 | 4.3 | 4.5 | 4.1 | 3.4 | | 4.1 | | |
| Yearly average | 4.3 | 4.8 | 4.7 | 4.5 | 4.1 | | 4.5 | | |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 53. Fiber coarseness of varieties tested 3 or 4 years on dryland at Mangum

| | | | Micronair | e, microg | rams/incl | h | |
|---------------------|-------|------|-----------|-----------|-----------|-------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average |
| Coker 201 | 4.2 | 4.8 | | 4.4 | 4.7 | | 4.6 |
| Lockett BXL | 3.8 | | 4.4 | 4.2 | 3.8 | | 4.2 |
| Lockett 4789 | 3.6 | | 4.8 | 4.1 | 4.0 | | 4.2 |
| Stripper Cala-S | | 4.4 | 4.4 | 4.3 | 4.0 | | 4.3 |
| Tamcot 788 | | 4.2 | 4.0 | 3.9 | 4.0 | | 4.0 |
| Paymaster 101-A | 4.2 | 4.6 | 5.0 | • • • • | | | 4.5 |
| Dunn 56C | 3.9 | 4.1 | 4.7 | | | | 4.1 |
| Westburn | 3.6 | 4.3 | 4.3 | | | | 4.0 |
| Coker 4104 | 3.6 | 4.4 | 4.2 | | | | 4.0 |
| Paymaster 111 | 3.9 | 4.8 | | 4.7 | | | 4.4 |
| Stoneville 7A | 3.6 | 4.5 | | 3.2 | | | 3.7 |
| Stripper Cala-N | • • • | 4.6 | 5.1 | ٠.٦ | 4.2 | | 4.6 |
| Lankart 611 | | 4.7 | 4.6 | | 4.5 | | 4.6 |
| Tamcot 24 | | 3.8 | 4.2 | | 3.8 | | 3.9 |
| Coker 310 | | 5.0 | | 4.8 | 4.4 | | 4.8 |
| Prolific Stormproof | | 4.5 | | 4.8 | 4.1 | | 4.5 |
| Paymaster 111-A | | 3.0 | 4.8 | 4.2 | 4.1 | | 4.4 |
| Westburn 70 | | | 4.0 | 4.5 | 3.7 | | 4.1 |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 54. Fiber coarseness of varieties tested 5 years on dryland at Chickasha

| Variety | Micronaire, micrograms/inch | | | | | | | | |
|----------------|-----------------------------|------|-------|------|------|------|---------|--|--|
| | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | |
| Lankart 57 | 4.6 | 5.6 | | 3.8 | 4.9 | 4.0 | 4.6 | | |
| Paymaster 202 | 4.8 | 5.2 | | 3.4 | 5.2 | 4.5 | 4.6 | | |
| Lankart 3840 | 4.3 | 5.6 | | 3.7 | 5.0 | 4.4 | 4.6 | | |
| Coker 201 | 4.6 | 5.4 | | 4.1 | 5.1 | 3.4 | 4.5 | | |
| Lankart LX 571 | 4.5 | 5.2 | | 3.9 | 4.8 | 3.8 | 4.4 | | |
| Lockett 4789-A | 4.4 | 4.9 | | 3.8 | 4.6 | 3.7 | 4.3 | | |
| Yearly average | 4.5 | 5.3 | | 3.8 | 4.9 | 4.0 | 4.5 | | |

^{*}Test was not harvested due to severe drouth damage.

Table 55. Fiber coarseness of varieties tested 3 or 4 years on dryland at Chickasha

| | | | Micronair | e, microg | rams/inch | 1 | |
|---------------------|------|------|-----------|-----------|-----------|------|---------|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average |
| Lockett BXL | 4.6 | | | 3.3 | 4.9 | 4.2 | 4.5 |
| Lockett 4789 | 4.4 | | | 3.7 | 4.5 | 4.1 | 4.4 |
| Coker 310 | | 5.3 | | 3.7 | 5.0 | 4.2 | . 4.6 |
| Prolific Stormproof | | 4.8 | | 4.0 | 4.5 | 3.6 | 4.2 |
| Stripper Cala-S | | 4.7 | | 3.4 | 4.1 | 4.0 | 4.1 |
| Tamcot 788 | | 4.6 | | 3.4 | 4.1 | 3.7 | 4.0 |
| Paymaster 111 | 5.0 | 5.4 | | 3.8 | | | 4.7 |
| Stoneville 7A | 4.1 | 5.4 | | 3.9 | | | 4.4 |
| Lankburn | 4.1 | 5.3 | | | | 4.1 | 4.4 |
| Lankart 611 | | 5.0 | | | 4.9 | 4.5 | 4.6 |
| Lankhart 611 | | 5.0 | | | 4.9 | 4.5 | 4.6 |
| Stripper Cala-N | | 4.5 | | | 4.4 | 4.4 | 4.2 |
| Paymaster 101-B | | | | 4.0 | 5.0 | 5.6 | 5.1 |
| Deltapine 16 | | | | 4.2 | 4.9 | 4.1 | 4.7 |
| Dunn 119 | | | | 3.5 | 5.4 | 4.5 | 4.7 |
| HyBee 200A | | | | 4.1 | 5.3 | 4.0 | 4.7 |
| Quapaw | | | | 3.8 | 5.1 | 3.9 | 4.5 |
| Coker 5110 | | | | 3.9 | 4.8 | 4.0 | 4.5 |
| Paymaster 111-A | | | | 3.5 | 4.8 | 3.9 | 4.3 |
| Westburn 70 | | | | 3.6 | 3.9 | 3.2 | 3.8 |

^{*}Test was not harvested due to severe drouth damage.

Table 56. Fiber strength of varieties tested 6 years under irrigation at Altus

| Variety | 1/8" gauge stelometer, grams-force/tex | | | | | | | | |
|----------------|----------------------------------------|------|------|------|------|--------------|---------|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | |
| Lockett BXL | 20.0 | 21.3 | 17.3 | 19.7 | 21.0 | 19.8 | 19.9 | | |
| Deltapine 16 | 20.1 | 20.5 | 18.2 | 20.9 | 18.9 | 20.0 | 19.8 | | |
| Paymaster 202 | 19.4 | 20.8 | 18.3 | 16.7 | 21.5 | 21.1 | 19.6 | | |
| Lockett 4789-A | 18.9 | 20.5 | 18.6 | 17.9 | 20.1 | 21.3 | 19.6 | | |
| Coker 201 | 18.9 | 19.9 | 18.3 | 20.3 | 20.1 | 20.2 | 19.6 | | |
| Stoneville 213 | 19.7 | 20.6 | 17.6 | 19.5 | 19.8 | 19.8 | 19.5 | | |
| Lankart 3840 | 19.0 | 20.5 | 17.4 | 17.7 | 20.1 | 19.3 | 19.0 | | |
| Lockett 4789 | 19.9 | 19.3 | 17.0 | 18.5 | 19.7 | 19. 0 | 18.9 | | |
| Stoneville 7A | 18.6 | 19.2 | 17.3 | 18.2 | 20.0 | 19.3 | 18.8 | | |
| Yearly average | 19.4 | 20.3 | 17.8 | 18.8 | 20.1 | 20.0 | 19.4 | | |

Table 57. Fiber strength of varieties tested 3 to 5 years under irrigation at Altus

| | | 1/8" | gauge ste | lometer, | grams-for | ce/tex | |
|-----------------|------|------|-----------|----------|-----------|--------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average |
| Deltapine 45A | 20.0 | 20.9 | | 18.6 | 20.9 | 19.7 | 19.7 |
| Lankart LX 571 | 18.8 | 19.4 | | 16.7 | 18.0 | 18.8 | 18.0 |
| Tamcot 788 | | 22.0 | 17.7 | 18.0 | 21.2 | 22.9 | 20.4 |
| Stripper Cala-S | | 19.9 | 17.6 | 17.9 | 20.6 | 20.4 | 19.3 |
| Paymaster 111 | 20.9 | 19.5 | 16.7 | 19.4 | | | 19.5 |
| Lankart 57 | 17.7 | 17.7 | 16.4 | 15.5 | | | 17.2 |
| Coker 310 | | | 17.9 | 18.8 | 21.2 | 20.9 | 19.9 |
| Coker 5110 | | | 18.2 | 18.8 | 21.2 | 20.2 | 19.8 |
| Westburn 70 | | | 14.6 | 17.1 | 18.8 | 18.5 | 17.5 |
| Dunn 56C | 21.7 | 22.5 | 20.7 | | | | 21.9 |
| Coker 4104 | 21.5 | 20.3 | 17.9 | | | | 20.1 |
| Paymaster 101-A | 19.1 | 20.1 | 17.3 | | | | 19.1 |
| Westburn | 18.4 | 19.8 | 16.2 | | | | 18.4 |
| Acala SJ-1 | | 23.1 | 23.0 | 19.5 | | | 22.3 |
| Paymaster 18 | | 18.8 | 15.9 | 16.2 | | | 17.4 |
| Delcot 277 | | | 18.6 | | 20.6 | 21.7 | 20.4 |
| Lankart 611 | | | 17.1 | | 18.0 | 18.9 | 18.1 |
| Dunn 118 | | | | 20.7 | 21.3 | 20.5 | 20.6 |
| Coker 312 | | | | 18.2 | 20.6 | 20.7 | 19.6 |
| Paymaster 111-A | | | | 17.6 | 21.5 | 20.2 | 19.5 |
| HyBee 100A | | | | 19.1 | 18.8 | 19.7 | 19.0 |
| Paymaster 101-B | | | | 17.7 | 19.1 | 19.1 | 18.4 |

Table 58. Fiber strength of varieties tested 6 years under irrigation at Chickasha

| Variety | 1/8" gauge stelometer, grams-force/tex | | | | | | | | | |
|----------------|----------------------------------------|------|------|------|------|------|---------|--|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | |
| Deltapine 16 | 21.3 | 21.1 | 19.6 | 19.1 | 19.8 | 22.2 | 20.5 | | | |
| Lockett 4789-A | 20.3 | 21.0 | 18.0 | 18.2 | 21.0 | 20.4 | 19.8 | | | |
| Coker 201 | 20.4 | 20.3 | 18.8 | 18.5 | 20.2 | 20.6 | 19.8 | | | |
| Lockett BXL | 20.1 | 20.8 | 18.3 | 19.2 | 20.3 | 20.1 | 19.8 | | | |
| Stoneville 213 | 20.4 | 20.1 | 17.6 | 18.3 | 20.7 | 21.1 | 19.7 | | | |
| Paymaster 202 | 20.5 | 20.3 | 18.2 | 18.3 | 20.7 | 19.8 | 19.6 | | | |
| Lankart 3840 | 20.5 | 21.1 | 18.4 | 17.0 | 21.3 | 19.4 | 19.6 | | | |
| Lockett 4789 | 19.0 | 20.2 | 17.9 | 17.4 | 21.2 | 19.6 | 19.2 | | | |
| Stoneville 7A | 19.9 | 20.2 | 19.6 | 14.6 | 19.2 | 21.1 | 19.1 | | | |
| Yearly average | 20.3 | 20.6 | 18.5 | 17.8 | 20.5 | 20.5 | 19.7 | | | |

Table 59. Fiber strength of varieties tested 3 to 5 years under irrigation at Chickasha

| | | 1/8" | gauge ste | 1/8" gauge stelometer, grams-force/tex | | | | | | | | | |
|-----------------|------|------|-----------|----------------------------------------|------|------|---------|--|--|--|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | | | | |
| Deltapine 45A | 21.1 | 21.3 | | 19.2 | 21.1 | 20.6 | 20.4 | | | | | | |
| Lankart LX 571 | 19.0 | 19.7 | | 17.1 | 18.9 | 18.9 | 18.5 | | | | | | |
| Tamcot 788 | | 22.9 | 19.8 | 19.5 | 21.6 | 22.6 | 21.4 | | | | | | |
| Stripper Cala-S | | 20.5 | 18.5 | 18.0 | 20.8 | 20.0 | 19.7 | | | | | | |
| Paymaster 111 | 20.8 | 21.0 | 17.6 | 17.9 | | | 19.7 | | | | | | |
| Lankart 57 | 17.8 | 18.2 | 16.5 | 15.9 | | | 17.5 | | | | | | |
| Coker 310 | | | 19.3 | 20.1 | 21.9 | 21.5 | 21.1 | | | | | | |
| Coker 5110 | | | 17.7 | 17.3 | 19.7 | 21.3 | 19.4 | | | | | | |
| Westburn 70 | | | 16.3 | 17.1 | 21.0 | 19.8 | 18.9 | | | | | | |
| Dunn 56C | 21.9 | 23.2 | 21.0 | | - | | 21.9 | | | | | | |
| Coker 4104 | 21.6 | 20.1 | 19.3 | | | | 20.2 | | | | | | |
| Paymaster 101-A | 19.9 | 19.4 | 19.4 | | | | 19.5 | | | | | | |
| Westburn | 20.2 | 19.6 | 17.2 | | | | 18.9 | | | | | | |
| Acala SJ-1 | | 24.3 | 22.8 | 21.4 | | | 23.6 | | | | | | |
| Paymaster 18 | | 18.2 | 15.4 | 16.8 | | | 17.5 | | | | | | |
| Delcot 277 | | | 21.1 | | 20.6 | 23.2 | 21.5 | | | | | | |
| Lankart 611 | | | 16.7 | | 20.0 | 19.4 | 18.6 | | | | | | |
| Dunn 118 | | | | 20.7 | 24.0 | 23.6 | 22.9 | | | | | | |
| HyBee 100A | | | | 19.5 | 22.3 | 22.0 | 21.4 | | | | | | |
| Coker 312 | | | | 18.5 | 21.9 | 21.6 | 20.8 | | | | | | |
| Paymaster 111-A | | | | 18.2 | 19.4 | 20.8 | 19.6 | | | | | | |
| Paymaster 101-B | | | | 17.1 | 19.1 | 19.0 | 18.5 | | | | | | |

Table 60. Fiber strength of varieties tested 5 years on dryland at Mangum

| | 1/8" gauge stelometer, grams-force/tex | | | | | | | | | |
|----------------|----------------------------------------|------|------|------|------|-------|---------|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average | | | |
| Paymaster 202 | 20.2 | 21.0 | 20.4 | 17.9 | 22.2 | | 20.3 | | | |
| Lockett 4789-A | 19.9 | 20.6 | 20.0 | 18.2 | 21.0 | | 19.9 | | | |
| Lankart 3840 | 19.8 | 21.5 | 18.8 | 17.7 | 20.9 | | 19.7 | | | |
| Lankart LX 571 | 18.6 | 21.5 | 16.8 | 20.1 | 21.5 | | 19.7 | | | |
| Lankart 57 | 17.1 | 19.2 | 15.3 | 16.8 | 19.5 | | 17.6 | | | |
| Yearly average | 19.1 | 20.8 | 18.3 | 18.1 | 21.0 | | 19.5 | | | |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 61. Fiber strength of varieties tested 3 or 4 years on dryland at Mangum

| | | 1/8" | gauge ste | lometer, | grams-for | ce/tex | |
|---------------------|------|------|-----------|----------|-----------|--------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average |
| Coker 201 | 19.3 | 20.6 | | 18.3 | 26.1 | | 20.8 |
| Lockett BXL | 19.1 | | 17.7 | 17.7 | 20.3 | | 19.1 |
| Lockett 4789 | 18.7 | | 17.4 | 18.3 | 19.7 | | 18.9 |
| Tamcot 788 | | 21.5 | 19.8 | 23.4 | 27.2 | | 22.9 |
| Stripper Cala-S | | 20.6 | 18.6 | 19.7 | 23.4 | | 20.5 |
| Dunn 56C | 20.5 | 23.0 | 20.9 | | | | 21.6 |
| Coker 4104 | 20.6 | 21.5 | 19.8 | | | | 20.7 |
| Paymaster 101-A | 18.8 | 21.3 | 16.8 | | | | 19.1 |
| Westburn | 18.7 | 20.1 | 16.2 | | | | 18.4 |
| Paymaster 111 | 18.9 | 21.4 | | 18.6 | | | 19.8 |
| Stoneville 7A | 18.9 | 18.7 | | 17.9 | | | 18.7 |
| Tamcot 24 | | 25.2 | 22.8 | | 27.0 | | 24.5 |
| Stripper Cala-N | | 21.6 | 19.4 | | 21.9 | | 20.4 |
| Lankart 611 | | 18.5 | 15.9 | | 20.9 | | 17.9 |
| Coker 310 | | 22.4 | | 22.4 | 23.3 | | 22.2 |
| Prolific Stormproof | | 18.9 | | 18.6 | 22.2 | | 19.4 |
| Paymaster 111-A | | | 20.4 | 21.3 | 21.8 | | 21.5 |
| Westburn 70 | | | 15.9 | 19.2 | 21.0 | | 19.1 |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 62. Fiber strength of varieties tested 5 years on dryland at Chickasha

| | 1/8" gauge stelometer, grams-force/tex | | | | | | | | |
|----------------|----------------------------------------|------|-------|------|------|------|---------|--|--|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | | |
| Paymaster 202 | 21.8 | 21.2 | | 18.0 | 21.2 | 20.7 | 20.6 | | |
| Lockett 4789-A | 21.0 | 20.4 | | 19.5 | 21.6 | 19.7 | 20.4 | | |
| Coker 201 | 20.7 | 20.1 | | 18.0 | 21.3 | 19.4 | 19.9 | | |
| Lankart 3840 | 21.4 | 20.8 | | 15.5 | 21.3 | 20.1 | 19.8 | | |
| Lankart 57 | 17.8 | 18.2 | | 16.1 | 20.4 | 24.5 | 19.4 | | |
| Lankart LX 571 | 19.4 | 19.6 | | 16.5 | 19.7 | 20.3 | 19.1 | | |
| Yearly average | 20.4 | 20.1 | | 17.3 | 20.9 | 20.8 | 19.9 | | |

^{*}Test was not harvested due to severe drouth damage.

Table 63. Fiber strength of varieties tested 3 or 4 years on dryland at Chickasha

| | | 1/8" | gauge ste | lometer, | grams-for | ce/tex | |
|---------------------|------|------|-----------|----------|-----------|--------|---------|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average |
| Lockett BXL | 20.7 | | | 14.3 | 23.1 | 21.2 | 19.9 |
| Lockett 4789 | 20.0 | | | 17.1 | 20.9 | 19.5 | 19.4 |
| Coker 310 | | 20.9 | | 20.4 | 23.3 | 22.2 | 21.8 |
| Tamcot 788 | | 23.3 | | 16.7 | 23.4 | 21.0 | 21.2 |
| Stripper Cala-S | | 19.9 | | 15.2 | 19.1 | 20.9 | 18.9 |
| Prolific Stormproof | | 18.0 | | 14.6 | 19.4 | 18.9 | 17.9 |
| Paymaster 111 | 21.6 | 20.3 | | 16.1 | | | 20.0 |
| Stoneville 7A | 19.7 | 18.9 | | 14.9 | | | 18.5 |
| Lankburn | 19.5 | 18.4 | | | | 24.0 | 20.1 |
| Stripper Cala-N | | 19.8 | | | 20.1 | 20.0 | 19.3 |
| Lankart 611 | | 18.6 | | | 21.8 | 18.8 | 19.0 |
| Dunn 119 | | | | 19.7 | 25.4 | 23.1 | 23.0 |
| Deltapine 16 | | | | 18.9 | 23.4 | 20.7 | 21.2 |
| Paymaster 111-A | | | | 16.8 | 21.6 | 22.5 | 20.5 |
| Coker 5110 | | | | 17.3 | 21.9 | 21.0 | 20.3 |
| Paymaster 101-B | | | | 15.5 | 22.2 | 20.6 | 19.7 |
| Quapaw | | | | 17.1 | 23.1 | 17.9 | 19.6 |
| Westburn 70 | | | | 15.9 | 20.1 | 20.3 | 19.0 |
| HyBee 200A | | | | 17.9 | 17.6 | 20.6 | 18.9 |

^{*}Test was not harvested due to severe drouth damage.

Table 64. Fiber strength of varieties tested 6 years under irrigation at Altus

| | 0" gauge stelometer, grams-force/tex | | | | | | | | | |
|----------------|--------------------------------------|------|------|------|------|------|--------------|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | |
| Lockett BXL | 41.1 | 38.7 | 43.5 | 40.0 | 39.8 | 42.7 | 41.0 | | | |
| Paymaster 202 | 40.1 | 38.5 | 44.7 | 39.5 | 38.4 | 43.5 | 40.8 | | | |
| Lockett 4789-A | 40.9 | 37.8 | 42.1 | 39.1 | 41.2 | 41.5 | 40.4 | | | |
| Lankart 3840 | 40.0 | 38.2 | 43.2 | 38.1 | 39.9 | 41.0 | 40.1 | | | |
| Lockett 4789 | 40.2 | 38.6 | 40.9 | 38.4 | 39.2 | 42.0 | 39.9 | | | |
| Stoneville 7A | 40.0 | 38.6 | 41.3 | 39.9 | 40.0 | 39.5 | 39.9 | | | |
| Coker 201 | 39.4 | 36.7 | 43.4 | 37.2 | 39.5 | 41.6 | 39.6 | | | |
| Deltapine 16 | 38.5 | 36.6 | 39.5 | 38.1 | 37.9 | 40.5 | 38.5 | | | |
| Stoneville 213 | 39.2 | 37.6 | 39.4 | 34.9 | 38.1 | 37.3 | 3 7.8 | | | |
| Yearly average | 39.9 | 37.9 | 42.0 | 38.4 | 39.3 | 41.1 | 39.8 | | | |

Table 65. Fiber strength of varieties tested 3 to 5 years under irrigation at Altus

| | 0" gauge stelometer, grams-force/tex | | | | | | | | | |
|-----------------|--------------------------------------|------|--------------|------|------|------|---------|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | |
| Deltapine 45A | 39.0 | 37.5 | | 36.7 | 38.6 | 38.1 | 38.5 | | | |
| Lankart LX 571 | 37.5 | 37.3 | | 37.2 | 38.1 | 37.3 | 38.0 | | | |
| Tamcot 788 | | 42.7 | 52.3 | 43.1 | 45.0 | 48.7 | 46.4 | | | |
| Stripper Cala-S | | 39.2 | 46.1 | 42.0 | 45.0 | 44.1 | 43.3 | | | |
| Paymaster 111 | 42.2 | 37.7 | 39.3 | 37.9 | | | 39.5 | | | |
| Lankart 57 | 35.2 | 32.7 | 34.8 | 33.2 | | | 34.2 | | | |
| Coker 310 | | | 39.9 | 38.7 | 38.4 | 42.2 | 39.4 | | | |
| Coker 5110 | | | 41.3 | 38.7 | 39.2 | 39.6 | 39.3 | | | |
| Westburn 70 | | | 39.4 | 36.9 | 38.6 | 39.6 | 38.2 | | | |
| Dunn 56C | 42.2 | 40.1 | 45.8 | | | | 42.6 | | | |
| Coker 4104 | 40 .9 | 37.5 | 42.8 | | | | 40.3 | | | |
| Paymaster 101-A | 3 8 .1 | 36.7 | 43.1 | | | | 39.2 | | | |
| Westburn | 39.1 | 36.0 | 38.5 | | | | 37.7 | | | |
| Acala SJ-1 | | 40.8 | 47.4 | 39.1 | | | 42.8 | | | |
| Paymaster 18 | | 37.2 | 41.5 | 39.3 | | | 39.7 | | | |
| Delcot 277 | | | 43.4 | | 39.9 | 40.3 | 40.2 | | | |
| Lankart 611 | | | 37. 4 | | 37.6 | 38.7 | 36.9 | | | |
| Dunn 118 | | | | 41.7 | 45.3 | 44.0 | 43.9 | | | |
| Paymaster 111-A | | | | 39.9 | 41.1 | 41.6 | 41.1 | | | |
| Coker 312 | | | | 39.3 | 38.7 | 40.1 | 39.6 | | | |
| Paymaster 101-B | | | | 38.2 | 38.9 | 41.1 | 39.6 | | | |
| HyBee 100A | | | | 38.9 | 38.1 | 37.6 | 38.4 | | | |

Table 66. Fiber strength of varieties tested 6 years under irrigation at Chickasha

| Variety | 0" gauge stelometer, grams-force/tex | | | | | | | | | |
|----------------|--------------------------------------|------|------|------|------|------|---------|--|--|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | |
| Stoneville 7A | 41.4 | 41.2 | 42.6 | 41.3 | 40.7 | 41.2 | 41.4 | | | |
| Lankart 3840 | 40.5 | 40.4 | 40.5 | 38.9 | 43.3 | 42.8 | 41.1 | | | |
| Coker 201 | 40.6 | 40.7 | 41.6 | 40.2 | 41.2 | 41.0 | 40.9 | | | |
| Paymaster 202 | 39.5 | 40.8 | 41.5 | 40.6 | 40.2 | 40.1 | 40.5 | | | |
| Lockett 4789-A | 39.6 | 40.3 | 41.1 | 40.8 | 40.2 | 39.2 | 40.2 | | | |
| Lockett BXL | 38.2 | 39.6 | 40.9 | 38.9 | 39.1 | 40.1 | 39.5 | | | |
| Lockett 4789 | 38.9 | 40.9 | 40.1 | 37.1 | 39.2 | 39.6 | 39.3 | | | |
| Stoneville 213 | 36.9 | 38.4 | 38.6 | 39.9 | 39.9 | 39.5 | 38.9 | | | |
| Deltapine 16 | 37.4 | 38.3 | 39.3 | 38.0 | 37.4 | 37.5 | 38.0 | | | |
| Yearly average | 39.2 | 40.1 | 40.7 | 39.5 | 40.1 | 40.1 | 40.0 | | | |

Table 67. Fiber strength of varieties tested 3 to 5 years under irrigation at Chickasha

| | 0" gauge stelometer, grams-force/tex | | | | | | | | | |
|-----------------|--------------------------------------|------|------|---------------|------|------|--------------|--|--|--|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | Average | | | |
| Deltapine 45A | 38.6 | 38.9 | | 40.1 | 37.5 | 41.2 | 39.5 | | | |
| Lankart LX 571 | 37.4 | 37.5 | | 38.5 | 39.2 | 39.6 | 38.6 | | | |
| Tamcot 788 | | 45.7 | 50.0 | 41.9 | 41.1 | 46.8 | 45.0 | | | |
| Stripper Cala-S | | 41.7 | 46.0 | 43.5 | 43.6 | 45.6 | 44.0 | | | |
| Paymaster 111 | 40.6 | 39.8 | 43.4 | 3 8.7 | | | 40.8 | | | |
| Lankart 57 | 34.7 | 34.3 | 34.0 | 32.6 | | | 34.0 | | | |
| Coker 310 | | | 40.5 | 42.0 | 40.7 | 41.9 | 41.2 | | | |
| Coker 5110 | | | 39.6 | 3 8 .7 | 39.6 | 40.1 | 39.4 | | | |
| Westburn 70 | | | 39.0 | 34.1 | 39.3 | 38.7 | 37.7 | | | |
| Coker 4104 | 39.2 | 39.9 | 42.8 | | | | 40.6 | | | |
| Dunn 56C | 41.3 | 42.4 | 35.4 | | | | 39.7 | | | |
| Paymaster 101-A | 39.0 | 38.3 | 41.1 | | | | 39.5 | | | |
| Westburn | 38.6 | 36.9 | 38.7 | | | | 38.1 | | | |
| Acala SJ-1 | | 42.0 | 44.7 | 41.1 | | | 42.5 | | | |
| Paymaster 18 | | 40.2 | 38.6 | 3 8. 2 | | | 38.9 | | | |
| Delcot 277 | | | 41.3 | | 38.9 | 42.1 | 40.5 | | | |
| Lankart 611 | | | 37.3 | | 37.3 | 36.9 | 36.9 | | | |
| Dunn 118 | | | | 46.5 | 45.8 | 45.1 | 45.9 | | | |
| Coker 312 | | | | 40.6 | 43.2 | 41.4 | 41.8 | | | |
| Paymaster 111-A | | | | 41.1 | 40.7 | 42.0 | 41.4 | | | |
| HyBee 100A | | | | 38.2 | 39.8 | 40.2 | 39.5 | | | |
| Paymaster 101-B | | | | 37.6 | 37.3 | 40.8 | 3 8.7 | | | |

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

| Variety | 0" gauge stelometer, grams-force/tex | | | | | | | |
|----------------|--------------------------------------|------|------|------|------|-------|---------|--|
| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average | |
| Lankart 3840 | 40.9 | 40.8 | 42.5 | 44.3 | 43.8 | | 42.5 | |
| Paymaster 202 | 41.4 | 40.4 | 44.8 | 43.2 | 41.1 | | 42.2 | |
| Lockett 4789-A | 40.0 | 37.9 | 41.5 | 43.7 | 42.0 | | 41.0 | |
| Lankart LX 571 | 38.3 | 38.3 | 39.5 | 36.6 | 38.2 | | 38.2 | |
| Lankart 57 | 35.8 | 36.6 | 38.0 | 33.4 | 33.6 | | 35.5 | |
| Yearly average | 39.3 | 38.8 | 41.3 | 40.2 | 39.7 | | 39.9 | |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 69. Fiber strength of varieties tested 3 or 4 years on dryland at Mangum

| | | 0″ g | auge stelo | meter, gr | ams-force | tex: | |
|---------------------|--------------|------|------------|-----------|-----------|-------|---------|
| Variety | 1968 | 1969 | 1970 | 1971 | 1972 | 1973* | Average |
| Coker 201 | 39.6 | 41.0 | | 43.1 | 43.5 | | 42.2 |
| Lockett 4789 | 3 8.6 | | 43.7 | 42.2 | 40.6 | | 41.1 |
| Lockett BXL | 39.4 | | 41.1 | 42.8 | 40.8 | | 40.8 |
| Tamcot 788 | | 46.2 | 49.1 | 47.1 | 45.9 | | 47.0 |
| Stripper Cala-S | | 44.6 | 46.6 | 44.6 | 45.8 | | 45.3 |
| Dunn 56C | 42.6 | 43.8 | 46.1 | | | | 44.3 |
| Paymaster 101-A | 39.9 | 40.6 | 42.2 | | | | 41.0 |
| Coker 4104 | 40.2 | 39.7 | 41.9 | | | | 40.7 |
| Westburn | 37.2 | 36.8 | 40.4 | | | | 38.2 |
| Paymaster 111 | 40.4 | 39.0 | | 43.7 | | | 41.5 |
| Stoneville 7A | 41.7 | 41.6 | | 39.5 | | | 41.4 |
| Tamcot 24 | | 48.3 | 51.4 | | 43.1 | | 47.6 |
| Stripper Cala-N | | 44.7 | 44.8 | | 41.9 | | 43.8 |
| Lankart 611 | | 34.4 | 37.1 | | 35.8 | | 35.7 |
| Coker 310 | | 40.5 | | 42.2 | 41.2 | | 41.6 |
| Prolific Stormproof | | 40.4 | | 41.9 | 39.5 | | 40.9 |
| Paymaster 111-A | | | 44.8 | 40.6 | 41.5 | | 41.8 |
| Westburn 70 | | | 38.9 | 37.1 | 37.4 | | 37.3 |

^{*}Test was not harvested due to uneven stands caused by wind-blown sand.

Table 70. Fiber strength of varieties tested 5 years on dryland at Chickasha

| | | 0″ ş | gauge stele | ometer, g | rams-force | /tex | |
|----------------|------|------|-------------|-----------|------------|------|---------|
| Variety | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average |
| Lankart 3840 | 43.7 | 44.9 | | 42.2 | 46.5 | 43.4 | 44.1 |
| Coker 201 | 41.9 | 43.9 | | 45.4 | 47.2 | 37.6 | 43.2 |
| Paymaster 202 | 42.6 | 45.8 | | 42.8 | 45.9 | 38.6 | 43.1 |
| Lockett 4789-A | 40.8 | 44.7 | | 44.0 | 46.1 | 37.3 | 42.6 |
| Lankart LX 571 | 38.7 | 41.3 | | 41.1 | 44.1 | 37.5 | 40.5 |
| Lankart 57 | 35.4 | 38.6 | | 40.0 | 38.4 | 42.6 | 39.0 |
| Yearly average | 40.5 | 43.2 | | 42.6 | 44.7 | 39.5 | 42.1 |

^{*}Test was not harvested due to severe drouth damage.

Table 71. Fiber strength of varieties tested 3 or 4 years on dryland at Chickasha

| Variety | 0" gauge stelometer, grams-force/tex | | | | | | | |
|---------------------|--------------------------------------|------|-------|------|------|------|---------|--|
| | 1968 | 1969 | 1970* | 1971 | 1972 | 1973 | Average | |
| Lockett BXL | 41.7 | | | 41.8 | 46.0 | 40.0 | 42.7 | |
| Lockett 4789 | 41.1 | | | 41.7 | 44.0 | 39.2 | 41.8 | |
| Tamcot 788 | | 48.9 | | 44.8 | 47.4 | 39.3 | 44.7 | |
| Stripper Cala-S | | 45.4 | | 42.5 | 49.4 | 42.5 | 44.6 | |
| Prolitic Stormproof | | 45.1 | | 42.6 | 46.7 | 39.4 | 43.1 | |
| Coker 310 | | 42.2 | | 42.1 | 42.0 | 40.4 | 41.3 | |
| Paymaster 111 | 43.8 | 45.9 | | 43.4 | | | 44.4 | |
| Stoneville 7A | 42.7 | 43.3 | | 43.0 | | | 43.0 | |
| Lankburn | 38.5 | 40.2 | | | | 42.1 | 41.3 | |
| Stripper Cala-N | | 45.6 | | | 48.9 | 42.5 | 45.3 | |
| Lankart 611 | | 38.7 | | | 40.2 | 36.6 | 38.1 | |
| Dunn 119 | | | | 47.2 | 54.4 | 47.1 | 49.4 | |
| Paymaster 111-A | | | | 44.1 | 50.0 | 41.1 | 44.9 | |
| Quapaw | | | | 48.3 | 50.2 | 34.9 | 44.3 | |
| Paymaster 101-B | | | | 44.4 | 48.9 | 39.8 | 44.2 | |
| Deltapine 16 | | | | 40.7 | 43.2 | 39.2 | 40.9 | |
| Coker 5110 | | | | 42.2 | 42.4 | 38.4 | 40.8 | |
| HyBee 200A | | | | 42.8 | 42.4 | 37.4 | 40.7 | |
| Westburn 70 | | | | 37.5 | 38.9 | 35.3 | 37.1 | |

^{*}Test was not harvested due to severe drouth damage.

APPENDIX

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

| 2.5% span | Inches | | | | |
|-----------|---------|-------------|--|--|--|
| length | In 32's | In fraction | | | |
| .844 | 27 | 27/32 | | | |
| .875 | 28 | 7/8 | | | |
| .906 | 29 | 29/32 | | | |
| .938 | 30 | 15/16 | | | |
| .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 | | | |

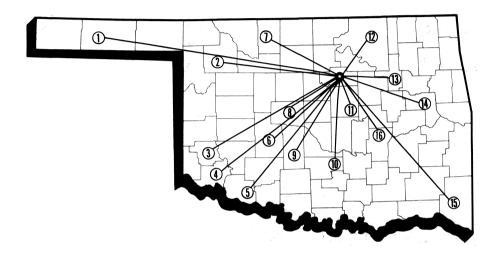
Table B. Conversion of 0" gauge stelometer into thousands of pounds per square inch (PSI)

| 0" gauge stelometer | PSI in 1000's | 0" gauge stelometer | PSI in 1000's | |
|------------------------|------------------|------------------------|------------------|--|
| 31.0 | 67.0 | 41.0 | 88.6 | |
| 32.0 | 69.2 | 42.0 | 90.8 | |
| 33.0 | 71.3 | 43.0 | 92.9 | |
| 34.0 | 73.5 | 44.0 | 95.1 | |
| 35.0 | 75.6 | 45.0 | 97.3 | |
| 36.0 | 77.8 | 46.0 | 99.4 | |
| 37.0 | 80.0 | 47.0 | 101.6 | |
| 3 8 .0 | 8 2.1 | 48.0 | 103.7 | |
| 39.0 | 84.3 | 49.0 | 105.9 | |
| 40.0 | 86.5 | 50.0 | 108.1 | |

OKI AHOMA

Agricultural Experiment Station

System Covers the State



Main Station — Stillwater, Perkins and Lake Carl Blackwell

- 1. Panhandle Research Station Goodwell
- 2. Southern Great Plains Field Station Woodward
- 3. Sandyland Research Station Mangum
- 4. Irrigation Research Station Altus
- 5. Southwest Agronomy Research Station Tipton
- 6. Caddo Research Station Ft. Cobb
- 7. North Central Research Station Lahoma
- 8. Ft. Reno Livestock Research Station El Reno
- 9. South Central Research Station Chickasha
- 10. Agronomy Research Station Stratford
- 11. Pecan Research Station Sparks
- 12. Veterinary Research Station Pawhuska
- 13. Vegetable Research Station Bixbv
- 14. Eastern Pasture Research Station Muskogee
- 15. Kiamichi Field Station Idabel
- 16. Sarkeys Research and Demonstration Project-Lamar