

Part I Soybeans
Part II Cotton

1993

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PERFORMANCE OF SOYBEANS AND COTTON
IN NORTH CAROLINA
INTRODUCTION

With the large number of commercially available and prospective hybrids and varieties of soybeans 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 soybeans 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 1993,² as well as summary tables for the past two and three years.

¹The 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, Dwight Parrish, Ken Barnes, Johnny Denton, John Horton, and Mark Langdon assisted in conducting these tests. Carey Parsons prepared the text for this bulletin.

²Statistical analyses were made in the Statistical Laboratory and Computing Center under the supervision of Dr. John O. Rawlings by Mrs. Sandra Donaghy and Mrs. Joy Smith.

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.

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) and 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 standard error of the mean (s.e.)

is 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 replications. The error degrees 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. An effort has been made to facilitate comparisons among locations and across years in this report.

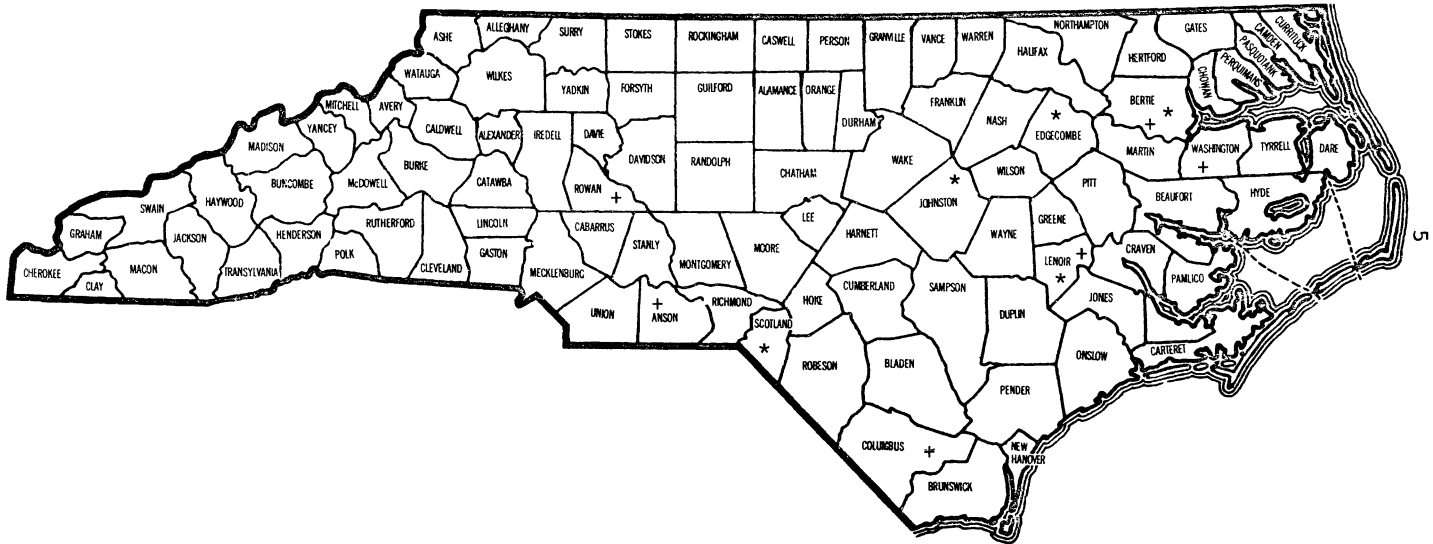
The hybrids or varieties which do not yield significantly less than the highest yielder are denoted by an asterisk(*) next to their yields; the highest yielder is denoted by a double asterisk (**) next to its yield. The relative performance of a hybrid or variety across locations within an area can be easily evaluated by going across the table; those hybrids or varieties which are most frequently marked by an asterisk would be highly desirable. 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 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
North Carolina Agricultural Research Service



+ Soybean Test

* Cotton Test

Soybeans

Anson County, Fincher Martin, Route 2, Box 302, Wadesboro, N.C.
Agricultural Extension Agents, Tom Pegram and Jim Monroe,
cooperating.

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

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

Lenoir County, Lower Coastal Plain Tobacco Research Station,
Kinston, N.C., Sandy Barnes, Superintendent.

Washington County, Tidewater Research Station, Plymouth, N. C.,
John Smith, Superintendent.

Late Test After Small Grain

Lenoir County, Lower Coastal Plain Tobacco Research Station,
Kinston, N.C., Sandy Barnes, Superintendent.

Rowan County, Piedmont Research Station, Salisbury, N.C.,
Raymond Coltrain, Superintendent.

Washington County, Tidewater Research Station, Plymouth, N.C.,
John Smith, Superintendent.

Cotton

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

Edgecombe County, Upper Coastal Plain Research Station,
Rocky Mount, N.C., Clyde Bogle, Superintendent.

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

Lenoir County, Rick Holder, P. O. Box 189, Kinston, N.C., Extension
Specialist, Alan Harper, cooperating.

Scotland County, T. G. Gibson, P. O. Box 165, Gibson, N.C.
Agricultural Extension Agent, Dave Morrison, cooperating.

SOYBEANS

There are several 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 an 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 address of sponsoring agencies in the 1993 North Carolina Soybean Performance Trials along with designation used to identify the varieties in the trials.

| Agency and Contact Person | Address | Designation |
|---|--|---|
| <u>Asgrow Seed Company</u> Duane Hosch | P. O. Box 460 Parkersburg, IA 50665 | Asgrow A4715 A5112 A5403 A5885 A5979 A6297 XP6711 |
| <u>Ciba Seeds</u> Gordon Johnson | P.O. Box 18300 Greensboro, NC 27419 | Ciba 3602 3615 5703Y 5803Y |

Table 1. (Continued)

| Agency and Contact Person | Address | Designation |
|--|---|---|
| <u>Ciba Seeds</u> Gordon Johnson | P.O. Box 18300 Greensboro, NC 27419 | 5903Y 5905Y 6001Y 6102Y |
| <u>DeKalb Plant Genetics</u> Diane Freeman | 3100 Sycamore Road DeKalb, IL 71232 | DeKalb CX415 CX469C |
| <u>Delhi Seed Company</u> Dick Landrum | Box 176, Hwy. 17 North Delhi, LA 71232 | Buckshot 55 66 723 |
| <u>Delta & Pine Land Co.</u> John Thomas | P. O. Box 157 Scott, MS 38772 | Deltapine 105 415 417 726 DP 3456 3478 3499 3589 3606 3627 3682 3733 3776 DPX 3553 |
| <u>Hyperformer Seed Co.</u> Al Hoggard | One Hycrop Row Memphis, TN 38120 | Hyperformer HSC 591 721 741 B2J HY 498 677 798 HB2-X484 HB2-X683 HB2-X733 HB3-X782 |
| <u>Jacob Hartz Seed Co.</u> Richard Dougherty | P. O. Box 946 Stuttgart, AR 72160 | Hartz H4464 H5258 H5350 |

Table 1. (Continued)

| Agency and Contact Person | Address | Designation |
|---|---|--|
| <u>Jacob Hartz Seed Co.</u> Richard Dougherty | P. O. Box 946 Stuttgart, AR 72160 | H6500 H7190 H7550 6686 |
| <u>Northrup King Co.</u> Carroll Oakes | P. O. Box 249 Grifton, NC 28530 | NK Coker 485 Coker 6738 Coker 6847 RA 452 S 48-84 S 59-60 S 62-66 S 83-30 X 9146 X 9357 X 9365 X 9366 |
| <u>Pioneer Hi-Bred Int., Inc.</u> Paul Rodgers | 1000 W. Jefferson St. Tipton, IN 46072 | Pioneer 9442 9461 9501 9583 9584 9641 9692 9711 9761 9831 |
| <u>Southern States Cooperative, Inc.</u> Howard J. Tabor | P. O. Box 26234 Richmond, VA 23260 | FFR 439 487 493 500 542 553 561 562 563 583 595 663 671 695 731 Exp. 19921 |

Table 1. (Continued)

| Agency and Contact Person | Address | Designation |
|---|---|----------------------------------|
| United Agri Products Herbert Smith | P. O. Box 1198 Fort Valley, GA 31030 | Dyna-Gro DG 3495 3576 3682 |
| Vigoro Industries G. C. (Conrad) Lavender | P. O. Box 156 Jefferson, GA 30549 | Vigoro Exp. 563 633 713 |

Table 2. Soybean public varieties.

| State Responsible for Development | Variety |
|---|---|
| Alabama Florida Georgia | Stonewall Braxton Cook, Haskell |
| Maryland Mississippi North Carolina | Manokin Centennial Brim, Holladay, Young |
| South Carolina Tennessee Virginia | Hagood, Maxcy, Perrin TN 4-86, TN 5-92, TN 6-90 Chesapeake, Hutcheson |

Test Locations: Four full season tests were located in the Coastal Plain with one in the Piedmont; two late-planted tests were located also in the Coastal Plain and one in the Piedmont. The test at Rowan was discarded due to poor stands. Groups V and VI were discarded at Lenoir county due to southern stem blight. Early Group IV, Groups V, VI, VII and VIII at Anson County were discarded due to high variability.

Data: Data were 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 date 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.

Seasonal Conditions: Soybean planting was slightly later than normal (2-12 days) for all full-season tests (Table 3). Rainfall was below normal at most locations throughout the growing season. Above normal temperatures were experienced throughout the season. Rainfall data from several test sites are shown:

Rainfall - (Inches)

| <u>Location</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> |
|-----------------|------------|-------------|-------------|---------------|------------------|
| Bertie | 2.93 | 3.61 | 2.76 | 0.83 | 3.19 |
| Columbus | 1.38 | 3.28 | 4.15 | 5.31 | 7.18 |
| Lenoir | 2.75 | 1.84 | 6.08 | 3.28 | 5.34 |
| Washington | 3.47 | 4.35 | 0.91 | 3.27 | 3.42 |

Early-Planted Soybeans

Group IV soybeans were tested at Anson and Washington counties and their data are shown in Tables 5-10 . This group is subdivided into early group IV soybeans (Tables 5-7) and late group IV soybeans (Tables 8-10). The early group IV test at Anson county was discarded due to high variability.

Data for the early-maturing soybeans (Group V) are found in Tables 11-16. Pod maturity data are included on all tables covering multilocation data. Multiyear data by location are included in Tables 14-16.

The medium-maturity (Group VI) and late-maturity (Groups VII & VIII) data are shown in Tables 17-29.

Late-Planted Soybeans

Yields reflect the rainfall pattern at various locations (Tables 30-44). Pod maturity data were collected for both early-planted and late-planted entries at one location (Johnston county) at one planting date (June 23).

Agronomic information not found in tables listed previously for varieties available to growers, some may not be in the OVT, is shown in Table 45. This information is supplied by Dr. James Dunphy, North Carolina State University.

Table 3. Cultural practices for soybean performance trials - 1993.

| Location by County | Row Width (inches) | Fertilizer Lbs/A | Soil Type | Date of Planting | Date of Harvest |
|-----------------------------------|--------------------------|---------------------|--|------------------------|-----------------------|
| <u>Early Planted Tests</u> | | | | | |
| Anson | 30 | 275 5-25-26 | | May 20 | November 11 |
| Anson Group IV | drilled | 275 5-25-26 | | May 20 | October 1 |
| Bertie | 36 | 180 0-14-42 | Goldsboro and Lynchburg sandy loam | May 25 | November 15 |

Table 3. (Continued)

| Location by County | Row Width (inches) | Fertilizer Lbs/A | Soil Type | Date of Planting | Date of Harvest |
|----------------------------------|--------------------------|---------------------|--|------------------------|---------------------------|
| Columbus | 36 | 250 10-20-20 | Norfolk and Lynchburg fine sandy loam | May 21 | November 4 |
| Lenoir | 38 | 350 3-9-27 | Goldsboro loamy sand | May 18 | November 22 |
| Washington | 38 | 251 0-25-25 | Portsmouth fine sandy loam | May 24 | November 16 |
| Washington Group IV | drilled | 251 0-25-25 | Portsmouth fine sandy loam | May 24 | October 20 |
| <u>Late Planted Tests</u> | | | | | |
| Lenoir | 38 | | Rains Sandy loam | June 18 | November 22 December 1 |
| Washington | 38 | | Cape Fear loam | June 24 | November 16 |

Table 4. Soil test results, soybeans - 1993.

| Location by County | HM % | W-V | CEC | BS | Ac | pH | P-I | K-I | Ca % | Mg % | Mn-I | Zn-I | Cu-I |
|-----------------------------|------|------|------|----|-----|-----|-----|-----|------|------|------|------|------|
| <u>Early Planted</u> | | | | | | | | | | | | | |
| Anson | 0.4 | 1.00 | 6.2 | 94 | 0.4 | 6.2 | 14 | 84 | 60.9 | 26.0 | 625 | 107 | 104 |
| Bertie | 2.2 | 1.25 | 5.5 | 93 | 0.4 | 5.9 | 33 | 26 | 66.0 | 25.0 | 23 | 56 | 32 |
| Columbus | 0.3 | 1.16 | 2.8 | 78 | 0.6 | 5.8 | 45 | 41 | 53.6 | 17.0 | 35 | 44 | 46 |
| Lenoir | 0.6 | 1.18 | 3.1 | 87 | 0.4 | 5.5 | 144 | 61 | 57.7 | 19.4 | 295 | 69 | 37 |
| Washington | 4.8 | 0.95 | 10.6 | 66 | 3.6 | 5.0 | 38 | 120 | 41.7 | 18.6 | 24 | 68 | 42 |
| <u>Late Planted</u> | | | | | | | | | | | | | |
| Lenoir | 1.3 | 1.02 | 5.1 | 84 | 0.8 | 5.3 | 124 | 70 | 60.7 | 16.8 | 36 | 30 | 40 |
| Washington | 4.7 | 1.01 | 10.2 | 76 | 2.4 | 5.1 | 54 | 132 | 48.1 | 22.8 | 30 | 60 | 48 |

TABLE 5. PERFORMANCE OF EARLY GROUP IV SOYBEANS COMBINED OVER LOCATIONS.

| BRAND-VARIETY OR VARIETY | YIELD BUS/A | LODGING | PLANT HEIGHT INCHES | POD MATURITY DATE |
|---|----------------|---------|---------------------------|-------------------------|
| THREE-YEAR AVERAGE 1991, 1992, AND 1993 | | | | |
| Deltapine DP 3456 | 47 | 1.1 | 29 | 10-1 |
| TN 4-86 | 34 | 1.4 | 34 | 9-30 |
| TWO-YEAR AVERAGE - 1992, 1993 | | | | |
| Deltapine DP 3456 | 37 | 1.1 | 29 | 10-7 |
| TN 4-86 | 31 | 1.3 | 35 | 10-4 |
| Pioneer 9442 | 27 | 1.2 | 30 | 10-2 |
| Pioneer 9461 | 27 | 1.5 | 28 | 10-2 |

TABLE 6. PERFORMANCE OF EARLY GROUP IV SOYBEANS - 1993.

| BRAND VARIETY OR VARIETY | WASHINGTON BU/A | POD† MATURITY DATE | LODGING | PLANT HEIGHT INCHES |
|-----------------------------|--------------------|--------------------------|---------|---------------------------|
| Hartz H4464 | 39** | 10-6 | 2.0 | 38 |
| Deltapine DP 3456 | 36* | 10-12 | 1.4 | 31 |
| Pioneer 9442 | 36* | 10-6 | 1.4 | 32 |
| +FFR Exp 19921 | 31 | 10-6 | 1.0 | 35 |
| TN 4-86 | 29 | 10-5 | 1.0 | 40 |
| Pioneer 9461 | 28 | 10-5 | 1.8 | 30 |
| FFR 439 | 26 | 10-4 | 1.0 | 26 |
| DeKalb CX415 | 25 | 10-4 | 1.4 | 30 |
| NK S46-44 | 24 | 10-12 | 1.0 | 36 |
| Mean | 30 | | | |
| C.V. (%) | 19.5 | | | |
| BLSD (K-50) | 8 | | | |
| s.e. | 2.6 | | | |
| Error d.f. | 36 | | | |

+Experimental. Seed of these varieties may or may not be available in 1994 and may have a different designation.

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

†Pod maturity data collected at Johnston County from soybeans planted June 23, 1993.

TABLE 7. ONE, TWO, AND THREE YEAR AVERAGES OF EARLY GROUP IV SOYBEANS AT WASHINGTON COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 BU/A | 1992, 1993 BU/A | 1991, 1992, 1993 BU/A |
|-----------------------------|--------------|--------------------|--------------------------|
| Deltapine DP 3456 | 36 | 34 | 41 |
| TN 4-86 | 29 | 31 | 33 |
| Pioneer 9442 | 36 | 29 | |
| Pioneer 9461 | 28 | 28 | |

TABLE 8. PERFORMANCE OF LATE GROUP IV SOYBEANS COMBINED OVER LOCATIONS.

| BRAND-VARIETY OR VARIETY | YIELD BUS/A | LODGING | PLANT HEIGHT INCHES | POD MATURITY DATE |
|---|----------------|---------|---------------------------|-------------------------|
| THREE-YEAR AVERAGE 1991, 1992, AND 1993 | | | | |
| NK RA 452 | 52 | 1.3 | 34 | 10-9 |
| SS 487 | 45 | 1.1 | 29 | 9-29 |
| NK S48-84 | 44 | 1.5 | 32 | 10-2 |
| TN 4-86 | 36 | 1.4 | 36 | 10-1 |
| TWO-YEAR AVERAGE - 1992, 1993 | | | | |
| NK RA 452 | 46 | 1.1 | 33 | 10-12 |
| Pioneer 9501 | 45 | 1.2 | 34 | 10-14 |
| SS 487 | 39 | 1.0 | 27 | 10-4 |
| NK S48-84 | 37 | 1.5 | 32 | 10-7 |
| Manokin | 37 | 1.6 | 32 | 10-3 |
| TN 4-86 | 35 | 1.3 | 37 | 10-4 |

TABLE 9. PERFORMANCE OF LATE GROUP IV SOYBEANS - 1993.

| BRAND VARIETY OR VARIETY | WASHINGTON BU/A | ANSON BU/A | Average | | | PLANT HEIGHT INCHES |
|-----------------------------|--------------------|---------------|---------------|--------------------------|---------|---------------------------|
| | | | YIELD BU/A | POD† MATURITY DATE | LODGING | |
| NK RA 452 | 52** | 60** | 56** | 10-19 | 1.0 | 35 |
| Deltapine DP 3478 | 46* | 58* | 52* | 10-17 | 1.2 | 36 |
| SS 487 | 48* | 48 | 48* | 10-7 | 1.1 | 29 |
| NK S48-84 | 38 | 57* | 48* | 10-12 | 1.0 | 33 |
| Pioneer 9501 | 52** | 41 | 46* | 10-15 | 1.0 | 36 |
| Dyna-Gro DG-3495 | 42 | 51* | 46* | 10-19 | 1.0 | 39 |
| HY 498 | 42 | 49 | 45* | 10-18 | 1.0 | 33 |
| Deltapine DP 3499 | 38 | 52* | 45* | 10-22 | 1.1 | 39 |
| +HB2-X484 | 42 | 48 | 45* | 10-6 | 1.2 | 34 |
| FFR 493 | 42 | 40 | 41* | 10-19 | 1.0 | 34 |
| Chesapeake | 32 | 50 | 41* | 10-7 | 1.0 | 29 |
| DeKalb CX469C | 31 | 49 | 40* | 10-6 | 1.2 | 31 |
| TN 4-86 | 32 | 44 | 38* | 10-6 | 1.2 | 43 |
| Manokin | 31 | 39 | 35* | 10-4 | 1.3 | 33 |
| Mean | 41 | 49 | 45 | | | |
| C.V. (%) | 17.5 | 16.6 | 13.0 | | | |
| BLSD (K-50) | 8 | 10 | NS | | | |
| s.e. | 3.2 | 3.6 | 1.8 | | | |
| Error d.f. | 51 | 53 | 13 | | | |

+Experimental. Seed of these varieties may or may not be available in 1994 and may have a different designation.

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

†Pod maturity data collected at Johnston County from soybeans planted June 23, 1993.

TABLE 10. ONE, TWO, AND THREE YEAR AVERAGES OF LATE GROUP IV SOYBEANS.

| BRAND-VARIETY OR VARIETY | 1993 BU/A | 1992, 1993 BU/A | 1991, 1992, 1993 BU/A |
|-----------------------------|--------------|--------------------|--------------------------|
| <u>WASHINGTON COUNTY</u> | | | |
| Pioneer 9501 | 52 | 51 | |
| NK RA 452 | 52 | 48 | 52 |
| SS 487 | 48 | 42 | 44 |
| NK S48-84 | 38 | 38 | 41 |
| Manokin | 31 | 34 | |
| TN 4-86 | 32 | 33 | 34 |
| <u>ANSON COUNTY†</u> | | | |
| NK RA 452 | 60 | 43 | 52 |
| Manokin | 39 | 40 | |
| Pioneer 9501 | 41 | 39 | |
| TN 4-86 | 44 | 37 | 38 |
| NK S48-84 | 57 | 37 | 47 |
| SS 487 | 48 | 36 | 47 |

†Stanly county in 1991 and 1992.

TABLE 11. PERFORMANCE OF EARLY PLANTED GROUP V SOYBEANS
COMBINED OVER LOCATIONS.

| BRAND-VARIETY OR VARIETY | YIELD BUS/A | LODGING | PLANT HEIGHT INCHES | POD† MATURITY DATE |
|---|----------------|---------|------------------------|--------------------------|
| THREE-YEAR AVERAGE 1991, 1992, AND 1993 | | | | |
| Asgrow A5979 | 48 | 1.6 | 33 | 10-17 |
| Holladay | 47 | 1.4 | 27 | 10-17 |
| Pioneer 9583 | 46 | 1.1 | 27 | 10-16 |
| Hartz H5258 | 46 | 1.4 | 32 | 10-16 |
| +N87-325 | 46 | 1.6 | 30 | 10-13 |
| HSC 591 | 46 | 1.6 | 36 | 10-21 |
| FFR 561 | 45 | 1.2 | 31 | 10-17 |
| Hartz H5566 | 45 | 1.6 | 32 | 10-17 |
| Asgrow A5403 | 45 | 1.1 | 33 | 10-15 |
| Deltapine 105 | 44 | 2.0 | 34 | 10-17 |
| Hutcheson | 44 | 1.4 | 30 | 10-15 |
| FFR 562 | 44 | 1.9 | 37 | 10-17 |
| NK Coker 485 | 43 | 1.8 | 34 | 10-16 |
| NK S59-60 | 42 | 2.2 | 32 | 10-17 |
| Deltapine 415 | 41 | 1.3 | 30 | 10-16 |
| FFR 595 | 41 | 1.4 | 34 | 10-19 |
| TWO-YEAR AVERAGE - 1992, 1993 | | | | |
| Holladay | 50 | 1.5 | 28 | 10-18 |
| Asgrow A5979 | 48 | 1.9 | 34 | 10-19 |
| +N86-7682 | 48 | 1.6 | 33 | 10-20 |
| Asgrow A5403 | 48 | 1.2 | 34 | 10-18 |
| Pioneer 9583 | 47 | 1.1 | 27 | 10-18 |
| +N87-325 | 47 | 2.0 | 31 | 10-16 |
| FFR 561 | 46 | 1.3 | 31 | 10-19 |
| Hartz H5566 | 46 | 2.0 | 34 | 10-19 |
| HSC 591 | 46 | 1.8 | 37 | 10-23 |
| Hartz H5258 | 45 | 1.5 | 34 | 10-18 |
| Hartz H5350 | 45 | 1.4 | 31 | 10-18 |
| FFR 562 | 45 | 2.0 | 40 | 10-19 |
| Deltapine 105 | 44 | 2.1 | 35 | 10-18 |
| Pioneer 9584 | 44 | 1.5 | 35 | 10-16 |
| FFR 542 | 43 | 1.3 | 33 | 10-19 |
| Hutcheson | 43 | 1.7 | 31 | 10-17 |
| Deltapine 415 | 43 | 1.4 | 32 | 10-18 |
| +Deltapine DPX 3553 | 43 | 1.9 | 34 | 10-20 |
| NK Coker 485 | 42 | 2.0 | 34 | 10-18 |
| Deltapine DP 3589 | 41 | 1.8 | 41 | 10-22 |
| FFR 595 | 41 | 1.6 | 36 | 10-22 |
| Dyna-Gro DG-3576 | 40 | 2.9 | 31 | 10-18 |
| NK S59-60 | 40 | 2.5 | 33 | 10-19 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.
†WASHINGTON COUNTY, 1991 AND 1992; JOHNSTON COUNTY, 1993.

TABLE 12. DATA COMBINED OVER LOCATIONS FOR EARLY PLANTED
GROUP V SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | YIELD BU/A | POD† MATURITY DATE | LODGING | PLANT HEIGHT INCHES |
|-----------------------------|---------------|--------------------------|---------|---------------------------|
| Asgrow A5979 | 43 | 10-22 | 1.8 | 32 |
| Pioneer 9583 | 41 | 10-20 | 1.0 | 24 |
| Hartz H5350 | 41 | 10-21 | 1.1 | 28 |
| FFR 561 | 41 | 10-22 | 1.0 | 28 |
| +Ciba 5903Y | 40 | 10-27 | 1.1 | 36 |
| +X9357 | 39 | 10-20 | 1.2 | 33 |
| Holladay | 39 | 10-20 | 1.1 | 25 |
| Asgrow A5403 | 39 | 10-19 | 1.0 | 31 |
| FFR 583 | 39 | 10-22 | 1.7 | 34 |
| Buckshot 55 | 39 | 10-19 | 2.3 | 29 |
| Hartz H5566 | 38 | 10-22 | 1.7 | 32 |
| HSC 591 | 38 | 10-27 | 1.8 | 35 |
| +Ciba 5703Y | 38 | 10-21 | 2.0 | 31 |
| Deltapine 105 | 38 | 10-20 | 2.0 | 34 |
| Hartz H5258 | 38 | 10-19 | 1.3 | 31 |
| +N86-7682 | 38 | 10-21 | 1.2 | 30 |
| +N87-325 | 38 | 10-19 | 1.8 | 27 |
| Hutcheson | 38 | 10-22 | 1.1 | 30 |
| FFR 562 | 37 | 10-22 | 1.9 | 39 |
| +Ciba 5905Y | 37 | 10-27 | 2.0 | 35 |
| Deltapine 415 | 37 | 10-19 | 1.0 | 30 |
| FFR 595 | 36 | 10-26 | 1.4 | 36 |
| FFR 500 | 36 | 10-20 | 1.2 | 24 |
| FFR 542 | 36 | 10-24 | 1.1 | 31 |
| FFR 553 | 36 | 10-19 | 1.0 | 30 |
| Deltapine DP 3589 | 35 | 10-27 | 1.6 | 40 |
| NK Coker 485 | 35 | 10-21 | 1.9 | 33 |
| TN 5-92 | 34 | 10-18 | 1.7 | 33 |
| Pioneer 9584 | 34 | 10-19 | 1.3 | 33 |
| NK S59-60 | 34 | 10-22 | 2.2 | 30 |
| +Vigoro Exp 563 | 33 | 10-15 | 1.1 | 31 |
| +Ciba 5803Y | 33 | 10-19 | 1.2 | 30 |
| Asgrow A5885 | 33 | 10-16 | 1.2 | 35 |
| FFR 563 | 33 | 10-25 | 1.1 | 28 |
| Dyna-Gro DG-3576 | 32 | 10-21 | 2.7 | 29 |
| +Deltapine DPX 3553 | 32 | 10-19 | 1.6 | 32 |
| Asgrow A5112 | 29 | 10-17 | 1.0 | 24 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE
IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS
PLANTED JUNE 23, 1993.

TABLE 13. INDIVIDUAL LOCATION DATA FOR EARLY PLANTED GROUP V SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | WASHINGTON BU/A | COLUMBUS BU/A | BERTIE BU/A | YIELD BU/A |
|-----------------------------|--------------------|------------------|----------------|---------------|
| Asgrow A5979 | 47** | 51 | 31* | 43** |
| Pioneer 9583 | 41* | 58* | 24* | 41* |
| Hartz H5350 | 42* | 58* | 22* | 41* |
| FFR 561 | 42* | 53 | 26* | 41* |
| +Ciba 5903Y | 37 | 53 | 31* | 40* |
| +X9357 | 31 | 55* | 32** | 39* |
| Holladay | 39* | 57* | 22* | 39* |
| Asgrow A5403 | 40* | 53 | 24* | 39* |
| FFR 583 | 37 | 59* | 21* | 39* |
| Buckshot 55 | 41* | 45 | 30* | 39* |
| Hartz H5566 | 36 | 52 | 27* | 38* |
| HSC 591 | 43* | 50 | 22* | 38* |
| +Ciba 5703Y | 46* | 49 | 20* | 38* |
| Deltapine 105 | 42* | 50 | 23* | 38* |
| Hartz H5258 | 34 | 53 | 26* | 38* |
| +N86-7682 | 37 | 56* | 20* | 38* |
| +N87-325 | 25 | 61* | 27* | 38* |
| Hutcheson | 29 | 63** | 21* | 38* |
| FFR 562 | 37 | 53 | 22* | 37* |
| +Ciba 5905Y | 40* | 47 | 23* | 37* |
| Deltapine 415 | 35 | 52 | 23* | 37* |
| FFR 595 | 35 | 48 | 25* | 36* |
| FFR 500 | 33 | 51 | 23* | 36* |
| FFR 542 | 34 | 46 | 28* | 36* |
| FFR 553 | 34 | 51 | 22* | 36* |
| Deltapine DP 3589 | 36 | 47 | 23* | 35* |
| NK Coker 485 | 34 | 44 | 26* | 35* |
| TN 5-92 | 33 | 46 | 24* | 34* |
| Pioneer 9584 | 39* | 42 | 22* | 34* |
| NK S59-60 | 37 | 43 | 20* | 34* |
| +Vigoro Exp 563 | 37 | 40 | 23* | 33* |
| +Ciba 5803Y | 27 | 47 | 26* | 33* |
| Asgrow A5885 | 33 | 45 | 22* | 33* |
| FFR 563 | 29 | 46 | 23* | 33* |
| Dyna-Gro DG-3576 | 27 | 42 | 27* | 32 |
| +Deltapine DPX 3553 | 25 | 45 | 25* | 32 |
| Asgrow A5112 | 25 | 42 | 21* | 29 |
| Mean | 35 | 50 | 24 | 36 |
| C.V. (%) | 16.4 | 12.5 | 21.8 | 13.4 |
| BLSD (K-50) | 9 | 10 | NS | 11 |
| s.e. | 3.3 | 3.6 | 3.0 | 1.6 |
| Error d.f. | 75 | 72 | 70 | 76 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

**HIGHEST YIELDER. *NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

TABLE 14. ONE, TWO, AND THREE YEAR AVERAGES EARLY FOR PLANTED GROUP V SOYBEANS AT WASHINGTON COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1991, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Asgrow A5979 | 47 | 44 | 49 |
| HSC 591 | 43 | 42 | 45 |
| Hartz H5350 | 42 | 41 | |
| Holladay | 39 | 41 | 44 |
| Pioneer 9583 | 41 | 39 | 43 |
| Asgrow A5403 | 40 | 39 | 42 |
| Deltapine 105 | 42 | 39 | 42 |
| Hartz H5566 | 36 | 38 | 41 |
| FFR 561 | 42 | 38 | 44 |
| Pioneer 9584 | 39 | 38 | |
| FFR 595 | 35 | 37 | 43 |
| +N86-7682 | 37 | 37 | |
| FFR 562 | 37 | 37 | 40 |
| NK S59-60 | 37 | 36 | 43 |
| Deltapine DP 3589 | 36 | 36 | |
| NK Coker 485 | 34 | 35 | 39 |
| Hartz H5258 | 34 | 34 | 41 |
| Deltapine 415 | 35 | 34 | 37 |
| FFR 542 | 34 | 33 | |
| Hutcheson | 29 | 31 | 39 |
| +Deltapine DPX 3553 | 25 | 31 | |
| Dyna-Gro DG-3576 | 27 | 29 | |
| +N87-325 | 25 | 29 | 36 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 15. ONE, TWO, AND THREE YEAR AVERAGES FOR
EARLY PLANTED GROUP V SOYBEANS
AT COLUMBUS COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1991, 1993 YIELD BU/A | 1990, 1991, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Hutcheson | 63 | 52 | 52 |
| Pioneer 9583 | 58 | 50 | |
| +N87-325 | 61 | 48 | 42 |
| FFR 562 | 53 | 46 | 47 |
| Holladay | 57 | 44 | 47 |
| Hartz H5566 | 52 | 44 | 48 |
| FFR 561 | 53 | 43 | 46 |
| Hartz H5258 | 53 | 42 | 47 |
| HSC 591 | 50 | 42 | 44 |
| Deltapine 105 | 50 | 42 | 46 |
| Asgrow A5979 | 51 | 41 | 47 |
| Deltapine 415 | 52 | 41 | 42 |
| Asgrow A5403 | 53 | 40 | 44 |
| FFR 595 | 48 | 39 | 42 |
| NK S59-60 | 43 | 38 | |
| NK Coker 485 | 44 | 37 | |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE
AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 16. ONE, TWO, AND THREE YEAR AVERAGES FOR
EARLY PLANTED GROUP V SOYBEANS AT BERTIE COUNTY†.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1990, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Holladay | 22 | 46 | 46 |
| Pioneer 9583 | 24 | 44 | |
| FFR 561 | 26 | 44 | 47 |
| Asgrow A5979 | 31 | 43 | 47 |
| Asgrow A5403 | 24 | 43 | 42 |
| Hartz H5258 | 26 | 43 | 47 |
| +N87-325 | 27 | 42 | 38 |
| +N86-7682 | 20 | 42 | |
| FFR 542 | 28 | 41 | |
| Hartz H5566 | 27 | 41 | 43 |
| Dyna-Gro DG-3576 | 27 | 40 | |
| NK Coker 485 | 26 | 40 | |
| FFR 562 | 22 | 40 | 44 |
| Pioneer 9584 | 22 | 40 | |
| Hartz H5350 | 22 | 40 | |
| +Deltapine DPX 3553 | 25 | 39 | |
| Deltapine 415 | 23 | 39 | 41 |
| Deltapine DP 3589 | 23 | 38 | |
| Hutcheson | 21 | 38 | 42 |
| FFR 595 | 25 | 37 | 40 |
| HSC 591 | 22 | 37 | 39 |
| Deltapine 105 | 23 | 36 | 41 |
| NK S59-60 | 20 | 35 | |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE
IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

†WILSON COUNTY IN 1990.

TABLE 17. PERFORMANCE OF EARLY PLANTED GROUP VI SOYBEANS COMBINED OVER LOCATIONS.

| BRAND-VARIETY OR VARIETY | YIELD BUS/A | LODGING | PLANT HEIGHT INCHES | POD† MATURITY DATE |
|---|----------------|---------|------------------------|--------------------------|
| THREE-YEAR AVERAGE 1991, 1992, AND 1993 | | | | |
| Hartz 6686 | 55 | 1.3 | 34 | 10-23 |
| Brim | 50 | 1.7 | 34 | 10-18 |
| Asgrow A6297 | 49 | 1.6 | 35 | 10-25 |
| Ciba 3615 | 46 | 1.5 | 36 | 10-19 |
| Pioneer 9641 | 46 | 1.8 | 34 | 10-21 |
| Young | 45 | 1.9 | 38 | 10-20 |
| Deltapine DP 3627 | 45 | 1.8 | 35 | 10-20 |
| Deltapine 726 | 44 | 2.0 | 39 | 10-27 |
| FFR 671 | 43 | 1.9 | 40 | 10-23 |
| HSC B2J | 43 | 1.7 | 36 | 10-18 |
| Centennial | 42 | 1.6 | 38 | 10-21 |
| FFR 695 | 40 | 1.3 | 36 | 10-24 |
| TWO-YEAR AVERAGE - 1992, 1993 | | | | |
| Hartz 6686 | 55 | 1.4 | 34 | 10-23 |
| Asgrow A6297 | 51 | 1.9 | 36 | 10-29 |
| Brim | 50 | 1.8 | 37 | 10-18 |
| Pioneer 9692 | 49 | 1.5 | 35 | 10-26 |
| HY 677 | 48 | 1.3 | 33 | 10-28 |
| Ciba 3615 | 48 | 1.8 | 37 | 10-21 |
| TN 6-90 | 47 | 1.6 | 34 | 10-26 |
| Pioneer 9641 | 47 | 2.0 | 34 | 10-23 |
| Ciba 3602 | 47 | 1.8 | 37 | 10-18 |
| Deltapine DP 3606 | 47 | 2.4 | 38 | 10-25 |
| Deltapine DP 3627 | 47 | 2.0 | 36 | 10-21 |
| Young | 46 | 2.1 | 39 | 10-22 |
| +HB2-X683 | 46 | 1.8 | 35 | 10-22 |
| NK S62-66 | 45 | 2.4 | 32 | 10-23 |
| Deltapine 726 | 45 | 2.3 | 39 | 10-28 |
| Deltapine DP 3682 | 45 | 2.0 | 39 | 10-29 |
| HSC B2J | 44 | 1.9 | 35 | 10-21 |
| FFR 671 | 44 | 2.2 | 41 | 10-24 |
| Centennial | 42 | 1.8 | 38 | 10-22 |
| FFR 695 | 41 | 1.6 | 35 | 10-24 |
| Buckshot 66 | 40 | 2.4 | 43 | 10-26 |
| +N87-984 | 39 | 2.0 | 37 | 10-19 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.
†WASHINGTON COUNTY, 1991 AND 1992; JOHNSTON COUNTY, 1993.

TABLE 18. DATA COMBINED OVER LOCATIONS FOR EARLY PLANTED
GROUP VI SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | YIELD BU/A | POD† MATURITY DATE | LODGING | PLANT HEIGHT INCHES |
|-----------------------------|---------------|--------------------------|---------|---------------------------|
| Asgrow A6297 | 45 | 11-4 | 1.4 | 33 |
| Hartz 6686 | 45 | 10-22 | 1.2 | 34 |
| Brim | 43 | 10-19 | 1.3 | 38 |
| Deltapine DP 3606 | 43 | 10-27 | 2.3 | 35 |
| TN 6-90 | 42 | 10-29 | 1.4 | 35 |
| +SC 84-931 | 42 | 10-30 | 1.3 | 35 |
| Hartz H6500 | 41 | 10-26 | 1.0 | 34 |
| Pioneer 9692 | 41 | 10-27 | 1.4 | 34 |
| +N89-566 | 41 | 10-27 | 1.6 | 38 |
| FFR 663 | 40 | 10-24 | 1.4 | 34 |
| Young | 40 | 10-25 | 2.0 | 39 |
| +X9365 | 39 | 10-25 | 1.4 | 33 |
| Deltapine DP 3627 | 39 | 10-22 | 1.8 | 33 |
| Pioneer 9641 | 39 | 10-26 | 1.8 | 31 |
| HY 677 | 39 | 10-30 | 1.1 | 28 |
| Deltapine DP 3682 | 39 | 11-1 | 1.6 | 36 |
| +X9366 | 39 | 10-26 | 1.2 | 34 |
| Ciba 3615 | 39 | 10-22 | 1.7 | 33 |
| +HB2-X683 | 38 | 10-27 | 1.4 | 33 |
| +Asgrow XP6711 | 38 | 10-27 | 1.2 | 35 |
| Ciba 3602 | 37 | 10-21 | 1.4 | 33 |
| +Ciba 6001Y | 36 | 10-21 | 1.9 | 33 |
| Centennial | 36 | 10-24 | 1.7 | 37 |
| Pioneer 9691 | 36 | 10-27 | 2.1 | 36 |
| Dyna-Gro DG-3682 | 36 | 10-27 | 2.1 | 36 |
| Deltapine 726 | 36 | 11-1 | 2.0 | 36 |
| HSC B2J | 36 | 10-22 | 1.9 | 36 |
| FFR 671 | 35 | 10-24 | 1.9 | 41 |
| +Ciba 6102Y | 35 | 10-19 | 1.7 | 30 |
| Buckshot 66 | 35 | 10-29 | 2.4 | 41 |
| FFR 695 | 34 | 10-27 | 1.4 | 31 |
| +N87-984 | 34 | 10-22 | 1.8 | 34 |
| +Vigoro Exp 633 | 33 | 10-22 | 1.6 | 32 |
| NK S62-66 | 33 | 10-21 | 2.2 | 29 |
| +N90-707 | 32 | 10-27 | 1.4 | 34 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE
IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS
PLANTED JUNE 23, 1993.

TABLE 19. INDIVIDUAL LOCATION DATA FOR EARLY PLANTED GROUP VI SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | WASHINGTON BU/A | COLUMBUS BU/A | BERTIE BU/A | YIELD BU/A |
|-----------------------------|--------------------|------------------|----------------|---------------|
| Asgrow A6297 | 49** | 62* | 25* | 45** |
| Hartz 6686 | 39 | 62* | 34* | 45** |
| Brim | 43* | 61* | 25* | 43* |
| Deltapine DP 3606 | 42* | 59* | 28* | 43* |
| TN 6-90 | 49** | 54* | 25* | 42* |
| +SC 84-931 | 43* | 58* | 26* | 42* |
| Hartz H6500 | 37 | 57* | 30* | 41* |
| Pioneer 9692 | 37 | 63** | 25* | 41* |
| +N89-566 | 42* | 53* | 28* | 41* |
| FFR 663 | 42* | 53* | 26* | 40* |
| Young | 41* | 54* | 25* | 40* |
| +X9365 | 37 | 63** | 18* | 39* |
| Deltapine DP 3627 | 34 | 45 | 39** | 39* |
| Pioneer 9641 | 43* | 51 | 23* | 39* |
| HY 677 | 37 | 56* | 24* | 39* |
| Deltapine DP 3682 | 35 | 56* | 26* | 39* |
| +X9366 | 35 | 53* | 29* | 39* |
| Ciba 3615 | 41* | 53* | 23* | 39* |
| +HB2-X683 | 39 | 50 | 26* | 38* |
| +Asgrow XP6711 | 39 | 53* | 21* | 38* |
| Ciba 3602 | 40* | 51 | 22* | 37* |
| +Ciba 6001Y | 39 | 48 | 22* | 36* |
| Centennial | 31 | 49 | 29* | 36* |
| Pioneer 9691 | 36 | 47 | 27* | 36* |
| Dyna-Gro DG-3682 | 34 | 48 | 26* | 36* |
| Deltapine 726 | 42* | 40 | 26* | 36* |
| HSC B2J | 38 | 47 | 23* | 36* |
| FFR 671 | 31 | 49 | 24* | 35 |
| +Ciba 6102Y | 33 | 52* | 20* | 35 |
| Buckshot 66 | 38 | 38 | 28* | 35 |
| FFR 695 | 31 | 52* | 19* | 34 |
| +N87-984 | 37 | 49 | 16* | 34 |
| +Vigoro Exp 633 | 33 | 47 | 20* | 33 |
| NK S62-66 | 33 | 41 | 25* | 33 |
| +N90-707 | 28 | 43 | 25* | 32 |
| Mean | 38 | 52 | 25 | 38 |
| C.V. (%) | 14.8 | 13.5 | 25.7 | 12.7 |
| B LSD (K-50) | 10 | 12 | NS | 10 |
| s.e. | 3.2 | 4.2 | 3.7 | 1.6 |
| Error d.f. | 68 | 65 | 64 | 68 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.
**HIGHEST YIELDER. *NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

TABLE 20. ONE, TWO, AND THREE YEAR AVERAGES FOR
EARLY PLANTED GROUP VI SOYBEANS AT WASHINGTON
COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1991, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| TN 6-90 | 49 | 48 | |
| Hartz 6686 | 39 | 46 | 53 |
| Asgrow A6297 | 49 | 46 | 50 |
| HY 677 | 37 | 45 | |
| +HB2-X683 | 39 | 45 | |
| Deltapine 726 | 42 | 44 | 45 |
| Brim | 43 | 44 | 47 |
| Pioneer 9692 | 37 | 44 | |
| Ciba 3615 | 41 | 43 | 47 |
| Pioneer 9641 | 43 | 43 | 45 |
| Ciba 3602 | 40 | 43 | |
| Deltapine DP 3606 | 42 | 42 | |
| NK S62-66 | 33 | 42 | |
| Deltapine DP 3682 | 35 | 41 | |
| Deltapine DP 3627 | 34 | 40 | 43 |
| HSC B2J | 38 | 40 | 42 |
| Young | 41 | 39 | 42 |
| Buckshot 66 | 38 | 39 | |
| +N87-984 | 37 | 37 | |
| FFR 671 | 31 | 35 | 41 |
| FFR 695 | 31 | 35 | 40 |
| Centennial | 31 | 33 | 40 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE
AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 21. ONE, TWO, AND THREE YEAR AVERAGES FOR
EARLY PLANTED GROUP VI SOYBEANS AT COLUMBUS
COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1991, 1993 YIELD BU/A | 1990, 1991, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Brim | 61 | 48 | 55 |
| Asgrow A6297 | 62 | 46 | 50 |
| Hartz 6686 | 62 | 46 | 52 |
| Pioneer 9641 | 51 | 42 | 46 |
| Centennial | 49 | 42 | 44 |
| Young | 54 | 42 | 43 |
| FFR 695 | 52 | 40 | 46 |
| Deltapine DP 3627 | 45 | 39 | 42 |
| HSC B2J | 47 | 38 | 40 |
| Ciba 3615 | 53 | 38 | 46 |
| Deltapine 726 | 40 | 37 | 41 |
| FFR 671 | 49 | 35 | |

TABLE 22. ONE, TWO, AND THREE YEAR AVERAGES FOR
EARLY PLANTED GROUP VI SOYBEANS AT BERTIE COUNTY†.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1990, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Hartz 6686 | 34 | 50 | 49 |
| Deltapine DP 3627 | 39 | 45 | 44 |
| Asgrow A6297 | 25 | 43 | 47 |
| Brim | 25 | 42 | 47 |
| Pioneer 9641 | 23 | 41 | 45 |
| NK S62-66 | 25 | 41 | |
| Pioneer 9692 | 25 | 41 | |
| Ciba 3615 | 23 | 41 | 43 |
| FFR 671 | 24 | 40 | |
| Deltapine DP 3606 | 28 | 40 | |
| Deltapine 726 | 26 | 40 | 41 |
| HY 677 | 24 | 40 | |
| Young | 25 | 39 | 42 |
| HSC B2J | 23 | 39 | 39 |
| +HB2-X683 | 26 | 39 | |
| TN 6-90 | 25 | 38 | |
| Buckshot 66 | 28 | 38 | |
| Centennial | 29 | 38 | 41 |
| Deltapine DP 3682 | 26 | 37 | |
| Ciba 3602 | 22 | 37 | |
| FFR 695 | 19 | 33 | 36 |
| +N87-984 | 16 | 31 | |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE
AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.
†WILSON COUNTY IN 1990.

TABLE 23. PERFORMANCE OF EARLY PLANTED GROUPS VII AND VIII SOYBEANS COMBINED OVER LOCATIONS.

| BRAND-VARIETY OR VARIETY | YIELD BUS/A | LODGING | PLANT HEIGHT INCHES | POD† MATURITY DATE |
|---|----------------|---------|------------------------|--------------------------|
| THREE-YEAR AVERAGE 1991, 1992, AND 1993 | | | | |
| Cook | 47 | 2.0 | 38 | 10-31 |
| Buckshot 723 | 45 | 2.1 | 38 | 11-1 |
| NK Coker 6738 | 45 | 1.5 | 37 | 11-3 |
| Pioneer 9761 | 45 | 1.5 | 36 | 10-30 |
| Deltapine DP 3733 | 44 | 1.5 | 38 | 10-27 |
| Maxcy | 44 | 2.3 | 38 | 11-4 |
| NK S83-30 | 43 | 2.1 | 38 | 11-5 |
| Deltapine 417 | 43 | 2.2 | 42 | 11-6 |
| Hartz H7190 | 43 | 1.7 | 33 | 10-28 |
| NK Coker 6847 | 43 | 1.7 | 36 | 10-30 |
| HSC 741 | 43 | 1.9 | 36 | 10-29 |
| Braxton | 42 | 1.6 | 38 | 10-29 |
| Deltapine DP 3776 | 42 | 1.5 | 40 | 11-2 |
| Stonewall | 42 | 2.0 | 37 | 10-27 |
| Pioneer 9711 | 42 | 2.0 | 34 | 10-27 |
| HSC 721 | 42 | 3.0 | 37 | 10-27 |
| Perrin | 41 | 1.8 | 39 | 11-6 |
| FFR 731 | 40 | 1.9 | 35 | 10-28 |
| TWO-YEAR AVERAGE - 1992, 1993 | | | | |
| Pioneer 9831 | 49 | 1.5 | 36 | 11-3 |
| NK S75-55 | 47 | 1.8 | 37 | 10-30 |
| Cook | 46 | 1.8 | 39 | 11-1 |
| NK Coker 6738 | 46 | 1.5 | 38 | 11-5 |
| Hartz H7190 | 45 | 1.7 | 34 | 10-30 |
| Buckshot 723 | 44 | 2.1 | 38 | 11-1 |
| Pioneer 9761 | 44 | 1.4 | 36 | 10-30 |
| +HB2-X733 | 44 | 1.2 | 35 | 10-30 |
| Braxton | 44 | 1.5 | 38 | 10-28 |
| HSC 741 | 44 | 1.8 | 36 | 10-30 |
| Maxcy | 44 | 2.2 | 39 | 11-4 |
| NK S83-30 | 44 | 1.9 | 38 | 11-5 |
| Stonewall | 43 | 1.9 | 36 | 10-28 |
| Deltapine DP 3733 | 43 | 1.4 | 38 | 10-28 |
| NK Coker 6847 | 43 | 1.7 | 37 | 10-30 |
| Deltapine 417 | 43 | 2.1 | 42 | 11-6 |
| HSC 721 | 42 | 3.0 | 37 | 10-30 |
| Pioneer 9711 | 41 | 2.0 | 34 | 10-26 |
| Perrin | 41 | 1.8 | 39 | 11-6 |
| Deltapine DP 3776 | 41 | 1.4 | 40 | 11-3 |
| FFR 731 | 40 | 1.7 | 36 | 10-30 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

†WASHINGTON COUNTY, 1991 AND 1992; JOHNSTON COUNTY, 1993.

TABLE 24. DATA COMBINED OVER LOCATIONS FOR EARLY PLANTED GROUPS VII AND VIII SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | YIELD BU/A | POD† MATURITY DATE | LODGING | PLANT HEIGHT INCHES |
|-----------------------------|---------------|--------------------------|---------|---------------------------|
| Pioneer 9831 | 47 | 11-4 | 1.2 | 35 |
| NK S83-30 | 44 | 11-9 | 1.5 | 38 |
| NK S75-55 | 44 | 11-1 | 1.4 | 36 |
| Cook | 44 | 11-6 | 1.3 | 37 |
| Pioneer 9721 | 44 | 11-3 | 1.2 | 36 |
| NK Coker 6738 | 43 | 11-8 | 1.4 | 35 |
| Haskell | 42 | 11-7 | 1.7 | 34 |
| Hartz H7190 | 42 | 11-4 | 1.2 | 31 |
| Buckshot 723 | 42 | 11-4 | 1.5 | 36 |
| Braxton | 41 | 10-29 | 1.1 | 37 |
| NK Coker 6847 | 41 | 11-3 | 1.1 | 37 |
| Maxcy | 41 | 11-7 | 1.8 | 38 |
| Pioneer 9761 | 41 | 11-3 | 1.2 | 33 |
| +HB3-X782 | 41 | 11-4 | 1.9 | 31 |
| HSC 741 | 41 | 11-3 | 1.7 | 36 |
| +HB2-X733 | 40 | 11-4 | 1.1 | 35 |
| Deltapine 417 | 40 | 11-11 | 1.7 | 42 |
| Deltapine DP 3733 | 40 | 11-1 | 1.0 | 39 |
| Hagood | 39 | 11-9 | 1.8 | 37 |
| Stonewall | 38 | 10-29 | 1.3 | 35 |
| Pioneer 9711 | 38 | 10-27 | 1.6 | 33 |
| HSC 721 | 37 | 11-3 | 2.8 | 37 |
| +Vigoro Exp 713 | 37 | 11-4 | 1.2 | 32 |
| Deltapine DP 3776 | 37 | 11-9 | 1.1 | 38 |
| Perrin | 37 | 11-11 | 1.3 | 39 |
| FFR 731 | 36 | 11-4 | 1.4 | 35 |
| Hartz H7550 | 35 | 11-4 | 1.2 | 38 |
| HY 798 | 32 | 11-4 | 1.9 | 35 |
| +NTCPR90-172 | 31 | 11-4 | 1.3 | 31 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS PLANTED JUNE 23, 1993.

TABLE 25. INDIVIDUAL LOCATION DATA FOR EARLY PLANTED
GROUPS VII AND VIII SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | WASHINGTON BU/A | LENOIR BU/A | COLUMBUS BU/A | BERTIE BU/A | YIELD BU/A |
|-----------------------------|--------------------|----------------|------------------|----------------|---------------|
| Pioneer 9831 | 38** | 42* | 67* | 39* | 47** |
| NK S83-30 | 37* | 39 | 70** | 31 | 44* |
| NK S75-55 | 36* | 42* | 59* | 39* | 44* |
| Cook | 32* | 48** | 57 | 37* | 44* |
| Pioneer 9721 | 31* | 42* | 54 | 47** | 44* |
| NK Coker 6738 | 34* | 46* | 55 | 37* | 43* |
| Haskell | 29 | 46* | 57 | 35* | 42 |
| Hartz H7190 | 31* | 42* | 55 | 38* | 42 |
| Buckshot 723 | 29 | 46* | 56 | 35* | 42 |
| Braxton | 34* | 38 | 56 | 38* | 41 |
| NK Coker 6847 | 31* | 39 | 58 | 36* | 41 |
| Maxcy | 31* | 42* | 60* | 31 | 41 |
| Pioneer 9761 | 30 | 40 | 56 | 38* | 41 |
| +HB3-X782 | 30 | 41* | 57 | 35* | 41 |
| HSC 741 | 30 | 38 | 64* | 31 | 41 |
| +HB2-X733 | 29 | 32 | 60* | 40* | 40 |
| Deltapine 417 | 30 | 38 | 58 | 35* | 40 |
| Deltapine DP 3733 | 32* | 40 | 56 | 33 | 40 |
| Hagood | 32* | 40 | 49 | 33 | 39 |
| Stonewall | 32* | 34 | 58 | 28 | 38 |
| Pioneer 9711 | 27 | 41* | 52 | 31 | 38 |
| HSC 721 | 26 | 37 | 54 | 33 | 37 |
| +Vigoro Exp 713 | 28 | 34 | 54 | 33 | 37 |
| Deltapine DP 3776 | 33* | 29 | 54 | 31 | 37 |
| Perrin | 21 | 41* | 51 | 33 | 37 |
| FFR 731 | 30 | 35 | 52 | 26 | 36 |
| Hartz H7550 | 36* | 33 | 50 | 22 | 35 |
| HY 798 | 25 | 28 | 46 | 28 | 32 |
| +NTCPR90-172 | 26 | 30 | 47 | 22 | 31 |
| Mean | 31 | 39 | 56 | 33 | 40 |
| C.V. (%) | 14.2 | 12.6 | 11.6 | 20.6 | 9.7 |
| BLSD (K-50) | 8 | 8 | 12 | 13 | 5 |
| s.e. | 2.5 | 2.8 | 3.7 | 3.9 | 1.1 |
| Error d.f. | 50 | 54 | 56 | 54 | 84 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE
AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

**HIGHEST YIELDER. *NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST
YIELDER.

TABLE 26. ONE, TWO, AND THREE YEAR AVERAGES FOR
EARLY PLANTED GROUPS VII AND VIII SOYBEANS
AT WASHINGTON COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1991, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Pioneer 9831 | 38 | 44 | |
| NK S75-55 | 36 | 44 | |
| NK Coker 6738 | 34 | 43 | 42 |
| Deltapine 417 | 30 | 42 | 41 |
| +HB2-X733 | 29 | 41 | |
| Pioneer 9761 | 30 | 41 | 41 |
| Cook | 32 | 41 | 39 |
| Maxcy | 31 | 41 | 40 |
| NK Coker 6847 | 31 | 40 | 39 |
| Stonewall | 32 | 40 | 38 |
| Deltapine DP 3733 | 32 | 40 | 40 |
| Hartz H7190 | 31 | 40 | 37 |
| NK S83-30 | 37 | 40 | 39 |
| Deltapine DP 3776 | 33 | 39 | 40 |
| Buckshot 723 | 29 | 39 | 41 |
| HSC 741 | 30 | 38 | 38 |
| Pioneer 9711 | 27 | 37 | 34 |
| Braxton | 34 | 37 | 37 |
| HSC 721 | 26 | 36 | 36 |
| Perrin | 21 | 36 | 36 |
| FFR 731 | 30 | 34 | 33 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE
AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 27. ONE, TWO, AND THREE YEAR AVERAGES FOR
EARLY PLANTED GROUPS VII AND VIII SOYBEANS
AT LENOIR COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1991, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Cook | 48 | 49 | 52 |
| Pioneer 9831 | 42 | 47 | |
| NK Coker 6738 | 46 | 47 | 47 |
| NK S75-55 | 42 | 46 | |
| Hartz H7190 | 42 | 45 | 46 |
| Buckshot 723 | 46 | 45 | 48 |
| Pioneer 9761 | 40 | 45 | 45 |
| NK Coker 6847 | 39 | 45 | 47 |
| Pioneer 9711 | 41 | 44 | 45 |
| Maxcy | 42 | 44 | 45 |
| Perrin | 41 | 44 | 44 |
| NK S83-30 | 39 | 43 | 45 |
| HSC 741 | 38 | 43 | 43 |
| HSC 721 | 37 | 42 | 41 |
| Braxton | 38 | 41 | 43 |
| Deltapine 417 | 38 | 41 | 43 |
| +HB2-X733 | 32 | 40 | |
| Deltapine DP 3733 | 40 | 40 | 41 |
| Stonewall | 34 | 40 | 41 |
| FFR 731 | 35 | 40 | 43 |
| Deltapine DP 3776 | 29 | 37 | 40 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE
AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 28. ONE, TWO, AND THREE YEAR AVERAGES FOR
EARLY PLANTED GROUPS VII AND VIII SOYBEANS
AT COLUMBUS COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1991, 1993 YIELD BU/A | 1990, 1991, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Deltapine 417 | 58 | 51 | 48 |
| NK S83-30 | 70 | 51 | 51 |
| Deltapine DP 3733 | 56 | 50 | |
| Maxcy | 60 | 49 | |
| Buckshot 723 | 56 | 48 | 49 |
| Pioneer 9761 | 56 | 48 | |
| HSC 741 | 64 | 48 | 49 |
| HSC 721 | 54 | 46 | 47 |
| Cook | 57 | 45 | |
| Hagood | 49 | 45 | 47 |
| Pioneer 9711 | 52 | 44 | 48 |
| Deltapine DP 3776 | 54 | 44 | 48 |
| Stonewall | 58 | 42 | 49 |
| Braxton | 56 | 41 | 44 |
| NK Coker 6847 | 58 | 41 | 45 |
| FFR 731 | 52 | 40 | |
| NK Coker 6738 | 55 | 40 | 42 |
| Hartz H7190 | 55 | 39 | 47 |
| Perrin | 51 | 39 | 46 |

TABLE 29. ONE, TWO, AND THREE YEAR AVERAGES FOR
EARLY PLANTED GROUPS VII AND VIII SOYBEANS
AT BERTIE COUNTY.†

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1990, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| NK S75-55 | 39 | 47 | |
| Cook | 37 | 46 | |
| Pioneer 9831 | 39 | 46 | |
| +HB2-X733 | 40 | 46 | |
| Hartz H7190 | 38 | 46 | 45 |
| Braxton | 38 | 45 | 44 |
| Buckshot 723 | 35 | 44 | 44 |
| NK Coker 6738 | 37 | 43 | 42 |
| Pioneer 9761 | 38 | 42 | |
| Deltapine DP 3733 | 33 | 41 | |
| Deltapine DP 3776 | 31 | 41 | 42 |
| Deltapine 417 | 35 | 41 | 43 |
| NK Coker 6847 | 36 | 40 | 42 |
| Maxcy | 31 | 40 | |
| Pioneer 9711 | 31 | 39 | 40 |
| HSC 741 | 31 | 38 | 40 |
| Stonewall | 28 | 38 | 38 |
| NK S83-30 | 31 | 38 | 43 |
| Perrin | 33 | 38 | 37 |
| FFR 731 | 26 | 38 | |
| HSC 721 | 33 | 36 | 36 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE
AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

†WILSON COUNTY IN 1990.

TABLE 30. PERFORMANCE OF LATE PLANTED GROUP V SOYBEANS COMBINED OVER LOCATIONS.

| BRAND-VARIETY OR VARIETY | YIELD BUS/A | LODGING | PLANT HEIGHT INCHES | POD† MATURITY DATE |
|---|----------------|---------|---------------------------|--------------------------|
| THREE-YEAR AVERAGE 1991, 1992, AND 1993 | | | | |
| Asgrow A5979 | 38 | 1.7 | 28 | 10-17 |
| FFR 595 | 35 | 1.7 | 33 | 10-19 |
| FFR 561 | 34 | 1.4 | 26 | 10-17 |
| Deltapine 105 | 33 | 2.2 | 31 | 10-17 |
| Deltapine 415 | 32 | 1.7 | 27 | 10-16 |
| FFR 562 | 32 | 1.8 | 31 | 10-17 |
| Hutcheson | 32 | 1.7 | 26 | 10-15 |
| NK S59-60 | 31 | 2.0 | 27 | 10-17 |
| Pioneer 9583 | 30 | 1.3 | 22 | 10-16 |
| Asgrow A5403 | 30 | 1.5 | 26 | 10-15 |
| TWO-YEAR AVERAGE - 1992, 1993 | | | | |
| +N87-325 | 35 | 1.6 | 26 | 10-16 |
| Asgrow A5979 | 34 | 1.7 | 27 | 10-19 |
| FFR 595 | 33 | 1.7 | 32 | 10-22 |
| Pioneer 9584 | 32 | 1.8 | 28 | 10-16 |
| Deltapine 415 | 31 | 1.8 | 26 | 10-18 |
| Deltapine 105 | 31 | 2.1 | 30 | 10-18 |
| FFR 562 | 30 | 1.7 | 30 | 10-19 |
| FFR 561 | 30 | 1.5 | 25 | 10-19 |
| Hutcheson | 30 | 1.6 | 24 | 10-17 |
| Hartz H5258 | 29 | 1.7 | 29 | 10-18 |
| NK S59-60 | 29 | 1.9 | 27 | 10-19 |
| FFR 542 | 28 | 1.9 | 26 | 10-19 |
| Asgrow A5403 | 27 | 1.5 | 24 | 10-18 |
| Pioneer 9583 | 25 | 1.3 | 21 | 10-18 |

+Experimental. Seed of these entries may or may not be available in 1994 and may have a different designation.
†Washington County, 1991 and 1992; Johnston County, 1993.

TABLE 31. DATA COMBINED OVER LOCATIONS FOR LATE PLANTED GROUP V SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | YIELD BU/A | POD† MATURITY DATE | LOGGING | PLANT HEIGHT INCHES |
|-----------------------------|---------------|--------------------------|---------|---------------------------|
| Asgrow A5979 | 40 | 10-22 | 1.0 | 25 |
| FFR 595 | 37 | 10-26 | 1.0 | 27 |
| +Ciba 5703Y | 36 | 10-21 | 1.0 | 28 |
| HSC 591 | 35 | 10-27 | 1.0 | 32 |
| +Ciba 5903Y | 34 | 10-27 | 1.0 | 30 |
| Hutcheson | 34 | 10-22 | 1.0 | 24 |
| Deltapine DP 3589 | 34 | 10-27 | 1.0 | 30 |
| Hartz H5566 | 34 | 10-22 | 1.0 | 23 |
| NK S59-60 | 33 | 10-22 | 1.0 | 26 |
| +N86-7682 | 33 | 10-21 | 1.0 | 25 |
| FFR 583 | 33 | 10-22 | 1.0 | 28 |
| +Ciba 5905Y | 33 | 10-27 | 1.0 | 28 |
| +N87-325 | 33 | 10-19 | 1.0 | 24 |
| Pioneer 9584 | 32 | 10-19 | 1.0 | 27 |
| +Ciba 5803Y | 32 | 10-19 | 1.0 | 25 |
| +X9357 | 32 | 10-20 | 1.0 | 25 |
| Hartz H5350 | 32 | 10-21 | 1.0 | 25 |
| Deltapine 105 | 32 | 10-20 | 1.0 | 31 |
| FFR 553 | 31 | 10-19 | 1.0 | 24 |
| NK Coker 485 | 31 | 10-21 | 1.0 | 29 |
| Holladay | 31 | 10-20 | 1.0 | 24 |
| Deltapine 415 | 30 | 10-19 | 1.0 | 26 |
| +Vigoro Exp 563 | 30 | 10-15 | 1.0 | 23 |
| FFR 562 | 30 | 10-22 | 1.0 | 29 |
| Asgrow A5885 | 30 | 10-16 | 1.0 | 25 |
| Hartz H5258 | 30 | 10-19 | 1.0 | 27 |
| FFR 561 | 29 | 10-22 | 1.0 | 24 |
| Buckshot 55 | 29 | 10-19 | 1.1 | 27 |
| FFR 542 | 28 | 10-24 | 1.0 | 23 |
| +Deltapine DPX 3553 | 27 | 10-19 | 1.1 | 28 |
| FFR 563 | 27 | 10-25 | 1.0 | 25 |
| Asgrow A5403 | 26 | 10-19 | 1.0 | 23 |
| Pioneer 9583 | 25 | 10-20 | 1.0 | 21 |
| TN 5-92 | 24 | 10-18 | 1.0 | 30 |
| Asgrow A5112 | 23 | 10-17 | 1.0 | 18 |
| Dyna-Gro DG-3576 | 22 | 10-21 | 1.3 | 21 |
| FFR 500 | 18 | 10-20 | 1.0 | 22 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.
†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS PLANTED JUNE 23, 1993.

TABLE 32. INDIVIDUAL LOCATION DATA FOR LATE PLANTED GROUP V SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | LENOIR BU/A | WASHINGTON BU/A | YIELD BU/A |
|-----------------------------|----------------|--------------------|---------------|
| Asgrow A5979 | 43** | 36** | 40** |
| FFR 595 | 39* | 35* | 37* |
| +Ciba 5703Y | 38* | 33 | 36 |
| HSC 591 | 36 | 33 | 35 |
| +Ciba 5903Y | 36 | 33 | 34 |
| Hutcheson | 38* | 31 | 34 |
| Deltapine DP 3589 | 34 | 33 | 34 |
| Hartz H5566 | 35 | 32 | 34 |
| NK S59-60 | 36 | 30 | 33 |
| +N86-7682 | 32 | 35* | 33 |
| FFR 583 | 34 | 32 | 33 |
| +Ciba 5905Y | 31 | 35* | 33 |
| +N87-325 | 34 | 31 | 33 |
| Pioneer 9584 | 33 | 32 | 32 |
| +Ciba 5803Y | 34 | 30 | 32 |
| +X9357 | 32 | 31 | 32 |
| Hartz H5350 | 33 | 30 | 32 |
| Deltapine 105 | 31 | 32 | 32 |
| FFR 553 | 34 | 29 | 31 |
| NK Coker 485 | 31 | 32 | 31 |
| Holladay | 32 | 31 | 31 |
| Deltapine 415 | 33 | 28 | 30 |
| +Vigoro Exp 563 | 32 | 28 | 30 |
| FFR 562 | 30 | 30 | 30 |
| Asgrow A5885 | 32 | 28 | 30 |
| Hartz H5258 | 31 | 28 | 30 |
| FFR 561 | 32 | 26 | 29 |
| Buckshot 55 | 29 | 29 | 29 |
| FFR 542 | 29 | 28 | 28 |
| +Deltapine DPX 3553 | 25 | 29 | 27 |
| FFR 563 | 27 | 27 | 27 |
| Asgrow A5403 | 24 | 28 | 26 |
| Pioneer 9583 | 22 | 27 | 25 |
| TN 5-92 | 23 | 25 | 24 |
| Asgrow A5112 | 22 | 24 | 23 |
| Dyna-Gro DG-3576 | 27 | 18 | 22 |
| FFR 500 | 19 | 17 | 18 |
| MEAN | 31 | 30 | 30 |
| C.V. (%) | 17.0 | 10.6 | 8.2 |
| BLSD (K-50) | 6 | 3 | 4 |
| s.e. | 2.4 | 1.4 | 0.8 |
| Error d.f. | 149 | 149 | 38 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION. **HIGHEST YIELDER. *NOT SIGNIFICANTLY DIFFERENT FOR HIGHEST YIELDER.

TABLE 33. ONE, TWO, AND THREE YEAR AVERAGES FOR
LATE PLANTED GROUP V SOYBEANS
AT LENOIR COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1990, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Asgrow A5979 | 43 | 31 | 35 |
| FFR 595 | 39 | 30 | 30 |
| +N87-325 | 34 | 28 | 30 |
| Pioneer 9584 | 33 | 27 | |
| NK S59-60 | 36 | 26 | |
| Deltapine 415 | 33 | 26 | 29 |
| Deltapine 105 | 31 | 26 | 28 |
| FFR 561 | 32 | 25 | 29 |
| Hutcheson | 38 | 25 | 28 |
| FFR 562 | 30 | 25 | 25 |
| Hartz H5258 | 31 | 23 | 25 |
| FFR 542 | 29 | 22 | |
| Asgrow A5403 | 24 | 18 | 25 |
| Pioneer 9583 | 22 | 15 | |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE
AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 34. ONE, TWO, AND THREE YEAR AVERAGES FOR
LATE PLANTED GROUP V SOYBEANS AT
WASHINGTON COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1991, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Asgrow A5979 | 36 | 37 | 38 |
| +N87-325 | 31 | 37 | |
| FFR 595 | 35 | 36 | 37 |
| Pioneer 9584 | 32 | 36 | |
| Hutcheson | 31 | 34 | 34 |
| Deltapine 105 | 32 | 34 | 35 |
| Deltapine 415 | 28 | 33 | 34 |
| FFR 561 | 26 | 33 | 35 |
| FFR 562 | 30 | 32 | 32 |
| FFR 542 | 28 | 32 | |
| Hartz H5258 | 28 | 31 | |
| Pioneer 9583 | 27 | 31 | 34 |
| NK S59-60 | 30 | 31 | 32 |
| Asgrow A5403 | 28 | 31 | 32 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE
AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 35. PERFORMANCE OF LATE PLANTED GROUP VI SOYBEANS
COMBINED OVER LOCATIONS.

| BRAND-VARIETY OR VARIETY | YIELD BUS/A | LODGING | PLANT HEIGHT INCHES | POD† MATURITY DATE |
|---|----------------|---------|---------------------------|--------------------------|
| THREE-YEAR AVERAGE 1991, 1992, AND 1993 | | | | |
| Hartz 6686 | 40 | 1.9 | 33 | 10-23 |
| Deltapine 726 | 37 | 2.0 | 33 | 10-27 |
| Asgrow A6297 | 37 | 1.8 | 31 | 10-25 |
| Pioneer 9641 | 36 | 1.6 | 30 | 10-21 |
| FFR 695 | 36 | 1.7 | 31 | 10-24 |
| Pioneer 9691 | 35 | 2.2 | 31 | 10-26 |
| Young | 35 | 1.9 | 30 | 10-20 |
| Brim | 34 | 1.6 | 31 | 10-18 |
| FFR 671 | 33 | 2.0 | 34 | 10-23 |
| Centennial | 33 | 1.9 | 31 | 10-21 |
| Deltapine DP 3627 | 32 | 2.2 | 30 | 10-20 |
| TWO-YEAR AVERAGE - 1992, 1993 | | | | |
| Hartz 6686 | 36 | 1.9 | 32 | 10-23 |
| Deltapine DP 3682 | 34 | 1.9 | 30 | 10-26 |
| TN 6-90 | 34 | 1.6 | 30 | 10-26 |
| Asgrow A6297 | 33 | 1.6 | 30 | 10-29 |
| Pioneer 9692 | 33 | 1.5 | 29 | 10-26 |
| Deltapine 726 | 33 | 2.0 | 33 | 10-28 |
| Pioneer 9691 | 33 | 2.1 | 30 | 10-26 |
| Pioneer 9641 | 32 | 1.5 | 28 | 10-23 |
| Young | 32 | 1.8 | 30 | 10-22 |
| FFR 695 | 31 | 1.7 | 31 | 10-24 |
| Deltapine DP 3627 | 30 | 2.0 | 28 | 10-21 |
| FFR 671 | 30 | 1.9 | 32 | 10-24 |
| Brim | 29 | 1.7 | 31 | 10-18 |
| Centennial | 29 | 1.8 | 30 | 10-22 |
| NK S62-66 | 28 | 2.4 | 29 | 10-23 |

†Washington County, 1991 and 1992; Johnston County, 1993.

TABLE 36. DATA COMBINED OVER LOCATIONS FOR LATE PLANTED GROUP VI SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | YIELD BU/A | POD† MATURITY DATE | LODGING | PLANT HEIGHT INCHES |
|-----------------------------|---------------|--------------------------|---------|---------------------------|
| Asgrow A6297 | 36 | 11-4 | 1.0 | 30 |
| +HB2-X683 | 35 | 10-2 | 1.0 | 25 |
| TN 6-90 | 34 | 10-29 | 1.0 | 28 |
| Pioneer 9692 | 34 | 10-27 | 1.0 | 31 |
| Hartz 6686 | 34 | 10-22 | 1.0 | 32 |
| Pioneer 9641 | 34 | 10-26 | 1.0 | 28 |
| HY 677 | 34 | 10-30 | 1.0 | 27 |
| Deltapine DP 3682 | 33 | 11-1 | 1.0 | 31 |
| Deltapine 726 | 33 | 11-1 | 1.0 | 30 |
| Buckshot 66 | 32 | 10-29 | 1.0 | 34 |
| FFR 695 | 32 | 10-27 | 1.0 | 29 |
| Deltapine DP 3606 | 32 | 10-27 | 1.0 | 28 |
| +SC 84-931 | 32 | 10-30 | 1.0 | 27 |
| Dyna-Gro DG-3682 | 31 | 10-27 | 1.0 | 30 |
| Young | 31 | 10-25 | 1.0 | 34 |
| Brim | 31 | 10-19 | 1.0 | 30 |
| Pioneer 9691 | 30 | 10-27 | 1.0 | 31 |
| +Asgrow XP6711 | 30 | 10-27 | 1.0 | 27 |
| +X9366 | 30 | 10-26 | 1.0 | 31 |
| +N89-566 | 30 | 10-27 | 1.0 | 31 |
| FFR 663 | 30 | 10-24 | 1.0 | 28 |
| +N87-984 | 29 | 10-22 | 1.0 | 28 |
| Centennial | 29 | 10-24 | 1.0 | 31 |
| +X9365 | 29 | 10-25 | 1.0 | 24 |
| Hartz H6500 | 29 | 10-26 | 1.0 | 35 |
| Ciba 3602 | 28 | 10-21 | 1.0 | 29 |
| FFR 671 | 28 | 10-24 | 1.0 | 32 |
| +Ciba 6102Y | 28 | 10-19 | 1.0 | 25 |
| +Ciba 6001Y | 28 | 10-21 | 1.0 | 28 |
| HSC B2J | 27 | 10-22 | 1.0 | 25 |
| Deltapine DP 3627 | 26 | 10-22 | 1.0 | 27 |
| NK S62-66 | 25 | 10-21 | 1.0 | 27 |
| Ciba 3615 | 24 | 10-22 | 1.0 | 24 |
| +Vigoro Exp 633 | 23 | 10-22 | 1.0 | 28 |
| +N90-707 | 22 | 10-27 | 1.0 | 28 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.
 †POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS PLANTED JUNE 23, 1993.

TABLE 37. INDIVIDUAL LOCATION DATA FOR LATE PLANTED GROUP VI SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | LENOIR BU/A | WASHINGTON BU/A | YIELD BU/A |
|-----------------------------|----------------|--------------------|---------------|
| Asgrow A6297 | 29 | 43** | 36** |
| +HB2-X683 | 33** | 37* | 35* |
| TN 6-90 | 33** | 36* | 34* |
| Pioneer 9692 | 32* | 36* | 34* |
| Hartz 6686 | 26 | 42* | 34* |
| Pioneer 9641 | 28 | 39* | 34* |
| HY 677 | 27 | 40* | 34* |
| Deltapine DP 3682 | 31* | 36* | 33* |
| Deltapine 726 | 32* | 34 | 33* |
| Buckshot 66 | 29 | 36* | 32* |
| FFR 695 | 28 | 36* | 32* |
| Deltapine DP 3606 | 28 | 37* | 32* |
| +SC 84-931 | 25 | 39* | 32* |
| Dyna-Gro DG-3682 | 24 | 39* | 31* |
| Young | 26 | 36* | 31* |
| Brim | 25 | 36* | 31* |
| Pioneer 9691 | 28 | 33 | 30* |
| +Asgrow XP6711 | 31* | 30 | 30* |
| +X9366 | 19 | 42* | 30* |
| +N89-566 | 23 | 37* | 30* |
| FFR 663 | 27 | 32 | 30* |
| +N87-984 | 23 | 35 | 29* |
| Centennial | 30* | 28 | 29* |
| +X9365 | 23 | 35 | 29* |
| Hartz H6500 | 28 | 29 | 29* |
| Ciba 3602 | 25 | 32 | 28* |
| FFR 671 | 20 | 36* | 28* |
| +Ciba 6102Y | 19 | 37* | 28* |
| +Ciba 6001Y | 24 | 31 | 28* |
| HSC B2J | 22 | 32 | 27* |
| Deltapine DP 3627 | 19 | 33 | 26* |
| NK S62-66 | 21 | 29 | 25* |
| Ciba 3615 | 18 | 30 | 24* |
| +Vigoro Exp 633 | 19 | 28 | 23* |
| +N90-707 | 14 | 30 | 22* |
| MEAN | 25 | 35 | 30 |
| C.V. (%) | 15.6 | 16.8 | 13.1 |
| BLSD (K-50) | 4 | 8 | NS |
| s.e. | 1.7 | 2.6 | 1.2 |
| Error d.f. | 132 | 132 | 34 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION. **HIGHEST YIELDER. *NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

TABLE 38. ONE, TWO, AND THREE YEAR AVERAGES FOR
LATE PLANTED GROUP VI SOYBEANS AT LENOIR COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1990, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Deltapine 726 | 32 | 27 | 30 |
| Deltapine DP 3682 | 31 | 27 | |
| Centennial | 30 | 26 | 26 |
| Pioneer 9691 | 28 | 26 | 28 |
| Pioneer 9692 | 32 | 25 | |
| TN 6-90 | 33 | 25 | |
| Asgrow A6297 | 29 | 24 | 27 |
| Pioneer 9641 | 28 | 24 | 25 |
| FFR 695 | 28 | 23 | 24 |
| Young | 26 | 23 | 23 |
| Hartz 6686 | 26 | 23 | 24 |
| NK S62-66 | 21 | 20 | |
| Deltapine DP 3627 | 19 | 19 | 21 |
| Brim | 25 | 19 | 22 |
| FFR 671 | 20 | 18 | |

TABLE 39. ONE, TWO, AND THREE YEAR AVERAGES FOR
LATE PLANTED GROUP VI SOYBEANS AT
WASHINGTON COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1991, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Hartz 6686 | 42 | 42 | 44 |
| TN 6-90 | 36 | 41 | |
| Asgrow A6297 | 43 | 39 | 43 |
| Deltapine DP 3682 | 36 | 38 | |
| Pioneer 9692 | 36 | 38 | |
| Brim | 36 | 38 | 40 |
| Pioneer 9641 | 39 | 37 | 42 |
| FFR 671 | 36 | 36 | 40 |
| Pioneer 9691 | 33 | 36 | 38 |
| Deltapine 726 | 34 | 35 | 40 |
| Young | 36 | 35 | 37 |
| FFR 695 | 36 | 34 | 39 |
| Deltapine DP 3627 | 33 | 33 | 35 |
| NK S62-66 | 29 | 33 | |
| Centennial | 28 | 31 | 36 |

TABLE 40. PERFORMANCE OF LATE PLANTED GROUPS VII AND VIII SOYBEANS COMBINED OVER LOCATIONS.

| BRAND-VARIETY OR VARIETY | YIELD BUS/A | LODGING | PLANT HEIGHT INCHES | POD† MATURITY DATE |
|---|----------------|---------|---------------------------|--------------------------|
| THREE-YEAR AVERAGE 1991, 1992, AND 1993 | | | | |
| Pioneer 9761 | 34 | 1.2 | 31 | 10-30 |
| Hagood | 34 | 1.5 | 32 | 11-6 |
| NK Coker 6738 | 33 | 1.1 | 33 | 11-3 |
| Maxcy | 33 | 1.7 | 32 | 11-4 |
| NK S83-30 | 33 | 1.1 | 32 | 11-5 |
| Deltapine DP 3733 | 33 | 1.4 | 31 | 10-27 |
| Deltapine 417 | 32 | 1.3 | 36 | 11-6 |
| Stonewall | 32 | 1.5 | 32 | 10-27 |
| Pioneer 9711 | 32 | 1.5 | 32 | 10-27 |
| Braxton | 32 | 1.3 | 34 | 10-29 |
| Deltapine DP 3776 | 31 | 1.3 | 32 | 11-2 |
| NK Coker 6847 | 31 | 1.2 | 30 | 10-30 |
| FFR 731 | 31 | 1.5 | 30 | 10-28 |
| Hartz H7190 | 30 | 1.5 | 28 | 10-28 |
| Perrin | 30 | 1.3 | 32 | 11-6 |
| TWO-YEAR AVERAGE - 1992, 1993 | | | | |
| Pioneer 9831 | 36 | 1.1 | 32 | 11-3 |
| Cook | 32 | 1.4 | 31 | 11-1 |
| Pioneer 9761 | 32 | 1.3 | 31 | 10-30 |
| NK Coker 6738 | 31 | 1.0 | 33 | 11-5 |
| Stonewall | 31 | 1.4 | 31 | 10-28 |
| Hagood | 31 | 1.5 | 32 | 11-6 |
| Deltapine 417 | 31 | 1.2 | 35 | 11-6 |
| NK S83-30 | 31 | 1.0 | 31 | 11-5 |
| Deltapine DP 3733 | 31 | 1.2 | 31 | 10-28 |
| Maxcy | 31 | 1.5 | 32 | 11-4 |
| Pioneer 9711 | 31 | 1.5 | 31 | 10-26 |
| Braxton | 30 | 1.2 | 34 | 10-28 |
| Deltapine DP 3776 | 29 | 1.2 | 31 | 11-3 |
| NK Coker 6847 | 29 | 1.1 | 30 | 10-30 |
| FFR 731 | 28 | 1.5 | 30 | 10-30 |
| Perrin | 28 | 1.2 | 31 | 11-6 |
| Hartz H7190 | 27 | 1.3 | 27 | 10-30 |

†Washington County, 1991 and 1992; Johnston County, 1993.

TABLE 41. DATA COMBINED OVER LOCATIONS FOR LATE PLANTED GROUPS VII AND VIII SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | YIELD BU/A | POD† MATURITY DATE | LODGING | PLANT HEIGHT INCHES |
|-----------------------------|---------------|--------------------------|---------|---------------------------|
| Pioneer 9831 | 36 | 11-4 | 1.1 | 33 |
| Buckshot 723 | 35 | 11-4 | 1.2 | 33 |
| +HB3-X782 | 35 | 11-4 | 1.3 | 31 |
| Pioneer 9761 | 34 | 11-3 | 1.0 | 31 |
| NK S83-30 | 34 | 11-9 | 1.1 | 32 |
| Hagood | 33 | 11-9 | 1.2 | 31 |
| Pioneer 9711 | 33 | 10-27 | 1.1 | 29 |
| Deltapine 417 | 32 | 11-11 | 1.0 | 35 |
| HSC 741 | 31 | 11-3 | 1.1 | 33 |
| Stonewall | 31 | 10-29 | 1.1 | 31 |
| NK S75-55 | 30 | 11-1 | 1.1 | 29 |
| +HB2-X733 | 30 | 11-4 | 1.0 | 27 |
| Braxton | 30 | 10-29 | 1.0 | 33 |
| NK Coker 6738 | 30 | 11-8 | 1.0 | 34 |
| HSC 721 | 29 | 11-3 | 1.5 | 31 |
| Haskell | 29 | 11-7 | 1.1 | 31 |
| Maxcy | 29 | 11-7 | 1.1 | 30 |
| NK Coker 6847 | 28 | 11-3 | 1.0 | 32 |
| Hartz H7550 | 28 | 11-4 | 1.0 | 31 |
| Deltapine DP 3733 | 28 | 11-1 | 1.0 | 28 |
| FFR 731 | 28 | 11-4 | 1.0 | 30 |
| Pioneer 9721 | 28 | 11-3 | 1.0 | 29 |
| Cook | 27 | 11-6 | 1.1 | 30 |
| +Vigoro Exp 713 | 25 | 11-4 | 1.0 | 30 |
| Hartz H7190 | 25 | 11-4 | 1.1 | 29 |
| Perrin | 25 | 11-11 | 1.2 | 31 |
| HY 798 | 24 | 11-4 | 1.2 | 32 |
| Deltapine DP 3776 | 23 | 11-9 | 1.0 | 29 |
| +NTCPR90-172 | 22 | 11-4 | 1.0 | 26 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION.

†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS PLANTED JUNE 23, 1993.

TABLE 42. INDIVIDUAL LOCATION DATA FOR LATE PLANTED GROUPS VII AND VIII SOYBEANS - 1993.

| BRAND-VARIETY OR VARIETY | LENOIR BU/A | WASHINGTON BU/A | YIELD BU/A |
|-----------------------------|----------------|--------------------|---------------|
| Pioneer 9831 | 34* | 38* | 36** |
| Buckshot 723 | 33* | 38* | 35* |
| +HB3-X782 | 30 | 40* | 35* |
| Pioneer 9761 | 27 | 42** | 34* |
| NK S83-30 | 35** | 33 | 34* |
| Hagood | 34* | 32 | 33* |
| Pioneer 9711 | 30 | 35 | 33* |
| Deltapine 417 | 34* | 30 | 32* |
| HSC 741 | 25 | 37* | 31* |
| Stonewall | 26 | 35 | 31* |
| NK S75-55 | 20 | 41* | 30* |
| +HB2-X733 | 30 | 31 | 30* |
| Braxton | 23 | 37* | 30* |
| NK Coker 6738 | 26 | 34 | 30* |
| HSC 721 | 28 | 31 | 29* |
| Haskell | 25 | 34 | 29* |
| Maxcy | 28 | 30 | 29* |
| NK Coker 6847 | 22 | 34 | 28* |
| Hartz H7550 | 22 | 34 | 28* |
| Deltapine DP 3733 | 19 | 37* | 28* |
| FFR 731 | 22 | 33 | 28* |
| Pioneer 9721 | 20 | 36* | 28* |
| Cook | 22 | 33 | 27* |
| +Vigoro Exp 713 | 21 | 30 | 25* |
| Hartz H7190 | 17 | 34 | 25* |
| Perrin | 23 | 26 | 25* |
| HY 798 | 17 | 31 | 24* |
| Deltapine DP 3776 | 15 | 32 | 23* |
| +NTCPR90-172 | 19 | 25 | 22* |
| MEAN | 25 | 34 | 29 |
| C.V. (%) | 18.0 | 16.4 | 15.1 |
| BLSD (K-50) | 5 | 7 | NS |
| s.e. | 2.0 | 2.5 | 1.4 |
| Error d.f. | 110 | 110 | 28 |

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1994 AND MAY HAVE A DIFFERENT DESIGNATION. **HIGHEST YIELDER. *NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

TABLE 43. ONE, TWO, AND THREE YEAR AVERAGES FOR
LATE PLANTED GROUPS VII AND VIII SOYBEANS
AT LENOIR COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1990, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Hagood | 34 | 32 | 32 |
| Pioneer 9831 | 34 | 31 | |
| Deltapine 417 | 34 | 30 | 30 |
| Pioneer 9711 | 30 | 30 | 30 |
| NK S83-30 | 35 | 30 | 33 |
| Maxcy | 28 | 28 | |
| Pioneer 9761 | 27 | 28 | |
| NK Coker 6738 | 26 | 28 | 32 |
| Perrin | 23 | 27 | 28 |
| Stonewall | 26 | 27 | 32 |
| Cook | 22 | 26 | |
| Braxton | 23 | 25 | 25 |
| Deltapine DP 3733 | 19 | 25 | |
| FFR 731 | 22 | 24 | |
| NK Coker 6847 | 22 | 22 | 28 |
| Deltapine DP 3776 | 15 | 19 | 22 |
| Hartz H7190 | 17 | 18 | 22 |

TABLE 44. ONE, TWO, AND THREE YEAR AVERAGES FOR
LATE PLANTED GROUPS VII AND VIII SOYBEANS
AT WASHINGTON COUNTY.

| BRAND-VARIETY OR VARIETY | 1993 YIELD BU/A | 1992, 1993 YIELD BU/A | 1991, 1992, 1993 YIELD BU/A |
|-----------------------------|-----------------------|-----------------------------|-----------------------------------|
| Pioneer 9831 | 38 | 34 | |
| Pioneer 9761 | 42 | 34 | 33 |
| Stonewall | 35 | 33 | 30 |
| Deltapine DP 3733 | 37 | 32 | 32 |
| Braxton | 37 | 31 | 29 |
| Pioneer 9711 | 35 | 31 | 31 |
| NK S83-30 | 33 | 30 | 31 |
| FFR 731 | 33 | 30 | 31 |
| Deltapine DP 3776 | 32 | 30 | 28 |
| Cook | 33 | 30 | |
| Hagood | 32 | 29 | 32 |
| Deltapine 417 | 30 | 29 | 28 |
| NK Coker 6738 | 34 | 29 | 28 |
| NK Coker 6847 | 34 | 29 | 29 |
| Maxcy | 30 | 29 | 32 |
| Hartz H7190 | 34 | 28 | 28 |
| Perrin | 26 | 24 | 24 |

Table 45. Characteristics of soybean varieties in North Carolina.†

| Brand-Variety or Variety | Maturity Group | Resistance | | Nematode Tolerance* | Seed Size | Color | | |
|-----------------------------|-------------------|------------|-----------|------------------------|--------------|--------|------------|--------|
| | | Shatter | Lodging | | | Flower | Pubescence | Hilum |
| Asgrow A4715 | 4 | Good | Excellent | C34 | Medium | White | Tawny | Black |
| Asgrow A5112 | 5 | Good | Good | C34 | Medium | White | Gray | Buff |
| Asgrow A5403 | 5 | Good | Excellent | C34 | Medium | Purple | Gray | Varies |
| Asgrow A5885 | 5 | Good | Fair | C34 | Medium | White | Tawny | Black |
| Asgrow A5979 | 5 | Good | Good | C34 | Medium | White | Gray | Buff |
| Asgrow A6297 | 6 | Good | Good | C34 | Small | White | Gray | Buff |
| Asgrow A6785 | 6 | Good | Good | Ri | Small | White | Gray | Buff |
| Asgrow A6961 | 6 | Good | Excellent | C34 | Medium | White | Gray | Buff |
| Asgrow A7258 | 7 | Good | Good | | Large | White | Gray | Buff |
| Asgrow A7986 | 7 | Good | Good | Ri | Medium | Purple | Gray | Varies |
| AgraTech AT525 | 5 | Good | Excellent | | Medium | White | Gray | Buff |
| AgraTech AT550 | 5 | Good | Good | C34Ri | Large | Purple | Brown | Black |
| AgraTech AT575 | 5 | Good | Excellent | | Small | White | Gray | Buff |
| AgraTech AT695 | 6 | Good | Good | C34Ra | Small | Purple | Brown | Black |
| AgraTech AT700 | 7 | Excellent | Good | Ri | Small | White | Tawny | Black |
| Braxton | 7 | Good | Fair | Ria | Large | Purple | Tawny | Black |
| Brim | 6 | Good | Fair | | Small | White | Gray | Buff |
| Bryan | 6 | Good | Good | C13Rai | Small | Purple | Tawny | Black |
| Buckshot 507 | 5 | Good | Good | C34Ri | Medium | White | Gray | Varies |
| Buckshot 55 | 5 | Good | Good | C34 | Medium | Purple | Tawny | Varies |
| Buckshot 603 | 6 | Good | Excellent | | Medium | Purple | Tawny | Black |
| Buckshot 66 | 6 | Excellent | Good | C34Ri | Medium | Purple | Tawny | Black |
| Buckshot 67 | 6 | Excellent | Good | C34Ri | Medium | Purple | Tawny | Black |
| Buckshot 723 | 7 | Good | Fair | Ri | Large | White | Tawny | Black |
| Cargill C-445 | 4 | Good | Excellent | | Medium | White | Tawny | Black |
| Cargill C-517 | 5 | Good | Good | C34 | Medium | Purple | Tawny | Black |
| Camp | 5 | Good | Excellent | | Tiny | Purple | Gray | Buff |
| Centennial | 6 | Excellent | Fair | C13Ri | Medium | Purple | Tawny | Black |
| Chesapeake | 4 | Good | Good | | Medium | White | Gray | Black |
| Ciba 3411 | 4 | Good | Excellent | | Large | Purple | Tawny | Brown |
| Ciba 3602 | 6 | Good | Good | C13Ri | Medium | White | Tawny | Black |

Table 45. (Continued). Characteristics of soybean varieties in North Carolina.†

| Brand-Variety or Variety | Maturity Group | Resistance | | Nematode Tolerance* | Seed Size | Color | | |
|-----------------------------|-------------------|------------|-----------|------------------------|--------------|--------|------------|--------|
| | | Shatter | Lodging | | | Flower | Pubescence | Hilum |
| Ciba 3615 | 6 | Good | Good | | Medium | Purple | Gray | Varies |
| Colquitt | 7 | Good | Fair | Rai | Medium | Purple | Tawny | Black |
| Cook | 8 | Good | Good | Ri | Medium | Purple | Tawny | Varies |
| Crowley | 5 | Good | Good | C3Rai | Medium | White | Gray | Buff |
| DeKalb CX 415 | 4 | Good | Excellent | | Medium | White | Tawny | Black |
| DeKalb CX 469C | 4 | Good | Good | C3 | Medium | Purple | Tawny | Black |
| Deltapine DP 3456 | 4 | Excellent | Excellent | | Large | White | Tawny | Black |
| Deltapine DP 3478 | 4 | Good | Good | | Medium | Purple | Tawny | Black |
| Deltapine DP 3499 | 4 | Good | Good | | Medium | Purple | Gray | Varies |
| Deltapine DP 3589 | 5 | Good | Good | C3 | Large | Purple | Tawny | Black |
| Deltapine DP 3606 | 6 | Good | Good | | Medium | Purple | Gray | Varies |
| Deltapine DP 3627 | 6 | Good | Good | | Large | Purple | Gray | Black |
| Deltapine DP 3682 | 6 | Good | Good | C13Rai | Medium | Purple | Gray | Varies |
| Deltapine DP 3733 | 7 | Good | Excellent | C34Ri | Medium | Purple | Tawny | Black |
| Deltapine DP 3776 | 7 | Good | Excellent | Ri | Large | White | Gray | Buff |
| Deltapine 105 | 5 | Good | Good | | Medium | Purple | Gray | Varies |
| Deltapine 415 | 5 | Good | Good | C13Ri | Medium | Purple | Gray | Varies |
| Deltapine 417 | 7 | Good | Good | Ri | Medium | White | Gray | Buff |
| Deltapine 726 | 6 | Good | Good | C13Ri | Small | Purple | Tawny | Black |
| DynaGro 3401 | 4 | Good | Good | | Large | Purple | Brown | Brown |
| DynaGro 3405 | 4 | Good | Good | | Large | Purple | Tawny | Brown |
| DynaGro 3409 | 4 | Good | Fair | | Medium | Purple | Tawny | Varies |
| DynaGro 3450 | 4 | Good | Fair | | Large | Purple | Brown | Brown |
| DynaGro 3501 | 5 | Good | Fair | | Medium | Purple | Tawny | Brown |
| DynaGro 3508 | 5 | Good | Fair | C3Ri | Large | White | Gray | Black |
| Essex | 5 | Good | Excellent | | Small | Purple | Gray | Buff |
| FFR 464 | 4 | Good | Good | | Small | Purple | Tawny | Black |
| FFR 471 | 4 | Good | Excellent | | Large | White | Tawny | Black |
| FFR 561 | 5 | Good | Excellent | | Small | White | Gray | Buff |
| FFR 562 | 5 | Good | Good | | Medium | Purple | Gray | Buff |
| FFR 595 | 5 | Good | Good | C34 | Small | White | Brown | Brown |

Table 45. (Continued). Characteristics of soybean varieties in North Carolina.[†]

| Brand-Variety or Variety | Maturity Group | Resistance | | Nematode Tolerance* | Seed Size | Color | | |
|-----------------------------|-------------------|------------|-----------|------------------------|--------------|--------|------------|--------|
| | | Shatter | Lodging | | | Flower | Pubescence | Hilum |
| FFR 668 | 6 | Good | Excellent | | Medium | Purple | Gray | Varies |
| FFR 671 | 6 | Good | Excellent | | Medium | White | Tawny | Black |
| FFR 695 | 6 | Good | Good | | Small | White | Brown | Black |
| FFR 731 | 7 | Good | Good | C3Ri | Medium | Purple | Gray | Varies |
| Forrest | 5 | Good | Good | C13Ri | Small | White | Tawny | Black |
| GaSoy 17 | 7 | Excellent | Fair | | Medium | White | Gray | Buff |
| Hagood | 7 | Good | Fair | C3Ri | Medium | White | Gray | Buff |
| Hartwig | 5 | Good | Good | C134Ri | Medium | White | Tawny | Black |
| Hartz 5164 | 5 | Good | Fair | C34Ri | Medium | White | Brown | Black |
| Hartz 6130 | 6 | Good | Good | C34Ri | Small | Purple | Tawny | Black |
| Hartz 6200 | 6 | Good | Fair | C3 | Large | White | Tawny | Brown |
| Hartz 6372 | 6 | Good | Fair | C3Ri | Medium | White | Brown | Black |
| Hartz 6686 | 6 | Good | Good | | Large | Purple | Brown | Black |
| Hartz 7110 | 7 | Good | Good | C3Ri | Medium | White | Tawny | Black |
| Hartz 7126 | 7 | Good | Good | C3 | Medium | Purple | Tawny | Black |
| Hartz H4464 | 4 | Good | Good | C3 | Medium | White | Brown | Black |
| Hartz H5240 | 5 | Good | Good | C3Ri | Medium | White | Brown | Black |
| Hartz H5258 | 5 | Good | Fair | | Medium | Purple | Brown | Black |
| Hartz H5350 | 5 | Good | Fair | C34 | Medium | White | Tawny | Black |
| Hartz H5566 | 5 | Good | Good | C34 | Medium | White | Brown | Black |
| Hartz H6500 | 6 | Good | Good | C3 | Small | White | Brown | Black |
| Hartz H7190 | 7 | Good | Good | | Medium | White | Brown | Black |
| Hartz H7550 | 7 | Good | Good | C3Ri | Small | Purple | Brown | Black |
| Hartz H7585 | 7 | Good | Good | | Medium | White | Gray | Buff |
| Haskell | 7 | Good | Fair | Rai | Medium | Purple | Tawny | Black |
| Holladay | 5 | Good | Excellent | | Medium | Purple | Gray | Buff |
| Howard | 7 | Good | Good | C34Rai | Small | Purple | Tawny | Varies |
| HSC 557 | 5 | Good | Fair | C34Ra | Medium | Purple | Tawny | Black |
| HSC 591 | 5 | Good | Good | C34Ra | Small | White | Tawny | Black |
| HSC 623 | 6 | Good | Good | C34 | Large | White | Gray | Buff |
| HSC 682 | 6 | Good | Good | Ri | Small | Purple | Tawny | Black |

Table 45. (Continued). Characteristics of soybean varieties in North Carolina.[†]

| Brand-Variety or Variety | Maturity Group | Resistance | | Nematode Tolerance* | Seed Size | Color | | |
|-----------------------------|-------------------|------------|-----------|------------------------|--------------|--------|------------|-------|
| | | Shatter | Lodging | | | Flower | Pubescence | Hilum |
| HSC 721 | 7 | Good | Good | C34Ri | Medium | White | Tawny | Black |
| HSC 741 | 7 | Good | Good | C34Rai | Medium | Purple | Tawny | Black |
| HSC B2J | 6 | Good | Good | C3Rai | Medium | Purple | Tawny | Black |
| Hutcheson | 5 | Good | Excellent | | Medium | White | Gray | Buff |
| HY 677 | 6 | Good | Good | Rai | Small | White | Gray | Buff |
| HY 798 | 7 | Good | Good | C3Rai | Small | Purple | Tawny | Black |
| Kirby | 8 | Good | Good | C3Rai | Small | Purple | Tawny | Black |
| Leflore | 6 | Good | Fair | C34Ri | Small | Purple | Tawny | Black |
| Manokin | 4 | Good | Fair | C13Rai | Small | White | Tawny | Black |
| Maxcy | 8 | Good | Good | C3Ri | Medium | Purple | Tawny | Black |
| NK Coker 368 | 8 | Good | Good | C3RiL | Medium | White | Gray | Buff |
| NK Coker 485 | 5 | Good | Good | C3Ri | Medium | Purple | Tawny | Black |
| NK Coker 6738 | 8 | Excellent | Excellent | C13Rai | Large | Purple | Tawny | Black |
| NK Coker 6847 | 7 | Good | Good | C3Rai | Large | White | Gray | Buff |
| NK Coker 6955 | 5 | Good | Good | C3 | Medium | White | Tawny | Black |
| NK RA 452 | 4 | Good | Good | | Medium | White | Gray | Buff |
| NK S46-44 | 4 | Good | Good | C34 | Large | Purple | Tawny | Black |
| NK S48-84 | 4 | Good | Good | | Large | Purple | Tawny | Brown |
| NK S59-60 | 5 | Good | Fair | C34 | Large | Purple | Tawny | Black |
| NK S61-89 | 6 | Good | Good | C34Ri | Medium | Purple | Tawny | Black |
| NK S62-66 | 6 | Good | Good | C34Ri | Medium | Purple | Tawny | Black |
| NK S64-23 | 6 | Good | Fair | C34Ri | Medium | White | Tawny | Black |
| NK S75-55 | 7 | Good | Good | C34Ra | Medium | Purple | Tawny | Black |
| NK S83-30 | 8 | Good | Good | C13RiL | Large | White | Gray | Buff |
| Perrin | 8 | Good | Good | Rai | Large | Purple | Tawny | Black |
| Pioneer 9442 | 4 | Good | Good | | Medium | Purple | Tawny | Black |
| Pioneer 9461 | 4 | Good | Good | | Medium | White | Tawny | Black |
| Pioneer 9501 | 4 | Good | Good | | Large | White | Tawny | Black |
| Pioneer 9581 | 5 | Excellent | Good | C34Ri | Small | White | Tawny | Black |
| Pioneer 9583 | 5 | Good | Excellent | | Medium | White | Gray | Buff |
| Pioneer 9584 | 5 | Good | Good | C3Ri | Medium | White | Tawny | Black |

Table 45. (Continued). Characteristics of soybean varieties in North Carolina.[†]

| Brand-Variety or Variety | Maturity Group | Resistance | | Nematode Tolerance* | Seed Size | Color | | |
|-----------------------------|-------------------|------------|-----------|------------------------|--------------|--------|------------|--------|
| | | Shatter | Lodging | | | Flower | Pubescence | Hilum |
| Pioneer 9591 | 5 | Good | Excellent | | Large | Purple | Gray | Buff |
| Pioneer 9593 | 5 | Excellent | Fair | | Medium | White | Tawny | Black |
| Pioneer 9641 | 6 | Good | excellent | | Medium | Purple | Gray | Varies |
| Pioneer 9691 | 6 | Good | Good | C3 | Small | White | Tawny | Black |
| Pioneer 9692 | 6 | Good | Good | C3Ri | Medium | Purple | Tawny | Black |
| Pioneer 9711 | 7 | Good | Good | C3Ri | Medium | Purple | Tawny | Black |
| Pioneer 9721 | 7 | Good | Good | Ri | Medium | Purple | Tawny | Black |
| Pioneer 9761 | 7 | Good | Good | C3 | Medium | Purple | Tawny | Black |
| Pioneer 9831 | 8 | Good | Good | | Large | White | Gray | Buff |
| Rally | 7 | Good | Good | | Large | White | Tawny | Varies |
| Ransom | 7 | Excellent | Excellent | | Medium | Purple | Tawny | Black |
| Rhodes | 5 | Good | Good | C34Ri | Medium | White | Tawny | Black |
| Riverside 499 | 4 | Good | Good | | Medium | White | Gray | Black |
| Riverside 577 | 5 | Good | Good | C3Rai | Medium | White | Gray | Varies |
| Riverside 699 | 6 | Good | Good | | Medium | White | Gray | Buff |
| Riverside Cajun | 6 | Good | Good | C4 | Medium | White | Brown | Black |
| SS 487 | 4 | Good | Excellent | | Medium | White | Tawny | Black |
| ST 551 | 5 | Good | Excellent | C3 | Small | White | Tawny | Black |
| ST 571 | 5 | Good | Good | | Medium | White | Gray | Buff |
| Sampson | 6 | Good | Good | | Medium | Purple | Tawny | Black |
| Sharkey | 6 | Good | Fair | C3Ri | Large | White | Tawny | Black |
| Spry | 4 | Good | Good | | Medium | Purple | Tawny | Black |
| Stafford | 4 | Good | Excellent | | Small | Purple | Gray | Varies |
| Stonewall | 7 | Good | Fair | C3Ri | Large | White | Tawny | Black |
| Thomas | 7 | Good | Fair | C13Ri | Large | Purple | Tawny | Black |
| TN 4-86 | 4 | Good | Good | C34 | Small | Purple | Tawny | Black |
| TN 5-85 | 5 | Good | Good | C13Ra | Small | White | Gray | Buff |
| TN 5-92 | 5 | Good | Good | C35 | Small | White | Gray | Buff |
| TN 6-90 | 6 | Good | Good | C3 | Medium | White | Tawny | Varies |
| Toano | 5 | Good | Excellent | | Medium | Purple | Gray | Buff |
| Underwood 509A | 5 | Good | Fair | | Large | White | Tawny | Black |

Table 45. (Continued). Characteristics of soybean varieties in North Carolina.[†]

| Brand-Variety or Variety | Maturity Group | <u>Resistance</u> | | Nematode Tolerance* | Seed Size | <u>Color</u> | | |
|-----------------------------|-------------------|-------------------|-----------|------------------------|--------------|--------------|------------|-------|
| | | Shatter | Lodging | | | Flower | Pubescence | Hilum |
| Underwood 605 | 6 | Good | Fair | Rai | Small | Purple | Tawny | Black |
| Underwood 607 | 6 | Good | Excellent | C3Rai | Medium | White | Tawny | Black |
| Underwood 609 | 6 | Good | Fair | Ri | Large | White | Tawny | Black |
| Underwood 611 | 6 | Good | Good | C34Rai | Small | Purple | Tawny | Black |
| Underwood 701P | 7 | Good | Fair | C34Ri | Medium | Purple | Tawny | Black |
| Underwood 701W | 7 | Good | Good | C34Ri | Medium | White | Tawny | Black |
| Underwood 703 | 7 | Good | Good | | Large | White | Tawny | Black |
| Vance | 5 | Good | Excellent | | Tiny | Purple | Gray | Buff |
| Walters | 5 | Good | Good | C3Rai | Medium | Purple | Tawny | Black |
| Winner | 6 | Good | Good | C13 | Medium | Purple | Tawny | Black |
| Young | 6 | Good | Good | | Medium | White | Gray | Buff |

[†]Prepared by E. James Dunphy, Crop Science Extension Specialist (Soybeans).

*Soybean Cyst (C), with race number, Root-Knot (R), M. arenaria (a), M. incognita (i), or Lance (L).

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 Program, along with the Cotton Extension Program, under Dr. Keith Edmisten, conduct variety tests on research stations as well as private growers' farms. This section of the Measured Crop Performance Bulletin will report data collected by the Official Variety Testing Program.

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 an entry basis. Agencies sponsoring entries in the tests and their contact person, address, and entry designation are listed below.

Table 46. Name, contact person, and address of sponsoring agencies in the 1993 North Carolina Cotton Performance Trials along with designation used to identify the varieties or hybrids in the trials.

| Agency and Contact Person | Address | Designation |
|---|--|--------------------------|
| <u>Chembred, Inc.</u> Verlin G. Boeder | 10201 S. 51st Street Suite 205 Phoenix, AZ 85044 | CB |
| <u>Brownfield Seed and Delinting</u> Bob Dumas | P. O. Box 608 Brownfield, TX 79316 | S |
| <u>Delta & Pine Land Company</u> Dr. Keith R. Jones | P. O. Box 157 100 Main Street Scott, MS 38772 | Deltapine DP, DES 119 |

Table 46. (Continued).

| | | |
|--|---|--|
| <u>Helena Chemical Company</u> Al Hoggard | One HyCrop Row Memphis, TN 38120 | HyPerformer HS, HY |
| <u>Humco International, Inc.</u> Henry Webb | P. O. Box 1985 311 Sumter Avenue Hartsville, SC 29550 | Carolina |
| <u>Seed Source, Inc.</u> Dr. John M. Green | 106 4th Street Leland, MS 38756 | SS |
| <u>Sure-Grow Research</u> Earl Dykes | P. O. Box 50609 Phoenix, AZ 85076-0609 | Sure-Grow |
| <u>Stoneville Pedigreed Seed Company</u> Don M. Jackson | P. O. Box 167 Stoneville, MS 38776 | ST, ST KC, ST Coker, Georgia King St La |
| <u>University of Georgia</u> Shelby Baker | Coastal Plain Exp. Sta. Ga P. O. Box 748 Tifton, GA 31793 | |
| <u>USDA-ARS</u> Dr. O. Lloyd May | P. O. Box 2131 Florence, SC 29503 | PD |

Test Locations: The four test locations included the Central Crops Research Station near Clayton, the Upper Coastal Plain Research Station near Rocky Mount, the Peanut Belt Research Station near Lewiston and with Rick Holder near LaGrange. A fifth test site, T. G. Gibson, Jr.'s farm near Gibson, N. C., was in a field infested with Columbia lance nematodes. At this test the varieties were grown under nematode-infested and nematode-free (treated) conditions.

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, and micronaire. Percent bolls opened was determined about three weeks prior to harvest and indicates relative maturity. Fiber properties were determined by HVI.

Seasonal Conditions: Planting was slightly delayed at some locations because of wet soil conditions (Table 47). The entire growing season was characterized by above normal temperatures and below-normal rainfall. Rainfall data are shown below. Harvest was on time (Table 47).

Rainfall (Inches)

| <u>Location</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>Sep- tember</u> |
|-----------------|------------|-------------|-------------|---------------|------------------------|
| Bertie | 2.93 | 3.61 | 2.76 | 0.83 | 3.19 |
| Edgcombe | 4.29 | 1.35 | 3.13 | 1.12 | 5.87 |
| Johnston | 2.79 | 0.41 | 4.02 | 2.27 | 2.41 |

Results: Soil test results are shown in Table 48. Three and two-year averages over all locations are shown in Tables 49 and 50. 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 (Table 49). No

varieties had micronaire values in the premium range although many had values in the base range.

Average performance across four locations for 1993 are shown in Table 51. Yields were fair to excellent. Fiber length and strength were excellent.

One-year, two-year, and three-year individual location data are shown in Tables 52-62. The two-year table for Lenoir county includes 1992 data collected at Sampson county and the three-year table for Lenoir county also includes 1991 data collected at Wayne county. There was a variety by location interaction and a variety by year interaction indicating that the varieties performed differently relative to each other from location to location and from year to year. Therefore, it is imperative that you, as a grower, plant a small number of acres of a new hybrid or variety when first determining if it is adapted to your farm.

Table 47. Cultural practices for cotton performance trials - 1993.

| Location | Fertilizer | Soil Type | Date of Planting | Date of Harvest |
|----------|-------------|--|------------------|-----------------|
| Bertie | 120 | Goldsboro sandy loam and Norfolk loamy coarse sand | May 7 | October 5 |
| | 0-0-60 | | | |
| | 120 | | | |
| | 18-46-0 | | | |
| | 65 | | | |
| | 30-0-0 | | | |
| | 2.5 Solubor | | | |

Table 47. (Continued).

| Location | Fertilizer | Soil Type | Date of Planting | Date of Harvest |
|------------------|---|--|------------------|-----------------|
| Edgecombe | 100 0-0-60 130 30-0-0 2.5 Micro S | Norfolk loamy sand | May 11 | September 28 |
| Johnston | 400 6-6-36 80 30-0-0 200 12-6-24 2.5 Solubor | Norfolk and Varina loamy Sand | May 3 | September 29 |
| Lenoir | 50 30-0-0 | Norfolk loamy sand and Lynchburg sandy loam | May 4 | September 30 |
| Scotland | 300 10-0-40 75 30% N | Norfolk and Marlboro loamy sand | May 12 | October 14 |

Table 48. Soil test results, cotton - 1993.

| Location by County | HM% | W-V | CEC | BS | AC | pH |
|-----------------------|-----|------|-----|----|-----|-----|
| Bertie | | | 3.8 | 79 | 0.8 | 6.0 |
| Edgecombe | 0.4 | 1.42 | 3.3 | 88 | 0.4 | 6.0 |
| Johnston | 0.4 | 1.31 | 2.9 | 86 | 0.4 | 6.1 |
| Lenoir | 1.1 | 1.29 | 4.1 | 81 | 0.8 | 5.7 |
| Scotland | 0.7 | 1.43 | 3.6 | 89 | 0.4 | 6.2 |

Table 48. (Continued)

| Location by County | P-I | K-I | Ca % | Mg % | Mn-I | Zn-I | Cu-I |
|-----------------------|-----|-----|------|------|------|------|------|
| Bertie | 84 | 34 | 60.4 | 14.2 | 66 | 36 | 96 |
| Edgecombe | 74 | 40 | 70.1 | 11.6 | 65 | 29 | 136 |
| Johnston | 76 | 64 | 54.4 | 21.1 | 56 | 45 | 124 |
| Lenoir | 166 | 62 | 58.4 | 14.6 | 39 | 61 | 42 |
| Scotland | 153 | 66 | 63.4 | 16.5 | 131 | 76 | 30 |

Performance of selected cotton varieties under Columbia lance nematode-infestation and nematode-free conditions are shown in Table 63. Data are presented for yield under both conditions so that the growers may choose the variety or varieties for their particular farming operation. There appeared to be no difference in lint yields between nematode-infested plots and nematode-free plots (Table 63). Nematode counts taken in mid-season revealed no difference between plots and the counts were low. It is suspected that the late disking of the rye cover crop is responsible for the suppression of the nematode population. Earlier studies have shown that decomposition of rye residue produced a toxin which killed certain nematodes. Confirmation studies on this phenomenon will be investigated in the future. The 1993 data should be useful to growers in the Scotland county area who have few or no Columbia lance nematodes or may routinely disk their rye in late.

TABLE 49. THREE YEAR AVERAGE PERFORMANCE OF COTTON VARIETIES¹.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| Georgia King | 1017 | 42.8 | 38 | 43 | 1.16 | 83.0 | 30.7 | 4.8 |
| S-35 | 990 | 40.7 | 35 | 52 | 1.14 | 81.7 | 28.5 | 4.7 |
| Deltapine 5690 | 951 | 41.5 | 38 | 46 | 1.13 | 82.3 | 30.9 | 4.9 |
| CB 1135 | 946 | 40.5 | 35 | 46 | 1.14 | 81.6 | 29.2 | 4.6 |
| CB 333 | 946 | 41.1 | 37 | 46 | 1.14 | 82.5 | 27.5 | 4.7 |
| Deltapine 51 | 940 | 40.5 | 36 | 53 | 1.16 | 82.8 | 27.7 | 4.8 |
| La 887 | 934 | 42.4 | 37 | 43 | 1.15 | 82.4 | 30.7 | 4.8 |
| DES 119 | 934 | 41.6 | 35 | 53 | 1.15 | 83.2 | 29.7 | 4.9 |
| Coker 320 | 923 | 41.1 | 37 | 52 | 1.15 | 83.1 | 28.4 | 4.9 |
| Deltapine 20 | 915 | 40.9 | 34 | 56 | 1.13 | 83.3 | 27.3 | 4.7 |
| HS 23 | 912 | 40.4 | 34 | 53 | 1.13 | 81.9 | 28.0 | 4.6 |
| Stoneville 907 | 909 | 40.4 | 37 | 47 | 1.14 | 82.1 | 29.5 | 5.0 |
| Deltapine 5415 | 891 | 41.6 | 36 | 37 | 1.16 | 82.5 | 31.5 | 4.9 |
| Stoneville 453 | 890 | 42.2 | 34 | 37 | 1.14 | 81.4 | 27.6 | 4.7 |
| CB 407 | 889 | 41.3 | 39 | 43 | 1.14 | 82.4 | 30.8 | 4.8 |
| HS 46 | 887 | 41.7 | 38 | 40 | 1.17 | 82.0 | 31.6 | 4.5 |
| PD 3 | 885 | 40.3 | 38 | 39 | 1.16 | 83.5 | 30.4 | 4.6 |
| KC 311 | 880 | 40.8 | 38 | 43 | 1.14 | 82.9 | 32.1 | 4.8 |
| Deltapine 50 | 876 | 38.4 | 33 | 55 | 1.15 | 82.9 | 27.7 | 4.8 |
| Sure-Grow 1001 | 874 | 41.3 | 37 | 41 | 1.15 | 82.9 | 31.8 | 4.7 |
| Stoneville 132 | 851 | 42.3 | 34 | 62 | 1.09 | 82.4 | 27.8 | 4.8 |
| Deltapine 90 | 847 | 41.1 | 37 | 46 | 1.13 | 82.1 | 31.0 | 4.9 |
| Mean | 913 | 41.1 | 36 | 47 | 1.14 | 82.5 | 29.6 | 4.8 |

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¹Average of four locations in 1991, three locations in 1992, and four locations in 1993.

TABLE 50. TWO YEAR AVERAGE PERFORMANCE OF COTTON VARIETIES¹.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|----------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| S-35 | 1007 | 40.7 | 34 | 52 | 1.13 | 81.7 | 29.0 | 4.4 |
| Georgia King | 1005 | 42.8 | 37 | 43 | 1.15 | 83.0 | 30.6 | 4.5 |
| +X84-828 | 983 | 41.7 | 36 | 48 | 1.14 | 82.5 | 28.5 | 4.6 |
| SURE-GROW 501 | 970 | 42.7 | 35 | 44 | 1.15 | 83.8 | 31.6 | 4.7 |
| CAROLINA ES300 | 957 | 42.4 | 36 | 47 | 1.15 | 83.3 | 28.5 | 4.5 |
| CB 333 | 956 | 40.8 | 37 | 46 | 1.14 | 82.5 | 28.1 | 4.4 |
| Deltapine 51 | 948 | 40.5 | 34 | 53 | 1.15 | 82.8 | 27.9 | 4.7 |
| DES 119 | 945 | 41.7 | 34 | 53 | 1.14 | 83.2 | 29.6 | 4.7 |
| La 887 | 944 | 42.6 | 37 | 43 | 1.14 | 82.4 | 30.5 | 4.6 |
| Deltapine 5690 | 940 | 41.5 | 36 | 46 | 1.13 | 82.3 | 31.2 | 4.7 |
| CB 1135 | 935 | 40.3 | 33 | 46 | 1.13 | 81.6 | 29.1 | 4.3 |
| Deltapine 20 | 934 | 41.0 | 32 | 56 | 1.12 | 83.3 | 27.3 | 4.6 |
| Stoneville 907 | 931 | 40.6 | 36 | 47 | 1.14 | 82.1 | 29.6 | 4.8 |
| HS 23 | 917 | 40.3 | 34 | 53 | 1.13 | 81.9 | 28.1 | 4.3 |
| Coker 320 | 906 | 41.4 | 36 | 52 | 1.15 | 83.1 | 28.6 | 4.7 |
| CB 1233 | 895 | 40.9 | 36 | 43 | 1.15 | 82.9 | 32.6 | 4.5 |
| Stoneville 132 | 895 | 42.5 | 33 | 62 | 1.09 | 82.4 | 28.2 | 4.7 |
| Sure-Grow 1001 | 894 | 41.1 | 35 | 41 | 1.15 | 82.9 | 31.6 | 4.5 |
| CB 407 | 891 | 41.3 | 38 | 43 | 1.14 | 82.4 | 31.2 | 4.5 |
| Deltapine 50 | 889 | 38.5 | 32 | 55 | 1.14 | 82.9 | 27.8 | 4.6 |
| Deltapine 5415 | 883 | 41.8 | 34 | 37 | 1.15 | 82.5 | 31.2 | 4.7 |
| HS 46 | 882 | 41.9 | 36 | 40 | 1.16 | 82.0 | 31.1 | 4.2 |
| KC 311 | 871 | 40.5 | 37 | 43 | 1.14 | 82.9 | 32.4 | 4.6 |
| Stoneville 453 | 861 | 42.3 | 33 | 37 | 1.12 | 81.4 | 27.7 | 4.5 |
| +GA 88-15-19 | 848 | 40.8 | 36 | 33 | 1.16 | 81.7 | 32.5 | 4.1 |
| +GA 88-14-6 | 833 | 40.2 | 37 | 34 | 1.16 | 82.0 | 32.0 | 4.2 |
| Deltapine 90 | 827 | 41.3 | 34 | 46 | 1.12 | 82.1 | 31.3 | 4.6 |
| PD 3 | 826 | 40.4 | 37 | 39 | 1.15 | 83.5 | 30.1 | 4.4 |
| +GA 88-88 | 811 | 39.9 | 39 | 33 | 1.18 | 82.3 | 32.2 | 4.3 |
| Mean | 910 | 41.2 | 35 | 45 | 1.14 | 82.5 | 30.0 | 4.5 |

¹Average of three locations in 1992 and four locations in 1993.

+Experimental.

TABLE 51. AVERAGE PERFORMANCE OF COTTON VARIETIES ACROSS LOCATIONS - 1993

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|----------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------|
| Georgia King | 1080** | 41.8 | 32 | 43 | 1.14 | 83.0 | 31.7 | 4.3 |
| +SURE-GROW 125 | 1035* | 40.6 | 29 | 62 | 1.14 | 82.5 | 29.7 | 4.3 |
| SURE-GROW 501 | 1032* | 41.3 | 31 | 54 | 1.13 | 83.8 | 33.1 | 4.5 |
| S-35 | 1028* | 39.6 | 29 | 59 | 1.12 | 81.7 | 30.1 | 4.2 |
| +HARTZ VARIETY HX 1220 | 1018* | 39.9 | 31 | 65 | 1.11 | 82.5 | 29.9 | 4.5 |
| +HARTZ VARIETY HX 1380 | 1016* | 41.6 | 31 | 57 | 1.14 | 82.6 | 28.1 | 4.3 |
| +HARTZ VARIETY HX 1244 | 1008* | 39.8 | 30 | 55 | 1.10 | 82.1 | 30.4 | 4.3 |
| CB 333 | 1002* | 39.2 | 31 | 55 | 1.13 | 82.5 | 28.9 | 4.2 |
| Deltapine 5690 | 991* | 39.9 | 32 | 54 | 1.12 | 82.3 | 33.0 | 4.5 |
| +HARTZ VARIETY HX 1215 | 990* | 40.0 | 32 | 64 | 1.11 | 82.1 | 30.9 | 4.5 |
| +X84-828 | 987* | 40.3 | 31 | 49 | 1.13 | 82.5 | 30.0 | 4.4 |
| Deltapine 51 | 981* | 38.7 | 28 | 65 | 1.14 | 82.7 | 29.1 | 4.6 |
| +HARTZ VARIETY HX 1330 | 981* | 39.9 | 31 | 63 | 1.14 | 82.8 | 30.3 | 4.5 |
| CB 1135 | 973 | 39.3 | 29 | 49 | 1.12 | 81.6 | 30.6 | 4.1 |
| Coker 320 | 963 | 40.1 | 32 | 60 | 1.14 | 83.0 | 29.5 | 4.5 |
| Deltapine 5415 | 961 | 40.1 | 28 | 42 | 1.14 | 82.5 | 32.7 | 4.6 |
| +SURE-GROW 404 | 960 | 38.8 | 28 | 60 | 1.13 | 82.6 | 32.5 | 4.5 |
| +X94332 | 959 | 39.0 | 29 | 54 | 1.14 | 81.6 | 29.5 | 4.5 |
| DES 119 | 958 | 40.3 | 30 | 63 | 1.13 | 83.2 | 31.1 | 4.5 |
| CAROLINA ES300 | 958 | 40.6 | 32 | 52 | 1.14 | 83.3 | 29.5 | 4.5 |
| Deltapine 20 | 946 | 39.6 | 28 | 66 | 1.11 | 83.3 | 28.1 | 4.5 |
| La 887 | 945 | 41.1 | 32 | 49 | 1.12 | 82.3 | 32.0 | 4.5 |
| HS 46 | 944 | 40.2 | 32 | 48 | 1.14 | 82.0 | 32.0 | 4.0 |
| HYPERFORMER/HS-44 | 943 | 38.4 | 29 | 50 | 1.14 | 82.3 | 32.8 | 4.5 |
| CB 232 | 942 | 37.4 | 29 | 56 | 1.14 | 81.7 | 29.4 | 4.4 |
| HS 23 | 941 | 39.0 | 29 | 56 | 1.11 | 81.9 | 29.0 | 4.2 |
| KC 311 | 940 | 38.9 | 30 | 56 | 1.13 | 82.9 | 34.4 | 4.3 |
| Sure-Grow 1001 | 934 | 39.2 | 30 | 47 | 1.14 | 82.9 | 33.8 | 4.3 |
| CB 1233 | 933 | 38.7 | 31 | 46 | 1.14 | 82.9 | 33.7 | 4.3 |
| CB 407 | 931 | 39.4 | 31 | 49 | 1.14 | 82.4 | 33.5 | 4.3 |
| Stoneville 907 | 911 | 38.8 | 31 | 55 | 1.13 | 82.0 | 31.2 | 4.6 |

TABLE 51. (CONTINUED). AVERAGE PERFORMANCE OF COTTON VARIETIES ACROSS LOCATIONS - 1993

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|----------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| +GA 88-15-19 | 909 | 39.2 | 31 | 40 | 1.14 | 81.6 | 33.3 | 3.8 |
| +Hyperformer/HY-39 | 904 | 38.5 | 32 | 49 | 1.15 | 82.8 | 32.4 | 4.4 |
| Stoneville 132 | 889 | 41.3 | 29 | 75 | 1.07 | 82.3 | 29.0 | 4.7 |
| Deltapine 50 | 886 | 37.0 | 27 | 62 | 1.14 | 82.8 | 29.1 | 4.6 |
| Stoneville 453 | 880 | 41.2 | 29 | 45 | 1.12 | 81.4 | 28.4 | 4.0 |
| +SS 9301 | 875 | 37.1 | 30 | 63 | 1.16 | 82.5 | 31.1 | 4.5 |
| Deltapine 90 | 871 | 39.2 | 29 | 60 | 1.12 | 82.1 | 33.3 | 4.4 |
| +GA 88-88 | 862 | 38.7 | 31 | 44 | 1.16 | 82.3 | 33.5 | 4.2 |
| +GA 88-14-6 | 842 | 38.7 | 32 | 35 | 1.14 | 82.0 | 33.2 | 4.1 |
| PD 3 | 822 | 38.1 | 32 | 43 | 1.14 | 83.4 | 31.0 | 4.3 |
| DP 6100 ACALA | 807 | 38.0 | 29 | 46 | 1.15 | 84.2 | 36.8 | 4.5 |
| Mean | 946 | 39.5 | 30 | 54 | 1.13 | 82.5 | 31.2 | 4.4 |
| C.V. (%) | 8.0 | | | | | | | |
| BLSD (K-50) | 105 | | | | | | | |
| s.e. | 15.7 | | | | | | | |
| Error d.f. | 123 | | | | | | | |

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

TABLE 52. AVERAGE PERFORMANCE OF COTTON VARIETIES AT JOHNSTON COUNTY - 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|----------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------|
| Georgia King | 2031** | 42.4 | 34 | 17 | 1.19 | 84.5 | 33.3 | 4.2 |
| S-35 | 1641 | 40.2 | 31 | 49 | 1.15 | 80.8 | 31.6 | 4.1 |
| +HARTZ VARIETY HX 1380 | 1629 | 42.9 | 38 | 39 | 1.19 | 82.5 | 28.8 | 4.0 |
| SURE-GROW 501 | 1591 | 41.2 | 32 | 70 | 1.17 | 84.6 | 33.3 | 4.2 |
| Coker 320 | 1580 | 41.4 | 36 | 55 | 1.19 | 83.7 | 30.1 | 4.5 |
| +X84-828 | 1562 | 41.7 | 33 | 25 | 1.18 | 82.9 | 32.0 | 4.3 |
| Deltapine 51 | 1554 | 38.7 | 30 | 63 | 1.18 | 83.0 | 29.7 | 4.2 |
| Deltapine 5415 | 1552 | 41.3 | 29 | 40 | 1.17 | 82.8 | 31.6 | 4.5 |
| Deltapine 5690 | 1514 | 40.9 | 37 | 57 | 1.14 | 81.6 | 31.3 | 4.1 |
| CB 333 | 1514 | 40.0 | 35 | 58 | 1.15 | 82.4 | 29.7 | 4.0 |
| CAROLINA ES300 | 1507 | 42.5 | 35 | 31 | 1.18 | 83.2 | 31.8 | 4.1 |
| +HARTZ VARIETY HX 1330 | 1491 | 39.6 | 35 | 46 | 1.18 | 82.6 | 31.0 | 4.1 |
| +SURE-GROW 404 | 1484 | 39.7 | 29 | 60 | 1.18 | 82.6 | 32.1 | 4.7 |
| +SURE-GROW 125 | 1472 | 41.2 | 28 | 56 | 1.17 | 82.4 | 29.9 | 4.3 |
| +X94332 | 1470 | 40.4 | 31 | 41 | 1.18 | 82.3 | 29.3 | 4.3 |
| +GA 88-15-19 | 1461 | 41.3 | 34 | 29 | 1.19 | 81.6 | 33.5 | 3.7 |
| CB 1135 | 1459 | 40.4 | 31 | 34 | 1.14 | 80.5 | 29.8 | 4.1 |
| +HARTZ VARIETY HX 1220 | 1455 | 40.1 | 32 | 62 | 1.13 | 82.2 | 30.5 | 3.9 |
| Sure-Grow 1001 | 1443 | 40.4 | 32 | 39 | 1.19 | 83.6 | 33.8 | 4.2 |
| CB 1233 | 1441 | 39.8 | 36 | 31 | 1.16 | 82.2 | 33.3 | 4.2 |
| HYPERFORMER/HS-44 | 1440 | 39.6 | 33 | 34 | 1.16 | 82.4 | 32.5 | 4.3 |
| La 887 | 1425 | 41.6 | 35 | 50 | 1.15 | 82.1 | 31.9 | 4.3 |
| Deltapine 20 | 1417 | 39.8 | 36 | 54 | 1.16 | 82.6 | 28.8 | 3.8 |
| +GA 88-88 | 1406 | 40.3 | 33 | 54 | 1.20 | 82.2 | 34.0 | 4.1 |
| HS 23 | 1405 | 39.0 | 27 | 55 | 1.15 | 82.5 | 30.7 | 4.0 |
| DES 119 | 1397 | 41.0 | 29 | 92 | 1.16 | 83.4 | 31.2 | 4.7 |
| Stoneville 453 | 1388 | 43.0 | 30 | 26 | 1.14 | 81.3 | 29.3 | 3.9 |
| +HARTZ VARIETY HX 1244 | 1387 | 39.6 | 32 | 55 | 1.14 | 83.7 | 31.1 | 4.0 |
| +HARTZ VARIETY HX 1215 | 1384 | 40.4 | 32 | 55 | 1.14 | 82.3 | 30.1 | 4.2 |
| CB 232 | 1382 | 37.3 | 32 | 44 | 1.16 | 80.8 | 30.2 | 4.0 |
| +Hyperformer/HY-39 | 1377 | 40.3 | 37 | 27 | 1.17 | 83.0 | 33.1 | 4.2 |

TABLE 52. (CONTINUED). AVERAGE PERFORMANCE OF COTTON VARIETIES AT JOHNSTON COUNTY - 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|----------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| KC 311 | 1372 | 39.7 | 30 | 61 | 1.17 | 82.8 | 35.3 | 4.1 |
| CB 407 | 1360 | 41.6 | 36 | 38 | 1.15 | 82.0 | 32.5 | 4.4 |
| Stoneville 907 | 1349 | 39.3 | 31 | 44 | 1.17 | 82.0 | 32.2 | 4.2 |
| +GA 88-14-6 | 1344 | 40.4 | 37 | 36 | 1.15 | 80.8 | 33.4 | 3.7 |
| HS 46 | 1320 | 41.7 | 36 | 33 | 1.20 | 82.8 | 32.3 | 4.2 |
| PD 3 | 1306 | 39.4 | 36 | 40 | 1.18 | 85.5 | 32.0 | 4.0 |
| Deltapine 50 | 1300 | 36.9 | 29 | 71 | 1.21 | 83.5 | 29.7 | 4.4 |
| +SS 9301 | 1282 | 37.9 | 33 | 52 | 1.21 | 82.4 | 32.0 | 4.3 |
| DP 6100 Acala | 1282 | 38.7 | 29 | 34 | 1.18 | 84.2 | 36.9 | 4.5 |
| Stoneville 132 | 1277 | 41.0 | 29 | 78 | 1.10 | 82.6 | 29.4 | 4.7 |
| Deltapine 90 | 1260 | 40.1 | 27 | 63 | 1.15 | 82.1 | 32.6 | 4.3 |
| Mean | 1446 | 40.3 | 32 | 48 | 1.17 | 82.6 | 31.6 | 4.2 |
| C.V. (%) | 13.0 | | | | | | | |
| BLSD (K-50) | 295 | | | | | | | |
| s.e. | 94.2 | | | | | | | |
| Error d.f. | 118 | | | | | | | |

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

TABLE 53. AVERAGE PERFORMANCE OF COTTON VARIETIES AT EDGECOMBE COUNTY - 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-----------|---------------------------|----------------------------|----------------------|---------------------|---------------|------|
| +HARTZ VARIETY HX 1244 | 863** | 40.0 | 31 | 47 | 1.10 | 81.7 | 30.7 | 4.0 |
| +HARTZ VARIETY HX 1215 | 828* | 40.3 | 30 | 57 | 1.08 | 81.0 | 31.0 | 4.1 |
| +SURE-GROW 125 | 825* | 40.4 | 27 | 65 | 1.14 | 82.3 | 29.9 | 4.2 |
| +X94332 | 789* | 40.0 | 28 | 51 | 1.11 | 80.6 | 29.5 | 4.5 |
| +HARTZ VARIETY HX 1220 | 783* | 39.4 | 31 | 58 | 1.10 | 81.5 | 29.9 | 4.3 |
| S-35 | 778* | 39.9 | 27 | 56 | 1.12 | 82.6 | 30.2 | 4.4 |
| Deltapine 51 | 774* | 39.6 | 30 | 60 | 1.13 | 82.1 | 29.5 | 4.5 |
| CB 333 | 768 | 39.3 | 30 | 59 | 1.10 | 81.4 | 28.4 | 4.1 |
| SURE-GROW 501 | 767 | 42.2 | 31 | 57 | 1.11 | 83.2 | 33.8 | 4.6 |
| CB 232 | 765 | 37.2 | 29 | 60 | 1.12 | 80.9 | 28.4 | 4.2 |
| +HARTZ VARIETY HX 1330 | 765 | 40.1 | 30 | 68 | 1.11 | 82.2 | 30.1 | 4.1 |
| Stoneville 907 | 764 | 39.2 | 33 | 52 | 1.10 | 81.0 | 31.6 | 4.5 |
| Stoneville 132 | 759 | 41.2 | 29 | 61 | 1.05 | 81.6 | 28.6 | 4.3 |
| CB 1135 | 759 | 39.8 | 30 | 43 | 1.11 | 81.0 | 31.7 | 4.0 |
| HS 46 | 758 | 40.2 | 34 | 49 | 1.08 | 80.6 | 31.3 | 3.8 |
| +SURE-GROW 404 | 757 | 39.1 | 30 | 51 | 1.07 | 80.3 | 32.0 | 4.2 |
| Deltapine 5690 | 756 | 40.6 | 30 | 43 | 1.13 | 82.7 | 34.6 | 4.4 |
| +HARTZ VARIETY HX 1380 | 755 | 41.5 | 31 | 47 | 1.15 | 83.3 | 29.3 | 4.2 |
| CB 407 | 745 | 39.0 | 32 | 40 | 1.14 | 81.8 | 34.2 | 4.0 |
| CB 1233 | 741 | 39.0 | 29 | 61 | 1.14 | 83.1 | 34.3 | 4.2 |
| +Hyperformer/HY-39 | 739 | 39.2 | 29 | 45 | 1.12 | 81.4 | 32.3 | 4.4 |
| CAROLINA ES300 | 739 | 40.9 | 30 | 66 | 1.12 | 82.4 | 29.7 | 4.3 |
| KC 311 | 734 | 38.9 | 31 | 46 | 1.09 | 81.3 | 32.7 | 4.1 |
| Sure-Grow 1001 | 721 | 39.4 | 33 | 39 | 1.14 | 82.1 | 34.6 | 3.9 |
| Deltapine 20 | 708 | 39.4 | 26 | 62 | 1.11 | 83.4 | 29.0 | 4.1 |
| Coker 320 | 705 | 40.3 | 31 | 62 | 1.15 | 84.0 | 30.5 | 4.4 |
| Deltapine 50 | 699 | 37.9 | 26 | 54 | 1.13 | 82.5 | 29.3 | 4.3 |
| HYPERFORMER/HS-44 | 692 | 38.9 | 29 | 61 | 1.14 | 82.3 | 34.2 | 4.3 |
| DES 119 | 688 | 39.8 | 32 | 45 | 1.11 | 82.2 | 30.2 | 4.0 |
| +SS 9301 | 685 | 36.7 | 33 | 67 | 1.18 | 82.6 | 31.1 | 4.4 |
| Deltapine 90 | 671 | 39.3 | 32 | 44 | 1.10 | 82.1 | 33.5 | 4.1 |

TABLE 53. (CONTINUED). AVERAGE PERFORMANCE OF COTTON VARIETIES AT EDGECOMBE COUNTY - 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| La 887 | 670 | 41.9 | 33 | 46 | 1.12 | 82.1 | 32.5 | 4.4 |
| Stoneville 453 | 668 | 42.2 | 30 | 42 | 1.11 | 81.3 | 28.6 | 4.1 |
| HS 23 | 662 | 38.2 | 32 | 44 | 1.12 | 81.6 | 30.5 | 4.0 |
| +X84-828 | 641 | 40.0 | 32 | 52 | 1.11 | 82.3 | 29.2 | 4.2 |
| Deltapine 5415 | 624 | 40.6 | 27 | 35 | 1.12 | 82.0 | 33.3 | 4.5 |
| Georgia King | 621 | 41.7 | 30 | 33 | 1.11 | 82.1 | 31.6 | 4.3 |
| DP 6100 ACALA | 618 | 39.3 | 31 | 44 | 1.17 | 84.4 | 38.7 | 4.4 |
| +GA 88-15-19 | 603 | 39.2 | 31 | 27 | 1.12 | 81.4 | 32.8 | 3.8 |
| PD 3 | 530 | 38.4 | 30 | 28 | 1.13 | 82.0 | 32.1 | 4.2 |
| +GA 88-14-6 | 515 | 38.6 | 33 | 28 | 1.14 | 81.8 | 33.3 | 4.1 |
| +GA 88-88 | 498 | 38.7 | 31 | 36 | 1.14 | 81.9 | 35.4 | 3.9 |
| Mean | 713 | 39.7 | 30 | 50 | 1.12 | 82.0 | 31.5 | 4.2 |
| C.V. (%) | 10.7 | | | | | | | |
| BLS D (K-50) | 92 | | | | | | | |
| s.e. | 38.1 | | | | | | | |
| Error d.f. | 123 | | | | | | | |

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

TABLE 54. AVERAGE PERFORMANCE OF COTTON VARIETIES AT BERTIE COUNTY - 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-----------|---------------------------|----------------------------|----------------------|---------------------|---------------|------|
| +HARTZ VARIETY HX 1220 | 909** | 39.6 | 30 | 77 | 1.11 | 83.3 | 29.9 | 4.7 |
| +SURE-GROW 125 | 900* | 40.2 | 28 | 77 | 1.12 | 82.5 | 29.8 | 4.6 |
| +HARTZ VARIETY HX 1244 | 874* | 38.3 | 29 | 72 | 1.10 | 81.9 | 31.3 | 4.3 |
| +HARTZ VARIETY HX 1215 | 854* | 37.9 | 34 | 74 | 1.11 | 82.2 | 32.6 | 4.4 |
| CB 333 | 849* | 38.3 | 32 | 52 | 1.13 | 82.7 | 29.5 | 4.3 |
| CB 1135 | 848* | 38.5 | 28 | 72 | 1.10 | 81.8 | 31.0 | 4.5 |
| DES 119 | 847* | 39.5 | 30 | 68 | 1.12 | 83.6 | 31.1 | 4.5 |
| +HARTZ VARIETY HX 1330 | 834 | 38.6 | 32 | 74 | 1.15 | 83.8 | 31.1 | 4.9 |
| Deltapine 20 | 831 | 38.9 | 23 | 82 | 1.10 | 83.3 | 27.5 | 5.0 |
| Georgia King | 830 | 41.1 | 33 | 79 | 1.12 | 82.0 | 32.5 | 4.1 |
| +X84-828 | 820 | 38.8 | 29 | 76 | 1.14 | 83.3 | 30.2 | 4.8 |
| HS 23 | 817 | 38.2 | 29 | 74 | 1.09 | 81.0 | 27.4 | 4.3 |
| SURE-GROW 501 | 813 | 40.0 | 31 | 60 | 1.12 | 83.5 | 31.4 | 4.7 |
| CB 232 | 811 | 37.2 | 26 | 74 | 1.15 | 82.6 | 30.7 | 4.7 |
| La 887 | 809 | 40.2 | 32 | 52 | 1.12 | 82.5 | 32.4 | 4.6 |
| S-35 | 806 | 37.7 | 31 | 75 | 1.13 | 82.0 | 31.2 | 4.1 |
| Deltapine 5415 | 806 | 38.6 | 27 | 50 | 1.13 | 82.8 | 33.3 | 4.8 |
| +HARTZ VARIETY HX 1380 | 806 | 40.4 | 26 | 75 | 1.12 | 82.5 | 27.8 | 4.6 |
| HS 46 | 804 | 38.4 | 28 | 68 | 1.13 | 82.2 | 32.4 | 4.1 |
| +SURE-GROW 404 | 797 | 37.7 | 27 | 74 | 1.14 | 83.6 | 32.7 | 4.5 |
| Deltapine 5690 | 789 | 37.5 | 31 | 54 | 1.13 | 82.6 | 34.7 | 4.5 |
| Deltapine 51 | 787 | 36.8 | 25 | 75 | 1.13 | 83.0 | 29.2 | 4.7 |
| CAROLINA ES300 | 785 | 38.4 | 32 | 70 | 1.12 | 83.6 | 28.4 | 4.8 |
| KC 311 | 783 | 37.5 | 30 | 62 | 1.15 | 83.9 | 35.2 | 4.4 |
| HYPERFORMER/HS-44 | 772 | 36.0 | 27 | 72 | 1.12 | 82.0 | 31.8 | 4.7 |
| Coker 320 | 769 | 38.6 | 32 | 70 | 1.10 | 82.3 | 29.9 | 4.3 |
| Deltapine 50 | 765 | 35.3 | 27 | 69 | 1.14 | 83.3 | 29.4 | 4.8 |
| CB 407 | 764 | 37.6 | 29 | 78 | 1.11 | 83.3 | 34.9 | 4.6 |
| Stoneville 132 | 757 | 40.7 | 28 | 88 | 1.07 | 82.6 | 29.6 | 5.0 |
| CB 1233 | 740 | 36.9 | 33 | 62 | 1.15 | 83.5 | 34.8 | 4.5 |
| +GA 88-15-19 | 740 | 36.7 | 31 | 60 | 1.10 | 81.0 | 32.8 | 3.9 |

TABLE 54. (CONTINUED). AVERAGE PERFORMANCE OF COTTON VARIETIES AT BERTIE COUNTY - 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|----------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| +SS 9301 | 738 | 35.5 | 25 | 80 | 1.14 | 83.2 | 31.8 | 4.6 |
| Sure-Grow 1001 | 738 | 37.0 | 30 | 67 | 1.11 | 82.1 | 33.2 | 4.5 |
| +X94332 | 734 | 36.3 | 27 | 71 | 1.16 | 82.1 | 30.8 | 4.4 |
| Stoneville 907 | 721 | 37.4 | 32 | 71 | 1.15 | 82.5 | 31.4 | 4.7 |
| +Hyperformer/HY-39 | 721 | 36.7 | 32 | 67 | 1.18 | 83.7 | 32.9 | 4.6 |
| Deltapine 90 | 714 | 37.5 | 27 | 67 | 1.12 | 82.5 | 34.4 | 4.7 |
| +GA 88-88 | 706 | 36.7 | 31 | 38 | 1.16 | 82.6 | 32.0 | 4.2 |
| +GA 88-14-6 | 697 | 36.8 | 30 | 50 | 1.12 | 81.6 | 33.0 | 4.2 |
| PD 3 | 691 | 36.3 | 33 | 74 | 1.14 | 83.1 | 29.8 | 4.3 |
| Stoneville 453 | 666 | 38.4 | 28 | 75 | 1.09 | 81.4 | 28.5 | 4.2 |
| DP 6100 ACALA | 581 | 35.4 | 28 | 64 | 1.12 | 84.4 | 35.9 | 4.5 |
| Mean | 782 | 38.0 | 29 | 69 | 1.12 | 82.7 | 31.4 | 4.5 |
| C.V. (%) | 8.8 | | | | | | | |
| BLSD (K-50) | 67 | | | | | | | |
| s.e. | 28.2 | | | | | | | |
| Error d.f. | 203 | | | | | | | |

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

TABLE 55. AVERAGE PERFORMANCE OF COTTON VARIETIES AT LENOIR COUNTY - 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-----------|---------------------------|----------------------------|----------------------|---------------------|---------------|------|
| SURE-GROW 501 | 955** | 41.6 | 30 | 29 | 1.14 | 83.9 | 34.0 | 4.5 |
| +SURE-GROW 125 | 941* | 40.8 | 31 | 51 | 1.13 | 82.9 | 29.4 | 4.3 |
| +X84-828 | 926* | 40.6 | 31 | 41 | 1.10 | 81.5 | 28.8 | 4.2 |
| +HARTZ VARIETY HX 1220 | 926* | 40.7 | 31 | 64 | 1.10 | 83.1 | 29.5 | 5.0 |
| +HARTZ VARIETY HX 1244 | 908* | 41.2 | 29 | 44 | 1.07 | 81.0 | 28.7 | 4.9 |
| Deltapine 5690 | 903* | 40.8 | 33 | 61 | 1.09 | 82.3 | 31.4 | 5.0 |
| DES 119 | 900* | 40.7 | 30 | 48 | 1.13 | 83.7 | 31.8 | 4.7 |
| +HARTZ VARIETY HX 1215 | 894 | 41.4 | 33 | 72 | 1.11 | 83.0 | 29.8 | 5.2 |
| HS 46 | 893 | 40.4 | 31 | 42 | 1.14 | 82.4 | 32.2 | 4.1 |
| S-35 | 887 | 40.4 | 29 | 55 | 1.10 | 81.5 | 27.3 | 4.4 |
| HS 23 | 881 | 40.4 | 29 | 52 | 1.10 | 82.5 | 27.5 | 4.5 |
| CB 333 | 878 | 39.3 | 29 | 51 | 1.13 | 83.5 | 28.1 | 4.4 |
| La 887 | 876 | 40.6 | 30 | 49 | 1.11 | 82.7 | 31.4 | 4.6 |
| +HARTZ VARIETY HX 1380 | 874 | 41.7 | 31 | 66 | 1.11 | 82.3 | 26.7 | 4.6 |
| KC 311 | 871 | 39.7 | 30 | 56 | 1.13 | 83.7 | 34.5 | 4.7 |
| HYPERFORMER/HS-44 | 868 | 39.2 | 27 | 34 | 1.14 | 82.5 | 32.7 | 4.7 |
| Deltapine 5415 | 863 | 39.8 | 29 | 42 | 1.14 | 82.5 | 32.5 | 4.8 |
| CB 407 | 857 | 39.5 | 27 | 42 | 1.15 | 82.6 | 32.4 | 4.4 |
| +X94332 | 843 | 39.5 | 30 | 52 | 1.12 | 81.6 | 28.6 | 4.9 |
| +GA 88-88 | 838 | 39.2 | 31 | 50 | 1.16 | 82.6 | 32.8 | 4.5 |
| Deltapine 90 | 838 | 40.0 | 30 | 69 | 1.10 | 81.6 | 32.7 | 4.6 |
| Georgia King | 838 | 42.2 | 33 | 44 | 1.13 | 83.4 | 29.5 | 4.6 |
| Sure-Grow 1001 | 834 | 39.9 | 28 | 44 | 1.13 | 83.7 | 33.5 | 4.5 |
| +HARTZ VARIETY HX 1330 | 833 | 41.3 | 30 | 65 | 1.11 | 82.5 | 29.0 | 5.0 |
| +GA 88-15-19 | 832 | 39.5 | 30 | 44 | 1.17 | 82.6 | 34.3 | 3.9 |
| Deltapine 20 | 830 | 40.4 | 28 | 65 | 1.09 | 84.0 | 27.1 | 5.1 |
| CB 1135 | 825 | 38.6 | 28 | 48 | 1.13 | 83.0 | 29.8 | 4.0 |
| +GA 88-14-6 | 814 | 38.8 | 28 | 27 | 1.16 | 83.8 | 33.3 | 4.3 |
| Stoneville 907 | 811 | 39.2 | 29 | 54 | 1.12 | 82.7 | 29.8 | 5.0 |
| Deltapine 51 | 810 | 39.6 | 29 | 61 | 1.12 | 82.9 | 28.1 | 5.1 |
| CB 1233 | 809 | 39.2 | 29 | 28 | 1.11 | 82.7 | 32.6 | 4.2 |

TABLE 55. (CONTINUED). AVERAGE PERFORMANCE OF COTTON VARIETIES AT LENOIR COUNTY - 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|----------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| CB 232 | 808 | 37.9 | 28 | 44 | 1.14 | 82.4 | 28.2 | 4.6 |
| CAROLINA ES300 | 800 | 40.8 | 33 | 42 | 1.13 | 84.1 | 28.0 | 4.7 |
| +SURE-GROW 404 | 800 | 38.8 | 27 | 52 | 1.14 | 83.8 | 33.2 | 4.7 |
| Coker 320 | 798 | 40.2 | 29 | 53 | 1.12 | 82.2 | 27.5 | 4.9 |
| Stoneville 453 | 797 | 41.4 | 28 | 36 | 1.13 | 81.5 | 27.1 | 3.9 |
| +SS 9301 | 793 | 38.2 | 31 | 52 | 1.13 | 81.9 | 29.7 | 4.7 |
| Deltapine 50 | 781 | 37.7 | 27 | 54 | 1.10 | 82.1 | 28.2 | 4.8 |
| +Hyperformer/HY-39 | 778 | 37.9 | 30 | 60 | 1.12 | 83.0 | 31.4 | 4.4 |
| Stoneville 132 | 765 | 42.3 | 31 | 73 | 1.07 | 82.6 | 28.4 | 4.8 |
| PD 3 | 760 | 38.4 | 30 | 30 | 1.13 | 83.2 | 30.1 | 4.7 |
| DP 6100 ACALA | 746 | 38.7 | 30 | 42 | 1.15 | 83.8 | 35.6 | 4.5 |
| Mean | 845 | 40.0 | 29 | 50 | 1.12 | 82.7 | 30.4 | 4.6 |
| C.V. (%) | 6.3 | | | | | | | |
| BLSD (K-50) | 57 | | | | | | | |
| s.e. | 23.8 | | | | | | | |
| Error d.f. | 160 | | | | | | | |

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

TABLE 56. AVERAGE PERFORMANCE OF COTTON VARIETIES AT EDGECOMBE COUNTY - 1992 & 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-----------|---------------------------|----------------------------|----------------------|---------------------|---------------|------|
| S-35 | 901** | 41.6 | 34 | 54 | 1.12 | 82.6 | 29.1 | 4.5 |
| Stoneville 132 | 857* | 43.1 | 37 | 58 | 1.08 | 81.6 | 27.4 | 4.5 |
| Stoneville 907 | 846* | 41.6 | 38 | 49 | 1.12 | 81.0 | 30.0 | 4.7 |
| SURE-GROW 501 | 839* | 44.4 | 36 | 44 | 1.13 | 83.2 | 32.0 | 4.8 |
| CAROLINA ES300 | 835* | 43.3 | 37 | 59 | 1.14 | 82.4 | 28.5 | 4.5 |
| DES 119 | 818* | 41.8 | 38 | 49 | 1.14 | 82.2 | 29.6 | 4.4 |
| Deltapine 20 | 810* | 41.5 | 33 | 54 | 1.12 | 83.4 | 27.3 | 4.4 |
| +X84-828 | 803* | 42.3 | 38 | 55 | 1.12 | 82.3 | 28.1 | 4.5 |
| Deltapine 51 | 801* | 41.5 | 37 | 53 | 1.15 | 82.1 | 28.3 | 4.5 |
| CB 1135 | 792* | 41.4 | 36 | 45 | 1.13 | 81.0 | 29.3 | 4.3 |
| Deltapine 5690 | 783* | 42.1 | 38 | 44 | 1.13 | 82.7 | 31.9 | 4.5 |
| CB 333 | 783* | 41.0 | 38 | 45 | 1.12 | 81.4 | 27.9 | 4.3 |
| Georgia King | 780* | 43.2 | 37 | 44 | 1.14 | 82.1 | 31.2 | 4.5 |
| La 887 | 778* | 43.2 | 41 | 39 | 1.13 | 82.1 | 30.7 | 4.6 |
| Coker 320 | 773* | 42.1 | 37 | 58 | 1.16 | 84.0 | 29.0 | 4.7 |
| HS 23 | 771* | 40.7 | 36 | 51 | 1.12 | 81.6 | 29.0 | 4.3 |
| HS 46 | 764* | 42.9 | 38 | 47 | 1.13 | 80.6 | 30.6 | 4.2 |
| Stoneville 453 | 755* | 42.9 | 36 | 38 | 1.11 | 81.3 | 27.6 | 4.6 |
| CB 1233 | 755* | 41.6 | 37 | 49 | 1.15 | 83.1 | 36.1 | 4.5 |
| CB 407 | 746* | 42.0 | 40 | 34 | 1.14 | 81.8 | 31.5 | 4.2 |
| Deltapine 50 | 743* | 39.4 | 33 | 53 | 1.14 | 82.5 | 27.7 | 4.4 |
| Sure-Grow 1001 | 729 | 41.8 | 39 | 41 | 1.14 | 82.1 | 31.8 | 4.3 |

TABLE 56. (CONTINUED). AVERAGE PERFORMANCE OF COTTON VARIETIES AT EDGEcombe COUNTY -
1992 & 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| Deltapine 90 | 703 | 41.6 | 38 | 38 | 1.11 | 82.1 | 31.4 | 4.6 |
| KC 311 | 701 | 41.3 | 38 | 38 | 1.11 | 81.3 | 31.3 | 4.4 |
| PD 3 | 675 | 41.5 | 39 | 33 | 1.15 | 82.0 | 30.6 | 4.4 |
| +GA 88-15-19 | 667 | 41.3 | 37 | 27 | 1.14 | 81.4 | 32.3 | 4.2 |
| Deltapine 5415 | 650 | 42.6 | 37 | 33 | 1.14 | 82.0 | 31.8 | 4.6 |
| +GA 88-14-6 | 645 | 40.7 | 39 | 34 | 1.16 | 81.8 | 32.4 | 4.3 |
| +GA 88-88 | 570 | 40.2 | 42 | 35 | 1.16 | 81.9 | 33.7 | 4.2 |
| Mean | 761 | 41.9 | 37 | 45 | 1.13 | 82.1 | 30.3 | 4.4 |
| C.V. (%) | 9.7 | | | | | | | |
| BLSD (K-50) | 171 | | | | | | | |
| s.e. | 26.2 | | | | | | | |
| Error d.f. | 28 | | | | | | | |

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

TABLE 57. AVERAGE PERFORMANCE OF COTTON VARIETIES AT BERTIE COUNTY - 1992 & 1993

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-----------|---------------------------|----------------------------|----------------------|---------------------|---------------|------|
| CB 333 | 954** | 40.7 | 38 | 37 | 1.14 | 82.7 | 28.9 | 4.5 |
| S-35 | 915* | 40.0 | 35 | 58 | 1.14 | 82.0 | 29.0 | 4.3 |
| CAROLINA ES300 | 913* | 41.8 | 38 | 48 | 1.15 | 83.6 | 28.2 | 4.6 |
| Deltapine 51 | 903* | 40.1 | 34 | 50 | 1.15 | 83.0 | 27.5 | 4.8 |
| La 887 | 903* | 42.7 | 36 | 36 | 1.15 | 82.5 | 30.4 | 4.8 |
| +X84-828 | 902* | 41.4 | 36 | 57 | 1.14 | 83.3 | 28.5 | 4.9 |
| Georgia King | 898* | 42.9 | 40 | 57 | 1.13 | 82.0 | 30.1 | 4.5 |
| DES 119 | 889* | 42.5 | 35 | 53 | 1.13 | 83.6 | 28.7 | 4.8 |
| CB 1135 | 879* | 40.6 | 34 | 54 | 1.11 | 81.8 | 29.0 | 4.5 |
| Deltapine 50 | 869* | 38.4 | 34 | 46 | 1.13 | 83.3 | 27.8 | 4.8 |
| HS 23 | 865* | 40.0 | 35 | 49 | 1.13 | 81.0 | 26.9 | 4.4 |
| Deltapine 20 | 865* | 41.0 | 31 | 62 | 1.13 | 83.3 | 27.1 | 5.0 |
| Deltapine 5415 | 863* | 41.9 | 33 | 42 | 1.15 | 82.8 | 30.9 | 4.9 |
| Sure-Grow 1001 | 861* | 40.5 | 34 | 44 | 1.13 | 82.1 | 31.0 | 4.7 |
| Deltapine 5690 | 861* | 41.1 | 36 | 36 | 1.15 | 82.6 | 31.6 | 4.8 |
| CB 407 | 849* | 40.6 | 37 | 51 | 1.12 | 83.3 | 31.3 | 4.7 |
| Stoneville 132 | 845* | 42.6 | 33 | 66 | 1.09 | 82.6 | 28.8 | 4.9 |
| SURE-GROW 501 | 844* | 42.5 | 36 | 40 | 1.14 | 83.5 | 30.2 | 4.9 |
| CB 1233 | 843* | 40.2 | 37 | 44 | 1.15 | 83.5 | 31.4 | 4.7 |
| Stoneville 907 | 843* | 39.9 | 36 | 43 | 1.15 | 82.5 | 29.0 | 4.9 |
| HS 46 | 843* | 41.3 | 34 | 44 | 1.16 | 82.2 | 31.3 | 4.4 |
| KC 311 | 835 | 40.0 | 39 | 36 | 1.16 | 83.9 | 32.6 | 4.7 |

TABLE 57. (CONTINUED). AVERAGE PERFORMANCE OF COTTON VARIETIES AT BERTIE COUNTY -
1992 & 1993

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|----------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| +GA 88-14-6 | 835 | 40.1 | 36 | 39 | 1.15 | 81.6 | 32.3 | 4.3 |
| Coker 320 | 815 | 40.9 | 37 | 48 | 1.11 | 82.3 | 28.8 | 4.6 |
| +GA 88-88 | 790 | 39.3 | 39 | 25 | 1.16 | 82.6 | 30.3 | 4.3 |
| Stoneville 453 | 784 | 42.0 | 32 | 45 | 1.12 | 81.4 | 28.3 | 4.6 |
| +GA 88-15-19 | 782 | 39.8 | 37 | 34 | 1.14 | 81.0 | 32.6 | 4.1 |
| PD 3 | 777 | 39.8 | 36 | 48 | 1.15 | 83.1 | 30.0 | 4.5 |
| Deltapine 90 | 719 | 41.2 | 33 | 46 | 1.12 | 82.5 | 31.2 | 4.8 |
| Mean | 853 | 40.9 | 35 | 46 | 1.14 | 82.6 | 29.8 | 4.6 |
| C.V. (%) | 5.9 | | | | | | | |
| BLSD (K-50) | 116 | | | | | | | |
| s.e. | 16.0 | | | | | | | |
| Error d.f. | 28 | | | | | | | |

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

TABLE 58. AVERAGE PERFORMANCE OF COTTON VARIETIES AT LENOIR COUNTY† - 1992 & 1993

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-----------|---------------------------|----------------------------|----------------------|---------------------|---------------|------|
| +X84-828 | 955** | 41.5 | 34 | 45 | 1.13 | 81.5 | 27.3 | 4.7 |
| SURE-GROW 501 | 917* | 41.8 | 36 | 36 | 1.16 | 83.9 | 31.9 | 4.6 |
| La 887 | 911* | 42.4 | 34 | 52 | 1.14 | 82.7 | 29.9 | 4.8 |
| DES 119 | 902* | 41.4 | 33 | 39 | 1.15 | 83.7 | 29.8 | 4.9 |
| Stoneville 907 | 896* | 40.9 | 35 | 51 | 1.14 | 82.7 | 28.5 | 5.1 |
| Deltapine 5690 | 889* | 41.7 | 36 | 53 | 1.12 | 82.3 | 30.0 | 5.1 |
| S-35 | 888* | 40.8 | 34 | 44 | 1.13 | 81.5 | 27.6 | 4.6 |
| Deltapine 20 | 885* | 40.9 | 31 | 54 | 1.11 | 84.0 | 26.7 | 4.8 |
| HS 23 | 871* | 40.8 | 35 | 55 | 1.13 | 82.5 | 27.0 | 4.5 |
| CB 1135 | 870* | 38.9 | 32 | 46 | 1.14 | 83.0 | 28.5 | 4.4 |
| CB 333 | 853* | 41.2 | 35 | 50 | 1.14 | 83.5 | 26.7 | 4.5 |
| CAROLINA ES300 | 849* | 42.1 | 34 | 42 | 1.15 | 84.1 | 27.3 | 4.7 |
| Deltapine 50 | 848* | 38.7 | 31 | 57 | 1.12 | 82.1 | 27.0 | 4.8 |
| Deltapine 90 | 843* | 41.7 | 33 | 47 | 1.12 | 81.6 | 30.5 | 4.7 |
| CB 407 | 842* | 41.2 | 37 | 45 | 1.14 | 82.6 | 30.1 | 4.7 |
| Deltapine 51 | 836* | 40.8 | 33 | 50 | 1.14 | 82.9 | 26.8 | 5.0 |
| KC 311 | 828* | 40.6 | 36 | 45 | 1.13 | 83.7 | 31.7 | 4.8 |
| Georgia King | 825* | 42.6 | 36 | 42 | 1.15 | 83.4 | 29.1 | 4.7 |
| HS 46 | 821* | 41.8 | 38 | 31 | 1.16 | 82.4 | 31.0 | 4.2 |
| Sure-Grow 1001 | 816* | 41.3 | 34 | 41 | 1.14 | 83.7 | 30.9 | 4.6 |
| CB 1233 | 815* | 41.5 | 36 | 40 | 1.13 | 82.7 | 29.8 | 4.5 |
| Deltapine 5415 | 803* | 41.3 | 35 | 34 | 1.14 | 82.5 | 30.8 | 4.9 |

TABLE 58. (CONTINUED). AVERAGE PERFORMANCE OF COTTON VARIETIES AT LENOIR COUNTY†
- 1992 & 1993

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| Stoneville 132 | 792* | 42.7 | 32 | 55 | 1.09 | 82.6 | 27.9 | 4.8 |
| Coker 320 | 792* | 41.1 | 34 | 47 | 1.14 | 82.2 | 27.1 | 4.8 |
| +GA 88-15-19 | 789* | 41.1 | 35 | 38 | 1.17 | 82.6 | 32.3 | 4.2 |
| PD 3 | 784* | 40.4 | 37 | 35 | 1.15 | 83.2 | 28.7 | 4.6 |
| Stoneville 453 | 782* | 41.8 | 32 | 33 | 1.14 | 81.5 | 26.5 | 4.5 |
| +GA 88-88 | 773* | 40.0 | 38 | 31 | 1.19 | 82.6 | 31.7 | 4.6 |
| +GA 88-14-6 | 765* | 39.8 | 35 | 28 | 1.16 | 83.8 | 30.7 | 4.4 |
| Mean | 843 | 41.1 | 34 | 44 | 1.14 | 82.8 | 29.1 | 4.7 |
| C.V. (%) | 6.8 | | | | | | | |
| BLSD (K-50) | NS | | | | | | | |
| s.e. | 19.1 | | | | | | | |
| Error d.f. | 28 | | | | | | | |

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

†Sampson County in 1992.

TABLE 59. AVERAGE PERFORMANCE OF COTTON VARIETIES AT EDGECOMBE COUNTY - 1991 - 1993

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| S-35 | 960** | 41.8 | 34 | 54 | 1.14 | 82.6 | 28.6 | 4.7 |
| Deltapine 5690 | 922* | 42.6 | 38 | 44 | 1.13 | 82.7 | 31.4 | 4.8 |
| DES 119 | 905* | 42.0 | 36 | 49 | 1.16 | 82.2 | 30.2 | 4.7 |
| Stoneville 132 | 902* | 43.5 | 36 | 58 | 1.08 | 81.6 | 27.5 | 4.7 |
| CB 1135 | 898* | 41.9 | 35 | 45 | 1.13 | 81.0 | 29.3 | 4.6 |
| Georgia King | 893* | 43.1 | 37 | 44 | 1.15 | 82.1 | 31.2 | 4.7 |
| Deltapine 51 | 890* | 41.9 | 36 | 53 | 1.17 | 82.1 | 27.9 | 4.8 |
| Deltapine 20 | 885* | 41.7 | 34 | 54 | 1.12 | 83.4 | 27.2 | 4.7 |
| Stoneville 907 | 874* | 41.4 | 36 | 49 | 1.14 | 81.0 | 30.7 | 4.9 |
| Coker 320 | 868* | 42.2 | 36 | 58 | 1.17 | 84.0 | 29.0 | 4.8 |
| HS 23 | 862* | 41.3 | 35 | 51 | 1.13 | 81.6 | 29.1 | 4.6 |
| La 887 | 858* | 43.3 | 39 | 39 | 1.15 | 82.1 | 31.1 | 4.8 |
| CB 333 | 848* | 41.3 | 38 | 45 | 1.13 | 81.4 | 27.7 | 4.6 |
| HS 46 | 845* | 43.0 | 38 | 47 | 1.15 | 80.6 | 31.3 | 4.5 |
| CB 407 | 845* | 42.6 | 38 | 34 | 1.14 | 81.8 | 31.1 | 4.7 |
| Deltapine 90 | 834* | 42.3 | 37 | 38 | 1.12 | 82.1 | 31.0 | 4.9 |
| KC 311 | 829* | 42.1 | 38 | 38 | 1.12 | 81.3 | 31.0 | 4.7 |
| PD 3 | 824* | 41.9 | 39 | 33 | 1.16 | 82.0 | 31.4 | 4.6 |
| Deltapine 50 | 823* | 39.7 | 33 | 53 | 1.16 | 82.5 | 27.9 | 4.7 |
| Sure-Grow 1001 | 819* | 42.4 | 39 | 41 | 1.15 | 82.1 | 31.8 | 4.6 |
| Stoneville 453 | 818* | 43.0 | 36 | 38 | 1.12 | 81.3 | 27.1 | 4.8 |
| Deltapine 5415 | 805* | 43.2 | 36 | 33 | 1.16 | 82.0 | 32.0 | 4.8 |
| Mean | 864 | 42.2 | 36 | 45 | 1.14 | 82.0 | 29.8 | 4.7 |
| C.V. (%) | 9.0 | | | | | | | |
| BLSD (K-50) | NS | | | | | | | |
| S.E. | 22.5 | | | | | | | |
| Error d.f. | 42 | | | | | | | |

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

TABLE 60. AVERAGE PERFORMANCE OF COTTON VARIETIES AT BERTIE COUNTY - 1991 - 1993

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| CB 333 | 957** | 41.7 | 39 | 37 | 1.12 | 82.7 | 27.6 | 4.9 |
| S-35 | 943* | 40.3 | 39 | 58 | 1.13 | 82.0 | 28.9 | 4.7 |
| Georgia King | 919* | 43.5 | 42 | 57 | 1.13 | 82.0 | 29.9 | 4.9 |
| CB 1135 | 891* | 41.1 | 37 | 54 | 1.11 | 81.8 | 29.2 | 4.8 |
| Deltapine 51 | 891* | 40.5 | 38 | 50 | 1.16 | 83.0 | 27.6 | 5.0 |
| Deltapine 5415 | 891* | 42.2 | 38 | 42 | 1.15 | 82.8 | 31.4 | 5.1 |
| HS 46 | 881* | 41.3 | 38 | 44 | 1.16 | 82.2 | 31.7 | 4.7 |
| DES 119 | 880* | 42.3 | 37 | 53 | 1.14 | 83.6 | 29.0 | 5.1 |
| Deltapine 50 | 880* | 38.9 | 35 | 46 | 1.14 | 83.3 | 27.5 | 4.9 |
| La 887 | 873* | 43.0 | 39 | 36 | 1.14 | 82.5 | 30.6 | 5.0 |
| Sure-Grow 1001 | 871* | 40.9 | 39 | 44 | 1.13 | 82.1 | 31.6 | 5.0 |
| Deltapine 20 | 867 | 41.0 | 35 | 62 | 1.13 | 83.3 | 27.3 | 5.0 |
| CB 407 | 864 | 41.2 | 40 | 51 | 1.12 | 83.3 | 30.6 | 5.0 |
| HS 23 | 862 | 40.7 | 37 | 49 | 1.12 | 81.0 | 27.2 | 4.8 |
| Deltapine 5690 | 860 | 41.6 | 39 | 36 | 1.13 | 82.6 | 31.3 | 5.1 |
| Stoneville 907 | 846 | 40.4 | 40 | 43 | 1.13 | 82.5 | 28.5 | 5.2 |
| Coker 320 | 837 | 41.2 | 39 | 48 | 1.11 | 82.3 | 28.6 | 4.9 |
| KC 311 | 837 | 40.6 | 42 | 36 | 1.14 | 83.9 | 32.6 | 5.0 |
| Stoneville 453 | 836 | 42.3 | 35 | 45 | 1.13 | 81.4 | 28.2 | 4.8 |
| Stoneville 132 | 829 | 42.5 | 36 | 66 | 1.08 | 82.6 | 28.3 | 5.1 |
| PD 3 | 826 | 40.2 | 40 | 48 | 1.15 | 83.1 | 30.4 | 4.7 |
| Deltapine 90 | 752 | 41.3 | 39 | 46 | 1.11 | 82.5 | 31.4 | 5.1 |
| Mean | 868 | 41.3 | 38 | 48 | 1.13 | 82.6 | 29.5 | 4.9 |
| C.V. (%) | 5.8 | | | | | | | |
| BLSD (K-50) | 87 | | | | | | | |
| s.e. | 13.4 | | | | | | | |
| Error d.f. | 42 | | | | | | | |

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

TABLE 61. AVERAGE PERFORMANCE OF COTTON VARIETIES AT LENOIR COUNTY† - 1991 - 1993

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|----------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| La 887 | 776** | 41.9 | 33 | 52 | 1.14 | 82.7 | 29.7 | 4.8 |
| Deltapine 5690 | 759* | 41.2 | 35 | 53 | 1.12 | 82.3 | 29.7 | 5.2 |
| Stoneville 907 | 757* | 40.4 | 34 | 51 | 1.14 | 82.7 | 28.4 | 5.1 |
| DES 119 | 751* | 41.5 | 32 | 39 | 1.14 | 83.7 | 29.3 | 5.1 |
| CB 1135 | 744* | 39.1 | 33 | 46 | 1.15 | 83.0 | 28.5 | 4.6 |
| S-35 | 740* | 40.5 | 33 | 44 | 1.12 | 81.5 | 26.7 | 4.8 |
| Deltapine 20 | 733* | 40.9 | 30 | 54 | 1.11 | 84.0 | 26.6 | 4.9 |
| Deltapine 90 | 723* | 41.2 | 34 | 47 | 1.12 | 81.6 | 30.1 | 4.9 |
| Georgia King | 715* | 42.2 | 35 | 42 | 1.16 | 83.4 | 29.4 | 4.9 |
| KC 311 | 714* | 40.9 | 35 | 45 | 1.14 | 83.7 | 31.5 | 4.9 |
| HS 23 | 712* | 40.3 | 32 | 55 | 1.13 | 82.5 | 26.5 | 4.6 |
| Deltapine 51 | 710* | 40.4 | 32 | 50 | 1.15 | 82.9 | 26.7 | 5.1 |
| CB 333 | 706* | 40.9 | 34 | 50 | 1.14 | 83.5 | 26.7 | 4.8 |
| Deltapine 50 | 694* | 38.3 | 31 | 57 | 1.12 | 82.1 | 26.6 | 5.0 |
| PD 3 | 690* | 39.7 | 35 | 35 | 1.16 | 83.2 | 28.7 | 4.7 |
| Stoneville 453 | 687* | 41.5 | 31 | 33 | 1.14 | 81.5 | 26.6 | 4.8 |
| CB 407 | 685* | 40.8 | 35 | 45 | 1.15 | 82.6 | 30.0 | 4.8 |
| Coker 320 | 682* | 40.5 | 34 | 47 | 1.13 | 82.2 | 26.5 | 5.1 |
| HS 46 | 675* | 41.3 | 36 | 31 | 1.17 | 82.4 | 31.5 | 4.3 |
| Sure-Grow 1001 | 663* | 41.0 | 33 | 41 | 1.15 | 83.7 | 31.6 | 4.6 |
| Deltapine 5415 | 649* | 40.6 | 33 | 34 | 1.16 | 82.5 | 30.8 | 4.9 |
| Stoneville 132 | 627* | 42.2 | 31 | 55 | 1.08 | 82.6 | 27.1 | 4.9 |
| Mean | 709 | 40.8 | 33 | 46 | 1.14 | 82.7 | 28.6 | 4.8 |
| C.V. (%) | 7.6 | | | | | | | |
| BLSD (K-50) | NS | | | | | | | |
| s.e. | 14.9 | | | | | | | |
| Error d.f. | 42 | | | | | | | |

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

†Sampson County in 1992, Wayne County in 1991.

TABLE 62. AVERAGE PERFORMANCE OF COTTON VARIETIES AT JOHNSTON COUNTY - 1991 AND 1993.

| VARIETY/HYBRID OR BRAND VARIETY/HYBRID | LINT YIELD LB/ACRE | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|--|--------------------------|-------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| Georgia King | 1805** | 41.8 | 40 | 17 | 1.20 | 84.5 | 33.3 | 4.6 |
| Coker 320 | 1498 | 40.1 | 40 | 55 | 1.21 | 83.7 | 29.8 | 4.6 |
| S-35 | 1482 | 39.7 | 36 | 49 | 1.17 | 80.8 | 30.6 | 4.3 |
| CB 333 | 1435 | 40.3 | 38 | 58 | 1.16 | 82.4 | 28.2 | 4.4 |
| Deltapine 51 | 1433 | 38.4 | 36 | 63 | 1.19 | 83.0 | 29.1 | 4.4 |
| Deltapine 5690 | 1418 | 40.1 | 43 | 57 | 1.15 | 81.6 | 31.3 | 4.5 |
| CB 1135 | 1404 | 39.8 | 37 | 34 | 1.16 | 80.5 | 29.9 | 4.4 |
| Stoneville 453 | 1386 | 41.9 | 35 | 26 | 1.15 | 81.3 | 28.8 | 4.3 |
| Deltapine 5415 | 1383 | 40.1 | 36 | 40 | 1.20 | 82.8 | 32.1 | 4.8 |
| La 887 | 1378 | 40.8 | 39 | 50 | 1.18 | 82.1 | 32.0 | 4.5 |
| HS 23 | 1363 | 38.4 | 33 | 55 | 1.16 | 82.5 | 30.0 | 4.2 |
| PD 3 | 1357 | 38.8 | 40 | 40 | 1.19 | 85.5 | 31.6 | 4.3 |
| DES 119 | 1333 | 40.3 | 35 | 92 | 1.18 | 83.4 | 30.7 | 4.7 |
| Deltapine 20 | 1304 | 39.8 | 36 | 54 | 1.16 | 82.6 | 28.4 | 4.2 |
| CB 407 | 1301 | 40.2 | 45 | 38 | 1.16 | 82.0 | 32.0 | 4.6 |
| Stoneville 907 | 1281 | 38.7 | 36 | 44 | 1.18 | 82.0 | 30.9 | 4.6 |
| HS 46 | 1279 | 40.8 | 42 | 33 | 1.20 | 82.8 | 32.3 | 4.4 |
| Sure-Grow 1001 | 1277 | 40.5 | 37 | 39 | 1.18 | 83.6 | 32.6 | 4.7 |
| KC 311 | 1269 | 38.9 | 38 | 61 | 1.18 | 82.8 | 33.7 | 4.5 |
| Deltapine 50 | 1223 | 36.1 | 36 | 71 | 1.21 | 83.5 | 29.4 | 4.3 |
| Deltapine 90 | 1195 | 39.1 | 39 | 63 | 1.16 | 82.1 | 32.0 | 4.5 |
| Stoneville 132 | 1145 | 40.0 | 35 | 78 | 1.10 | 82.6 | 28.6 | 4.5 |
| Mean | 1361 | 39.8 | 38 | 51 | 1.18 | 82.6 | 30.8 | 4.5 |
| C.V. (%) | 6.3 | | | | | | | |
| BLSD (K-50) | 156 | | | | | | | |
| s.e. | 30.3 | | | | | | | |
| Error d.f. | 21 | | | | | | | |

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

TABLE 63. AVERAGE PERFORMANCE OF COTTON VARIETIES IN COLUMBIA LANCE NEMATODE FIELD IN SCOTLAND COUNTY -- 1993.

| VARIETY/HYBRID OR BRAND | TREATED | NON- TREATED | LINT % | PLANT HEIGHT INCHES | PERCENT BOLLS OPENED | UHM S.L. (IN.) | UNIFORMITY INDEX | T1 (G/TEX) | MIKE |
|----------------------------|------------|-----------------|-------------|---------------------------|----------------------------|----------------------|---------------------|---------------|------------|
| Sure-Grow 501 | 770** | 744** | 42.5 | 32 | 59 | 1.14 | 84.0 | 31.0 | 4.7 |
| DES 119 | 699* | 643* | 40.8 | 27 | 68 | 1.18 | 83.6 | 30.1 | 4.7 |
| Deltapine 5415 | 688* | 657* | 41.5 | 30 | 55 | 1.17 | 82.6 | 30.8 | 4.8 |
| S-35 | 679* | 714* | 39.8 | 27 | 72 | 1.15 | 82.6 | 28.8 | 4.3 |
| CB 1233 | 672* | 705* | 40.7 | 33 | 64 | 1.15 | 82.2 | 31.9 | 4.5 |
| Deltapine 5690 | 670* | 675* | 40.6 | 35 | 67 | 1.13 | 81.5 | 30.4 | 4.7 |
| Georgia King | 664* | 581 | 41.9 | 35 | 55 | 1.18 | 83.7 | 30.8 | 4.7 |
| CB 1135 | 653* | 616* | 39.5 | 31 | 65 | 1.16 | 82.2 | 29.7 | 4.5 |
| Exp St HS831B | 633 | 631 | 39.9 | 36 | 68 | 1.16 | 82.6 | 29.8 | 4.4 |
| Stoneville 907 | 632 | 592 | 39.1 | 32 | 78 | 1.15 | 81.6 | 29.4 | 5.0 |
| Deltapine 90 | 626 | 635* | 40.2 | 33 | 72 | 1.14 | 82.6 | 31.3 | 4.7 |
| Exp St 3818 | 611 | 578 | 40.4 | 35 | 65 | 1.16 | 82.3 | 31.2 | 4.7 |
| Deltapine 50 | 608 | 582 | 36.8 | 27 | 75 | 1.16 | 82.1 | 28.1 | 4.6 |
| HyPerformer HS 46 | 607 | 618* | 41.0 | 32 | 64 | 1.17 | 82.8 | 31.5 | 4.5 |
| Stoneville 453 | 599 | 578 | 41.7 | 25 | 63 | 1.14 | 82.0 | 29.2 | 4.5 |
| CB 333 | 589 | 586 | 38.8 | 34 | 62 | 1.15 | 82.5 | 29.0 | 4.6 |
| Deltapine 20 | 583 | 570 | 39.2 | 27 | 80 | 1.14 | 81.3 | 28.7 | 4.5 |
| St. La. 887 | 578 | 567 | 41.4 | 33 | 56 | 1.13 | 82.2 | 30.3 | 4.7 |
| Sure-Grow 1001 | 575 | 570 | 40.1 | 32 | 69 | 1.15 | 82.9 | 31.0 | 4.7 |
| KC 311 | 571 | 616* | 39.3 | 31 | 66 | 1.17 | 82.7 | 31.5 | 4.6 |
| Carolina ES300 | 546 | 574 | 41.0 | 34 | 50 | 1.17 | 82.8 | 29.1 | 4.6 |
| Dp. 6100 Acala | 483 | 490 | 38.6 | 31 | 61 | 1.20 | 84.4 | 33.6 | 4.9 |
| Mean | 624 | 615 | 40.2 | 31 | 65 | 1.16 | 82.6 | 30.3 | 4.6 |
| C.V. (%) | 16.7 | 18.0 | | | | | | | |
| BLSD (K-50) | 129 | 152 | | | | | | | |
| s.e. | 43 | 45 | | | | | | | |
| Error d.f. | 105 | 105 | | | | | | | |