

OKLAHOMA  
AGRICULTURAL AND MECHANICAL COLLEGE  
AGRICULTURAL EXPERIMENT STATION  
DEPARTMENT OF AGRONOMY  
STILLWATER

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# COTTON VARIETY TESTS IN OKLAHOMA

By GLEN BRIGGS  
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Bulletin No. 154



# *Cotton Variety Tests in Oklahoma*

By GLEN BRIGGS,  
Associate Agronomist, Oklahoma Experiment Station.

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In cotton, as with other crops, the variety planted is an important factor in determining production and profits. For this reason the Oklahoma Experiment Station conducts every year variety tests of a large number of different kinds of cotton. In general, the varieties are limited to those known or thought to have merit in the state. However, a number of widely advertised varieties are included even though they are known to be inferior or even almost worthless. These tests are carefully conducted on the Oklahoma Experiment Station farm by disinterested parties so that each cotton will have equal chance with another cotton and stand or fall on its own merits. In addition to these tests the station has conducted cooperative experiments with farmers in various sections of the state to determine the best adapted and most profitable one for that particular section.

Table I shows the varieties tested in 1924, source of seed, amount of seed cotton at first picking as an indication of earliness, yields per acre, linting percent, length of lint, and money value per acre for lint and seed.

The leading varieties in money value per acre in 1924, which is generally the most important factor for the farmer, were found to be Acala No. 5, Oklahoma Triumph 44, Mebane and Lightning Express. The first three have become almost standard varieties in Oklahoma but the last one is new. It is not safe to draw conclusions from the one year's test but in the favored locations on the east side of the state Trice may become valuable. There will be no danger of it supplanting such standard varieties as Acala and strains of Mebane, which are the bread and meat cottons for Oklahoma.

Table I—1924 Results of Cotton Variety Tests at Oklahoma Experiment Station, Stillwater, Oklahoma

| Plot No. | Variety                        | Source of Seed                            | Pounds Per Acre |        |                |         | No. Bolls Per pound | Dollars Per Acre for Seed and Lint | Rank in Value |
|----------|--------------------------------|-------------------------------------------|-----------------|--------|----------------|---------|---------------------|------------------------------------|---------------|
|          |                                |                                           | Seed Cotton     |        | Lint           |         |                     |                                    |               |
|          |                                |                                           | First Pick      | Total  | Length of Lint | Percent |                     |                                    |               |
| 1.       | Mebane                         | Frederick Seed Farms, Frederick, Okla.    | 296.1           | 916.5  | 1              | 36.3    | 65                  | 83.39                              | 4             |
| 2.       | Okla. Tri. 44                  | J. D. Stafford, Morrison, Okla.           | 493.5           | 958.8  | 1              | 33.6    | 79                  | 81.96                              | 6             |
| 3.       | Okla. Tri. 44                  | Okla. Exp. Sta. Stillwater, Okla.         | 451.2           | 1001.1 | 15-16          | 34.5    | 77                  | 87.42                              | 2             |
| 4.       | Mebane                         |                                           | 229.1           | 772    | 1              | 34.7    | 64                  | 67.70                              | 29            |
| 5.       | Burdette Trice                 | Burdette Plantations, Burdette, Ark.      | 532.3           | 891.8  | 1              | 31      | 93                  | 71.64                              | 21            |
| 6.       | Triumph 406                    | Ferguson's Seed Farm, Sherman, Tex.       | 176.3           | 740.3  | 1              | 36.6    | 60                  | 67.79                              | 28            |
| 7.       | Mebane                         |                                           | 246.8           | 846    | 15-16          | 36      | 64                  | 76.45                              | 9             |
| 8.       | Improved Mebane                | A. D. Mebane Sales Ag'cy., Lubbock, Tex.  | 144.5           | 673.3  | 1              | 36.6    | 59                  | 61.73                              | 42            |
| 9.       | Kasch                          | Ed Kasch, San Marcos, Tex.                | 190.4           | 768.5  | 1              | 38      | 58                  | 72.60                              | 16            |
| 10.      | Mebane                         |                                           | 232.6           | 754.4  | 1              | 35.6    | 66                  | 67.54                              | 31            |
| 11.      | Lightning Express              | Coker's Seed Farms, Hartsville, S. C.     | 507.6           | 881.2  | 1 3-16         | 29.4    | 90                  | 83.36                              | 5             |
| 12.      | Acala No. 5                    | C. N. Nunn, Porter, Okla.                 | 222.1           | 828.4  | 1 1-8          | 41.5    | 64                  | 97.00                              | 1             |
| 13.      | Mebane                         |                                           | 211.5           | 754.4  | 1 1-16         | 35.5    | 63                  | 70.71                              | 23            |
| 14.      | Lone Star                      | U. S. Breeding Station, Greenville, Tex.  | 88.1            | 631    | 1 1-16         | 38.7    | 53                  | 63.54                              | 38            |
| 15.      | Lone Star                      | Ferguson's Seed Farm, Sherman, Tex.       | 225.6           | 761.4  | 1 1-16         | 35.6    | 58                  | 71.67                              | 20            |
| 16.      | Bennett's                      | R. L. Bennett & Son, Paris, Tex.          | 359.6           | 719.1  | 1              | 37.8    | 55                  | 67.67                              | 30            |
| 17.      | Rowden                         | Rowden Brothers, Wills Point, Tex.        | 193.9           | 715.6  | 1              | 35.4    | 56                  | 63.82                              | 36            |
| 18.      | Mebane                         |                                           | 296.1           | 881.3  | 1              | 35.7    | 57                  | 79.06                              | 7             |
| 19.      | Wannamaker Cleve-land Big Boll | Model Seed Farm, St. Mathews, S. C.       | 190.4           | 726.2  | 15-16          | 34.3    | 79                  | 63.08                              | 39            |
| 20.      | Half and Half                  | Crook Bros., Lurray, Tenn.                | 441.2           | 923.6  | 13-16          | 39.9    | 84                  | 76.90                              | 8             |
| 21.      | Mebane                         |                                           | 218.6           | 810.8  | 15-16          | 37.6    | 63                  | 75.87                              | 10            |
| 22.      | Sommerour's Half and Half      | Clark & Keller, Shawnee, Okla.            | 267.9           | 810.8  | 3-4            | 35.9    | 73                  | 62.25                              | 41            |
| 23.      | Cook's Improved                | J. R. Cook, Ellaville, Ga.                | 282             | 874.2  | 3-4            | 36.7    | 78                  | 68.26                              | 27            |
| 24.      | Mebane                         |                                           | 260.9           | 824.9  | 15-16          | 34.5    | 65                  | 73.78                              | 15            |
| 25.      | Petty-Toole                    | H. A. Petty, Dawson, Ga.                  | 131.1           | 688.1  | 13-16          | 34.5    | 85                  | 51.34                              | 51            |
| 26.      | Dixie Triumph                  | L. O. Watson Seed Co., Florence, S. C.    | 211.5           | 698    | 7-8            | 35.3    | 78                  | 58.99                              | 46            |
| 27.      | Mebane                         |                                           | 239.7           | 706.2  | 15-16          | 36.9    | 66                  | 65.16                              | 33            |
| 28.      | King                           | N. C. Exp. Sta., Statesville, N. C.       | 451.2           | 779    | 13.16          | 36.5    | 102                 | 60.54                              | 44            |
| 29.      | Burnett                        | Tex. Exp. Sta., College Station, Tex.     | 529.9           | 894.5  | 13.16          | 32.4    | 83                  | 63.55                              | 37            |
| 30.      | Mebane                         |                                           | 408.9           | 817.8  | 15-16          | 37.2    | 63                  | 75.83                              | 11            |
| 31.      | New Boykin                     | Ferguson's Seed Farm, Sherman, Tex.       | 225.6           | 747.3  | 7-8            | 40.3    | 64                  | 70.29                              | 24            |
| 32.      | Belton                         | Tex. Exp. Sta., Lubbock, Tex.             | 151.6           | 631    | 1              | 34.3    | 56                  | 54.91                              | 49            |
| 33.      | Mebane                         |                                           | 345.5           | 705    | 15-16          | 37.5    | 63                  | 65.83                              | 32            |
| 34.      | Meado                          | U. S. Dept. Agri., Washington, D. C.      | none            | 373.7  | 1 3-8          | 23.7    | 83                  | 33.36                              | 55            |
| 35.      | Delfos                         | Stoneville Ped. S. Co., Stoneville, Miss. | 320.8           | 814.3  | 1 1-16         | 33.1    | 90                  | 72.15                              | 18            |
| 36.      | Mebane                         |                                           | 331.4           | 698    | 7-8            | 36.9    | 60                  | 61.11                              | 43            |
| 37.      | Rivercrest                     | Ben Crawford, Olustee, Okla.              | 218.6           | 571.1  | 1 3-16         | 32.8    | 63                  | 59.17                              | 45            |

Oklahoma Experiment Station

| Plot No. .... | Variety                    | Source of Seed                             | Pounds Per Acre |       |                   |         | Acre for Seed<br>No. Bolls Per<br>Pound ..... | Dollars Per<br>and Lint ..... | Rank in Value |
|---------------|----------------------------|--------------------------------------------|-----------------|-------|-------------------|---------|-----------------------------------------------|-------------------------------|---------------|
|               |                            |                                            | Seed Cotton     |       | Lint              |         |                                               |                               |               |
|               |                            |                                            | First<br>Pick   | Total | Length of<br>Lint | Percent |                                               |                               |               |
| 38.           | Excelsior .....            | Ferguson's Seed Farm, Sherman, Tex. ....   | 197.4           | 535.8 | 15-16             | 37      | 63                                            | 49.55                         | 53            |
| 39.           | Mebane .....               | .....                                      | 359.6           | 705   | 15-16             | 36.7    | 61                                            | 64.78                         | 34            |
| 40.           | Watson's .....             | L. O. Watson, Leswaco, Tex. ....           | 472.4           | 860.1 | 15-16             | 35.5    | 67                                            | 76.90                         | 8             |
| 41.           | Delfos 631 .....           | Delta Exp. Sta., Stoneville, Miss. ....    | 359.6           | 768.5 | 1 1-16            | 33.3    | 81                                            | 68.53                         | 26            |
| 42.           | Mebane .....               | .....                                      | 243.2           | 715.6 | 15-16             | 35.7    | 65                                            | 64.32                         | 35            |
| 43.           | Burdette Acala .....       | Burdette Plantations, Burdette, Ark. ....  | 465.3           | 895.4 | 7-8               | 34.5    | 79                                            | 72.40                         | 17            |
| 44.           | Special Cluster .....      | From Lindsay, Okla. ....                   | 275             | 634.5 | 15-16             | 30.7    | 75                                            | 50.54                         | 52            |
| 45.           | Mebane .....               | .....                                      | 267.9           | 839   | 15-16             | 35.3    | 66                                            | 74.60                         | 13            |
| 46.           | Dixie Triumph .....        | Oklahoma Exp. Sta., Stillwater, Okla. .... | 190.4           | 733.2 | 3-4               | 32.7    | 74                                            | 52.37                         | 50            |
| 47.           | Half and Half .....        | Oklahoma Exp. Sta., Stillwater, Okla. .... | 239.7           | 824.9 | 7-8               | 38.3    | 74                                            | 74.47                         | 14            |
| 48.           | Mebane .....               | .....                                      | 197.4           | 810.8 | 7-8               | 37.4    | 61                                            | 71.86                         | 19            |
| 49.           | Triumph 406 .....          | Oklahoma Exp. Sta., Stillwater, Okla. .... | 134             | 662.7 | 7-8               | 35.7    | 63                                            | 56.60                         | 47            |
| 50.           | King .....                 | Oklahoma Exp. Sta., Stillwater, Okla. .... | 169.2           | 775.5 | 3-4               | 32.7    | 93                                            | 55.36                         | 48            |
| 51.           | Mebane .....               | .....                                      | 186.8           | 849.5 | 7-8               | 37.7    | 60                                            | 75.67                         | 12            |
| 52.           | Acala No. 5 .....          | Oklahoma Exp. Sta., Stillwater, Okla. .... | 258.8           | 796.7 | 1                 | 35.8    | 69                                            | 71.63                         | 22            |
| 53.           | Ferguson's Lone Star ..... | Oklahoma Exp. Sta., Stillwater, Okla. .... | 141             | 775.5 | 15-16             | 35.6    | 62                                            | 69.51                         | 25            |
| 54.           | Mebane .....               | .....                                      | 183.3           | 944.7 | 7-8               | 37.4    | 61                                            | 83.60                         | 3             |
| 55.           | Trice .....                | Oklahoma Exp. Sta., Stillwater, Okla. .... | 112.8           | 627.5 | 7-8               | 30.9    | 82                                            | 47.86                         | 54            |
| 56.           | Burdette Trice .....       | Oklahoma Exp. Sta., Stillwater, Okla. .... | 239.7           | 817.7 | 1                 | 29.4    | 82                                            | 62.91                         | 40            |

Cotton Variety Tests in Oklahoma

The average results of tests with twelve of the leading varieties grown on the Oklahoma Experiment Station for the six year period, 1918-1924, is given in Table II. In this table the average yield is low compared with the 1924 yields and the average price is perhaps slightly more. These results show Oklahoma Triumph 44 (a selected and pedigreed strain of the old Mebane Triumph), Trice, and Acala to have the highest money value for the last six years.

TABLE II

Six years' average (1918-1924); yield, length of staple, linting percent, size of bolls, strength of lint, price per pound, money value per acre, and relative rank of twelve leading varieties of cotton grown on the Oklahoma Experiment Station, Stillwater.

| Variety             | Yield in Pounds of Seed Cotton Per A. | Length of Lint in Inches | Linting Percent | No. Bolls Required to Make 1 Pound of Seed Cotton | Strength of Lint | Price Per Pound, Cents | Money Value Per Acre |        |         | Relative Rank |       |
|---------------------|---------------------------------------|--------------------------|-----------------|---------------------------------------------------|------------------|------------------------|----------------------|--------|---------|---------------|-------|
|                     |                                       |                          |                 |                                                   |                  |                        | Lint                 | Seed   | Total   | Yield         | Value |
| Okla. Tri. 44 ..... | 626.2                                 | 1 1-16                   | 34.7            | 78.9                                              | Med. to Strong   | 25.66                  | \$55.88              | \$8.57 | \$64.45 | 1             | 1     |
| Trice .....         | 571.0                                 | 1                        | 33.7            | 87.7                                              | Med. to Strong   | 25.41                  | 48.95                | 7.95   | 56.90   | 2             | 2     |
| Acala 5 .....       | 471.5                                 | 1 1-16                   | 36.8            | 76.1                                              | Medium           | 26.41                  | 45.90                | 6.25   | 52.15   | 8             | 3     |
| Half and Half ...   | 553.1                                 | 13-16                    | 37.9            | 78.9                                              | Medium           | 21.23                  | 44.61                | 7.20   | 51.81   | 3             | 4     |
| Bennett's .....     | 481.4                                 | 1 1-16                   | 36.6            | 69.2                                              | Med. to Strong   | 25.73                  | 45.38                | 6.41   | 51.79   | 5             | 5     |
| Lone Star .....     | 454.4                                 | 1 1-16                   | 36.4            | 69.8                                              | Strong           | 27.08                  | 44.83                | 6.07   | 50.90   | 11            | 6     |
| Mebane .....        | 475.9                                 | 1                        | 34.6            | 66.0                                              | Strong           | 24.48                  | 40.34                | 6.53   | 46.87   | 7             | 7     |
| Cook's Improved     | 479.1                                 | 1                        | 34.9            | 82.6                                              | Med. to Strong   | 23.94                  | 40.05                | 6.55   | 46.60   | 6             | 8     |
| King .....          | 486.9                                 | 15-16                    | 33.9            | 91.3                                              | Medium           | 23.30                  | 38.51                | 6.75   | 45.26   | 4             | 9     |
| Express .....       | 470.2                                 | 1 1-8                    | 28.6            | 84.6                                              | Medium           | 28.08                  | 37.84                | 7.04   | 44.88   | 9             | 10    |
| Cleveland           |                                       |                          |                 |                                                   | Weak to Medium   | 24.26                  | 37.51                | 6.49   | 44.00   | 10            | 11    |
| Big Boll .....      | 463.5                                 | 15-16                    | 33.3            | 78.7                                              | Medium           | 24.26                  | 37.51                | 6.49   | 44.00   | 10            | 11    |
| Rowden .....        | 397.4                                 | 1                        | 32.5            | 68.7                                              | Strong           | 25.12                  | 32.48                | 5.63   | 38.11   | 12            | 12    |

The cooperative tests have been conducted on a practical plan by taking them to the farmer on his own farm. The A. and M. College furnishes the seed of the different varieties so that each will be alike in the different places and the tests will be comparable. These are called Cooperative Tests, because the county agent, the farmer and the Oklahoma Experiment Station all work together to find the value of the different varieties in the community. The seed of the different varieties are planted in each test side by side on the same date, and on the same kind of soil. It is all cultivated in the same manner, and, in fact, all the farm operations are the same for all varieties. Each variety was picked and weighed separately and samples sent to the A. and M. College to be ginned, measured, and complete records up to value per acre made for each variety.

Table No. III shows the total acre yield of each of the ten varieties grown in the tests in 1924. Eight tests were completed in Eastern Oklahoma, and the same number in Western Oklahoma, which give some interesting comparisons between these two sections of the state. Some of these tests were grown under very favorable environment while others were grown under droughty conditions, and on poor soil, but in all cases the varieties in any one place were all produced under the same conditions, and were comparable in nearly all cases.

Table No. IV gives the results of the sixteen tests as to dollars per acre for seed and lint, after taking into consideration the yield, linting percent, and length of lint, as they affected the price. The price used was the average price paid for cotton in Oklahoma during the 1924 season, up to January 1, 1925. This was found to be twenty-two cents per pound for middling cotton with lint of one inch staple, and thirty-five dollars a ton for cotton seed.

It is interesting to note that the medium sized boll and fairly early varieties hold first place in money value per acre for seed and lint. The large balled varieties are late in maturing and made a lower yield than did the medium to early varieties, although the climatic conditions of the season of 1924 were favorable for late varieties, due to the late dry fall.

## Eastern Oklahoma

Table III—Total Yield Per Acre

| County Agent                       | Cooperator             | Address         | Check Lbs. | Acala Lbs. | Improved Mebane Lbs. | Okla. Tri. 44, Lbs. | Triumph 406, Lbs. | Half and Half Lbs. | Check Lbs. | New Boykin Lbs. |
|------------------------------------|------------------------|-----------------|------------|------------|----------------------|---------------------|-------------------|--------------------|------------|-----------------|
| J. B. Hill .....                   | S. A. Palmer .....     | Ada .....       | 501.7      | 452.4      | 439                  | 533.1               | 474.9             | 551                | 569        | 497.3           |
| Carl West .....                    | A. L. Bennett .....    | Howe .....      |            | 1614.4     | 1777.3               | 1643.9              | 2029              | 2369.6             | 2014.2     | 2280.7          |
| Shawnee Brown .....                | Chas. E. Pittman ..... | Idabel .....    |            | 940        | 1020                 | 1350                | 1110              | 1150               |            | 1040            |
| G. B. Dunlap .....                 | O. R. Denton .....     | Durant .....    |            | 636.8      | 422.1                | 903.4               | 577.6             | 666.5              |            | 733.1           |
| F. C. Higginbotham .....           | E. H. Houston .....    | McAlester ..... | 737        | 748        | 801.5                | 760.4               | 739.8             | 793.2              | 665.9      | 772.7           |
| H. L. Bankhead .....               | J. H. Layman .....     | Hanna .....     |            | 1464.3     | 1098.2               | 1830.4              | 1659.5            | 2299.5             | 2025.6     | 1976.8          |
| H. L. Bankhead .....               | W. H. Mathis .....     | Checotah .....  |            | 1368.1     | 1029.5               | 1610.1              | 1333.7            | 1679.1             | 1340.5     | 1354.3          |
| A. L. Edmiaston .....              | C. T. McDonald .....   | Hugo .....      |            | 308        | 360                  | 495                 | 240               | 253                |            | 484             |
| Average for Eastern Oklahoma ..... |                        |                 |            | 914.5      | 868.5                | 1140.78             | 1020.56           | 1220.23            |            | 1142.36         |
| Relative Rank .....                |                        |                 |            | (6)        | (8)                  | (3)                 | (4)               | (1)                |            | (2)             |

Table III Continued.

| County Agent                       | Cooperator             | Address         | Rowden Lbs. | Bennett Lbs. | Lone Star Lbs. | Trice Lbs. | Express Lbs. | River-crest Lbs. | Check Lbs. |
|------------------------------------|------------------------|-----------------|-------------|--------------|----------------|------------|--------------|------------------|------------|
| J. B. Hill .....                   | S. A. Palmer .....     | Ada .....       | 443.5       | 412.2        | 479.3          | 483.8      |              |                  | 582.5      |
| Carl West .....                    | A. L. Bennett .....    | Howe .....      | 1569.9      | 1347.8       | 1747.7         | 2191.9     |              |                  |            |
| Shawnee Brown .....                | Chas. E. Pittman ..... | Idabel .....    | 900         | 1070         | 1050           | 980        |              |                  |            |
| G. B. Dunlap .....                 | O. R. Denton .....     | Durant .....    | 555.4       | 451.7        | 636.8          |            |              | 540.6            |            |
| F. C. Higginbotham .....           | E. H. Houston .....    | McAlester ..... | 493.2       | 678.2        | 756.3          |            | 575.4        |                  | 678.2      |
| H. L. Bankhead .....               | J. H. Layman .....     | Hanna .....     | 1122.6      | 1269.1       | 1122.6         |            | 1976.8       |                  |            |
| H. L. Bankhead .....               | W. H. Mathis .....     | Checotah .....  | 1091.8      | 1008.8       | 1085           |            | 1091.8       |                  |            |
| A. L. Edmiaston .....              | C. T. McDonald .....   | Hugo .....      | 483         | 367          | 198            | 297        |              |                  |            |
| Average for Eastern Oklahoma ..... |                        |                 | 832.42      | 825.6        | 884.46         | 989.17     |              |                  |            |
| Relative Rank .....                |                        |                 | (9)         | (10)         | (7)            | (5)        |              |                  |            |



Table III Continued Western Oklahoma

| County Agent         | Cooperator           | Address          | Check Lbs. | Acala Lbs. | Improved Mebane Lbs. | Okla. Tri. 44, Lbs. | Triumph 406, Lbs. | Half and Half Lbs. | Check Lbs. | New Boykin Lbs. |
|----------------------|----------------------|------------------|------------|------------|----------------------|---------------------|-------------------|--------------------|------------|-----------------|
| Ben Harrison .....   | J. E. Ashley .....   | Duncan .....     | 839.5      | 859.3      | 790.2                | 977.8               | 898.8             | 1027.2             | 859.3      | 730.9           |
| M. C. Ferguson ..... | S. C. Norvell .....  | Pauls Val. ....  |            | 490        | 630                  | 1323                | 959               | 1470               | 1407       | 1155            |
| J. B. Hurst .....    | Lon Bassett .....    | Tuttle .....     | 746.8      | 730.2      | 497.8                | 746.7               | 555.9             | 813.1              | 755.1      | 605.7           |
| L. E. Nutter .....   | J. M. Rodgers .....  | Anadarko .....   | 600        | 640        | 720                  | 672                 | 640               | 600                | 600        | 608             |
| B. F. Markland ..... | H. H. Finnell .....  | Goodwell .....   | 205.9      | 271        | 212.1                | 303                 | 85.3              | 51.2               | 191.2      | 68.8            |
| Teague Fisher .....  | Ben Crawford .....   | Olustee .....    | 800        | 660        | 710                  | 900                 | 940               | 1070               | 760        | 1250            |
| C. H. Guernsey ..... | Okla. Exp. Sta. .... | Stillwater ..... | 846        | 828.4      | 673.3                | 1001.1              | 740.4             | 923.5              | 881.3      | 747.3           |
| J. P. Gray .....     | W. W. Worthington .. | Mangum .....     | 269        | 277.5      | 224.5                | 331.5               | 305.1             | 336.8              |            | 290.8           |
| Average for Western  | Oklahoma .....       |                  |            | 594.6      | 557.2                | 781.88              | 640.56            | 786.47             |            | 682.06          |
| Relative Rank .....  |                      |                  |            | (8)        | (10)                 | (3)                 | (5)               | (2)                |            | (4)             |
| Average for Whole    | State .....          |                  |            | 768        | 712.8                | 961.33              | 830.56            | 1003.35            |            | 912.21          |
| Relative Rank .....  |                      |                  |            | (6)        | (9)                  | (2)                 | (5)               | (1)                |            | (3)             |

Table III Continued

| County Agent         | Cooperator           | Address            | Rowden Lbs. | Bennett Lbs. | Lone Star Lbs. | Trice Lbs. | Express Lbs. | Rivercrest Lbs. | Check Lbs. |
|----------------------|----------------------|--------------------|-------------|--------------|----------------|------------|--------------|-----------------|------------|
| Ben Harrison .....   | J. E. Ashley .....   | Duncan .....       | 553.1       | 721.1        | 691.4          | 839.5      |              |                 | 770.4      |
| M. C. Ferguson ..... | S. C. Norvell .....  | Pauls Valley ..... | 1400        | 987          | 805            | 1204       |              |                 |            |
| J. B. Hurst .....    | Lon Bassett .....    | Tuttle .....       | 348.5       | 326.6        | 398.3          |            |              | 414.9           | 738.5      |
| L. E. Nutter .....   | J. M. Rodgers .....  | Anadarko .....     | 800         | 576          | 836            |            |              | 672             | 608        |
| B. F. Markland ..... | H. H. Finnell .....  | Goodwell .....     | 138.1       | 112          | 101.8          | 278        | 162.5        | 154.3           | 182.5      |
| Teague Fisher .....  | Ben Crawford .....   | Olustee .....      | 800         | 870          | 1200           |            |              | 940             | 1070       |
| C. H. Guernsey ..... | Okla. Exp. Sta. .... | Stillwater .....   | 715.6       | 719          | 761.4          | 891.8      | 881.3        | 571             | 697.9      |
| J. P. Gray .....     | W. W. Worthington .. | Mangum .....       | 290.8       | 221.8        | 287.6          |            |              | 226.2           | 247.6      |
| Average for Western  | Oklahoma .....       |                    | 630.76      | 566.31       | 635.18         | 803.32     |              | 496.4           |            |
| Relative Rank .....  |                      |                    | (7)         | (9)          | (6)            | (1)        |              | (11)            |            |
| Average for Whole    | State .....          |                    | 731.59      | 695.95       | 759.82         | 895.24     |              |                 |            |
| Relative Rank .....  |                      |                    | (8)         | (10)         | (7)            | (4)        |              |                 |            |

Cotton Variety Tests in Oklahoma

## Eastern Oklahoma

Table IV—Money Value Per Acre

| County Agent                               | Cooperator             | Address         | Check<br>(Dollars) | Acala<br>(Dollars) | Improved<br>Mebane<br>(Dollars) | Okla. Tri.<br>44<br>(Dollars) | Triumph<br>406<br>(Dollars) | Half and<br>Half<br>(Dollars) | Check<br>(Dollars) | New<br>Boykin<br>(Dollars) |
|--------------------------------------------|------------------------|-----------------|--------------------|--------------------|---------------------------------|-------------------------------|-----------------------------|-------------------------------|--------------------|----------------------------|
| J. B. Hill .....                           | S. A. Palmer .....     | Ada .....       | 35.11              | 39.95              | 50.38                           | 44.64                         | 45.39                       | 46.84                         | 48.35              | 42.16                      |
| Carl West .....                            | A. L. Bennett .....    | Howe .....      |                    | 148.67             | 162.66                          | 138.32                        | 174.26                      | 216.19                        | 205.03             | 208.49                     |
| Shawnee Brown .....                        | Chas. E. Pittman ..... | Idabel .....    |                    | 83.97              | 100.05                          | 124.99                        | 105.69                      | 103.76                        |                    | 95.76                      |
| G. B. Dunlap .....                         | O. R. Denton .....     | Durant .....    |                    | 55.37              | 39.75                           | 76.39                         | 49.13                       | 55.12                         |                    | 63.06                      |
| F. C. Higginbotham .....                   | E. H. Houston .....    | McAlester ..... | 70.47              | 66.89              | 73.04                           | 73.30                         | 72.35                       | 68.16                         | 54.10              | 71.93                      |
| H. L. Bankhead .....                       | J. H. Layman .....     | Hanna .....     |                    | 102.75             | 110.94                          | 162.94                        | 157.49                      | 202.03                        | 141.79             | 202.73                     |
| H. L. Bankhead .....                       | W. H. Mathis .....     | Checotah .....  |                    | 116.20             | 96.06                           | 135.16                        | 126.29                      | 157.67                        | 89.81              | 120.94                     |
| A. L. Edmiaston .....                      | C. T. McDonald .....   | Hugo .....      |                    | 25.10              | 32.24                           | 41.43                         | 20.12                       | 21.62                         |                    | 44.15                      |
| Average for Eastern<br>Relative Rank ..... | Oklahoma .....         | .....           |                    | 79.86<br>(7)       | 83.14<br>(5)                    | 99.89<br>(3)                  | 93.84<br>(4)                | 108.92<br>(1)                 |                    | 106.15<br>(2)              |

Table IV Continued

| County Agent                               | Cooperator             | Address         | Rowden<br>(Dollars) | Bennett<br>(Dollars) | Lone<br>Star<br>(Dollars) | Trice<br>(Dollars) | Express<br>(Dollars) | River-<br>crest<br>(Dollars) | Check<br>(Dollars) |
|--------------------------------------------|------------------------|-----------------|---------------------|----------------------|---------------------------|--------------------|----------------------|------------------------------|--------------------|
| J. B. Hill .....                           | S. A. Palmer .....     | Ada .....       | 36.86               | 39.39                | 44.17                     | 39.67              |                      |                              | 40.77              |
| Carl West .....                            | A. L. Bennett .....    | Howe .....      | 126.41              | 148.50               | 144.39                    | 162.81             |                      |                              |                    |
| Shawnee Brown .....                        | Chas. E. Pittman ..... | Idabel .....    | 76.36               | 105.40               | 95.33                     | 82.07              |                      |                              |                    |
| G. B. Dunlap .....                         | O. R. Denton .....     | Durant .....    | 47.71               | 38.36                | 44.90                     |                    |                      | 39.18                        |                    |
| F. C. Higginbotham .....                   | E. H. Houston .....    | McAlester ..... | 44.99               | 53.64                | 65.62                     |                    | 46.35                |                              | 66.41              |
| H. L. Bankhead .....                       | J. H. Layman .....     | Hanna .....     | 98.62               | 144.37               | 111.52                    |                    | 180.01               |                              |                    |
| H. L. Bankhead .....                       | W. H. Mathis .....     | Checotah .....  | 90.10               | 91.75                | 93.51                     |                    | 122.31               |                              |                    |
| A. L. Edmiaston .....                      | C. T. McDonald .....   | Hugo .....      | 43.25               | 32.56                | 17.17                     | 20.44              |                      |                              |                    |
| Average for Eastern<br>Relative Rank ..... | Oklahoma .....         | .....           | 70.53<br>(10)       | 81.74<br>(6)         | 77.06<br>(8)              | 76.24<br>(9)       |                      |                              |                    |

Table IV Continued Western Oklahoma

| County Agent        | Cooperator        | Address    | Check (Dollars) | Acala (Dollars) | Improved Mebane (Dollars) | Okla. Tri. 44 (Dollars) | Triumph 406 (Dollars) | Half and Half (Dollars) | Check (Dollars) | New Boykin (Dollars) |
|---------------------|-------------------|------------|-----------------|-----------------|---------------------------|-------------------------|-----------------------|-------------------------|-----------------|----------------------|
| Ben Harrison        | J. E. Ashley      | Duncan     | 84.89           | 74.61           | 59.91                     | 80.76                   | 79.78                 | 85.31                   | 53.70           | 55.97                |
| M. C. Ferguson      | S. C. Norvell     | Pauls Val. |                 | 54.46           | 54.65                     | 103.63                  | 79.59                 | 128.34                  | 89.86           | 98.18                |
| J. B. Hurst         | Lon Bassett       | Tuttle     | 52.27           | 67.78           | 44.98                     | 64.87                   | 50.51                 | 71.10                   | 52.86           | 56.94                |
| L. E. Nutter        | J. M. Rodgers     | Anadarko   | 42.00           | 65.51           | 73.80                     | 59.92                   | 58.68                 | 49.28                   | 42.00           | 56.04                |
| B. F. Markland      | H. H. Finnell     | Goodwell   | 14.41           | 18.97           | 15.22                     | 23.55                   | 6.23                  | 4.50                    | 13.38           | 7.11                 |
| Teague Fisher       | Ben Crawford      | Olustee    | 77.59           | 61.83           | 65.19                     | 68.26                   | 87.83                 | 86.85                   | 59.89           | 112.82               |
| C. H. Guernsey      | Okla. Exp. Sta.   | Stillwater | 76.45           | 97.01           | 61.74                     | 87.42                   | 67.80                 | 76.90                   | 79.07           | 70.70                |
| J. P. Gray          | W. W. Worthington | Mangum     | 18.83           | 24.51           | 19.94                     | 29.35                   | 26.82                 | 31.75                   |                 | 24.87                |
| Average for Western | Oklahoma          |            |                 | 58.08           | 49.42                     | 64.72                   | 57.15                 | 66.75                   |                 | 60.32                |
| Relative Rank       |                   |            |                 | (5)             | (9)                       | (2)                     | (6)                   | (1)                     |                 | (4)                  |
| Average for Whole   | State             |            |                 | 68.97           | 66.28                     | 82.29                   | 75.49                 | 87.83                   |                 | 82.73                |
| Relative Rank       |                   |            |                 | (5)             | (8)                       | (3)                     | (4)                   | (1)                     |                 | (2)                  |

Table IV Continued

| County Agent        | Cooperator        | Address      | Rowden (Dollars) | Bennett (Dollars) | Lone Star (Dollars) | Trice (Dollars) | Express (Dollars) | River-crest (Dollars) | Check (Dollars) |
|---------------------|-------------------|--------------|------------------|-------------------|---------------------|-----------------|-------------------|-----------------------|-----------------|
| Ben Harrison        | J. E. Ashley      | Duncan       | 48.88            | 64.54             | 52.60               | 66.43           |                   |                       |                 |
| M. C. Ferguson      | S. C. Norvell     | Pauls Valley | 109.06           | 83.90             | 71.32               | 88.99           |                   |                       |                 |
| J. B. Hurst         | Lon Bassett       | Tuttle       | 33.40            | 28.91             | 33.99               |                 |                   | 35.27                 | 51.69           |
| L. E. Nutter        | J. M. Rodgers     | Anadarko     | 69.49            | 41.62             | 73.21               |                 |                   | 64.90                 | 42.56           |
| B. F. Markland      | H. H. Finnell     | Goodwell     | 10.09            | 7.77              | 7.49                | 18.94           | 10.64             | 11.34                 | 12.78           |
| Teague Fisher       | Ben Crawford      | Olustee      | 70.30            | 69.45             | 111.90              |                 | 84.44             |                       | 103.23          |
| C. H. Guernsey      | Okla. Exp. Sta.   | Stillwater   | 63.82            | 67.88             | 71.68               | 71.63           | 83.35             | 59.18                 | 61.10           |
| J. P. Gray          | W. W. Worthington | Mangum       | 25.74            | 18.02             | 24.56               |                 |                   | 19.31                 | 17.33           |
| Average for Western | Oklahoma          |              | 53.84            | 47.76             | 55.84               | 61.49           |                   | 38.00                 | 48.94           |
| Relative Rank       |                   |              | (8)              | (10)              | (7)                 | (3)             |                   |                       |                 |
| Average for Whole   | State             |              | 62.18            | 64.75             | 66.45               | 68.86           |                   |                       |                 |
| Relative Rank       |                   |              | (10)             | (9)               | (7)                 | (6)             |                   |                       |                 |

Cotton Variety Tests in Oklahoma

During the three year period, 1922-1924, the Oklahoma Experiment Station conducted 36 cooperative tests in various parts of the state. The results of the ten varieties that were included two or more years in these tests are shown in Table V.

**Table V—Three Years' Results With Cooperative Cotton Tests in Different Localities in Oklahoma**

| Variety                   | No. of Tests | Money Value Per A.       |                           |                             | Aver. Money Value Per A. |                    |
|---------------------------|--------------|--------------------------|---------------------------|-----------------------------|--------------------------|--------------------|
|                           |              | Seven Localities in 1922 | Eleven Localities in 1923 | Eighteen Localities in 1924 | 2 Years, 1923-1924       | 3 Years, 1922-1924 |
| Okla. Tri. 44 .....       | 38           | 53.47                    | 55.27                     | 79.57                       | 67.42                    | 62.77              |
| Acala 5 .....             | 36           | 42.13                    | 54.08                     | 69.93                       | 62.00                    | 53.38              |
| Lone Star .....           | 38           | 31.23                    | 45.39                     | 64.27                       | 48.30                    | .....              |
| Rowden .....              | 31           | 54.98                    | 42.00                     | 60.95                       | 51.47                    | 52.64              |
| Trice .....               | 35           | 27.18                    | 46.09                     | 68.86                       | 57.47                    | 47.36              |
| Rivercrest .....          | 33           | 37.43                    | 50.55                     | 41.19                       | 45.87                    | 46.96              |
| Improved Mebane .....     | 30           | .....                    | 55.47                     | 64.26                       | 59.86                    | 43.06              |
| Ferguson's Tri. 406 ..... | 29           | .....                    | 48.83                     | 73.29                       | 51.06                    | .....              |
| Express .....             | 15           | .....                    | 36.31                     | 87.84                       | 56.92                    | .....              |
| King's Improved .....     | 18           | 44.92                    | 36.00                     | .....                       | 41.46                    | .....              |

In considering the value of varieties over a number of years, the medium staple varieties have shown up well and been the best producers from the money value per acre standpoint. Some strain or selection from the old type of Mebane or the Acala are cottons that can be depended upon under ordinary conditions and times to be most profitable for the farmer. Under no conditions is it advisable to plant late or untried varieties of cotton.

The Oklahoma Experiment Station at Stillwater has made a considerable study of varieties adapted to the different sections of the state, and is in position to advise regarding seed and the source of pure seed.



