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NORTH CAROLINA

MEASURED CROP PERFORMANCE

SOYBEAN AND COTTON 1998

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Official Variety Testing

Department of Crop Science

North Carolina State University

Raleigh, North Carolina 27695-8604

Crop Science Research Report No. 176
December, 1998
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PERFORMANCE OF SOYBEAN AND COTTON
IN NORTH CAROLINA

INTRODUCTION

With the large number of commercially available and prospective hybrids and varieties of soybean and cotton, it becomes difficult for growers to select a superior variety suited for their particular area of the state and their individual farming operations. To make this decision, the growers need up-to-date, unbiased, reliable information. The Official Variety Testing Program, through this report, seeks to provide that type of information.1

The first section of this report is concerned with soybean and the second section deals with cotton. Both sections are complete in that they contain information on experimental procedure, location of the tests (Figure 1), a discussion of the data for 1998,2 as well as summary tables for the past two and three years.

It is hoped that the organization of this bulletin will provide data in a complete form to those interested in these two crops.

Growers are cautioned against making varietal selection decisions based on an individual location in any one year. True varietal performance may have been masked by the unusual weather conditions experienced at any one location or any one growing season.

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1 The Official Variety Testing Program recognizes the cooperative spirit and civic-minded service rendered by the farmers who have furnished, prepared, and cultivated the land for these trials. Research technicians, Phil Johnson, Dwight Parrish, Ken Barnes, and Johnny Denton, assisted in conducting these tests. Jane Dove Long prepared the text for this bulletin.

2 Statistical analyses were made in the Statistical Laboratory and Computing Center by Mrs. Sandra Donaghy and Mrs. Joy Smith.
**Comparing Hybrids and Varieties**

Performance of a hybrid or variety cannot be tested with absolute precision. Although the tests are conducted in a uniform manner, as much as possible, uncontrollable variability exists among experimental plots due to soil type, fertility, moisture, insects, diseases, and other sources of variation. Because this variability exists, statistics are used as a tool to determine differences among hybrids and varieties. The size of difference among hybrids or varieties which may have been due to chance variation is listed in each table as the L.S.D. (least significant difference) are those hybrids or varieties which do not differ by more than the L.S.D. are statistically not different. Those hybrids or varieties that do differ by more than the L.S.D. are statistically different. The Bayes L.S.D. at the K-ratio of 50 (approximately .10 level of probability) was used.

The coefficient of variability (C.V.) is listed as a general indicator of population variability; it does not, however, always indicate level of precision. The coefficient of determination ($R^2$) is a better measure of the level of precision because it indicates the amount of variation accounted for in the trial. The higher the $R^2$ value the more precise the trial. Thus, relative precision among various trials can be compared. The standard error of the mean (s.e.) is also listed as a general indicator of precision since it reveals how well the true mean was estimated. The formula for the s.e. is the square root of the error variance divided by the square root of the number of replicates. The error degree of freedom (Error d.f.) used to test varieties or hybrids is listed along with the mean of the test.

Hybrid or varietal performance may appear inconsistent among locations within an area or among years in a particular area, thus it is important
for the reader to examine results from more than one location or more than one year at a particular location to obtain a more accurate picture of relative hybrid or varietal performance. Individual location data are not reported for soybean. An effort has been made to facilitate comparisons across locations and across years in this report.

The hybrids or varieties which do not yield significantly less than the highest yielder are denoted by an asterisk (*) next to their yields; the highest yielder is denoted by a double asterisk (**) next to its yield. Other agronomic characteristics may be as equally important as yield.

It is suggested that the grower plant a small number of acres in a new variety or hybrid when first determining if it is adapted to his/her farm. Research conducted at North Carolina State University and several other universities has consistently shown a significant yield advantage where professionally grown/certified seed is used rather than "farmer saved" or "brown bagged" seed. These tests were planted with professionally grown/certified seed provided by the sponsoring agencies. Farmers who use inferior seed sources can expect accompanying decreases in performance.
LOCATION OF OFFICIAL VARIETY TESTS

*COTTON
+SOYBEAN
Soybean

Bertie County, Peanut Belt Research Station, Lewiston, NC.
Steve Barnes, Superintendent.

Columbus County, Border Belt Tobacco Research Station, Whiteville, NC
Ty Marshall, Superintendent.

Sampson County, Horticultural Crops Research Station, Clinton, NC
Jimmie Prince, Superintendent.

Stanly County, Windell Talley, PO Box 157, Stanfield, NC
Agricultural Extension Agent, James Monroe, cooperating.

Washington County, Tidewater Research Station, Plymouth, NC
John Smith, Superintendent.

Late Soybean Test After Small Grain

Beaufort County, Circle Groves Farms, PO Box 339, Belhaven, NC 27810
Agricultural Extension Agent, Gaylon Ambrose, cooperating.

Lenoir County, Lower Coastal Plain Research Station, Kinston, NC
Sandy Barnes, Superintendent.

Rowan County, Piedmont Research Station, Salisbury, NC
Raymond Coltrain, Superintendent.

Washington County, Tidewater Research Station, Plymouth, NC
John Smith, Superintendent.

Cotton

Bertie County, Peanut Belt Research Station, Lewiston, NC,
Steve Barnes, Superintendent.

Edgecombe County, Upper Coastal Plain Research Station, Rocky Mount, NC
Clyde Bogle, Superintendent

Johnston County, Central Crops Research Station, Clayton, NC
George Clark, Superintendent.

Scotland County, T. G. Gibson, PO Box 165, Gibson, NC
Agricultural Extension Agent, Dave Morrison, cooperating.

Stanly County, Doug Bowers, 20174 St. Martin Rd., Albemarle, NC
Agricultural Extension Agent, James Monroe, cooperating
SOYBEAN

There are many high-yielding soybean varieties available to the producer from which he may choose according to desired maturity date, lodging, pest resistance, etc. Information on the performance of commercial varieties and experimental lines grown in different locations in the state is provided in this report.

Entries: Experimental lines and commercial varieties developed by both public and private agencies are included in this program. Any individual or firm may make application for having entries included. A fee is charged on any entry basis. Personnel of the testing program may include entries about which further information is desired. Agencies sponsoring entries in these tests and their contact person, address, and entry designation are listed below.

Table 1. Name, contact person, and addresses of sponsoring agencies in the 1998 North Carolina Soybean Performance Trials along with designation used to identify the varieties in the trials.

<table>
<thead>
<tr>
<th>Agency and Contact Person</th>
<th>Address</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asgrow Seed Company</td>
<td>PO Box 359</td>
<td>Asgrow</td>
</tr>
<tr>
<td>Tom Butler</td>
<td>Marion, AR 72364</td>
<td></td>
</tr>
<tr>
<td></td>
<td>870-739-4431</td>
<td></td>
</tr>
<tr>
<td>DeKalb Genetics Corp</td>
<td>3100 Sycamore Road</td>
<td>DeKalb DGC</td>
</tr>
<tr>
<td>Diane Freeman</td>
<td>DeKalb, IL 60115</td>
<td></td>
</tr>
<tr>
<td></td>
<td>815-758-3461</td>
<td></td>
</tr>
<tr>
<td>Delhi Seed Company</td>
<td>Box 176, Hwy. 17 North</td>
<td>Buckshot</td>
</tr>
<tr>
<td>Dick Landrum</td>
<td>Delhi, LA 71232</td>
<td></td>
</tr>
<tr>
<td></td>
<td>318-878-9031</td>
<td></td>
</tr>
<tr>
<td>Delta King Seed Co.</td>
<td>PO Box 970</td>
<td>Delta King</td>
</tr>
<tr>
<td>Randy Currier</td>
<td>McCrory, AR 72101</td>
<td></td>
</tr>
<tr>
<td></td>
<td>870-731-5484</td>
<td></td>
</tr>
<tr>
<td>Delta &amp; Pine Land Co.</td>
<td>PO Box 157</td>
<td>Deltapine</td>
</tr>
<tr>
<td>Dru Rush</td>
<td>Scott, MS 38772</td>
<td></td>
</tr>
<tr>
<td></td>
<td>334-867-3419</td>
<td></td>
</tr>
<tr>
<td>Hornbeck Seed Company</td>
<td>PO Box 347</td>
<td>HBK</td>
</tr>
<tr>
<td>James Thomas</td>
<td>210 Drier Road</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DeWitt, AR 72042</td>
<td></td>
</tr>
<tr>
<td></td>
<td>870-946-2087</td>
<td></td>
</tr>
<tr>
<td>Agri Pro Seeds, Inc.</td>
<td>6075 Poplar Ave</td>
<td>Agripro</td>
</tr>
<tr>
<td>Al Hoggard</td>
<td>Suite 435</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Memphis, TN 38119</td>
<td></td>
</tr>
<tr>
<td></td>
<td>901-537-8640</td>
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</table>
Table 2. Soybean public varieties.

<table>
<thead>
<tr>
<th>State</th>
<th>Responsible For Development</th>
<th>Variety</th>
</tr>
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<tbody>
<tr>
<td>Alabama</td>
<td>Carver</td>
<td></td>
</tr>
<tr>
<td>Georgia</td>
<td>Cook</td>
<td></td>
</tr>
<tr>
<td>Missouri</td>
<td>Delsoy 5500, Delsoy 5710</td>
<td></td>
</tr>
<tr>
<td>North Carolina</td>
<td>Brim, Clifford, Young,</td>
<td></td>
</tr>
<tr>
<td>South Carolina</td>
<td>Dillon, Musen, Motte, SC 87-119, SC 89-147, SC 91-2007</td>
<td></td>
</tr>
<tr>
<td>Tennessee</td>
<td>TN 4-94, TN.4-86, TN 6-90, TN 5-95, TN experimental</td>
<td></td>
</tr>
<tr>
<td>Virginia</td>
<td>Hutcheson, Essex, VA experimental</td>
<td></td>
</tr>
</tbody>
</table>

**Test Locations:** Five full season tests were located in the Coastal Plain with one in the Piedmont; three late-planted tests were located also in the Coastal Plain and one in the Piedmont.

**Data:** Data collected on yield, moisture, lodging, pod maturity, and plant height. Yields were calculated on plot weight and adjusted to 14% moisture. Lodging was scored on a scale of 1-5 with "1" being no lodging and "5" being completely lodged before harvest; this does not
necessarily reflect harvest loss. Plant height was determined by measuring from the ground to the top of the plant prior to harvest. Pod maturity data is the date when 95% of the pods turn brown; soybeans should be ready to harvest 10 days after this date given optimum harvest conditions. The pod maturity data were taken at Johnston county where the soybeans were planted on June 12.

**Seasonal Conditions:** Planting for the full-season trials was slightly delayed due wet soils at some locations; late-planted trials were planted on time; harvest of all trials was early (Table 3 and accompanying weather graphs). Below-normal rainfall was experienced in July and early August during flowering at nearly all locations. Temperatures (heat units) were above average for most of the season. Below-normal rainfall was experienced at all locations in September and October. A killing frost was experienced at most locations in late October. An infestation of lesser corn stalk borer resulted in a total loss of the test at Sampson county.

**Results:** Soil test results are shown in Table 4. Data are shown by maturity group with maturity group IV in Tables 5-10, maturity group V in Tables 11-18, maturity group VI in Tables 19-24, and maturity groups VII-VIII in Tables 25-30. Maturity group IV soybean were only planted at Stanly and Washington counties so Tables 6, 8 and 10 reflect data averaged across both locations.

Roundup-ready variety data are shown in Tables 9, 10, 15, 16, 21, 22, 27, and 28. The roundup-ready trials were only planted in the six full-season locations. A few roundup-ready varieties are also included in the conventional tests for comparison purposes.

For those who wish to compare a roundup-ready variety, for example, with a conventional variety one may only do so by examining the relative
performance to a common variety. For example, Pioneer 95B71RR is in both the conventional test (Table 14) and the roundup test (Table 16); if one wishes to compare Hartz H5350RR with Hutcheson then compute the relative performance of each to Pioneer 95B71RR. Thus Hutcheson performed 7% better than Hartz H5350RR ignoring herbicide considerations.

**Interpreting Data:** Research has shown that the best data to use in selecting varieties are two-year multi-location data, e.g. Tables 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, and 29.
<table>
<thead>
<tr>
<th>Location</th>
<th>Row Width (inches)</th>
<th>Fertilizer</th>
<th>Soil Type</th>
<th>Date of Planting</th>
<th>Date of Harvest+</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EARLY PLANTED TESTS</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bertie</td>
<td>36</td>
<td>MN 4lb.</td>
<td>Lynchburg fine sandy loam</td>
<td>22 May</td>
<td>2 Nov</td>
</tr>
<tr>
<td>Columbus</td>
<td>36</td>
<td>300</td>
<td>Norfolk fine sandy loam</td>
<td>21 May</td>
<td>19 Oct (V, VRR, VIRR)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5-10-30</td>
<td></td>
<td></td>
<td>29 Oct (VI, VII, VIIRR)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MN 3lb.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edgecombe</td>
<td>36</td>
<td>300</td>
<td>Norfolk loamy sand</td>
<td>20 May</td>
<td>9 Nov</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5-10-10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stanly</td>
<td>Drilled 7 1/2</td>
<td></td>
<td>Badin</td>
<td>29 May</td>
<td>14 Oct (IV)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28 Oct (VE, VL, VRR)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12 Nov (VI, VII, VIIRR)</td>
</tr>
<tr>
<td>Washington</td>
<td>38</td>
<td>200</td>
<td>Hyde slit loam</td>
<td>27 May</td>
<td>14 Oct (IV)</td>
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<tr>
<td>(Group IV)</td>
<td>Drilled 7 1/2</td>
<td></td>
<td></td>
<td></td>
<td>23 Oct (VE, VL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 Oct (VRR, VI, VIRR, VIIRR)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 Nov (VII, VIII)</td>
</tr>
<tr>
<td><strong>LATE PLANTED TESTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Beaufort</td>
<td>30</td>
<td></td>
<td>Mineral</td>
<td>1 July</td>
<td>10 Nov</td>
</tr>
<tr>
<td>Lenoir</td>
<td>38</td>
<td></td>
<td>Norfolk sandy loam</td>
<td>19 June</td>
<td>29 Oct (V, VI)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>13 Nov (VII, VIII)</td>
</tr>
<tr>
<td>Rowan</td>
<td>Drilled 7 1/2</td>
<td></td>
<td>Hiwasee clay</td>
<td>22 Jun</td>
<td>6 Nov</td>
</tr>
<tr>
<td>Washington</td>
<td>38</td>
<td></td>
<td>Cape Fear loam</td>
<td>25 Jun</td>
<td>30 Oct (V)</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>10 Nov (VI, VII, VIII)</td>
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</table>

E=Early Maturing Subgroup  
L=Late Maturing Subgroup
Table 4. Soil test results, soybeans - 1998.

<table>
<thead>
<tr>
<th>Location by county</th>
<th>HM %</th>
<th>W-V</th>
<th>CEC</th>
<th>BS</th>
<th>Ac</th>
<th>pH</th>
<th>P-I</th>
<th>K-I</th>
<th>Ca %</th>
<th>Mg %</th>
<th>Mn-I</th>
<th>Zn-I</th>
<th>Cu-I</th>
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<tbody>
<tr>
<td><strong>Early Planted</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bertie</td>
<td>0.86</td>
<td>1.33</td>
<td>5.9</td>
<td>81</td>
<td>1.1</td>
<td>5.7</td>
<td>52</td>
<td>50</td>
<td>58.0</td>
<td>18.0</td>
<td>36</td>
<td>93</td>
<td>49</td>
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<tr>
<td>Columbus</td>
<td>0.46</td>
<td>1.36</td>
<td>3.4</td>
<td>76</td>
<td>0.8</td>
<td>5.9</td>
<td>79</td>
<td>49</td>
<td>54.0</td>
<td>16.0</td>
<td>62</td>
<td>43</td>
<td>57</td>
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<tr>
<td>Edgecombe</td>
<td>2.29</td>
<td>1.36</td>
<td>3.5</td>
<td>77</td>
<td>0.8</td>
<td>5.9</td>
<td>73</td>
<td>67</td>
<td>52.0</td>
<td>15.0</td>
<td>61</td>
<td>73</td>
<td>62</td>
</tr>
<tr>
<td>Stanly</td>
<td>0.86</td>
<td>0.94</td>
<td>11.6</td>
<td>81</td>
<td>2.2</td>
<td>6.0</td>
<td>326</td>
<td>94</td>
<td>63.0</td>
<td>13.0</td>
<td>263</td>
<td>545</td>
<td>465</td>
</tr>
<tr>
<td>Washington</td>
<td>4.09</td>
<td>1.21</td>
<td>10.3</td>
<td>86</td>
<td>1.4</td>
<td>5.8</td>
<td>125</td>
<td>63</td>
<td>62.0</td>
<td>21.0</td>
<td>22</td>
<td>85</td>
<td>86</td>
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<tr>
<td><strong>Late Planted</strong></td>
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<td></td>
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</tr>
<tr>
<td>Beaufort</td>
<td>2.22</td>
<td>1.05</td>
<td>7.3</td>
<td>79</td>
<td>1.5</td>
<td>5.8</td>
<td>72</td>
<td>107</td>
<td>57.0</td>
<td>15.0</td>
<td>58</td>
<td>55</td>
<td>45</td>
</tr>
<tr>
<td>Lenoir</td>
<td>0.66</td>
<td>1.25</td>
<td>4.7</td>
<td>87</td>
<td>0.6</td>
<td>6.3</td>
<td>113</td>
<td>81</td>
<td>53.0</td>
<td>26.0</td>
<td>47</td>
<td>192</td>
<td>53</td>
</tr>
<tr>
<td>Rowan</td>
<td>0.18</td>
<td>1.04</td>
<td>8.0</td>
<td>76</td>
<td>1.9</td>
<td>6.2</td>
<td>37</td>
<td>70</td>
<td>47.0</td>
<td>25.0</td>
<td>1333</td>
<td>89</td>
<td>19</td>
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<tr>
<td>Washington</td>
<td>7.21</td>
<td>1.09</td>
<td>10.7</td>
<td>78</td>
<td>2.4</td>
<td>5.3</td>
<td>29</td>
<td>66</td>
<td>54.0</td>
<td>21.0</td>
<td>19</td>
<td>57</td>
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</table>
Bertie Co. Weekly Weather Data
(May - October 1998)
Columbus Co. Weekly Weather Data
(May - October 1998)
Edgecombe Co. Weekly Weather Data
(May - October 1998)

Weekly Max/Min Temperatures (°F)

MAY  JUNE  JULY  AUGUST  SEPTEMBER  OCTOBER

Max Temp
Min Temp
Rainfall
Lenoir Co. Weekly Weather Data
(May - October 1998)

Weekly Max/Min Temperatures (F)

Max Temp - Min Temp - Rainfall

Rainfall (inches)

7 14 21 28 4 11 18 25 2 9 16 23 30 6 13 20 27 3 10 17 24 1 8 15 22 29

MAY JUNE JULY AUGUST SEPTEMBER OCTOBER
Rowan Co. Weekly Weather Data
(May - October 1998)
Sampson Co. Weekly Weather Data
(May - October 1998)

[Graph showing weekly max/min temperatures and rainfall for May to October 1998]
<table>
<thead>
<tr>
<th>BRAND VARIETY OR VARIETY</th>
<th>YIELD</th>
<th>PLANT HEIGHT</th>
<th>LODGING</th>
<th>MATURITY</th>
<th>POD#</th>
</tr>
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<tbody>
<tr>
<td>Hyperformer HY4540</td>
<td>30</td>
<td>1.2</td>
<td>27</td>
<td>10-1</td>
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<tr>
<td>FFR 439</td>
<td>30</td>
<td>1.6</td>
<td>30</td>
<td>10-3</td>
<td></td>
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<tr>
<td>TN 4-86</td>
<td>27</td>
<td>1.8</td>
<td>30</td>
<td>10-1</td>
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</tr>
<tr>
<td><strong>TWO-YEAR AVERAGE - 1997, 1998.</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Pioneer 94B41RR</td>
<td>33</td>
<td>1.0</td>
<td>27</td>
<td>9-29</td>
<td></td>
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#Pod maturity data collected at Johnston county.

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**Highest yielder.**

#Pod maturity data collected at Johnston county from soybean planted June 12, 1998.
TABLE 7. TWO AND THREE YEAR AVERAGE PERFORMANCE OF EARLY-PLANTED
LATE-MATURING GROUP IV SOYBEAN COMBINED OVER LOCATIONS.

<table>
<thead>
<tr>
<th>BRAND VARIETY OR VARIETY</th>
<th>YIELD BU/A</th>
<th>PLANT HEIGHT INCHES</th>
<th>POD# MATURITY</th>
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<td>31</td>
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<td>28</td>
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<td>1.7</td>
<td>31</td>
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<th>YIELD BU/A</th>
<th>PLANT HEIGHT INCHES</th>
<th>POD# MATURITY</th>
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#Pod maturity data collected at Johnston county.
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<tr>
<td>+Mycogen 57474</td>
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**Mean**

| MEAN | 37 |
| R² (%) | 72 |
| BLSD (K-50) | 11 |
| c.v. (%) | 13.6 |
| s.e. | 1.6 |
| Error d.f. | 10 |

** Highest yielder. *Not significantly different from highest yielder. 
+Experimental. Seed of these may or may not be available in 1999 and may have a different designation. 
#Pod maturity data collected at Johnston county from soybean planted June 12, 1998.
<table>
<thead>
<tr>
<th>BRAND VARIETY</th>
<th>YIELD</th>
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<th>PLANT HEIGHT</th>
<th>POD#</th>
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<td>9-30</td>
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#Pod maturity data collected at Johnston county.

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<th>BRAND VARIETY OR VARIETY</th>
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<th>POD#</th>
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<th>MATURITY</th>
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MEAN 41
R² (%) 67
BLSD (K-50) 12
c.v. (%) 12.0
s.e. 1.7
Error d.f. 20

**Highest yielder. *Not significantly different from highest yielder.
+Experimental. Seed of this may or may not be available in 1999 and may have a different designation.
#Pod maturity data collected at Johnston county from soybean planted June 12, 1998.
## TABLE 11. TWO-YEAR AVERAGE PERFORMANCE OF EARLY-PLANTED EARLY-MATURING GROUP V SOYBEAN COMBINED OVER LOCATIONS.

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<td>Clifford</td>
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<td>33</td>
<td>10-16</td>
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<tr>
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<td>10-16</td>
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<tr>
<td>Buckshot 55</td>
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<td>10-15</td>
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#Pod maturity data collected at Johnston county.

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<th>POD# MATURITY DATE</th>
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<tr>
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**MEAN**

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<tr>
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<tr>
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</tr>
<tr>
<td>s.e.</td>
<td>0.7</td>
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<tr>
<td>Error d.f.</td>
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</table>

**Highest yielder. *Not significantly different from highest yielder. +Experimental. Seed of these may or may not be available in 1999 and may have a different designation. #Pod maturity data collected at Johnston county from soybean planted June 12, 1998.**
<table>
<thead>
<tr>
<th>BRAND VARIETY</th>
<th>YIELD</th>
<th>PLANT HEIGHT</th>
<th>POD# MATURITY</th>
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*Experimental. Seed of these may or may not be available in 1999 and may have a different designation.

*Pod maturidity data collected at Johnston county.*
<table>
<thead>
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<th>BRAND VARIETY OR VARIETY</th>
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<th>LODGING</th>
<th>PLANT HEIGHT INCHES</th>
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| MEAN                    | 39         |         |                     |                   |
| R² (%)                  | 69         |         |                     |                   |
| BLSD (K-50)             | 6          |         |                     |                   |
| c.v. (%)                | 10.7       |         |                     |                   |
| s.e.                    | 0.8        |         |                     |                   |
| Error d.f.              | 100        |         |                     |                   |

**Highest yielder. *Not significantly different from highest yielder. +Experimental. Seed of these may or may not be available in 1999 and may have a different designation. #Pod maturity data collected at Johnston county from soybean planted June 12, 1998.
### TABLE 15. TWO-YEAR AVERAGE PERFORMANCE OF EARLY-PLANTED ROUNDUP READY GROUP V SOYBEAN COMBINED OVER LOCATIONS.

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<th>PLANT HEIGHT INCHES</th>
<th>POD# MATURITY DATE</th>
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#Pod maturity data collected at Johnston county.

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**Mean**

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**Highest yielder.  *Not significantly different from highest yielder.  
#Pod maturity data collected at Johnston county from soybean planted June 12, 1998.**
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+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.

#Pod maturidy data collected at Johnston county.
### TABLE 18. DATA COMBINED OVER LOCATIONS FOR LATE-PLANTED GROUP V SOYBEAN - 1998.

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<th>PLANT HEIGHT INCHES</th>
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**MEAN**

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**Highest yielder. *Not significantly different from highest yielder.**

+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.

#Pod maturity data collected at Johnston county from soybean planted June 12, 1998.
### TABLE 19. TWO AND THREE YEAR AVERAGE PERFORMANCE OF EARLY-PLANTED GROUP VI SOYBEAN COMBINED OVER LOCATIONS.

<table>
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<tr>
<th>BRAND VARIETY OR VARIETY</th>
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<th>LODGING</th>
<th>PLANT HEIGHT INCHES</th>
<th>POD# MATURITY DATE</th>
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+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.

#Pod maturity data collected at Johnston county.
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<th>PLANT HEIGHT (INCHES)</th>
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**Highest yielder. *Not significantly different from highest yielder. +Experimental. Seed of these may or may not be available in 1999 and may have a different designation. #Pod maturity data collected at Johnston county from soybean planted June 12, 1998.
TABLE 21. TWO-YEAR AVERAGE PERFORMANCE OF EARLY-PLANTED ROUNDDUP READY GROUP VI SOYBEAN COMBINED OVER LOCATIONS.

<table>
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<th>POD# MATURITY</th>
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<td>INCHES</td>
<td>DATE</td>
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<tr>
<td></td>
<td>DATE</td>
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Hartz H6255RR  44  2.3  39  10-26
Hartz H6686RR  42  2.2  45  10-29
Asgrow AG 6101RR 41  2.1  44  10-24
NK S60-E4      36  1.6  37  10-23

#Pod maturity data collected at Johnston county.
### TABLE 22. DATA COMBINED OVER LOCATIONS FOR EARLY-PLANTED ROUNDUP READY GROUP VI SOYBEAN - 1998.

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<th>PLANT HEIGHT</th>
<th>POD#</th>
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- **Mean**
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- $R^2$ (%)
  - 76
- BLSD (K-50)
  - 4
- c.v. (%)
  - 9.0
- s.e.
  - 0.8
- Error d.f.
  - 44

**Highest yielder. *Not significantly different from highest yielder.**
+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.

#Pod maturity data collected at Johnston county from soybean planted June 12, 1998.
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+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.

#Pod maturidy data collected at Johnston county.

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<th>BRAND VARIETY OR VARIETY</th>
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MEAN 38

R² (%) 69
BLSD (K-50) 13
c.v. (%) 15.4
s.e. 1.3
Error d.f. 69

**Highest yielder. *Not significantly different from highest yielder.
+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.
#Pod maturity data collected at Johnston county from soybean planted June 12, 1998.
**TABLE 25. TWO AND THREE YEAR AVERAGE PERFORMANCE OF EARLY-PLANTED GROUP VII AND VIII SOYBEAN COMBINED OVER LOCATIONS.**

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+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.

#Pod maturity data collected at Johnston county.

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**MEAN**

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<th>POD# MATURITY</th>
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\[
R^2 (\%) = 67
\]

\[
\text{BLSD (K-50)} = 6
\]

\[
c.v. (\%) = 11.8
\]

\[
s.e. = 1.1
\]

\[
\text{Error d.f.} = 84
\]

**Highest yielder. *Not significantly different from highest yielder.**

+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.

#Pod maturity data collected at Johnston county from soybean planted June 12, 1998.
### TABLE 27. TWO-YEAR AVERAGE PERFORMANCE OF EARLY-PLANTED ROUNDUP READY GROUP VII AND VIII SOYBEAN COMBINED OVER LOCATIONS.

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Pod maturity data collected at Johnston county.


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<th>PLANT HEIGHT (INCHES)</th>
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**Mean:** 45  
\( R^2 \) (%) 65  
BLSD (K-50) 8  
c.v. (%) 13.6  
s.e. 1.4  
Error d.f. 20

**Highest yielder.  *Not significantly different from highest yielder.**  
+Experimental. Seed of this may or may not be available in 1999 and may have a different designation.  
Pod maturity data collected at Johnston county from soybean planted June 12, 1998.
TABLE 29. TWO AND THREE-YEAR AVERAGE PERFORMANCE OF LATE-PLANTED GROUP VII AND VIII SOYBEAN COMBINED OVER LOCATIONS.

<table>
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<th>BRAND VARIETY OR VARIETY</th>
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<th>PLANT HEIGHT INCHES</th>
<th>LODGING</th>
<th>MATURITY DATE</th>
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<td>2.3</td>
<td>30</td>
<td>11-4</td>
</tr>
<tr>
<td>NK S75-55</td>
<td>32</td>
<td>1.6</td>
<td>30</td>
<td>11-2</td>
</tr>
<tr>
<td>Carver</td>
<td>32</td>
<td>1.2</td>
<td>31</td>
<td>10-30</td>
</tr>
<tr>
<td>SGA Haskell</td>
<td>31</td>
<td>2.2</td>
<td>28</td>
<td>11-1</td>
</tr>
<tr>
<td>Cook</td>
<td>31</td>
<td>1.7</td>
<td>31</td>
<td>11-2</td>
</tr>
<tr>
<td>SGA Benning</td>
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<td>2.1</td>
<td>31</td>
<td>11-2</td>
</tr>
<tr>
<td>FFR 731</td>
<td>29</td>
<td>1.9</td>
<td>30</td>
<td>10-31</td>
</tr>
<tr>
<td><strong>TWO-YEAR AVERAGE - 1997, 1998.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pioneer 9831</td>
<td>42</td>
<td>1.5</td>
<td>33</td>
<td>11-6</td>
</tr>
<tr>
<td>+N94-29</td>
<td>41</td>
<td>1.9</td>
<td>33</td>
<td>10-28</td>
</tr>
<tr>
<td>+N90-7199</td>
<td>39</td>
<td>2.1</td>
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<td>11-4</td>
</tr>
<tr>
<td>Pioneer 97B61</td>
<td>38</td>
<td>1.5</td>
<td>31</td>
<td>11-2</td>
</tr>
<tr>
<td>NK S75-55</td>
<td>38</td>
<td>1.6</td>
<td>32</td>
<td>11-2</td>
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<tr>
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<td>1.2</td>
<td>34</td>
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<tr>
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<tr>
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</tr>
<tr>
<td>+N90-845</td>
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<td>11-6</td>
</tr>
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<td>FFR 731</td>
<td>35</td>
<td>1.8</td>
<td>32</td>
<td>10-30</td>
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+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.

#Pod maturity data collected at Johnston county.

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<thead>
<tr>
<th>BRAND VARIETY OR VARIETY</th>
<th>YIELD BU/A</th>
<th>LODGING</th>
<th>HEIGHT INCHES</th>
<th>POD# MATURITY DATE</th>
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</thead>
<tbody>
<tr>
<td>Pioneer 9831</td>
<td>39**</td>
<td>1.7</td>
<td>30</td>
<td>11-4</td>
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<tr>
<td>+N94-29</td>
<td>39**</td>
<td>2.1</td>
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<td>10-30</td>
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<tr>
<td>NK S80-J2</td>
<td>38*</td>
<td>1.5</td>
<td>27</td>
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</tr>
<tr>
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<td>37*</td>
<td>1.5</td>
<td>29</td>
<td>11-2</td>
</tr>
<tr>
<td>+N90-7199</td>
<td>36*</td>
<td>2.4</td>
<td>31</td>
<td>11-5</td>
</tr>
<tr>
<td>Pioneer 97B61</td>
<td>36*</td>
<td>1.7</td>
<td>27</td>
<td>11-2</td>
</tr>
<tr>
<td>SGA Haskell</td>
<td>36*</td>
<td>2.3</td>
<td>26</td>
<td>11-2</td>
</tr>
<tr>
<td>Cook</td>
<td>35*</td>
<td>1.8</td>
<td>30</td>
<td>11-2</td>
</tr>
<tr>
<td>+NTCP96-1215</td>
<td>35*</td>
<td>2.5</td>
<td>31</td>
<td>11-5</td>
</tr>
<tr>
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<td>35*</td>
<td>2.2</td>
<td>31</td>
<td>11-2</td>
</tr>
<tr>
<td>Carver</td>
<td>34*</td>
<td>1.3</td>
<td>32</td>
<td>10-30</td>
</tr>
<tr>
<td>NK S75-55</td>
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<td>29</td>
<td>11-2</td>
</tr>
<tr>
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<tr>
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<td>29</td>
<td>11-2</td>
</tr>
<tr>
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<td>33</td>
<td>10-30</td>
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<tr>
<td>Motte</td>
<td>32*</td>
<td>2.4</td>
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<td>11-5</td>
</tr>
<tr>
<td>Deltapine DP7375RR</td>
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<td>31</td>
<td>11-2</td>
</tr>
<tr>
<td>SGA Prichard</td>
<td>31</td>
<td>1.9</td>
<td>28</td>
<td>11-4</td>
</tr>
<tr>
<td>Agripro AP727</td>
<td>25</td>
<td>2.1</td>
<td>32</td>
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</table>

**Mean**

<table>
<thead>
<tr>
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<th>34</th>
</tr>
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<tbody>
<tr>
<td>R² (%)</td>
<td>80</td>
</tr>
<tr>
<td>BLSD (K-50)</td>
<td>8</td>
</tr>
<tr>
<td>c.v. (%)</td>
<td>14.0</td>
</tr>
<tr>
<td>s.e.</td>
<td>1.1</td>
</tr>
<tr>
<td>Error d.f.</td>
<td>57</td>
</tr>
</tbody>
</table>

**Highest yielder. *Not significantly different from highest yielder. +Experimental. Seed of these may or may not be available in 1999 and may have a different designation. #Pod maturity data collected at Johnston county from soybean planted June 12, 1998.**
COTTON

Most cotton varieties sold in North Carolina were developed for cotton producing areas outside the state; therefore it is imperative that producers review performance data from within the state. The Official Variety Testing conducts variety tests on research stations as well as private growers' farms. A portion of these data is also published in the cotton extension bulletin.

**Entries:** Experimental lines and commercial varieties developed by both public and private agencies are included. Any individual or firm may make application for having entries included. A fee is charged on any entry basis. Agencies sponsoring entries in the tests and their contact person, address and entry designation listed below.

Table 31. Name, contact person, and address of sponsoring agencies in the 1998 North Carolina Cotton Performance Trials along with designation used to identify the varieties or hybrids in the trials.

<table>
<thead>
<tr>
<th>Agency and Contact Person</th>
<th>Address</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgrEvo Cotton Seed Intnl</td>
<td>311 Poplar View Lane West, Collierville TN 38017</td>
<td>Fiber Max</td>
</tr>
<tr>
<td>Tim Drew</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AgriPro Seeds, Inc.</td>
<td>6075 Poplar Ave, Suite 435, Memphis, TN 38119</td>
<td>Agripro AP</td>
</tr>
<tr>
<td>Al Hoggard</td>
<td></td>
<td>HS</td>
</tr>
<tr>
<td>Delta &amp; Pine Land Co.</td>
<td>8339 Appleton Road, Brewton AL 36426</td>
<td>Deltapine</td>
</tr>
<tr>
<td>Dru Rush</td>
<td></td>
<td>DP</td>
</tr>
<tr>
<td>NC State University</td>
<td>3709 Hillsborough St., Raleigh, NC 27607</td>
<td>NC</td>
</tr>
<tr>
<td>Daryl Bowman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paymaster Technology Corp.</td>
<td>1301 E. 50th St., Lubbock, TX 79404</td>
<td>Paymaster</td>
</tr>
<tr>
<td>David Albers</td>
<td></td>
<td>PM</td>
</tr>
<tr>
<td>Phytogen Seed Co.</td>
<td>PO Box 27, Leland, MS 38756</td>
<td>PSC Georgia King Texas</td>
</tr>
<tr>
<td>Frank Bordelon</td>
<td></td>
<td>SS</td>
</tr>
<tr>
<td>Seed Source, Inc.</td>
<td>PO Box 28, Stoneville, MS 28776</td>
<td></td>
</tr>
</tbody>
</table>
Test Locations: The four test locations included the Central Crops Research Station near Clayton (Johnston county), the Upper Coastal Plain Research Station near Rocky Mount (Edgecombe county), the Peanut Belt Research Station near Lewiston (Bertie county), and with Doug Bowers near Albemarle (Stanly county). A fifth test site, T. G. Gibson, Jr.'s farm near Gibson, N. C., was in a field infested with Columbia lance and root-knot nematodes with a rye cover crop. The Stanly county test was planted no-till in 7 1/2" rows using only roundup ready varieties.

Data: Data were collected on lint yield, lint percent, plant height, percent bolls opened, and the fiber properties UHM span length, uniformity index, T1 strength, elongation, and micronaire. Percent bolls opened was determined two to three weeks prior to harvest and indicates relative maturity; this measure should only be compared within a particular test and not across tests at the same location. Fiber properties were determined by HVI. The trials were divided by maturity with varieties earlier than Deltapine 51 included in the early group and those later than Deltapine 51 included in the medium group. The sponsoring agency decided which group their variety belonged and some may appear to be misplaced based on boll opening data.
**Seasonal Conditions:** Planting was on time for all locations (Table 32 and accompanying weather graphs). Harvesting was earlier than normal. Temperatures were slightly above normal for most of the season. Rainfall was below normal at all locations in July and early August. September and October were dry months providing many ideal harvest days. Yields at most locations were average or below average.

**Results:** Cultural practices are listed in Table 32. Soil test results are shown in Table 33. The early-maturing variety data are included in Tables 34-43. The statewide averages in Tables 34, 35, and 36 indicate the early-maturing varieties are fairly stable across years and locations for yield performance. The statewide averages only include data from Bertie, Edgecombe, and Johnston counties.

Data for medium-maturing varieties are included in Tables 44-55. It is suggested that growers choose medium-maturing cotton varieties based on data from a minimum of two years across locations.

Data from Scotland county (Tables 40, 41, 42, 50, 51, and 52) were not included in statewide averages. These data should indicate those varieties that are tolerant to Columbia lance and root-knot nematodes. Nematode counts in the early varieties averaged 374 root-knot and 664 Columbia lance nematodes per pint of soil while the counts in the medium varieties averaged 200 root-knot and 1016 Columbia lance nematodes; a few reniform nematodes were also recorded in the soil samples.

Data from Stanly county (Piedmont) (Table 43) were also not included in the statewide averages. Only a limited number of varieties were included in these trials due to the method these trials were conducted, i.e. no-till 7 1/2” rows, and roundup application.

Table 53 include data from a separate test where 11 Bt cottons were examined for performance under Bt threshold levels. Also included were
three non-Bt (conventional) varieties; these conventional varieties were sprayed at normal threshold levels and received two applications. The Bt cottons received only one insecticide application for worms. The entire test was sprayed for plant bug control July 21. Percent total damaged bolls are reported and demonstrates varying levels of worm control by the Bt varieties, ranging from 1 to 13% damaged bolls. Dr. Jack Bacheler collaborated in this research.

Tables 54 and 55 present data from a comparison of 12 roundup ready varieties grown under conventional herbicides and roundup herbicide. Included is one conventional variety, Stoneville 474, for comparison purposes. The conventional herbicide regime included PPI, pre emerge, post emerge, and post-directed applications of herbicides. No herbicide was applied to Stoneville 474 in the roundup plots. Some varieties performed differently depending on the herbicide regime, e.g. Paymaster 1220BG/RR, Deltapine 5415RR, and Stoneville 474 (conventional versus no herbicide). This research was in collaboration with Dr. Alan York.

Please keep in mind that all cotton is classified by HVI (high-volume instrumentation). Premiums and discounts will be assessed depending on several lint quality traits. Two traits of major significance are lint strength and micronaire. For fiber strength, the base will be 24-25 g/tex with a premium for strength above 26 g/tex and a discount for strength below 23 g/tex. The premium range for micronaire will be 3.7-4.2; discounts will be assessed for micronaire above 4.9; the base values will be 3.5-3.6 and 4.2-4.9. With this in mind, there are varieties with strength in the premium range as well as the base range.

Interpreting Data: Previous research has shown that two-year multi-location data provide the best predictor of future performance. Single year data may be misleading, e.g. varieties without heat tolerance
performed poorly in 1995 which had high night-time temperatures while in more normal years these varieties may have performed superbly.
<table>
<thead>
<tr>
<th>Location</th>
<th>Fertilizer Lbs/A</th>
<th>Soil Type</th>
<th>Date of Planting</th>
<th>Date/Rate of Pix</th>
<th>Date Defoliated</th>
<th>Date of Harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bertie</td>
<td>100</td>
<td>Goldsboro</td>
<td>7-May</td>
<td>E, M-24 July</td>
<td>E, M-24 Sept</td>
<td>E, M-7 Oct</td>
</tr>
<tr>
<td></td>
<td>0-0-60</td>
<td>sandy loam</td>
<td></td>
<td>10 oz.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>18-46-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5 lb Solubor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edgecombe</td>
<td>500</td>
<td>Norfolk</td>
<td>13-May</td>
<td>E, M-9 July</td>
<td>E, M-25 Sept</td>
<td>E, M-6 Oct</td>
</tr>
<tr>
<td></td>
<td>5-10-10</td>
<td>loamy sand</td>
<td></td>
<td>4 oz.</td>
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</tr>
<tr>
<td></td>
<td>17 gal.</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>30% N</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>2.5 lb Solubor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Johnston</td>
<td>400</td>
<td>Norfolk</td>
<td>6-May</td>
<td>E, M-6 July</td>
<td>E, M-15 Sept</td>
<td>E-28 Sept</td>
</tr>
<tr>
<td></td>
<td>6-6-36</td>
<td>loamy sand</td>
<td></td>
<td>8 oz.</td>
<td></td>
<td>M-2 Oct</td>
</tr>
<tr>
<td></td>
<td>400</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>12-6-24</td>
<td></td>
<td></td>
<td>E, M-24 July</td>
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<td>8 oz.</td>
</tr>
<tr>
<td></td>
<td>2.5 Solubor</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scotland</td>
<td>350</td>
<td>Norfolk</td>
<td>5-May</td>
<td>PIX</td>
<td>E, M-9 Sept</td>
<td>E, M-23 Sept</td>
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<tr>
<td></td>
<td>5-10-15</td>
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<td>not applied</td>
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</tr>
<tr>
<td></td>
<td>30 gal.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>30% N</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stanly</td>
<td>80 lbs N</td>
<td>Badin</td>
<td>14-May</td>
<td>E, M-18 June</td>
<td>E, M-15 Sept</td>
<td>E, M-10 Oct</td>
</tr>
<tr>
<td></td>
<td>160 lbs P2O</td>
<td></td>
<td></td>
<td>10 oz.</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E, M-30 June</td>
<td></td>
<td>10 oz.</td>
</tr>
<tr>
<td></td>
<td>1 lb Boron</td>
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<td></td>
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E=Early variety test.  
M=Medium variety test.
Table 33. Soil test results for cotton - 1998.

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<tr>
<th>Location by county</th>
<th>HM %</th>
<th>W-V</th>
<th>CEC</th>
<th>BS</th>
<th>Ac</th>
<th>pH</th>
<th>P-I</th>
<th>K-I</th>
<th>Ca %</th>
<th>Mg %</th>
<th>Mn-I</th>
<th>Zn-I</th>
<th>Cu-I</th>
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<tbody>
<tr>
<td>Bertie</td>
<td>0.66</td>
<td>1.43</td>
<td>4.3</td>
<td>67</td>
<td>1.4</td>
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<td>71</td>
<td>52</td>
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<td>9.0</td>
<td>49</td>
<td>71</td>
<td>161</td>
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<td>77</td>
<td>0.6</td>
<td>5.9</td>
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<td>52.0</td>
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<td>1.53</td>
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<td>52</td>
<td>1.3</td>
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<td>50</td>
<td>35.0</td>
<td>10.0</td>
<td>39</td>
<td>60</td>
<td>97</td>
</tr>
<tr>
<td>Scotland</td>
<td>0.71</td>
<td>1.60</td>
<td>4.7</td>
<td>70</td>
<td>1.4</td>
<td>6.0</td>
<td>182</td>
<td>36</td>
<td>57.0</td>
<td>10.0</td>
<td>157</td>
<td>223</td>
<td>71</td>
</tr>
<tr>
<td>Stanly</td>
<td>0.76</td>
<td>0.97</td>
<td>13.7</td>
<td>85</td>
<td>2.0</td>
<td>6.6</td>
<td>184</td>
<td>164</td>
<td>59.0</td>
<td>21.0</td>
<td>381</td>
<td>194</td>
<td>82</td>
</tr>
</tbody>
</table>
Bertie Co. Weekly Weather Data
(May - October 1998)
Edgecombe Co. Weekly Weather Data
(May - October 1998)
Johnston Co. Weekly Weather Data
(May - October 1998)

[Graph showing weekly max/min temperature and rainfall from May to October 1998]

<table>
<thead>
<tr>
<th>VARIETY OR BRAND VARIETY</th>
<th>LINT YIELD LB/ACRE</th>
<th>LINT PERCENT</th>
<th>PLANT HEIGHT INCHES</th>
<th>PERCENT BOLLS OPENED</th>
<th>S.L. UNIFORMITY INDEX G/TEX</th>
<th>T1 MIKE</th>
<th>ELONGATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stoneville ST474</td>
<td>1346**</td>
<td>44.8</td>
<td>33</td>
<td>48</td>
<td>1.11</td>
<td>83.2</td>
<td>29.4</td>
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<tr>
<td>Stoneville STBXN47</td>
<td>1289</td>
<td>44.7</td>
<td>33</td>
<td>50</td>
<td>1.12</td>
<td>83.6</td>
<td>29.6</td>
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<tr>
<td>Sure-Grow 501</td>
<td>1280</td>
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<td>32</td>
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<td>1.15</td>
<td>84.6</td>
<td>32.0</td>
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<tr>
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+Experimental. Seed of this may or may not be available in 1999 and may have a different designation.

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**Adj R^2 %**

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**C.V. (%)**

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**BLSD (K-50)**

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**Error d.f.**

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**Highest yielder. *Not significantly different from highest yielder.**

+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.
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| Mean                    | 1216   | 43.0   | 31    | 43      | 1.12 | 82.6| 30.9| 4.6 | 6.4 |

| Adj R^2 %               | 98.5   |
| C.V. (%)                | 5.9    |
| BLSD (K-50)             | 73     |
| s.e.                    | 32.3   |
| Error d.f.              | 184    |

**Highest yielder. *Not significantly different from highest yielder.**

*Experimental. Seed of these may or may not be available in 1999 and may have a different designation.*
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**Mean**

|            | 1115  | 42.4  | 27   | 50   | 1.10 | 82.1 | 27.4 | 4.7 | 6.9 |

| Adj R² %   | 98.5  |
| C.V. (%)   | 5.5   |
| BLSID (K-50) | 61    |
| s.e.       | 27.6  |
| Error d.f. | 184   |

**Highest yielder. *Not significantly different from highest yielder.**

+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.

Note: Edgecombe location received four inches of irrigation.
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**Highest yielder. *Not significantly different from highest yielder.**

+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.
### TABLE 40. THREE-YEAR AVERAGE PERFORMANCE OF EARLY-MATURING COTTON VARIETIES AT SCOTLAND COUNTY - 1996 - 1998.

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<th>PLANT HEIGHT (INCHES)</th>
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**Adj R² %** 99.4  
**C.V. (%)** 4.2  
**BLSD (K-50)** 66  
**s.e.** 10.6  
**Error d.f.** 8

**Highest yielder. *Not significantly different from highest yielder.**
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<tr>
<th>VARIETY OR BRAND VARIETY</th>
<th>LINT YIELD LB/ACRE</th>
<th>LINT %</th>
<th>PLANT HEIGHT INCHES</th>
<th>BOLLS OPENED (IN.)</th>
<th>S.L. UNIFORMITY INDEX (G/TEX)</th>
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s.e. 15.5
Error d.f. 19

**Highest yielder. *Not significantly different from highest yielder.
+Experimental. Seed of this may or may not be available in 1999 and may have a different designation.
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<th>VARIETY OR BRAND VARIETY</th>
<th>LINT YIELD LB/ACRE</th>
<th>LINT PERCENT</th>
<th>PLANT HEIGHT INCHES</th>
<th>PERCENT BOLLS OPENED</th>
<th>S.L. UNIFORMITY INDEX</th>
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Mean: 648 39.7 32 61 1.11 82.2 28.2 4.4 6.9

Adj R2 %: 98.5
C.V. (%): 11.7
BLSD (K-50): 78
s.e.: 33.8
Error d.f.: 181

**Highest yielder. *Not significantly different from highest yielder.

+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.
TABLE 43. AVERAGE PERFORMANCE OF EARLY AND MEDIUM MATURING COTTON VARIETIES AT STANLY COUNTY - 1998.

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<th>VARIETY/HYBRID</th>
<th>LINT YIELD</th>
<th>PLANT PERCENT</th>
<th>UHM</th>
<th>PLANT POPULATION</th>
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<td>IN.</td>
<td>INDEX</td>
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</table>

Adj R² %  87.9
C.V. (%)  12.6
BLSD (K-50)  366
s.e.  119.7
Error d.f.  18

**Highest yielder. *Not significantly different from highest yielder.
+Early
++Medium
### TABLE 44. THREE-YEAR STATEWIDE AVERAGE PERFORMANCE OF MEDIUM-MATURING COTTON VARIETIES - 1996-1998.

<table>
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<th>BRAND VARIETY</th>
<th>LINT YIELD LB/ACRE</th>
<th>LINT %</th>
<th>PLANT HEIGHT INCHES</th>
<th>PERCENT OPENED</th>
<th>S.L. UNIFORMITY (IN.)</th>
<th>T1 INDEX (G/TEX)</th>
<th>MIKE</th>
<th>ELONGATION</th>
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<td>4.4</td>
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<td>4.4</td>
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Adjusted R² %: 98.4
C.V. (%): 5.4
BLSD (K-50): 26
s.e.: 9.2
Error d.f.: 24

**Highest yielder.
**TABLE 45. TWO-YEAR STATEWIDE AVERAGE PERFORMANCE OF MEDIUM-MATURING COTTON VARIETIES - 1997 & 1998.**

<table>
<thead>
<tr>
<th>VARIETY OR BRAND VARIETY</th>
<th>LINT YIELD (LB/acre)</th>
<th>LINT %</th>
<th>PLANT HEIGHT (IN)</th>
<th>Bolls OPENED</th>
<th>S.L. (IN)</th>
<th>UNIFORMITY INDEX (G/TEX)</th>
<th>MIKE</th>
<th>ELONGATION</th>
</tr>
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<td>83.3</td>
<td>30.9</td>
<td>4.8</td>
</tr>
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<td>84.4</td>
<td>29.2</td>
<td>4.8</td>
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<td>52</td>
<td>1.16</td>
<td>84.2</td>
<td>31.6</td>
<td>4.8</td>
</tr>
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<td>1.14</td>
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<td>1.12</td>
<td>83.0</td>
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<td>82.7</td>
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<td>1.17</td>
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**Mean**

<table>
<thead>
<tr>
<th>LINT YIELD (LB/acre)</th>
<th>LINT %</th>
<th>PLANT HEIGHT (IN)</th>
<th>Bolls OPENED</th>
<th>S.L. (IN)</th>
<th>UNIFORMITY INDEX (G/TEX)</th>
<th>MIKE</th>
<th>ELONGATION</th>
</tr>
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<tr>
<td>1199</td>
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</table>

**Adj R² %** 99.4
**C.V. (%)** 5.0
**BLSD (K-50)** 62
**s.e.** 11.0
**Error d.f.** 60

**Highest yielder. *Not significantly different from highest yielder.**
TABLE 46. AVERAGE PERFORMANCE OF MEDIUM-MATURING COTTON VARIETIES ACROSS LOCATIONS - 1998.

<table>
<thead>
<tr>
<th>VARIETY OR BRAND VARIETY</th>
<th>YIELD LB/ACRE</th>
<th>LINT %</th>
<th>PLANT HEIGHT INCHES</th>
<th>Bolls OPENED (IN.)</th>
<th>S.L. INDEX</th>
<th>UNIFORMITY (G/TEX)</th>
<th>MIKE ELONGATION</th>
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</tr>
<tr>
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<td>1333*</td>
<td>43.5</td>
<td>27</td>
<td>46</td>
<td>1.10</td>
<td>81.9</td>
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</tr>
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<td>43.5</td>
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<tr>
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<tr>
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Mean 1259 42.2 30 38 1.13 82.5 30.6 4.5 6.5
Adj R² % 91.6
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</table>

**Highest yielder. *Not significantly different from highest yielder.**

+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.
<table>
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<tr>
<th>VARIETY OR BRAND VARIETY</th>
<th>LINT YIELD LB/ACRE</th>
<th>LINT %</th>
<th>PLANT HEIGHT INCHES</th>
<th>PERCENT BOLLS OPENED</th>
<th>UHM S.L. INDEX (G/TEX)</th>
<th>UNIFORMITY MIKE</th>
<th>T1 ELONGATION</th>
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</tr>
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<td>1.13</td>
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<td>30.7</td>
</tr>
<tr>
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<td>1.13</td>
<td>81.3</td>
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<td>25</td>
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<td>82.4</td>
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</table>

**TABLE 47. AVERAGE PERFORMANCE OF MEDIUM-MATURING COTTON VARIETIES AT BERTIE COUNTY - 1998.**
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<table>
<thead>
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<th></th>
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</thead>
<tbody>
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<td>C.V. (%)</td>
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**Highest yielder. *Not significantly different from highest yielder.**

+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.
## Table 48. Average Performance of Medium-Maturing Cotton Varieties at Edgecombe County - 1998.

<table>
<thead>
<tr>
<th>Variety or Brand Variety</th>
<th>Lint Yield (LB/Acre)</th>
<th>Lint %</th>
<th>Plant Height (IN.)</th>
<th>Percent Opened (IN.)</th>
<th>S.L. Uniformity</th>
<th>T1 (G/TEX)</th>
<th>Mike</th>
<th>Elongation</th>
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<td>18</td>
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<td>82.0</td>
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**Highest yielder. *Not significantly different from highest yielder.**

+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.
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<p>| Mean         | Mean | 1289 | 40.7 | 31 | 45 | 1.16 | 82.3 | 30.3 | 4.2 | 6.6 |
| Adj R² %     | Adj R² % | 97.6 |</p>
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**Highest yielder.**

*Experimental. Seed of these may or may not be available in 1999 and may have a different designation.*
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Adj $R^2$ % 99.8
C.V. (%) 2.7
BLSD (K-50) 40
s.e. 6.0
Error d.f. 6

**Highest yielder.
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Mean
908  40.2  37  57  1.16  83.3  29.9  4.4  6.2

Adj R² % 99.8
C.V. (%) 6.5
BLSD (K-50) 126
s.e. 17.7
Error d.f. 11

**Highest yielder. *Not significantly different from highest yielder.
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<th>PERCENT BOLLS OPENED</th>
<th>UHM S.L.</th>
<th>UNIFORMITY INDEX G/TEX</th>
<th>MIKE ELONGATION</th>
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<tbody>
<tr>
<td>FiberMax 989</td>
<td>880***</td>
<td>40.7</td>
<td>33</td>
<td>49</td>
<td>1.15</td>
<td>82.3</td>
<td>29.0</td>
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<tr>
<td>Paymaster 1440</td>
<td>789</td>
<td>40.8</td>
<td>32</td>
<td>67</td>
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<td>82.1</td>
<td>27.4</td>
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<tr>
<td>Sure Grow 180</td>
<td>753</td>
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<td>32</td>
<td>69</td>
<td>1.15</td>
<td>82.9</td>
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</tr>
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<td>FiberMax 832</td>
<td>731</td>
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<td>41</td>
<td>1.21</td>
<td>83.3</td>
<td>30.8</td>
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<td>Phytogen Ga King</td>
<td>721</td>
<td>41.3</td>
<td>36</td>
<td>62</td>
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<td>Phytogen PSC952</td>
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<td>36</td>
<td>54</td>
<td>1.10</td>
<td>81.9</td>
<td>29.3</td>
</tr>
<tr>
<td>Sure Grow 248</td>
<td>706</td>
<td>39.1</td>
<td>32</td>
<td>65</td>
<td>1.13</td>
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<td>699</td>
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<td>Phytogen PSC636</td>
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<td>59</td>
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<td>Deltapine DP458BRR</td>
<td>666</td>
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<td>28</td>
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<td>1.17</td>
<td>82.9</td>
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<td>41.5</td>
<td>33</td>
<td>59</td>
<td>1.17</td>
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<td>29.4</td>
</tr>
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<td>+Paymaster PMX9307-1281</td>
<td>648</td>
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<td>34</td>
<td>51</td>
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<td>82.3</td>
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<tr>
<td>Agripro AP6101</td>
<td>637</td>
<td>38.0</td>
<td>32</td>
<td>49</td>
<td>1.15</td>
<td>81.6</td>
<td>31.4</td>
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<td>Deltapine DP5690RR</td>
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<td>33</td>
<td>53</td>
<td>1.15</td>
<td>82.7</td>
<td>32.8</td>
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<tr>
<td>+IF 1000</td>
<td>623</td>
<td>40.6</td>
<td>30</td>
<td>52</td>
<td>1.17</td>
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<tr>
<td>Agripro HS46</td>
<td>614</td>
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<td>33</td>
<td>58</td>
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<td>82.0</td>
<td>31.1</td>
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<td>Deltapine DP5415RR</td>
<td>610</td>
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<td>1.15</td>
<td>81.8</td>
<td>29.5</td>
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<tr>
<td>Agripro HS44</td>
<td>605</td>
<td>38.9</td>
<td>33</td>
<td>53</td>
<td>1.13</td>
<td>80.7</td>
<td>31.3</td>
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<td>Deltapine DP655BRR</td>
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<td>30</td>
<td>58</td>
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<td>80.8</td>
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<tr>
<td>Agripro AP4103</td>
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<td>1.19</td>
<td>84.1</td>
<td>30.6</td>
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<td>Deltapine 51</td>
<td>583</td>
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<td>37</td>
<td>51</td>
<td>1.13</td>
<td>82.4</td>
<td>26.2</td>
</tr>
</tbody>
</table>

Mean                               | 673               | 39.4   | 32                  | 57                   | 1.14     | 82.7                | 30.1             | 4.3              | 6.5              |
Adj R² %                            | 97.2               |
| C.V. (%) | 9.4 |
| BLSD (K-50) | 66 |
| s.e. | 28.3 |
| Error d.f. | 83 |

**Highest yielder.

+Experimental. Seed of these may or may not be available in 1999 and may have a different designation.
TABLE 53. AVERAGE PERFORMANCE OF EARLY AND MEDIUM MATURING BOLLGARD COTTON VARIETIES AT EDGECOMBE COUNTY -1998.

<table>
<thead>
<tr>
<th>BRAND VARIETY</th>
<th>YIELD LB/ACRE</th>
<th>PERCENT LINT</th>
<th>PLANT HEIGHT INCHES</th>
<th>BOLLS OPENED</th>
<th>PERCENT DAMAGED</th>
<th>TOTAL BOLLS</th>
<th>S.L. MIKE (IN)</th>
<th>UHM (G/TEX)</th>
<th>ELONGATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>#Paymaster 1218 BG/RR</td>
<td>1137**</td>
<td>44.3</td>
<td>36</td>
<td>75</td>
<td>3</td>
<td>5.6</td>
<td>1.08</td>
<td>28.1</td>
<td>6.5</td>
</tr>
<tr>
<td>#Deltapine DP20B</td>
<td>1081*</td>
<td>42.2</td>
<td>30</td>
<td>70</td>
<td>6</td>
<td>4.6</td>
<td>1.11</td>
<td>28.9</td>
<td>6.8</td>
</tr>
<tr>
<td>#Paymaster 1560BG</td>
<td>1061</td>
<td>44.4</td>
<td>35</td>
<td>58</td>
<td>6</td>
<td>5.3</td>
<td>1.10</td>
<td>30.4</td>
<td>6.4</td>
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<tr>
<td>#Stoneville ST4740BG</td>
<td>1055</td>
<td>47.6</td>
<td>30</td>
<td>38</td>
<td>13</td>
<td>5.6</td>
<td>1.07</td>
<td>30.9</td>
<td>6.4</td>
</tr>
<tr>
<td>#Paymaster 1220BG/RR</td>
<td>1052</td>
<td>44.3</td>
<td>34</td>
<td>53</td>
<td>5</td>
<td>5.8</td>
<td>1.07</td>
<td>28.3</td>
<td>6.5</td>
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<tr>
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<td>1039</td>
<td>40.7</td>
<td>37</td>
<td>52</td>
<td>2</td>
<td>5.0</td>
<td>1.12</td>
<td>29.9</td>
<td>6.2</td>
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<tr>
<td>#Deltapine DP 428B</td>
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<td>42.2</td>
<td>31</td>
<td>61</td>
<td>4</td>
<td>5.3</td>
<td>1.15</td>
<td>27.8</td>
<td>6.6</td>
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<tr>
<td>#Deltapine DP 32B</td>
<td>1005</td>
<td>42.6</td>
<td>32</td>
<td>69</td>
<td>1</td>
<td>5.3</td>
<td>1.13</td>
<td>28.7</td>
<td>6.9</td>
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<td>#Paymaster 1330BG</td>
<td>999</td>
<td>43.0</td>
<td>28</td>
<td>74</td>
<td>2</td>
<td>5.2</td>
<td>1.12</td>
<td>30.1</td>
<td>6.8</td>
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<tr>
<td>+Deltapine DP 458 BRR</td>
<td>986</td>
<td>44.8</td>
<td>32</td>
<td>32</td>
<td>2</td>
<td>5.5</td>
<td>1.12</td>
<td>31.6</td>
<td>7.3</td>
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<tr>
<td>+Deltapine DP 655 BRR</td>
<td>973</td>
<td>42.9</td>
<td>35</td>
<td>32</td>
<td>9</td>
<td>5.3</td>
<td>1.11</td>
<td>32.0</td>
<td>6.3</td>
</tr>
<tr>
<td>#Stoneville ST 474</td>
<td>925</td>
<td>46.2</td>
<td>34</td>
<td>54</td>
<td>1</td>
<td>5.2</td>
<td>1.08</td>
<td>30.8</td>
<td>6.6</td>
</tr>
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<td>+Agripro HS 46</td>
<td>913</td>
<td>43.6</td>
<td>32</td>
<td>51</td>
<td>3</td>
<td>5.2</td>
<td>1.08</td>
<td>30.4</td>
<td>6.2</td>
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<td>884</td>
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<td>34</td>
<td>40</td>
<td>4</td>
<td>5.5</td>
<td>1.12</td>
<td>27.7</td>
<td>6.6</td>
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<tr>
<td>Mean</td>
<td>1009</td>
<td>43.7</td>
<td>33</td>
<td>54</td>
<td>4</td>
<td>5.3</td>
<td>1.10</td>
<td>29.7</td>
<td>6.6</td>
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</tbody>
</table>

Adj R2 % 98.0
C.V. (%) 5.8
BLSD (K-50) 70
s.e. 29.4
Error d.f. 39

**Highest yielder. *Not significantly different from highest yielder.

#Early maturing
+Medium Maturing

Note: Stoneville ST474 and Agripro HS46 were conventional check varieties. Deltapine DP 51 was planted for maturity check.
### TABLE 54. AVERAGE PERFORMANCE OF EARLY AND MEDIUM MATURING ROUNDUP READY COTTON VARIETIES WITH CONVENTIONAL HERBICIDES APPLIED AT EDGECOMBE COUNTY - 1998.

<table>
<thead>
<tr>
<th>BRAND VARIETY</th>
<th>VARIETY OR</th>
<th>LINT YIELD</th>
<th>LINT %</th>
<th>PLANT HEIGHT</th>
<th>BOLLS OPENED</th>
<th>S.L. MIKE (IN)</th>
<th>T1 ELONGATION</th>
<th>UNIFORMITY</th>
</tr>
</thead>
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<tr>
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<td>965**</td>
<td>44.5</td>
<td>32</td>
<td>69</td>
<td>5.1</td>
<td>1.04</td>
<td>82.5</td>
<td>27.1</td>
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<tr>
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<td>961*</td>
<td>41.3</td>
<td>34</td>
<td>58</td>
<td>4.5</td>
<td>1.07</td>
<td>84.3</td>
<td>27.2</td>
</tr>
<tr>
<td>+Deltapine DP 458 BRR</td>
<td>955*</td>
<td>41.6</td>
<td>31</td>
<td>44</td>
<td>4.9</td>
<td>1.08</td>
<td>83.1</td>
<td>28.5</td>
</tr>
<tr>
<td>#Deltapine DP 425 RR</td>
<td>931*</td>
<td>43.6</td>
<td>32</td>
<td>80</td>
<td>5.0</td>
<td>1.09</td>
<td>82.6</td>
<td>28.6</td>
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<td>920*</td>
<td>42.3</td>
<td>31</td>
<td>60</td>
<td>5.1</td>
<td>1.09</td>
<td>82.5</td>
<td>27.9</td>
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<tr>
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<td>42.8</td>
<td>35</td>
<td>69</td>
<td>5.0</td>
<td>1.09</td>
<td>84.2</td>
<td>29.6</td>
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<td>31</td>
<td>54</td>
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<td>1.10</td>
<td>85.3</td>
<td>29.5</td>
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<tr>
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<td>876*</td>
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<td>35</td>
<td>66</td>
<td>5.1</td>
<td>1.06</td>
<td>82.4</td>
<td>27.8</td>
</tr>
<tr>
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<td>868*</td>
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<td>37</td>
<td>56</td>
<td>5.5</td>
<td>1.04</td>
<td>81.7</td>
<td>28.1</td>
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<tr>
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<td>847</td>
<td>43.7</td>
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<td>76</td>
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<td>1.12</td>
<td>85.5</td>
<td>30.0</td>
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<td>41</td>
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<td>1.05</td>
<td>82.2</td>
<td>26.8</td>
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<td>807</td>
<td>41.1</td>
<td>34</td>
<td>24</td>
<td>4.8</td>
<td>1.10</td>
<td>81.9</td>
<td>28.6</td>
</tr>
</tbody>
</table>

**Mean**

| | 897 | 42.8 | 33 | 58 | 5.0 | 1.07 | 83.2 | 28.3 | 7.1 |

Adj R^2 %

| 83.7 |

C.V. (%)

| 8.0 |

BLSD (K-50)

| 111 |

s.e.

| 36.1 |

Error d.f.

| 33 |

**Highest yielder. *Not significantly different from highest yielder.**

#Early Maturing

+Medium Maturing

Note: Stoneville ST 474 was conventional check variety.

<table>
<thead>
<tr>
<th>VARIETY OR BRAND VARIETY</th>
<th>LINT YIELD LB/ACRE</th>
<th>LINT %</th>
<th>PLANT HEIGHT INCHES</th>
<th>PERCENT OPENED</th>
<th>UHM MIKE (IN)</th>
<th>S.L. UNIFORMITY INDEX (G/TEX)</th>
<th>T1 ELONGATION</th>
</tr>
</thead>
<tbody>
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<td>#Paymaster 1580 RR</td>
<td>976**</td>
<td>46.2</td>
<td>33</td>
<td>74</td>
<td>5.0</td>
<td>1.12</td>
<td>82.6</td>
</tr>
<tr>
<td>#Stoneville ST 474</td>
<td>969*</td>
<td>45.5</td>
<td>40</td>
<td>64</td>
<td>5.2</td>
<td>1.05</td>
<td>82.5</td>
</tr>
<tr>
<td>+Deltapine DP 5415 RR</td>
<td>960*</td>
<td>41.6</td>
<td>31</td>
<td>46</td>
<td>4.8</td>
<td>1.09</td>
<td>82.7</td>
</tr>
<tr>
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<td>923*</td>
<td>43.0</td>
<td>35</td>
<td>58</td>
<td>4.9</td>
<td>1.08</td>
<td>81.5</td>
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<td>72</td>
<td>5.0</td>
<td>1.11</td>
<td>83.0</td>
</tr>
<tr>
<td>+Deltapine DP 458 BRR</td>
<td>920*</td>
<td>41.2</td>
<td>33</td>
<td>63</td>
<td>5.1</td>
<td>1.06</td>
<td>82.9</td>
</tr>
<tr>
<td>#Deltapine DP 425 RR</td>
<td>913*</td>
<td>43.5</td>
<td>36</td>
<td>60</td>
<td>4.9</td>
<td>1.09</td>
<td>83.5</td>
</tr>
<tr>
<td>+Deltapine DP 655 BRR</td>
<td>909*</td>
<td>44.5</td>
<td>37</td>
<td>43</td>
<td>5.0</td>
<td>1.08</td>
<td>81.9</td>
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<td>882*</td>
<td>40.7</td>
<td>33</td>
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<td>4.9</td>
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<td>877*</td>
<td>42.0</td>
<td>33</td>
<td>60</td>
<td>5.2</td>
<td>1.09</td>
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<td>33</td>
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<td>865*</td>
<td>41.4</td>
<td>37</td>
<td>72</td>
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<td>1.07</td>
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<td><strong>Mean</strong></td>
<td>916</td>
<td>42.9</td>
<td>35</td>
<td>62</td>
<td>4.9</td>
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<td>82.6</td>
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<tr>
<td>Adj R² %</td>
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<td></td>
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<tr>
<td>C.V. (%)</td>
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<tr>
<td>BLSD (K-50)</td>
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<td>s.e.</td>
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</tbody>
</table>

**Highest yielder. *Not significantly different from highest yielder.**

#Early Maturing
+Late maturing

Note: Stoneville ST 474 was conventional check variety.