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**Part I Soybeans  
Part II Cotton**

**1994**

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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.<sup>1</sup>

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 1994,<sup>2</sup> as well as summary tables for the past two and three years.

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<sup>1</sup>The Official Variety Testing Program recognizes the cooperative spirit and civic-minded service rendered by the farmers who have furnished, prepared, and cultivated the land for these trials. Research technicians, Dwight Parrish, Ken Barnes, Johnny Denton, Tracy Wadsworth, and Mark Langdon assisted in conducting these tests. Carey Parsons prepared the text for this bulletin.

<sup>2</sup>Statistical analyses were made in the Statistical Laboratory and Computing Center 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 coefficient of determination ( $R^2$ )

is a better measure of the level of precision because it indicates the amount of variation accounted for in the trial. The higher the  $R^2$  value the more precise the trial. Thus, relative precision among various trials can be compared. The standard error of the mean (s.e.) is also listed as a general indicator of precision since it reveals how well the true mean was estimated. The formula for the s.e. is the square root of the error variance divided by the square root of the number of 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.

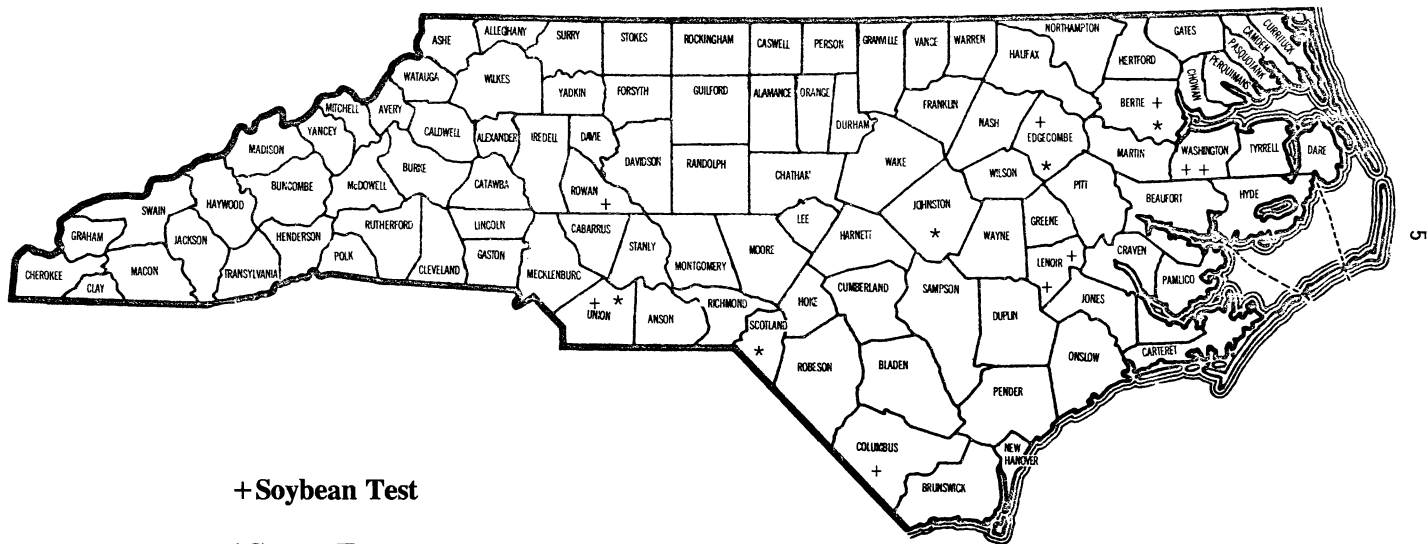
The hybrids or varieties which do not yield significantly less than the highest yielder are denoted by an asterisk(\*) next to their yields; the highest yielder is denoted by a double asterisk (\*\*) next to its yield. The relative performance of a hybrid or variety across locations within an area can 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

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.

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

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

Union County, Everett Medlin, 3221 Lawyers Road East,  
Monroe, N.C. Agricultural Extension Agent, Tom Pegram  
cooperating.

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.

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

Union County, Olin Marsh, 6405 Brice Griffin Road, Marshville, N.C.  
Agricultural Extension Agent, Tom Pegram, 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 1994 North Carolina Soybean Performance Trials along with designation used to identify the varieties in the trials.

Agency and Contact Person	Address	Designation
<b><u>AgraTech Seeds</u></b> Scott Williams	5559 N. 500W. McCordsville, IN 46055	ATX 4625
<b><u>Asgrow Seed Company</u></b> Pat McCord	9635-190-31 7000 Portage Road Kalamazoo, MI 49001	Asgrow A4539 A5403 A5545 A5979 A6297 A6711 A6785

Table 1. (Continued)

Agency and Contact Person	Address	Designation
<u>Ciba Seeds</u> Gordon Johnson	P.O. Box 18300 Greensboro, NC 27419	Ciba 3474 3602 3615 5602Y 5703Y 5903Y 6402Y
<u>DeKalb Genetics Corp.</u> Diane Freeman	3100 Sycamore Road DeKalb, IL 71232	DeKalb CX411 CX478
<u>Delhi Seed Company</u> Dick Landrum	Box 176, Hwy. 17 North Delhi, LA 71232	Buckshot 44 55 66 723
<u>Delta &amp; Pine Land Co.</u> John Thomas	P. O. Box 157 Scott, MS 38772	Deltapine 105 415 417 726 DP 3456 3478 3570 3588 3589 3606 3682 3733 DPX 3561 3570 3588
<u>Hyperformer Seed Co.</u> Al Hoggard	One Hycrop Row Memphis, TN 38120	Hyperformer HSC 591 623 721 741 B2J HY 498 574 677 683

Table 1. (Continued)

Agency and Contact Person	Address	Designation
<u>Jacob Hartz Seed Co.</u> Richard Dougherty	P. O. Box 946 Stuttgart, AR 72160	Hartz H4464 H4994 H5258 H5350 H5545 H5566 H6115 H6255 H6686 H7141 H7190 H7550
<u>Northrup King Co.</u> Carroll Oakes	P. O. Box 249 Grifton, NC 28530	NK Coker 6738 Coker 6847 RA 452 S 46-44 S 48-84 S 57-11 S 59-60 S 62-66 S 66-90 S 75-55 S 83-30 X 9459
<u>Pioneer Hi-Bred Int., Inc.</u> Dennis McCoy	800 Tiffany Blvd. Suite 200 Rocky Mount, NC 27804	Pioneer 9442 9444 9472 9501 9521 9583 9584 9641 9692 9711 9761 9831

Table 1. (Continued)

Agency and Contact Person	Address	Designation
<u>Southern Elite Genetics Assoc.</u> J. Earl Elsner	2420 S. Milledge Athens, GA 30605	Haskell Doles
<u>Southern States Cooperative, Inc.</u> Howard J. Tabor	P. O. Box 26234 Richmond, VA 23260	FFR 439 442 471 493 514 531 553 561 562 563 583 595 663 695 731 SS 487
<u>United Agri Products</u> Herbert Smith	P. O. Box 1198 Fort Valley, GA 31030	Dyna-Gro DG 3495 3542 3576 3682
<u>Vigoro Industries</u> G. C. (Conrad) Lavender	P. O. Box 156 Jefferson, GA 30549	Vigoro V663 V713

Table 2. Soybean public varieties.

State Responsible for Development	Variety
Alabama	Stonewall
Georgia	Cook
Kentucky	Calhoun
Maryland	Manokin
Mississippi	Centennial
North Carolina	Brim, Holladay, Young Clifford

Table 2. (Continued.) Soybean public varieties.

State Responsible for Development	Variety
South Carolina Tennessee	Hagood, Maxcy, Dillon TN 4-94, TN 4-86, TN 5-92, TN 6-90, TN 5-95
Virginia	Chesapeake, Hutcheson

**Test Locations:** Five 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 Union county test was discarded due to poor stands. The late-planted test at Lenoir county was also discarded due to poor stands.

**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. The pod maturity data were taken at Johnston county where the soybeans were planted on June 27; those entries with no pod maturity data were inadvertently left out when planted at Johnston county.

**Seasonal Conditions:** Soybean planting was slightly later than normal for all full-season tests (Table 3). Rainfall was below normal at some locations in May and June and contributed to poor stands at Union county. Contrary to the 1993 season which experienced above-normal temperatures, temperatures in 1994 were typical throughout the season. Rainfall data from several test sites are shown:

<u>Location</u>	<u>Rainfall - (Inches)†</u>				
	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>
Bertie	3.11	3.53	7.53	3.51	3.53
Columbus	4.59	5.56	6.20	6.93	4.82
Edgecombe	3.20	4.51	3.80	4.30	3.64
Lenoir	1.46	2.33	3.95	4.90	4.18
Rowan	2.67	6.87	4.17	4.28	4.86
Washington	3.76	6.44	3.39	5.85	5.07

†Bertie county received 1.65" of irrigation in August and September.

### **Results:**

#### **Early-Planted Soybeans**

Group IV soybeans were tested at Washington county and these 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 Group IV test at Union county was discarded due to poor stands. Pod maturity data are included on all tables covering multilocation data. Cyst nematodes were discovered in the field at Lenoir county after planting. Although there were no visible symptoms of nematode injury throughout the season, the top-yielding varieties in all three maturity groups (V, VII, and VII-VIII) were all resistant to race 3 of the cyst nematode. Therefore these data from Lenoir county are

reported in separate tables and are not included in the three-year, two-year and, one-year tables.

Data for the early-maturing soybeans (Group V) are found in Tables 11-18. Multiyear data by location are included in Tables 14-18.

The medium-maturity (Group VI) and late-maturity (Groups VII & VIII) data are shown in Tables 19-32. The late-maturity trials at Edgecombe and Washington counties were discarded due to poor precision.

### Late-Planted Soybeans

Tables 33-41 show data from the two late-planted locations. Groups VI and VII were discarded at Rowan county due to poor precision (uneven stands were evident). Pod maturity data were collected for both early-planted and late-planted entries at one location (Johnston county) at one planting date (June 27). Agronomic information not found in tables listed previously for varieties available to growers, some may not be in the OVT, is shown in Table 42. This information is supplied by Dr. James Dunphy, North Carolina State University.



Table 3. Cultural practices for soybean performance trials - 1994.

Location by County	Row Width (inches)	Fertilizer Lbs/A	Soil Type	Date of Planting	Date of Harvest
<b><u>EARLY PLANTED TESTS</u></b>					
Bertie	36	100 0-0-60 100 0-46-0	Rains, Goldsboro, and Lynchburg sandy loam	May 26	October 27 & November 4
Columbus	36	350 5-10-30	Norfolk and Lynchburg fine sandy loam	May 25	October 28
Edgecombe	36	500 5-10-10	Lynchburg and Goldsboro fine sandy loam	May 23	November 2 & 8
Lenoir	38	325 3-9-27	Norfolk loamy sand	May 19	October 25 & November 7
Washington	38		Portsmouth fine sandy loam and Cape Fear loam	May 17	November 3
Washington Group IV	drilled		Portsmouth fine sandy loam and Cape Fear loam	May 17	October 26
<b><u>LATE PLANTED TESTS</u></b>					
Rowan	drilled	225 10-20-20	Hiwassee clay loam and Hiwassee clay	June 20	November 9
Washington	38		Portsmouth fine sandy loam and Cape Fear Loam	July 6	November 4 & 15

Table 4. Soil test results, soybeans - 1994.

Location by County	HM %	W-V	CEC	BS	Ac	pH	P-I	K-I	Ca %	Mg %	Mn-I	Zn-I	Cu-I
<b><u>Early Planted</u></b>													
Columbus	0.5	1.12	3.3	92	0.3	6.0	46	52	62.9	21.5	29	35	42
Edgecombe	0.8	1.11	3.5	77	0.8	6.1	58	44	56.8	14.2	75	44	26
Lenoir	0.8	1.18	3.6	86	0.5	6.0	166	72	55.2	20.3	41	42	39
Washington	3.2	1.15	9.2	82	1.8	6.0	86	89	55.0	21.5	17	33	50
<b><u>Late Planted</u></b>													
Rowan	0.1	1.09	6.2	94	0.4	6.0	35	26	58.3	33.1	625	77	156
Washington	6.8	0.94	9.8	72	2.8	5.0	72	108	49.8	16.3	29	93	40

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 1992, 1993, AND 1994				
Deltapine DP 3456	43	1.6	29	10-8
Pioneer 9442	35	1.4	30	10-3
TN 4-86	34	1.8	36	10-5
TWO-YEAR AVERAGE - 1993, 1994				
Deltapine DP 3456	48	2.1	31	10-12
Pioneer 9442	47	1.7	30	10-5
TN 4-86	36	2.1	41	10-6
FFR 439	36	1.8	28	10-4

TABLE 6. PERFORMANCE OF EARLY GROUP IV SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	WASHINGTON YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
Deltapine DP 3456	61**	2.8	30	10-11
Pioneer 9442	59*	2.0	28	10-4
FFR 442	53	2.2	35	10-11
Asgrow A4539	51	1.5	31	10-7
Calhoun	46	1.0	17	10-11
DeKalb CX411	46	1.2	26	10-4
FFR 439	45	2.5	30	10-4
TN 4-86	44	3.2	42	10-7
Pioneer 9444	44	2.5	27	10-4
<b>MEAN</b>	<b>50</b>			
R <sup>2</sup> (%)	76			
C.V. (%)	10.5			
BLSD (K-50)	5			
S.E.	2.1			
ERROR D.F.	42			

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

†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS PLANTED JUNE 27, 1994.

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

BRAND-VARIETY OR VARIETY	1994 BU/A	1993, 1994 BU/A	1992, 1993, 1994 BU/A
Deltapine DP 3456	61	48	43
Pioneer 9442	59	47	39
TN 4-86	44	36	35
FFR 439	45	36	

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 1992, 1993, AND 1994				
NK RA 452	50	1.3	34	10-15
Pioneer 9501	47	1.6	34	10-14
SS 487	45	1.2	28	10-5
NK S48-84	41	2.0	32	10-9
TN 4-86	37	1.8	37	10-5
TWO-YEAR AVERAGE - 1993, 1994				
NK RA 452	59	1.3	35	10-20
SS 487	54	1.4	29	10-7
Deltapine DP 3478	54	2.0	34	10-15
Dyna-Gro DG-3495	51	1.8	39	10-22
FFR 493	51	1.3	33	10-18
NK S48-84	50	1.9	33	10-12
Pioneer 9501	49	1.7	36	10-14
Hyperformer HY 498	48	1.9	36	10-21
Chesapeake	47	1.5	30	10-7
TN 4-86	40	2.0	40	10-6

TABLE 9. PERFORMANCE OF LATE GROUP IV SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	WASHINGTON YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
FFR 493	71**	2.0	31	10-17
TN 4-94	68*	1.4	39	10-17
Hartz H4994	67*	2.2	21	10-20
SS 487	67*	2.0	29	10-7
NK RA 452	65	2.0	35	10-20
Dyna-Gro DG-3495	62	3.4	40	10-24
NK S46-44	61	2.0	35	10-7
Chesapeake	60	2.4	33	10-7
DeKalb CX478	59	3.0	33	10-7
Ciba 3474	59	3.6	29	10-13
Hartz H4464	58	2.8	36	10-7
Deltapine DP 3478	57	3.6	32	10-13
Buckshot 44	57	3.4	36	10-24
Pioneer 9472	56	2.2	35	10-4
FFR 471	56	2.0	30	10-7
Manokin	55	3.0	43	10-17
NK S48-84	55	3.8	33	10-13
Pioneer 9501	54	3.0	35	10-13
Hyperformer HY 498	52	3.8	42	10-24
Stafford	48	1.0	20	10-20
TN 4-86	45	3.6	36	10-7
<b>MEAN</b>	<b>59</b>			
R <sup>2</sup> (%)	69			
C.V. (%)	10.3			
BLSD (K-50)	6			
S.E.	2.7			
ERROR D.F.	76			

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

†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS PLANTED JUNE 27, 1994.

TABLE 10. ONE, TWO, AND THREE-YEAR AVERAGES OF LATE GROUP IV SOYBEANS AT WASHINGTON COUNTY.

BRAND-VARIETY OR VARIETY	1994 BU/A	1993, 1994 BU/A	1992, 1993, 1994 BU/A
NK RA 452	65	58	54
SS 487	67	57	51
FFR 493	71	56	
Pioneer 9501	54	53	52
Dyna-Gro DG-3495	62	52	
Deltapine DP 3478	57	52	
Hyperformer HY 498	52	47	
NK S48-84	55	46	44
Chesapeake	60	46	
TN 4-86	45	38	37

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

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
THREE-YEAR AVERAGE 1992, 1993, AND 1994				
Holladay	52	1.3	30	10-19
+N86-7682	51	1.4	35	10-21
Pioneer 9583	50	1.1	30	10-22
Clifford	50	1.7	32	10-17
Asgrow A5979	50	1.7	35	10-23
Asgrow A5403	49	1.2	35	10-19
Hartz H5566	48	1.7	36	10-21
FFR 561	48	1.2	33	10-21
Hutcheson	48	1.5	32	10-19
Hyperformer HSC 591	48	1.8	39	10-26
Hartz H5258	47	1.4	35	10-20
Deltapine 105	47	2.0	38	10-22
FFR 562	46	1.9	41	10-21
Hartz H5350	46	1.4	34	10-20
Pioneer 9584	46	1.4	37	10-19
Deltapine 415	46	1.4	34	10-22
Dyna-Gro DG-3576	44	2.5	32	10-20
FFR 595	43	1.6	38	10-25
Deltapine DP 3589	41	1.8	43	10-25
TWO-YEAR AVERAGE - 1993, 1994				
Pioneer 9583	50	1.0	30	10-26
Holladay	49	1.0	30	10-20
Asgrow A5979	48	1.5	36	10-26
Clifford	48	1.4	32	10-20
+N86-7682	48	1.1	35	10-22
Hutcheson	48	1.1	32	10-23
FFR 561	47	1.0	33	10-23
FFR 583	47	1.4	36	10-23
Hartz H5566	47	1.4	36	10-23
Deltapine 105	47	1.9	38	10-26
+Ciba 5703Y	46	1.8	35	10-22
Asgrow A5403	46	1.1	35	10-20
Hartz H5258	46	1.3	35	10-22
Hyperformer HSC 591	45	1.8	40	10-29
Hartz H5350	45	1.2	34	10-22
Deltapine 415	44	1.2	34	10-25
+Ciba 5903Y	44	1.3	39	10-26
NK S57-11	43	1.2	36	10-22
FFR 562	43	1.9	41	10-23
Pioneer 9584	43	1.3	37	10-22
FFR 563	43	1.1	34	10-24
FFR 553	42	1.0	33	10-20
Dyna-Gro DG-3576	42	2.1	32	10-22
FFR 595	42	1.6	40	10-28
Deltapine DP 3589	38	1.8	44	10-29
TN 5-92	36	1.6	37	10-19

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE  
IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

†WASHINGTON COUNTY 1992, JOHNSTON COUNTY 1993 AND 1994.

TABLE 12. DATA COMBINED OVER LOCATIONS FOR EARLY-PLANTED GROUP V SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
Holladay	57	1.0	34	10-20
Clifford	56	1.2	35	10-20
Pioneer 9583	56	1.0	35	10-31
+N86-7682	56	1.0	40	10-24
Hutcheson	56	1.2	34	10-24
+X9459	54	1.0	39	10-31
Hartz H5566	53	1.2	38	10-24
Deltapine 105	53	1.8	41	10-31
+Ciba 5703Y	53	1.7	38	10-24
FFR 583	53	1.2	38	10-24
Asgrow A5979	53	1.2	38	10-31
Hyperformer HY 574	53	1.4	42	10-24
FFR 561	52	1.0	36	10-24
Hartz H5545	52	1.3	37	10-20
Hartz H5258	51	1.2	39	10-24
Asgrow A5403	51	1.2	37	10-20
FFR 514	51	1.0	42	10-17
Hyperformer HSC 591	51	1.8	43	10-31
Deltapine 415	50	1.3	37	10-31
FFR 563	50	1.2	39	10-24
Dyna-Gro DG-3576	50	1.7	34	10-24
TN 5-95	50	1.1	41	10-20
+Deltapine DPX 3570	50	1.4	39	10-31
Pioneer 9584	49	1.2	40	10-24
FFR 531	48	1.0	33	10-24
FFR 553	47	1.0	34	10-20
FFR 562	47	1.8	43	10-24
Hartz H5350	47	1.3	38	10-24
Asgrow A5545	47	1.0	36	10-20
+Ciba 5602Y	47	1.2	39	10-24
NK S57-11	46	1.2	37	10-24
+Ciba 5903Y	46	1.4	42	10-24
FFR 595	46	1.7	43	10-31
Pioneer 9521	46	1.0	34	10-13
+Deltapine DPX 3588	45	1.7	45	10-31
Dyna-Gro DG-3542	44	1.9	43	10-24
+Deltapine DPX 3561	43	1.8	39	10-24
+V88-1234	43	1.5	40	10-24
Deltapine DP 3589	40	1.9	47	10-31
TN 5-92	37	1.5	40	10-20

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.  
†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS PLANTED JUNE 27, 1994.

TABLE 13. INDIVIDUAL LOCATION YIELD DATA FOR EARLY-PLANTED GROUP V SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	WASHINGTON BU/A	COLUMBUS BU/A	BERTIE BU/A	EDGECOMBE BU/A	AVERAGE YIELD BU/A
Holladay	42	67*	55**	62*	57**
Clifford	57**	61	47*	60*	56*
Pioneer 9583	52*	61	46*	65**	56*
+N86-7682	43	76**	53*	51	56*
Hutcheson	52*	60	51*	59*	56*
+X9459	50*	53	53*	58*	54*
Hartz H5566	54*	59	47*	51	53*
Deltapine 105	46	58	49*	59*	53*
+Ciba 5703Y	51*	62	49*	50	53*
FFR 583	49*	65	48*	49	53*
Asgrow A5979	54*	58	46*	53	53*
Hyperformer HY 574	52*	64	48*	46	53*
FFR 561	46	63	47*	54*	52*
Hartz H5545	51*	63	44*	49	52*
Hartz H5258	44	59	49*	54*	51*
Asgrow A5403	44	48	54*	59*	51*
FFR 514	43	56	51*	54*	51*
Hyperformer HSC 591	49*	57	52*	44	51*
Deltapine 415	49*	56	52*	44	50
FFR 563	43	53	50*	54*	50
Dyna-Gro DG-3576	48	55	46*	51	50
TN 5-95	44	50	49*	56*	50
+Deltapine DPX 3570	48	53	48*	49	50
Pioneer 9584	36	58	54*	46	49
FFR 531	38	56	52*	45	48
FFR 553	46	50	45*	49	47
FFR 562	51*	61	41	36	47
Hartz H5350	36	57	49*	47	47
Asgrow A5545	44	44	49*	51	47
+Ciba 5602Y	40	50	45*	53	47
NK S57-11	42	48	49*	46	46
+Ciba 5903Y	41	48	47*	49	46
FFR 595	45	51	42	45	46
Pioneer 9521	45	43	44*	50	46
+Deltapine DPX 3588	45	51	43	40	45
Dyna-Gro DG-3542	46	49	43	39	44
+Deltapine DPX 3561	41	48	46*	36	43
+V88-1234	30	44	47*	50	43
Deltapine DP 3589	47	41	38	33	40
TN 5-92	24	39	47*	37	37
<b>MEAN</b>	<b>45</b>	<b>55</b>	<b>48</b>	<b>50</b>	<b>49</b>
R <sup>2</sup> (%)	72	70	71	81	60
C.V. (%)	13.2	12.1	11.1	15.1	11.0
BLSD (K-50)	9	10	12	12	7
S.E.	3.4	3.8	3.1	4.4	1.6
ERROR D.F.	73	77	75	72	117

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

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.



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

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1993, 1994 YIELD BU/A	1992, 1993, 1994 YIELD BU/A
Asgrow A5979	54	50	47
+Ciba 5703Y	51	48	
Pioneer 9583	52	47	43
Hyperformer HSC 591	49	46	44
Hartz H5566	54	45	43
FFR 562	51	44	41
Deltapine 105	46	44	41
FFR 561	46	44	40
FFR 583	49	43	
Deltapine 415	49	42	39
Deltapine DP 3589	47	42	40
Asgrow A5403	44	42	41
Clifford	57	41	38
Holladay	42	40	41
Hutcheson	52	40	38
FFR 595	45	40	40
+N86-7682	43	40	39
FFR 553	46	40	
Hartz H5258	44	39	37
Hartz H5350	36	39	39
+Ciba 5903Y	41	39	
Dyna-Gro DG-3576	48	38	35
Pioneer 9584	36	37	37
NK S57-11	42	36	
FFR 563	43	36	
TN 5-92	24	29	

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 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	1994 YIELD BU/A	1993, 1994 YIELD BU/A	1991, 1993, 1994 YIELD BU/A
+N86-7682	76	66	
FFR 583	65	62	
Holladay	67	62	52
Hutcheson	60	62	55
Clifford	61	61	53
Pioneer 9583	61	60	54
FFR 561	63	58	50
Hartz H5350	57	58	
FFR 562	61	57	51
Hartz H5258	59	56	48
Hartz H5566	59	55	49
+Ciba 5703Y	62	55	
Asgrow A5979	58	55	47
Deltapine 415	56	54	46
Hyperformer HSC 591	57	54	47
Deltapine 105	58	54	47
NK S57-11	48	52	
Asgrow A5403	48	51	43
+Ciba 5903Y	48	51	
FFR 553	50	50	
Pioneer 9584	58	50	
FFR 595	51	50	43
FFR 563	53	49	
Dyna-Gro DG-3576	55	49	
Deltapine DP 3589	41	44	
TN 5-92	39	43	

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

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

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1993, 1994 YIELD BU/A	1992, 1993, 1994 YIELD BU/A
NK S57-11	49	40	
Holladay	55	39	49
Asgrow A5403	54	39	47
+Ciba 5903Y	47	39	
Asgrow A5979	46	38	44
Pioneer 9584	54	38	45
Hartz H5258	49	38	45
Deltapine 415	52	37	43
Hartz H5566	47	37	43
Clifford	47	37	44
Hyperformer HSC 591	52	37	42
+N86-7682	53	37	45
FFR 561	47	37	45
FFR 563	50	37	
Dyna-Gro DG-3576	46	37	42
Hutcheson	51	36	43
Deltapine 105	49	36	41
Hartz H5350	49	36	43
TN 5-92	47	35	
Pioneer 9583	46	35	45
FFR 583	48	35	
+Ciba 5703Y	49	35	
FFR 595	42	34	39
FFR 553	45	34	
FFR 562	41	32	40
Deltapine DP 3589	38	31	38

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 17. ONE, TWO, AND THREE-YEAR AVERAGES FOR EARLY-PLANTED GROUP V SOYBEANS AT LENOIR COUNTY†.

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1992, 1994 YIELD BU/A	1991, 1992, 1994 YIELD BU/A
+Ciba 5703Y	48**		
‡FFR 514	47*		
‡+Deltapine DPX 3561	46*		
‡Asgrow A5979	46*	49	51
‡Dyna-Gro DG-3542	43*	38	40
‡Hartz H5566	41	45	47
‡Asgrow A5545	41		
+Ciba 5602Y	41		
‡Asgrow A5403	39	44	44
‡Hyperformer HSC 591	39	45	45
Hyperformer HY 574	38		
‡TN 5-92	38		
Deltapine 105	38	44	46
Hutcheson	37	41	44
‡+Ciba 5903Y	37		
‡FFR 531	37		
‡Pioneer 9584	37	40	
‡+Deltapine DPX 3570	37		
‡TN 5-95	37		
‡Hartz H5350	36	41	
Clifford	36	47	48
‡FFR 595	35	38	40
+N86-7682	34	44	
‡+Deltapine DPX 3588	34		
Dyna-Gro DG-3576	33	38	
‡Deltapine DP 3589	33	39	
‡+X9459	33		
Holladay	33	42	44
‡NK S57-11	32		
‡FFR 563	31		
‡Hartz H5545	31		
FFR 561	30	41	45
Pioneer 9583	30	38	42
‡Pioneer 9521	30		
‡Deltapine 415	30	36	36
FFR 553	28		
FFR 562	28	40	42
Hartz H5258	27	36	43
‡+V88-1234	27		
FFR 583	24		
MEAN	35		
R <sup>2</sup> (%)	73		
C.V. (%)	13.9		
BLSD (K-50)	7		
S.E.	2.8		
ERROR D.F.	72		

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

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

‡RESISTANT TO RACE 3 CYST NEMATODE.

†CYST NEMATODES WERE PRESENT IN 1994 BUT NOT IN 1991 AND 1992.

TABLE 18. ONE, TWO, AND THREE-YEAR AVERAGES FOR EARLY-PLANTED GROUP V SOYBEANS AT EDGECOMBE COUNTY.

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1992, 1994 YIELD BU/A	1991, 1992, 1994 YIELD BU/A
Holladay	62	65	55
Clifford	60	63	54
Asgrow A5403	59	63	54
Pioneer 9583	65	62	53
+N86-7682	51	60	
Hartz H5258	54	59	51
Deltapine 105	59	59	51
Asgrow A5979	53	58	51
Hartz H5566	51	57	50
Hutcheson	59	57	49
Pioneer 9584	46	57	
FFR 561	54	54	48
Dyna-Gro DG-3576	51	54	
Deltapine 415	44	53	47
Hyperformer HSC 591	44	53	46
Dyna-Gro DG-3542	39	51	43
Hartz H5350	47	48	
FFR 595	45	47	41
FFR 562	36	46	42
Deltapine DP 3589	33	41	

+EXPERIMENTAL. SEED OF THIS ENTRY MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 19. PERFORMANCE OF EARLY PLANTED GROUP VI SOYBEANS COMBINED OVER LOCATIONS.

BRAND-VARIETY OR VARIETY	YIELD BU/A	LOGGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
THREE-YEAR AVERAGE 1992, 1993, AND 1994				
Hartz H6686	55	1.4	37	10-23
Asgrow A6297	52	1.7	38	10-31
Brim	51	1.8	40	10-20
Pioneer 9641	51	1.7	37	10-26
Pioneer 9692	51	1.5	39	10-28
Deltapine DP 3606	50	2.1	40	10-27
Ciba 3615	50	1.5	39	10-24
Young	49	2.1	41	10-26
Hyperformer HY 677	49	1.2	35	10-30
TN 6-90	48	1.5	38	10-29
Ciba 3602	48	1.5	38	10-22
Deltapine 726	46	2.2	42	10-29
Deltapine DP 3682	45	1.9	42	10-30
Hyperformer HY 683	45	1.6	37	10-23
Hyperformer HSC B2J	43	1.7	38	10-24
Centennial	42	1.8	40	10-23
+N87-984	42	1.9	39	10-24
FFR 695	41	1.4	38	10-26
TWO-YEAR AVERAGE - 1993, 1994				
Dillon	51	1.2	40	11-1
Hartz H6686	51	1.3	39	10-23
Asgrow A6297	50	1.4	38	11-4
Deltapine DP 3606	50	2.0	40	10-29
Brim	49	1.7	42	10-23
Pioneer 9641	49	1.4	38	10-28
Pioneer 9692	48	1.4	40	10-29
Young	48	2.0	42	10-30
Ciba 3615	47	1.3	39	10-26
FFR 663	46	1.3	37	10-24
TN 6-90	46	1.3	40	11-1
Hyperformer HY 677	45	1.0	33	11-1
Ciba 3602	44	1.2	36	10-26
Deltapine DP 3682	43	1.8	42	11-1
NK S66-90	43	1.1	38	10-28
Asgrow A6711	42	1.3	41	10-26
Deltapine 726	42	2.0	42	11-1
+N87-984	41	1.8	39	10-28
Hyperformer HY 683	41	1.4	38	10-26
Dyna-Gro DG-3682	40	1.9	40	11-1
Hyperformer HSC B2J	40	1.6	40	10-26
Centennial	39	1.8	41	10-24
FFR 695	38	1.3	39	10-29

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

†WASHINGTON COUNTY 1992, JOHNSTON 1993 AND 1994.

TABLE 20. DATA COMBINED OVER LOCATIONS FOR EARLY-PLANTED GROUP VI SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
Hartz H6255	59	1.2	39	11-3
Dillon	58	1.1	43	11-3
Pioneer 9641	56	1.2	43	10-31
Hartz H6686	56	1.3	42	10-24
Deltapine DP 3606	55	1.7	44	10-31
Asgrow A6297	54	1.3	42	11-3
Brim	54	1.9	45	10-24
Pioneer 9692	54	1.4	45	10-31
Young	53	2.1	45	11-3
Ciba 3615	53	1.1	44	10-31
Hyperformer HSC 623	53	2.0	41	10-31
Doles	51	1.8	40	11-3
FFR 663	50	1.2	39	10-24
Hyperformer HY 677	50	1.0	37	11-3
TN 6-90	49	1.2	44	11-3
+V86-815	48	1.0	38	10-31
Ciba 3602	48	1.1	39	10-31
Vigoro V663	48	1.7	41	10-24
+Ciba 6402Y	48	1.7	44	11-3
Asgrow A6785	48	1.9	42	11-3
Deltapine 726	47	2.0	48	10-31
NK S66-90	47	1.1	41	10-31
Deltapine DP 3682	47	1.9	47	10-31
Hartz H6115	47	1.8	39	10-31
Asgrow A6711	46	1.3	45	10-24
+N87-984	46	1.8	43	11-3
Lyon	45	2.0	38	10-24
Dyna-Gro DG-3682	43	1.7	44	10-31
Hyperformer HY 683	43	1.3	42	10-24
Hyperformer HSC B2J	42	1.3	43	10-31
Centennial	42	1.8	44	10-24
FFR 695	41	1.2	44	10-31

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS PLANTED JUNE 27, 1994.

TABLE 21. INDIVIDUAL LOCATION YIELD DATA FOR EARLY-PLANTED GROUP VI SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	WASHINGTON BU/A	COLUMBUS BU/A	BERTIE BU/A	EDGEcombe BU/A	AVERAGE YIELD BU/A
Hartz H6255	41	76**	59*	61**	59**
Dillon	42	71*	60*	61**	58*
Pioneer 9641	43*	71*	63**	48	56*
Hartz H6686	45*	71*	54*	54*	56*
Deltapine DP 3606	44*	71*	50	56*	55*
Asgrow A6297	49*	59	62*	45	54*
Brim	52**	67*	47	49	54*
Pioneer 9692	49*	64	53*	50	54*
Young	45*	67*	52*	48	53*
Ciba 3615	44*	68*	50	50	53*
Hyperformer HSC 623	49*	66	52*	44	53*
Doles	37	56	58*	52*	51
FFR 663	45*	71*	49	37	50
Hyperformer HY 677	42	51	58*	47	50
TN 6-90	39	60	44	51	49
+V86-815	45*	54	44	51	48
Ciba 3602	47*	57	49	41	48
Vigoro V663	42	61	46	45	48
+Ciba 6402Y	46*	42	56*	49	48
Asgrow A6785	39	57	47	47	48
Deltapine 726	42	54	48	44	47
NK S66-90	47*	43	49	49	47
Deltapine DP 3682	39	58	46	44	47
Hartz H6115	43*	45	50	48	47
Asgrow A6711	39	52	45	47	46
+N87-984	40	59	40	44	46
Lyon	40	50	42	48	45
Dyna-Gro DG-3682	46*	40	49	38	43
Hyperformer HY 683	35	49	48	39	43
Hyperformer HSC B2J	40	39	51	40	42
Centennial	37	55	41	34	42
FFR 695	40	46	43	36	41
<b>MEAN</b>	<b>43</b>	<b>58</b>	<b>50</b>	<b>47</b>	<b>49</b>
R <sup>2</sup> (%)	74	75	70	79	68
C.V. (%)	12.1	12.5	13.7	14.0	11.9
BLSD (K-50)	10	10	12	10	8
S.E.	3.0	4.2	4.0	3.8	1.7
ERROR D.F.	57	56	59	59	93

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

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



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

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1993, 1994 YIELD BU/A	1992, 1993, 1994 YIELD BU/A
Asgrow A6297	49	49	47
Brim	52	48	47
TN 6-90	39	44	45
FFR 663	45	43	
Pioneer 9641	43	43	43
Ciba 3602	47	43	44
Young	45	43	41
Deltapine DP 3606	44	43	43
Pioneer 9692	49	43	45
Dillon	42	43	
Ciba 3615	44	42	43
Hartz H6686	45	42	46
Deltapine 726	42	42	43
NK S66-90	47	41	
Dyna-Gro DG-3682	46	40	
Hyperformer HY 677	42	39	44
Asgrow A6711	39	39	
Hyperformer HSC B2J	40	39	40
+N87-984	40	38	38
Deltapine DP 3682	39	37	40
Hyperformer HY 683	35	37	41
FFR 695	40	35	37
Centennial	37	34	34

+EXPERIMENTAL. SEED OF THIS ENTRY MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 23. ONE, TWO, AND THREE-YEAR AVERAGES FOR EARLY-PLANTED GROUP VI SOYBEANS AT COLUMBUS COUNTY.

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1993, 1994 YIELD BU/A	1991, 1993, 1994 YIELD BU/A
Hartz H6686	71	67	54
Deltapine DP 3606	71	65	
Dillon	71	64	
Brim	67	64	55
Pioneer 9692	64	63	
FFR 663	71	62	
Pioneer 9641	71	61	52
Asgrow A6297	59	61	51
Young	67	61	50
Ciba 3615	68	60	48
TN 6-90	60	57	
Deltapine DP 3682	58	57	
+N87-984	59	54	
Ciba 3602	57	54	
Hyperformer HY 677	51	54	
Asgrow A6711	52	52	
Centennial	55	52	46
Hyperformer HY 683	49	50	
FFR 695	46	49	42
NK S66-90	43	48	
Deltapine 726	54	47	43
Dyna-Gro DG-3682	40	44	
Hyperformer HSC B2J	39	43	39

+EXPERIMENTAL. SEED OF THIS ENTRY MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 24. ONE, TWO, AND THREE-YEAR AVERAGES FOR EARLY-PLANTED GROUP VI SOYBEANS AT BERTIE COUNTY.

BRAND-VARIETY OR VARIETY	1994	1993, 1994	1992, 1993, 1994
	YIELD BU/A	YIELD BU/A	YIELD BU/A
Hartz H6686	54	44	51
Asgrow A6297	62	43	49
Dillon	60	43	
Pioneer 9641	63	43	48
Hyperformer HY 677	58	41	46
Deltapine DP 3606	50	39	43
NK S66-90	49	39	
Pioneer 9692	53	39	45
Young	52	39	43
FFR 663	49	38	
Dyna-Gro DG-3682	49	38	
Deltapine 726	48	37	43
Hyperformer HSC B2J	51	37	43
Ciba 3615	50	37	44
Hyperformer HY 683	48	37	42
Brim	47	36	44
Deltapine DP 3682	46	36	40
Ciba 3602	49	36	41
Centennial	41	35	39
TN 6-90	44	34	40
Asgrow A6711	45	33	
FFR 695	43	31	36
+N87-984	40	28	34

+EXPERIMENTAL. SEED OF THIS ENTRY MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 25. ONE, TWO, AND THREE YEAR AVERAGES FOR EARLY-PLANTED GROUP VI SOYBEANS AT LENOIR COUNTY†.

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1992, 1994 YIELD BU/A	1991, 1992, 1994 YIELD BU/A
‡Dyna-Gro DG-3682	43**		
‡Asgrow A6711	42*		
‡Vigoro V663	42*		
‡Hyperformer HSC B2J	38*	41	44
‡Deltapine DP 3682	37*	42	
‡Ciba 3602	37*	47	
‡Lyon	37*		
‡Hyperformer HSC 623	36*	38	37
‡Pioneer 9692	36*	44	
‡Asgrow A6297	36*	45	48
‡Hyperformer HY 683	33	40	
Young	33	45	45
‡NK S66-90	33		
Dillon	32		
‡Doles	32		
‡Centennial	31	41	45
‡TN 6-90	31	38	
‡Deltapine 726	31	40	44
Hartz H6686	31	47	56
+Ciba 6402Y	31		
Brim	31	41	49
Deltapine DP 3606	31	38	
‡Hartz H6115	30		
Asgrow A6785	30		
Hyperformer HY 677	30	42	
Ciba 3615	29	40	43
Hartz H6255	28		
Pioneer 9641	28	38	45
FFR 695	28	37	37
FFR 663	27		
+N87-984	23	32	
+V86-815	22	39	
<b>MEAN</b>	<b>32</b>		
R <sup>2</sup> (%)	61		
C.V. (%)	16.4		
BLSD (K-50)	8		
S.E.	3.0		
ERROR D.F.	63		

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

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

‡RESISTANT TO RACE 3 CYST NEMATODE.

†CYST NEMATODES WERE PRESENT IN 1994 BUT NOT IN 1991 AND 1992.

TABLE 26. ONE, TWO, AND THREE-YEAR AVERAGES FOR EARLY-PLANTED GROUP VI SOYBEANS AT EDGECOMBE COUNTY.

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1992, 1994 YIELD BU/A	1991, 1992, 1994 YIELD BU/A
Hartz H6686	54	61	55
Deltapine DP 3606	56	58	
Ciba 3615	50	56	52
+V86-815	51	56	
TN 6-90	51	56	
Brim	49	56	50
Pioneer 9641	48	56	49
Pioneer 9692	50	54	
Asgrow A6297	45	53	49
Young	48	53	48
Hyperformer HY 677	47	52	
Ciba 3602	41	51	
Deltapine 726	44	51	46
Hyperformer HSC 623	44	49	48
Hyperformer HSC B2J	40	49	43
Deltapine DP 3682	44	49	
Hyperformer HY 683	39	47	
+N87-984	44	47	
FFR 695	36	46	42
Centennial	34	43	41

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 27. PERFORMANCE OF EARLY PLANTED GROUPS VII AND VIII SOYBEANS COMBINED OVER LOCATIONS.

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
THREE-YEAR AVERAGE 1992, 1993, AND 1994				
Pioneer 9831	51	1.5	38	11-3
Cook	49	1.8	40	11-1
NK S75-55	48	1.8	39	10-30
Pioneer 9761	47	1.5	38	10-30
Hartz H7190	47	1.7	37	10-30
Maxcy	47	2.3	40	11-4
Deltapine DP 3733	45	1.5	40	10-29
Pioneer 9711	45	2.0	36	10-28
Hyperformer HSC 741	45	1.8	38	10-30
NK S83-30	44	2.0	40	11-4
Stonewall	44	1.9	38	10-29
Hyperformer HSC 721	44	3.0	38	10-30
FFR 731	42	1.7	38	10-30
TWO-YEAR AVERAGE - 1993, 1994				
Pioneer 9831	50	1.4	40	11-4
Cook	50	1.6	40	11-3
Haskell	49	2.2	38	11-5
Pioneer 9761	48	1.4	38	11-1
Maxcy	47	2.1	41	11-5
NK S75-55	47	1.5	41	11-1
Pioneer 9711	46	1.8	37	10-29
Hartz H7190	46	1.4	37	11-2
NK S83-30	46	1.7	43	11-6
Deltapine DP 3733	45	1.2	42	11-1
Hyperformer HSC 741	44	1.8	41	11-1
Vigoro V713	43	1.2	37	11-2
Hyperformer HSC 721	43	2.9	40	11-1
FFR 731	42	1.6	38	11-2
Stonewall	41	1.5	40	10-30
Hartz H7550	37	1.4	43	11-2

†WASHINGTON COUNTY 1992, JOHNSTON COUNTY 1993 AND 1994.

TABLE 28. DATA COMBINED OVER LOCATIONS FOR EARLY-PLANTED  
GROUPS VII AND VIII SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
Cook	63	2.0	47	10-31
Pioneer 9711	62	2.2	45	10-31
+N90-1072	62	1.7	45	11-3
Haskell	62	3.2	47	11-3
Pioneer 9761	61	1.8	49	10-31
Maxcy	60	2.7	48	11-3
Pioneer 9831	58	1.8	51	11-3
Deltapine DP 3733	55	1.7	48	10-31
Vigoro V713	55	1.2	47	10-31
Hartz H7190	55	1.8	49	10-31
Hyperformer HSC 721	54	3.0	45	10-31
FFR 731	54	1.8	45	10-31
NK S75-55	53	1.7	50	10-31
Hartz H7141	52	2.7	50	10-31
Hyperformer HSC 741	50	2.0	49	10-31
NK S83-30	48	2.2	53	11-3
Stonewall	48	1.8	49	10-31
Hartz H7550	41	2.0	53	10-31

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE  
AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS  
PLANTED JUNE 27, 1994.

TABLE 29. INDIVIDUAL LOCATION YIELD DATA FOR EARLY-PLANTED GROUPS VII AND VIII SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	COLUMBUS BU/A	BERTIE BU/A	AVERAGE YIELD BU/A
Cook	66*	61*	63**
Pioneer 9711	70*	55	62*
+N90-1072	57	68**	62*
Haskell	65*	59	62*
Pioneer 9761	67*	56	61*
Maxcy	69*	52	60*
Pioneer 9831	72**	44	58*
Deltapine DP 3733	62	49	55*
Vigoro V713	65*	45	55*
Hartz H7190	56	53	55*
Hyperformer HSC 721	55	53	54*
FFR 731	58	50	54*
NK S75-55	55	51	53*
Hartz H7141	48	55	52*
Hyperformer HSC 741	50	49	50*
NK S83-30	47	50	48*
Stonewall	48	47	48*
Hartz H7550	39	43	41*
<b>MEAN</b>	<b>58</b>	<b>52</b>	<b>55</b>
R <sup>2</sup> (%)	73	90	67
C.V. (%)	12.3	10.6	12.5
BLSD (K-50)	10	9	NS
S.E.	4.1	3.2	2.8
ERROR D.F.	35	28	17

+EXPERIMENTAL. SEED OF THIS ENTRY MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.  
 \*\*HIGHEST YIELDER. \*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.



TABLE 30. ONE, TWO, AND THREE-YEAR AVERAGES FOR EARLY-PLANTED GROUPS VII AND VIII SOYBEANS AT LENOIR COUNTY. †

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1993, 1994 YIELD BU/A	1992, 1993, 1994 YIELD BU/A
‡Stonewall	48**	41	42
‡Hyperformer HSC 721	46*	41	43
‡FFR 731	46*	40	42
‡Vigoro V713	45*	39	
‡NK S83-30	42*	41	43
Haskell	41	43	
‡NK S75-55	40	41	44
‡Pioneer 9711	38	40	42
‡Maxcy	38	40	42
‡Pioneer 9761	37	39	42
‡Deltapine DP 3733	37	38	39
‡Hyperformer HSC 741	37	37	41
Pioneer 9831	36	39	43
Cook	33	40	44
Hartz H7190	32	37	41
+N90-1072	31		
‡Hartz H7550	29	31	
‡Hartz H7141	25		
<b>MEAN</b>	<b>38</b>		
R <sup>2</sup> (%)	70		
C.V. (%)	13.5		
BLSD (K-50)	7		
S.E.	2.9		
ERROR D.F.	34		

+EXPERIMENTAL. SEED OF THIS VARIETY MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

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

‡RESISTANT TO RACE 3 CYST NEMATODE.

†CYST NEMATODES WERE PRESENT IN 1994 BUT NOT IN 1992 AND 1993.

TABLE 31. ONE, TWO, AND THREE-YEAR AVERAGES FOR EARLY-PLANTED GROUPS VII AND VIII SOYBEANS AT COLUMBUS COUNTY.

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1993, 1994 YIELD BU/A	1991, 1993, 1994 YIELD BU/A
Pioneer 9831	72	69	
Maxcy	69	64	55
Cook	66	62	52
Pioneer 9761	67	62	54
Haskell	65	61	
Pioneer 9711	70	61	52
Vigoro V713	65	60	
Deltapine DP 3733	62	59	54
NK S83-30	47	59	50
Hyperformer HSC 741	50	57	48
NK S75-55	55	57	
Hartz H7190	56	56	45
FFR 731	58	55	46
Hyperformer HSC 721	55	55	49
Stonewall	48	53	44
Hartz H7550	39	45	

TABLE 32. ONE, TWO, AND THREE-YEAR AVERAGES FOR EARLY-PLANTED GROUPS VII AND VIII SOYBEANS AT BERTIE COUNTY.

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1993, 1994 YIELD BU/A	1992, 1993, 1994 YIELD BU/A
Cook	61	49	51
Haskell	59	47	
Pioneer 9761	56	47	46
Hartz H7190	53	46	48
NK S75-55	51	45	49
Pioneer 9711	55	43	44
Hyperformer HSC 721	53	43	42
Maxcy	52	42	44
Pioneer 9831	44	41	45
Deltapine DP 3733	49	41	44
NK S83-30	50	40	42
Hyperformer HSC 741	49	40	42
Vigoro V713	45	39	
FFR 731	50	38	42
Stonewall	47	38	41
Hartz H7550	43	33	

TABLE 33. PERFORMANCE OF LATE PLANTED GROUP V SOYBEANS  
COMBINED OVER LOCATIONS.

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
THREE-YEAR AVERAGE 1992, 1993, AND 1994				
Clifford	37	1.5	26	10-17
Asgrow A5979	36	1.5	27	10-23
Pioneer 9584	35	1.7	28	10-19
FFR 595	34	1.6	32	10-25
FFR 562	31	1.6	29	10-21
FFR 561	31	1.3	25	10-21
NK S59-60	30	1.7	26	
Hutcheson	30	1.6	24	10-19
Hartz H5258	30	1.5	29	10-20
TWO-YEAR AVERAGE - 1993, 1994				
Asgrow A5979	40	1.0	26	10-26
Clifford	39	1.0	25	10-20
Pioneer 9584	38	1.1	29	10-22
+N86-7682	38	1.0	27	10-22
FFR 595	37	1.1	30	10-28
Hartz H5566	37	1.2	24	10-23
FFR 583	35	1.0	29	10-23
NK S57-11	35	1.0	27	10-22
Holladay	35	1.0	24	10-20
NK S59-60	34	1.0	26	
FFR 563	34	1.0	26	10-24
FFR 553	34	1.0	25	10-20
FFR 562	33	1.0	29	10-23
Hartz H5350	33	1.1	26	10-22
Hutcheson	33	1.1	24	10-23
Buckshot 55	32	1.2	27	
Hartz H5258	31	1.0	27	10-22
FFR 561	31	1.0	25	10-23
TN 5-92	28	1.0	30	10-19

+EXPERIMENTAL. SEED OF THIS ENTRY MAY OR MAY NOT BE AVAILABLE  
IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

†WASHINGTON COUNTY - 1992, JOHNSTON COUNTY - 1993 AND 1994.

TABLE 34. DATA COMBINED OVER LOCATION FOR LATE-PLANTED  
GROUP V SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
Pioneer 9584	44	1.3	30	10-24
Clifford	44	1.0	27	10-20
+N86-7682	43	1.0	28	10-24
Asgrow A5979	41	1.0	27	10-31
Asgrow A5545	41	1.0	21	10-20
FFR 563	41	1.0	27	10-24
Hartz H5566	41	1.5	25	10-24
+MD87-5389	39	1.2	32	
Holladay	38	1.0	25	10-20
FFR 514	38	1.0	30	10-17
NK S57-11	38	1.0	29	10-24
+SC 87-119	38	1.0	30	
FFR 595	37	1.2	33	10-31
FFR 583	37	1.0	31	10-24
FFR 531	37	1.0	22	10-24
FFR 562	36	1.1	29	10-24
+V88-1234	36	1.5	32	10-24
Buckshot 55	36	1.4	28	
FFR 553	36	1.1	26	10-20
NK S59-60	35	1.1	26	
TN 5-95	34	1.0	30	10-20
Hartz H5350	34	1.3	26	10-24
FFR 561	33	1.0	25	10-24
Hartz H5258	33	1.0	27	10-24
TN 5-92	32	1.0	31	10-20
Hutcheson	31	1.3	23	10-24
Hartz H5545	29	1.0	22	10-20

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE  
AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM  
SOYBEANS PLANTED JUNE 27, 1994.

TABLE 35. INDIVIDUAL LOCATION YIELD DATA FOR  
LATE-PLANTED GROUP V SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	ROWAN BU/A	WASH- INGTON BU/A	AVERAGE YIELD BU/A
Pioneer 9584	50**	39*	44**
Clifford	44	44**	44**
+N86-7682	46*	40*	43*
Asgrow A5979	44	38	41*
Asgrow A5545	41	42*	41*
FFR 563	47*	34	41*
Hartz H5566	41	40*	41*
+MD87-5389	43	35	39*
Holladay	41	36	38*
FFR 514	37	40*	38*
NK S57-11	39	37	38*
+SC 87-119	38	37	38*
FFR 595	38	37	37*
FFR 583	42	33	37*
FFR 531	43	31	37*
FFR 562	36	36	36*
+V88-1234	43	28	36*
Buckshot 55	41	30	36*
FFR 553	33	38	36*
NK S59-60	40	30	35
TN 5-95	33	34	34
Hartz H5350	32	35	34
FFR 561	35	32	33
Hartz H5258	34	32	33
TN 5-92	37	27	32
Hutcheson	29	33	31
Hartz H5545	35	24	29
<b>MEAN</b>	<b>39</b>	<b>35</b>	<b>37</b>
R <sup>2</sup> (%)	58	51	71
C.V. (%)	14.6	15.1	10.8
BLSD (K-50)	6	6	9
S.E.	2.6	2.4	1.3
ERROR D.F.	100	104	26

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR  
MAY NOT BE AVAILABE IN 1995 AND MAY HAVE A  
DIFFERENT DESIGNATION.

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

TABLE 36. ONE, TWO, AND THREE-YEAR AVERAGES FOR  
LATE-PLANTED GROUP V SOYBEANS AT  
WASHINGTON COUNTY.

BRAND-VARIETY OR VARIETY	1994 YIELD BU/A	1993, 1994 YIELD BU/A	1992, 1993, 1994 YIELD BU/A
Clifford	44	38	39
+N86-7682	40	37	
Asgrow A5979	38	37	38
Hartz H5566	40	36	
FFR 595	37	36	36
Pioneer 9584	39	36	37
NK S57-11	37	34	
FFR 553	38	33	
Holladay	36	33	
FFR 562	36	33	34
FFR 583	33	33	
Hartz H5350	35	33	
Hutcheson	33	32	34
FFR 563	34	30	
Hartz H5258	32	30	32
NK S59-60	30	30	31
Buckshot 55	30	30	
FFR 561	32	29	32
TN 5-92	27	26	

+EXPERIMENTAL. SEED OF THIS ENTRY MAY OR MAY NOT BE  
AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

**TABLE 37. ONE AND TWO YEAR AVERAGES FOR LATE-PLANTED  
GROUP V SOYBEANS AT ROWAN COUNTY.**

<b>BRAND-VARIETY OR VARIETY</b>	<b>1994 YIELD BU/A</b>	<b>1992, 1994 YIELD BU/A</b>	<b>1991, 1992, 1994 YIELD BU/A</b>
<b>Asgrow A5979</b>	<b>44</b>	<b>34</b>	
<b>Pioneer 9584</b>	<b>50</b>	<b>33</b>	
<b>Clifford</b>	<b>44</b>	<b>33</b>	
<b>FFR 595</b>	<b>38</b>	<b>30</b>	
<b>Hartz H5258</b>	<b>34</b>	<b>29</b>	
<b>FFR 562</b>	<b>36</b>	<b>28</b>	
<b>NK S59-60</b>	<b>40</b>	<b>27</b>	
<b>FFR 561</b>	<b>35</b>	<b>26</b>	
<b>Hutcheson</b>	<b>29</b>	<b>22</b>	

TABLE 38. PERFORMANCE OF LATE PLANTED GROUP VI SOYBEANS  
COMBINED OVER LOCATIONS.

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
THREE-YEAR AVERAGE 1992, 1993, AND 1994				
Hartz H6686	35	2.0	31	10-23
Deltapine DP 3682	35	1.9	30	10-30
TN 6-90	34	1.6	29	10-29
Pioneer 9692	34	1.6	28	10-28
Asgrow A6297	33	1.7	30	10-31
Deltapine 726	33	2.1	32	10-29
Pioneer 9641	33	1.5	27	10-26
Young	32	1.9	29	10-26
FFR 695	31	1.9	31	10-26
Brim	30	1.7	31	10-20
Centennial	29	1.9	30	10-23
NK S62-66	29	2.4	28	
TWO-YEAR AVERAGE - 1993, 1994				
TN 6-90	36	1.2	28	11-1
Pioneer 9692	36	1.3	29	10-29
Asgrow A6297	35	1.3	29	11-4
Dillon	34	1.2	28	11-1
Deltapine DP 3682	34	1.4	31	11-1
Pioneer 9641	34	1.1	27	10-28
Hartz H6686	33	1.5	29	10-23
Deltapine 726	33	1.6	29	11-1
Buckshot 66	33	1.6	32	
Young	33	1.5	31	10-30
Brim	32	1.2	30	10-22
NK S66-90	32	1.3	30	10-28
FFR 695	32	1.6	28	10-29
Asgrow A6711	32	1.3	26	10-26
Dyna-Gro DG-3682	31	1.5	28	11-1
FFR 663	30	1.1	27	10-24
Centennial	29	1.5	31	10-24
NK S62-66	27	1.5	26	

†WASHINGTON COUNTY - 1992, JOHNSTON COUNTY - 1993 AND 1994.



TABLE 39. DATA FROM WASHINGTON COUNTY FOR LATE-PLANTED GROUP VI SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
Dillon	39**	1.6	30	11-3
TN 6-90	38*	1.6	28	11-3
Pioneer 9692	38*	2.0	25	10-31
Hartz H6255	37*	2.0	26	11-3
Young	36	2.4	25	11-3
NK S66-90	36	1.8	30	10-31
Brim	35	1.6	31	10-24
Deltapine DP 3682	35	2.2	30	10-31
Asgrow A6297	34	1.8	28	11-3
Asgrow A6711	34	1.8	24	10-24
Pioneer 9641	34	1.4	25	10-31
Buckshot 66	33	2.8	29	
+V86-815	33	1.8	26	10-31
Asgrow A6785	33	2.6	25	11-3
Hartz H6686	33	2.6	24	10-24
Deltapine 726	33	2.8	27	10-31
Vigoro V663	32	3.6	27	10-24
FFR 695	32	2.8	26	10-31
Dyna-Gro DG-3682	32	2.6	24	10-31
FFR 663	31	1.4	26	10-24
NK S62-66	31	2.4	25	
Centennial	29	2.4	30	10-24
+AgraTech ATX 4625	28	2.6	24	
Lyon	28	3.8	26	10-24
<b>MEAN</b>	<b>33</b>			
R <sup>2</sup> (%)	55			
C.V. (%)	9.5			
BLSD (K-50)	3			
S.E.	1.4			
ERROR D.F.	91			

+EXPERIMENTAL. SEED OF THESE ENTRIES MAY OR MAY NOT BE AVAILABLE IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.  
 †POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS PLANTED JUNE 27, 1994.

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

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

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
THREE-YEAR AVERAGE 1992, 1993, AND 1994				
Pioneer 9831	36	1.2	32	11-3
Pioneer 9761	32	1.4	30	10-30
Cook	32	1.5	30	11-1
NK Coker 6738	32	1.2	32	
Stonewall	32	1.7	30	10-29
Maxcy	32	1.7	32	11-4
NK S83-30	32	1.1	31	11-4
Hagood	31	1.6	30	
Deltapine DP 3733	31	1.4	31	10-29
Pioneer 9711	31	1.6	30	10-28
Deltapine 417	31	1.4	33	
NK Coker 6847	30	1.2	29	
FFR 731	29	1.6	29	10-30
Hartz H7190	27	1.4	27	10-30
TWO-YEAR AVERAGE - 1993, 1994				
Pioneer 9831	36	1.4	32	11-4
Pioneer 9761	35	1.5	28	11-1
Buckshot 723	35	1.5	30	
NK S83-30	34	1.3	30	11-6
Hagood	34	1.6	29	
Pioneer 9711	33	1.5	27	10-29
NK S75-55	33	1.2	29	11-1
Stonewall	32	1.8	29	10-30
NK Coker 6738	32	1.4	32	
Maxcy	32	1.9	30	11-5
Deltapine 417	31	1.5	31	
NK Coker 6847	31	1.2	28	
Deltapine DP 3733	30	1.4	29	11-1
Haskell	30	1.9	29	11-5
Cook	29	1.5	29	11-3
Hartz H7550	29	1.1	29	11-2
FFR 731	29	1.4	29	11-2
Vigoro V713	29	1.3	28	11-2
Hartz H7190	28	1.4	28	11-2

†WASHINGTON COUNTY - 1992, JOHNSTON COUNTY - 1993 AND 1994.

TABLE 41. DATA FROM WASHINGTON COUNTY FOR LATE-PLANTED  
GROUPS VII AND VIII SOYBEANS - 1994.

BRAND-VARIETY OR VARIETY	YIELD BU/A	LODGING	PLANT HEIGHT INCHES	POD† MATURITY DATE
Maxcy	37**	3.4	29	11-3
NK S75-55	37**	1.4	29	10-31
Pioneer 9761	37**	2.4	23	10-31
NK Coker 6847	36*	1.6	22	
Pioneer 9711	35*	2.2	25	10-31
NK Coker 6738	35*	2.2	28	
NK S83-30	35*	1.8	28	11-3
Pioneer 9831	35*	2.0	29	11-3
Vigoro V713	35*	2.0	25	10-31
Deltapine DP 3733	35*	2.2	31	10-31
Hagood	34	2.4	24	
+N90-1072	34	1.8	26	11-3
Stonewall	34	3.2	25	10-31
Buckshot 723	34	2.0	24	
Hartz H7190	33	2.0	27	10-31
Cook	33	2.2	27	10-31
FFR 731	32	2.2	28	10-31
Hartz H7550	31	1.2	24	10-31
Haskell	31	3.4	25	11-3
Deltapine 417	31	2.4	25	
Hartz H7141	29	3.4	24	10-31
<b>MEAN</b>	<b>34</b>			
R <sup>2</sup> (%)	63			
C.V. (%)	7.7			
BLSD (K-50)	3			
S.E.	1.2			
ERROR D.F.	76			

+EXPERIMENTAL. SEED OF THIS ENTRY MAY OR MAY NOT BE AVAILABLE  
IN 1995 AND MAY HAVE A DIFFERENT DESIGNATION.

†POD MATURITY DATA COLLECTED AT JOHNSTON COUNTY FROM SOYBEANS  
PLANTED JUNE 27, 1994.

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

Table 42. Characteristics of soybean varieties in North Carolina.<sup>†</sup>

Brand-Variety or Variety	Maturity Group	Resistance		Nematode Tolerance*	Seed Size	Color		
		Shatter	Lodging			Flower	Pubescence	Hilum
Asgrow A4539	4	Good	Fair	C13	Large	White	Tawny	Black
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 A5545	5	Good	Excellent	C3	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 A6711	6	Good	Good	C3Ri	Medium	White	Tawny	Black
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 44	4	Good	Good		Medium	White	Gray	Varies
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
Calhoun	4	Good	Excellent		Medium	Purple	Gray	Buff
Cargill C-445	4	Good	Excellent		Medium	White	Tawny	Black
Cargill C-517	5	Good	Good	C34	Medium	Purple	Tawny	Black

Table 42. (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
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 3474	4	Good	Fair		Medium	Purple	Tawny	Black
Ciba 3602	6	Good	Good	C13Ri	Medium	White	Tawny	Black
Ciba 3615	6	Good	Good		Medium	Purple	Gray	Varies
Clifford	5	Good	Good		Large	White	Gray	Buff
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 411	4	Good	Good		Large	White	Tawny	Black
DeKalb CX 415	4	Good	Excellent		Medium	White	Tawny	Black
DeKalb CX 469C	4	Good	Good	C3	Medium	Purple	Tawny	Black
DeKalb CX 478	4	Good	Good		Medium	White	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
Dillon	6	Good	Good	Ri	Large	Purple	Gray	Buff
Doles	6	Good	Good	C13Ri	Small	White	Tawny	Black
DynaGro 3401	4	Good	Good		Large	Purple	Brown	Brown

Table 42. (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
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 3495	4	Good	Good		Medium	White	Gray	Buff
DynaGro 3501	5	Good	Fair		Medium	Purple	Tawny	Brown
DynaGro 3508	5	Good	Fair	C3Ri	Large	White	Gray	Black
DynaGro 3542	5	Good	Good	C34	Small	White	Tawny	Black
DynaGro 3576	5	Good	Good		Small	White	Gray	Buff
DynaGro 3682	6	Good	Good	C3	Medium	White	Tawny	Black
Essex	5	Good	Excellent		Small	Purple	Gray	Buff
FFR 439	4	Good	Good		Medium	White	Brown	Black
FFR 442	4	Good	Good		Medium	White	Gray	Buff
FFR 464	4	Good	Good		Small	Purple	Tawny	Black
FFR 471	4	Good	Excellent		Large	White	Tawny	Black
FFR 493	4	Good	Excellent		Small	Purple	Gray	Buff
FFR 514	5	Good	Excellent	C34	Medium	Purple	Tawny	Black
FFR 531	5	Good	Excellent	C34	Medium	White	Gray	Buff
FFR 553	5	Good	Good		Small	Purple	Brown	Black
FFR 561	5	Good	Excellent		Small	White	Gray	Buff
FFR 562	5	Good	Good		Medium	Purple	Gray	Buff
FFR 563	5	Good	Good	C34	Medium	Purple	Gray	Varies
FFR 583	5	Good	Good		Medium	White	Brown	Black
FFR 595	5	Good	Good	C34	Small	White	Brown	Brown
FFR 663	6	Good	Good		Small	Purple	Brown	Black
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

Table 42. (Continued). Characteristics of soybean varieties in North Carolina.<sup>†</sup>

Brand-Variety or Variety	Maturity Group	Resistance		Nematode Tolerance*	Seed Size	Color		
		Shatter	Lodging			Flower	Pubescence	Hilum
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 H4994	4	Good	Good	C34	Medium	Purple	Tawny	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 H5545	5	Good	Good	C3	Medium	Purple	Gray	Varies
Hartz H5566	5	Good	Good	C34	Medium	White	Brown	Black
Hartz H6500	6	Good	Good	C3	Small	White	Brown	Black
Hartz H6115	6	Good	Good	C3	Medium	Purple	Gray	Buff
Hartz H6255	6	Good	Good		Medium	Purple	Gray	Buff
Hartz H7141	7	Good	Fair	C34Ri	Medium	Purple	Gray	Varies
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
HSC 721	7	Good	Good	C34Ri	Medium	White	Tawny	Black
HSC 741	7	Good	Good	C34Rai	Medium	Purple	Tawny	Black

Table 42. (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 B2J	6	Good	Good	C3Rai	Medium	Purple	Tawny	Black
Hutcheson	5	Good	Excellent		Medium	White	Gray	Buff
HY 498	4	Good	Fair		Small	White	Gray	Buff
HY 574	5	Good	Good	Rai	Medium	Purple	Tawny	Black
HY 677	6	Good	Good	Rai	Small	White	Gray	Buff
HY 683	6	Good	Good	C3Ra	Medium	White	Tawny	Black
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
Lyon	6	Good	Good	C34Rai	Medium	White	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 S57-11	5	Good	Good	C34Rai	Medium	Purple	Tawny	Black
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 S66-90	6	Excellent	Good	C34Ri	Medium	Purple	Gray	Buff
NK S75-55	7	Good	Good	C34Ra	Medium	Purple	Tawny	Black
NK S83-30	8	Good	Good	C13RiL	Large	White	Gray	Buff
Pearl	6	Good	Good	Rai	Tiny	White	Gray	Buff
Perrin	8	Good	Good	Rai	Large	Purple	Tawny	Black
Pioneer 9442	4	Good	Good		Medium	Purple	Tawny	Black



Table 42. (Continued). Characteristics of soybean varieties in North Carolina.<sup>†</sup>

Brand-Variety or Variety	Maturity Group	Resistance		Nematode Tolerance*	Seed Size	Color		
		Shatter	Lodging			Flower	Pubescence	Hilum
Pioneer 9444	4	Excellent	Good	C34	Medium	White	Tawny	Black
Pioneer 9461	4	Good	Good		Medium	White	Tawny	Black
Pioneer 9472	4	Good	Good	C34	Large	White	Tawny	Black
Pioneer 9501	4	Good	Good		Large	White	Tawny	Black
Pioneer 9521	5	Good	Excellent	C3	Medium	Purple	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
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

Table 42. (Continued). Characteristics of soybean varieties in North Carolina.<sup>†</sup>

Brand-Variety or Variety	Maturity Group	Resistance		Nematode Tolerance*	Seed Size	Color		
		Shatter	Lodging			Flower	Pubescence	Hilum
Stonewall	7	Good	Fair	C3R1	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 4-94	4	Good	Good	C34	Medium	Purple	Gray	Buff
TN 5-85	5	Good	Good	C13Ra	Small	White	Gray	Buff
TN 5-92	5	Good	Good	C35	Small	White	Gray	Buff
TN 5-95	5	Good	Good	C34	Medium	Purple	Tawny	Black
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
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
Vigoro V663	6	Good	Good	C3	Medium	White	Brown	Black
Vigoro V713	7	Good	Good	C34	Small	White	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

<sup>†</sup>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 43. Name, contact person, and address of sponsoring agencies in the 1994 North Carolina Cotton Performance Trials along with designation used to identify the varieties or hybrids in the trials.

Agency and Contact Person	Address	Designation
<b><u>Chembred, Inc.</u></b> Verlin G. Boeder	10201 S. 51st Street Suite 205 Phoenix, AZ 85044	CB
<b><u>Brownfield Seed and Delinting</u></b> Bob Dumas	P. O. Box 608 Brownfield, TX 79316	S

Table 43. (Continued).

<u>Delta &amp; Pine Land Company</u> Dr. Keith R. Jones	P. O. Box 157 100 Main Street Scott, MS 38772	Deltapine DP, DES 119
<u>Hyperformer Seed 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>Jacob Hartz Seed Co.</u> Curtis Williams	P. O. Box 946 Stuttgart, AR 72160	Hartz
<u>Mycogen Plant Science</u> Bobby Phipps	13974 W. Van Buren Goodyear, AZ 85338	Myco
<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 LA

**Test Locations:** The four test locations included the Central Crops Research Station near Clayton (Johnston county), the Upper Coastal Plain Research Station near Rocky Mount (Edgecombe county), the Peanut Belt Research Station near Lewiston (Bertie county), and with Olin Marsh near Marshville (Union county). A fifth test site, T. G. Gibson, Jr.'s farm near Gibson, N. C., was in a field infested with Columbia lance nematodes with a rye cover crop. The tests at Scotland, Union, and Edgecombe counties were discarded due to poor stands.

**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 two to three weeks prior to harvest and indicates relative maturity. Fiber properties were determined by HVI.

**Seasonal Conditions:** Planting was on time due to a warm spring. However, most tests were replanted due to poor stands. The Johnston county test was not replanted while the Bertie county test was replanted (Table 44). The entire growing season was characterized by normal temperatures but below-normal rainfall at some locations in May and June. The lack of rainfall contributed to poor stands at Union county. Rainfall data are shown below. Harvest was on time (Table 44). A one-half rate of PIX was applied to the Johnson county test and Prep was used at both locations.

**Rainfall (Inches)**

<b><u>Location</u></b>	<b><u>May</u></b>	<b><u>June</u></b>	<b><u>July</u></b>	<b><u>August</u></b>	<b><u>Sep- tember</u></b>
<b>Bertie</b>	3.11	3.53	7.53	3.51	3.53
<b>Johnston</b>	2.59	3.26	4.35	4.30	3.61

**Results:** Soil test results are shown in Table 45. Three and two-year averages over all locations are shown in Tables 46 and 47. Some entries were treated with the biological seed treatment Kodiak which has been shown to be beneficial under certain environmental conditions and may result in increased yields. Those conditions were not evident in 1994; however those entries treated

with Kodiak have been denoted in the tables. 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 48). No varieties had micronaire values in the premium range although many had values in the base range and many had values in the discount range.

Average performance across two locations for 1994 are shown in Table 48. Yields were excellent. Fiber length and strength were excellent. However, micronaire (mike) values were high, averaging 5.2.

One-year, two-year, and three-year individual location data are shown in Tables 49-53. 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 44. Cultural practices for cotton performance trials - 1994.

Location	Fertilizer	Soil Type	Date of Planting	Date Defoliated	Date of Harvest
<b>Bertie</b>	100	Norfolk loamy sand	May 20	September 28	October 20
	0-0-60				
	100				
	0-46-0				
	325				
	30-0-0				
<b>Johnston</b>	2.5 Solubor	Norfolk loamy sand	May 2	October 6	October 24
	17				
	35% Zn				
	400				
	6-6-36				
	400				
	12-6-24				

Table 45. Soil test results for cotton - 1994.

Location by County	HM%	W-V	CEC	BS	AC	pH	P-I	K-I	Ca %	Mg %	Mn-I	Zn-I	Cu-I
<b>Bertie</b>				84		5.8	43	38	68.0	8.8	49	26	
<b>Johnston</b>	0.3	1.30	2.4	83	0.4	5.7	87	64	46.6	22.9	60	66	64

TABLE 46. THREE YEAR AVERAGE PERFORMANCE OF COTTON VARIETIES - 1992-1994.†

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	1100	43.5	37	44	1.15	83.1	30.2	4.7
S-35	1088	41.1	34	51	1.13	82.1	28.6	4.6
Carolina ES 300	1073	43.1	36	48	1.15	83.5	28.2	4.7
Sure-Grow 501	1067	43.1	35	44	1.15	84.0	31.2	4.8
LA 887	1058	42.9	36	42	1.15	82.6	30.3	4.8
Deltapine 51	1048	41.0	33	52	1.15	82.9	27.5	4.8
DES 119	1048	42.2	34	52	1.14	83.3	29.3	4.8
CB 1135	1043	41.0	33	47	1.13	81.9	28.7	4.5
Deltapine 5690	1035	42.0	36	47	1.14	82.4	31.2	4.8
CB 333	1023	40.8	36	45	1.13	82.5	27.8	4.5
Deltapine 20	1021	41.3	32	55	1.12	82.6	27.0	4.7
Sure-Grow 1001	990	41.6	35	41	1.14	82.8	31.3	4.7
Deltapine 5415	989	42.3	34	37	1.15	82.5	30.9	4.8
CB 1233	988	41.2	36	46	1.14	83.0	31.4	4.6
HS 23	980	40.6	34	50	1.13	82.2	27.9	4.4
KC 311	978	41.1	36	44	1.14	83.2	32.0	4.7
Deltapine 50	973	39.0	32	54	1.14	82.3	27.5	4.7
ST 132	967	42.8	33	61	1.09	82.5	28.0	4.7
HS 46	963	42.5	36	40	1.15	82.1	31.1	4.4
<b>MEAN</b>	<b>1023</b>	<b>41.7</b>	<b>35</b>	<b>47</b>	<b>1.14</b>	<b>82.7</b>	<b>29.5</b>	<b>4.7</b>

†AVERAGE OF THREE LOCATIONS IN 1992, FOUR LOCATIONS IN 1993, AND TWO LOCATIONS IN 1994.



TABLE 47. TWO YEAR AVERAGE PERFORMANCE OF COTTON VARIETIES - 1993 AND 1994.†

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	1197	43.1	33	45	1.14	83.1	30.8	4.6
Sure-Grow 125	1170	41.7	30	58	1.15	82.6	28.7	4.6
Sure-Grow 501	1157	42.5	33	51	1.14	84.0	32.0	4.8
S-35	1143	40.6	31	55	1.12	82.1	29.1	4.5
Carolina ES 300	1131	42.2	33	51	1.14	83.5	28.6	4.7
Hartz H1220	1126	40.7	32	64	1.11	82.5	28.8	4.7
CB 1135	1122	40.6	31	50	1.12	81.9	29.6	4.5
Deltapine 51	1121	40.1	29	60	1.14	82.9	28.1	4.8
LA 887	1116	42.1	33	46	1.14	82.6	31.1	4.7
Deltapine 5690	1116	41.2	33	53	1.13	82.4	32.4	4.7
Hartz H1330	1115	40.8	31	61	1.14	83.1	29.3	4.7
Hartz H1244	1114	40.7	31	56	1.10	82.3	29.4	4.6
Hartz H1380	1113	42.5	32	56	1.14	82.7	27.3	4.5
Hartz H1215	1113	40.8	32	61	1.12	82.5	30.0	4.7
Sure-Grow 404	1109	39.9	29	57	1.13	82.7	31.2	4.9
DES 119	1108	41.4	31	58	1.14	83.3	30.1	4.8
Deltapine 5415	1094	41.4	29	40	1.14	82.5	31.6	4.8
HS 44	1088	39.8	31	50	1.15	82.4	31.9	4.9
CB 333	1087	39.7	32	50	1.11	82.5	28.1	4.5
X94332	1083	40.1	30	52	1.15	82.3	28.6	4.8
KC 311	1077	40.3	32	54	1.14	83.2	33.2	4.6
Deltapine 20	1073	40.6	30	60	1.11	82.6	27.3	4.7
Sure-Grow 1001	1066	40.5	32	45	1.14	82.8	32.7	4.6
CB 232	1064	38.2	30	54	1.14	81.9	28.7	4.6
CB 1233	1059	39.8	32	49	1.14	83.0	31.6	4.5
HS 46	1044	41.6	33	46	1.14	82.1	31.7	4.4
HY 39	1042	39.5	33	49	1.16	83.3	31.5	4.7
HS 23	1027	39.9	31	51	1.12	82.2	28.5	4.4
Deltapine 50	1013	38.2	29	58	1.13	82.3	28.2	4.8
ST 132	1000	42.0	30	68	1.08	82.5	28.4	4.7
<b>MEAN</b>	<b>1096</b>	<b>40.8</b>	<b>31</b>	<b>54</b>	<b>1.13</b>	<b>82.7</b>	<b>30.0</b>	<b>4.7</b>

†AVERAGE OF FOUR LOCATIONS IN 1993 AND TWO LOCATIONS IN 1994.

TABLE 48. AVERAGE PERFORMANCE OF COTTON VARIETIES ACROSS LOCATIONS - 1994.

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
ST 474	1548**	46.6	33	52	1.09	81.7	27.6	5.7
Carolina ES 300	1477*	45.3	35	50	1.16	84.0	26.9	5.2
LA 887	1457*	44.2	35	39	1.16	83.1	29.2	5.2
Sure-Grow 125	1442*	43.8	32	51	1.16	82.8	26.6	5.0
Georgia King	1431*	45.7	35	47	1.15	83.4	29.0	5.3
CB 1135	1420*	43.3	33	51	1.13	82.5	27.5	5.0
†DES 119	1408*	43.6	33	47	1.15	83.3	28.3	5.3
+Sure-Grow 223	1408*	45.9	30	53	1.15	83.8	28.7	5.7
Sure-Grow 404	1407*	41.9	31	53	1.14	82.9	28.5	5.6
Sure-Grow 501	1407*	44.8	36	44	1.14	84.5	29.8	5.3
†Deltapine 51	1399	43.0	31	50	1.14	83.3	26.2	5.2
Hartz H1330	1384	42.7	31	57	1.14	83.9	27.4	5.0
HS 44	1377	42.7	35	49	1.16	82.5	30.0	5.5
S-35	1373	42.6	34	49	1.12	82.8	27.2	5.0
†Deltapine 5690	1365	43.8	35	52	1.15	82.7	31.1	5.1
†Deltapine 5415	1359	43.9	32	37	1.15	82.3	29.6	5.2
Hartz H1215	1359	42.5	32	55	1.13	83.1	28.4	5.1
+Myc0-3076	1351	42.7	36	40	1.18	84.3	32.1	5.2
KC 311	1351	43.1	34	48	1.15	83.8	30.7	5.1
Hartz H1220	1341	42.3	34	61	1.10	82.6	26.4	5.1
+X94332	1330	42.2	33	48	1.17	83.5	26.8	5.3
Sure-Grow 1001	1329	43.3	34	41	1.13	82.6	30.4	5.3
Hartz H1244	1327	42.6	35	58	1.10	82.8	27.4	5.1
†Deltapine 20	1326	42.5	33	49	1.10	81.2	25.8	5.1
HY 39	1318	41.6	34	49	1.18	84.4	29.7	5.3

TABLE 48. (CONTINUED.) AVERAGE PERFORMANCE OF COTTON VARIETIES ACROSS LOCATIONS - 1994.

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
+Carolina 92-206	1317	41.0	32	55	1.09	81.5	26.5	5.0
†Deltapine 5409	1313	43.5	29	59	1.12	81.2	28.9	4.7
CB 1233	1312	42.0	34	56	1.13	83.3	27.2	5.0
CB 232	1310	39.9	33	50	1.14	82.2	27.3	5.0
Hartz H1380	1309	44.3	33	54	1.13	82.8	25.5	4.8
Myco-1185	1276	41.8	35	58	1.16	83.0	30.4	4.8
†Deltapine 50	1268	40.6	32	51	1.11	81.3	26.3	5.1
+Myco-3081	1257	42.6	33	50	1.13	83.1	28.9	4.8
CB 333	1256	40.7	34	41	1.09	82.6	26.6	5.1
HS 46	1245	44.3	34	42	1.14	82.2	31.1	5.0
Myco-2009	1225	40.7	35	43	1.16	83.5	30.2	4.9
Myco-2006	1222	41.8	34	44	1.17	82.9	29.4	5.3
ST 132	1222	43.5	33	54	1.09	82.9	27.1	4.7
CB 830	1213	39.1	33	58	1.08	82.3	27.8	5.4
HS 23	1198	41.8	34	41	1.14	82.6	27.4	4.9
<b>MEAN</b>	<b>1341</b>	<b>42.9</b>	<b>33</b>	<b>50</b>	<b>1.14</b>	<b>82.9</b>	<b>28.3</b>	<b>5.2</b>
R <sup>2</sup> (%)	95							
C.V. (%)	5.2							
BLSD (K-50)	14.2							
S.E.	21.0							
ERROR D.F.	39							

+EXPERIMENTAL. \*\*HIGHEST YIELDER. \*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.  
 †Treated with Kodiak.

TABLE 49. AVERAGE PERFORMANCE OF COTTON VARIETIES AT JOHNSTON COUNTY - 1994.

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
ST 474	1896**	45.4	34	58	1.12	82.6	28.0	5.5
Carolina ES 300	1727	43.7	33	50	1.21	85.0	27.6	4.8
Sure-Grow 404	1720	41.3	30	50	1.16	83.0	29.0	5.3
Georgia King	1684	44.7	33	48	1.20	83.5	29.5	5.0
+Sure-Grow 223	1679	45.4	31	45	1.16	83.7	28.7	5.6
Sure-Grow 125	1652	42.4	34	51	1.19	82.4	27.6	4.9
†Deltapine 51	1645	42.1	32	50	1.18	83.2	27.7	4.9
†DES 119	1643	42.3	31	49	1.19	84.2	29.2	5.2
S-35	1615	42.2	34	52	1.15	82.8	27.6	4.8
Hartz H1330	1614	41.7	32	54	1.17	83.4	28.2	4.9
Sure-Grow 501	1611	43.2	33	46	1.20	85.9	30.6	5.2
LA 887	1608	41.8	33	41	1.19	83.4	29.2	4.9
CB 1135	1604	42.2	32	47	1.15	82.2	28.8	4.8
HS 44	1592	41.7	33	53	1.17	82.4	29.4	5.4
†Deltapine 5690	1570	42.2	33	52	1.19	82.9	31.5	5.0
†Deltapine 5415	1564	42.7	31	37	1.17	82.2	29.7	5.0
KC 311	1562	41.9	30	44	1.19	84.6	31.2	4.9
Hartz H1215	1560	41.8	31	59	1.16	83.4	29.1	4.8
Sure-Grow 1001	1551	41.4	32	38	1.15	82.4	30.5	5.0
HY 39	1544	40.4	33	49	1.20	84.5	30.4	5.0
†Deltapine 20	1539	40.6	30	51	1.14	81.6	27.0	4.7
+Carolina 92-206	1531	40.0	30	51	1.11	80.8	26.8	4.8
†Deltapine 5409	1525	41.6	29	57	1.16	81.3	29.3	4.4
CB 1233	1521	40.9	33	60	1.18	84.0	28.2	4.9
CB 232	1509	39.6	33	42	1.15	81.6	26.7	4.7

TABLE 49. (CONTINUED.) AVERAGE PERFORMANCE OF COTTON VARIETIES AT JOHNSTON COUNTY - 1994.

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
+Myco-3076	1502	41.1	33	41	1.19	84.5	32.4	5.3
Hartz H1380	1501	43.7	31	57	1.16	83.4	25.8	4.7
Hartz H1220	1497	40.3	33	58	1.13	82.5	27.8	4.6
CB 830	1492	38.7	36	59	1.09	83.1	28.0	5.3
Myco-1185	1486	41.4	35	55	1.16	82.6	31.2	4.6
+X94332	1486	40.6	32	48	1.20	83.2	28.0	5.1
CB 333	1464	39.5	35	40	1.11	82.7	27.4	4.8
+Myco-3081	1463	41.4	32	50	1.17	84.3	29.5	4.4
Hartz H1244	1457	41.3	32	57	1.12	83.4	28.2	4.9
†Deltapine 50	1453	39.5	30	55	1.15	81.6	27.0	4.8
Myco-2009	1390	39.5	34	37	1.17	82.7	30.5	4.9
HS 23	1380	41.1	34	39	1.17	82.5	27.3	4.7
Myco-2006	1352	39.7	34	44	1.20	83.9	30.1	5.0
HS 46	1345	43.2	32	49	1.18	82.7	30.6	4.8
ST 132	1344	41.9	32	52	1.14	83.7	28.7	4.2
<b>MEAN</b>	<b>1547</b>	<b>41.7</b>	<b>32</b>	<b>49</b>	<b>1.16</b>	<b>83.1</b>	<b>28.8</b>	<b>4.9</b>
R <sup>2</sup> (%)	55							
C.V. (%)	9.1							
BLS D (K-50)	162							
S.E.	62.8							
ERROR D.F.	153							

+EXPERIMENTAL. \*\*HIGHEST YIELDER. †TREATED WITH KODIAK.

TABLE 50. AVERAGE PERFORMANCE OF COTTON VARIETIES AT BERTIE COUNTY - 1994.

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	1306**	46.6	37	37	1.13	82.8	29.3	5.6
CB 1135	1236*	44.4	35	54	1.11	82.8	26.3	5.3
Sure-Grow 125	1231*	45.3	31	51	1.13	83.3	25.7	5.1
Carolina ES 300	1227*	47.0	38	50	1.11	83.0	26.3	5.7
Sure-Grow 501	1202*	46.4	40	42	1.09	83.1	29.0	5.5
+Myc0-3076	1200*	44.3	39	40	1.17	84.1	31.8	5.1
ST 474	1200*	47.9	32	45	1.07	80.8	27.3	5.9
Hartz H1244	1197	43.8	38	60	1.08	82.3	26.7	5.4
Hartz H1220	1185	44.3	36	64	1.08	82.7	25.0	5.7
Georgia King	1178	46.6	38	47	1.11	83.3	28.5	5.5
+X94332	1175	43.8	34	47	1.14	83.8	25.7	5.5
†DES 119	1173	45.0	35	46	1.11	82.4	27.4	5.5
HS 44	1163	43.7	37	46	1.15	82.6	30.6	5.7
†Deltapine 5690	1160	45.4	38	53	1.11	82.6	30.8	5.2
Hartz H1215	1158	43.1	33	52	1.10	82.8	27.7	5.4
†Deltapine 5415	1155	45.2	33	38	1.13	82.5	29.5	5.4
†Deltapine 51	1154	43.9	31	49	1.11	83.4	24.7	5.5
Hartz H1330	1153	43.6	31	59	1.12	84.4	26.7	5.2
HS 46	1144	45.3	36	35	1.11	81.7	31.7	5.2
KC 311	1139	44.4	39	52	1.12	83.0	30.3	5.4
+Sure-Grow 223	1137	46.4	30	61	1.14	84.0	28.8	5.9
S-35	1131	42.9	34	45	1.10	82.9	26.8	5.3
Hartz H1380	1116	45.0	36	51	1.10	82.2	25.3	5.0
†Deltapine 20	1113	44.3	35	48	1.06	80.8	24.7	5.6
CB 232	1111	40.3	34	58	1.14	82.9	27.9	5.3

TABLE 50. (CONTINUED.) AVERAGE PERFORMANCE OF COTTON VARIETIES AT BERTIE COUNTY - 1994.

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 1001	1106	45.1	37	44	1.12	82.9	30.4	5.6
CB 1233	1104	43.0	36	52	1.09	82.6	26.2	5.2
+Carolina 92-206	1103	42.0	35	59	1.08	82.2	26.2	5.2
†Deltapine 5409	1102	45.3	30	62	1.09	81.1	28.6	5.1
ST 132	1100	45.1	34	56	1.05	82.2	25.5	5.3
Sure-Grow 404	1094	42.5	32	57	1.12	82.9	28.0	5.9
Myco-2006	1092	44.0	34	44	1.14	82.0	28.8	5.5
HY 39	1092	42.7	36	50	1.16	84.4	29.1	5.6
†Deltapine 50	1082	41.8	34	46	1.08	81.1	25.6	5.5
Myco-1185	1065	42.2	36	62	1.17	83.4	29.6	5.1
Myco-2009	1061	41.8	36	49	1.16	84.3	29.9	4.9
+Myco-3081	1050	43.8	33	50	1.09	81.9	28.3	5.2
CB 333	1048	41.9	33	42	1.07	82.5	25.8	5.5
HS 23	1016	42.5	35	44	1.12	82.8	27.6	5.1
CB 830	934	39.5	30	57	1.07	81.5	27.6	5.6
<b>MEAN</b>	<b>1135</b>	<b>44.1</b>	<b>35</b>	<b>50</b>	<b>1.11</b>	<b>82.7</b>	<b>27.8</b>	<b>5.4</b>
R <sup>2</sup> (%)	57							
C.V. (%)	9.2							
BLSD (K-50)	117							
S.E.	42.5							
ERROR D.F.	192							

+EXPERIMENTAL. \*\*HIGHEST YIELDER. \*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

†TREATED WITH KODIAK.

TABLE 51. AVERAGE PERFORMANCE OF COTTON VARIETIES AT BERTIE COUNTY - 1993 & 1994.

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 125	1065**	42.7	30	64	1.12	82.9	27.7	4.9
LA 887	1057*	43.4	34	44	1.12	82.7	30.8	5.1
Hartz H1220	1047*	41.9	33	71	1.09	83.0	27.5	5.2
CB 1135	1042*	41.5	32	63	1.10	82.3	28.6	4.9
Hartz H1244	1035*	41.1	33	66	1.09	82.1	29.0	4.9
DES 119	1010*	42.3	33	57	1.11	83.0	29.2	5.0
Sure-Grow 501	1008*	43.2	35	51	1.10	83.3	30.2	5.1
Hartz H1215	1006*	40.5	33	63	1.10	82.5	30.1	4.9
Carolina ES 300	1006*	42.7	35	60	1.11	83.3	27.3	5.3
Georgia King	1004*	43.9	35	63	1.11	82.7	30.5	4.8
Hartz H1330	994*	41.1	31	67	1.13	84.1	28.9	5.1
Deltapine 5415	980*	41.9	30	44	1.13	82.7	31.4	5.1
Deltapine 5690	975*	41.5	34	54	1.12	82.6	32.8	4.9
HS 46	974*	41.9	32	51	1.12	82.0	32.1	4.7
Deltapine 20	972*	41.6	29	65	1.08	82.1	26.1	5.3
Deltapine 51	971*	40.4	28	62	1.12	83.2	27.0	5.1
S-35	968*	40.3	32	60	1.11	82.5	29.0	4.7
HS 44	968*	39.9	32	59	1.13	82.3	31.2	5.2
CB 232	961	38.8	30	66	1.14	82.8	29.3	5.0
KC 311	961	40.9	35	57	1.13	83.5	32.8	4.9



TABLE 51. (CONTINUED.) AVERAGE PERFORMANCE OF COTTON VARIETIES AT BERTIE COUNTY -  
1993 & 1994.

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 H1380	961	42.7	31	63	1.11	82.4	26.5	4.8
X94332	955	40.1	30	59	1.15	83.0	28.2	5.0
CB 333	949	40.1	32	47	1.10	82.6	27.6	4.9
Sure-Grow 404	946	40.1	30	66	1.13	83.3	30.3	5.2
ST 132	928	42.9	31	72	1.06	82.4	27.5	5.2
Deltapine 50	923	38.6	30	58	1.11	82.2	27.5	5.2
CB 1233	922	40.0	34	57	1.12	83.1	30.5	4.9
Sure-Grow 1001	922	41.1	33	55	1.11	82.5	31.8	5.1
HS 23	917	40.3	32	59	1.10	81.9	27.5	4.7
HY 39	906	39.7	34	58	1.17	84.1	31.0	5.1
<b>MEAN</b>	<b>978</b>	<b>41.2</b>	<b>32</b>	<b>59</b>	<b>1.12</b>	<b>82.7</b>	<b>29.3</b>	<b>5.0</b>
R <sup>2</sup> (%)	97							
C.V. (%)	4.5							
BLSD (K-50)	100							
S.E.	12.6							
ERROR D.F.	29							
**HIGHEST YIELDER. *NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.								

TABLE 52. AVERAGE PERFORMANCE OF COTTON VARIETIES AT JOHNSTON COUNTY - 1993 & 1994.

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	1857**	43.6	34	33	1.19	84.0	31.4	4.6
S-35	1628	41.2	32	51	1.15	81.8	29.6	4.5
Carolina ES 300	1617	43.1	34	40	1.19	84.1	29.7	4.5
Sure-Grow 404	1602	40.5	29	55	1.17	82.8	30.5	5.0
Sure-Grow 501	1601	42.2	32	58	1.18	85.3	31.9	4.7
Deltapine 51	1599	40.4	31	57	1.18	83.1	28.7	4.6
Hartz H1380	1565	43.3	34	48	1.17	83.0	27.3	4.4
Sure-Grow 125	1562	41.8	31	54	1.18	82.4	28.7	4.6
Deltapine 5415	1558	42.0	30	38	1.17	82.5	30.6	4.8
Hartz H1330	1553	40.6	33	50	1.17	83.0	29.6	4.5
Deltapine 5690	1542	41.6	35	54	1.16	82.3	31.4	4.6
CB 1135	1532	41.3	31	41	1.14	81.4	29.3	4.5
DES 119	1520	41.7	30	70	1.17	83.8	30.2	5.0
LA 887	1516	41.7	34	45	1.17	82.8	30.5	4.6
HS 44	1516	40.6	33	44	1.16	82.4	31.0	4.9
Sure-Grow 1001	1497	40.9	32	39	1.17	83.0	32.2	4.6
CB 333	1489	39.7	35	49	1.13	82.6	28.5	4.4
CB 1233	1481	40.4	34	46	1.17	83.1	30.7	4.6
X94332	1478	40.5	31	45	1.19	82.8	28.6	4.7
Deltapine 20	1478	40.2	33	52	1.15	82.1	27.9	4.3
Hartz H1220	1476	40.2	32	60	1.13	82.4	29.1	4.3

TABLE 52. (CONTINUED.) AVERAGE PERFORMANCE OF COTTON VARIETIES AT JOHNSTON COUNTY -  
1993 & 1994.

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 H1215	1472	41.1	31	57	1.15	82.9	29.6	4.5
KC 311	1467	40.8	30	53	1.18	83.7	33.3	4.5
HY 39	1460	40.4	35	38	1.18	83.8	31.7	4.6
CB 232	1445	38.4	32	43	1.15	81.2	28.5	4.4
Hartz H1244	1422	40.5	32	56	1.13	83.6	29.6	4.5
HS 23	1392	40.1	30	47	1.16	82.5	29.0	4.4
Deltapine 50	1377	38.2	29	63	1.18	82.6	28.3	4.6
HS 46	1333	42.5	34	41	1.19	82.8	31.4	4.5
ST 132	1311	41.4	30	65	1.12	83.2	29.0	4.5
<b>MEAN</b>	<b>1512</b>	<b>41.0</b>	<b>32</b>	<b>50</b>	<b>1.17</b>	<b>82.9</b>	<b>29.9</b>	<b>4.5</b>
R <sup>2</sup> (%)	77							
C.V. (%)	5.7							
BLSD (K-50)	170							
S.E.	28.5							
ERROR D.F.	29							

\*\*HIGHEST YIELDER.

TABLE 53. AVERAGE PERFORMANCE OF COTTON VARIETIES AT BERTIE COUNTY - 1992 - 1994.

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	1037**	44.0	36	36	1.15	82.7	30.0	5.0
Carolina ES 300	1018*	43.5	38	49	1.13	83.3	27.6	5.0
CB 1135	998*	41.8	34	54	1.11	82.3	28.1	4.8
Georgia King	991*	44.2	39	53	1.13	82.7	29.6	4.8
S-35	987*	40.9	35	54	1.13	82.5	28.3	4.7
Deltapine 51	987*	41.3	33	50	1.14	83.2	26.6	5.0
CB 333	986*	41.1	36	38	1.11	82.6	27.9	4.8
DES 119	984*	43.3	35	51	1.13	83.0	28.3	5.1
Sure-Grow 501	963*	43.8	37	41	1.12	83.3	29.8	5.1
Deltapine 5690	961*	42.6	36	42	1.13	82.6	31.3	5.0
Deltapine 5415	960*	43.0	33	41	1.14	82.7	30.5	5.1
Deltapine 20	948*	42.1	33	57	1.10	82.1	26.3	5.2
HS 46	943*	42.6	34	41	1.14	82.0	31.4	4.6
Sure-Grow 1001	943*	42.0	35	44	1.13	82.5	30.8	5.0
Deltapine 50	940*	39.5	34	46	1.12	82.2	27.0	5.0
KC 311	936*	41.5	39	41	1.15	83.5	31.8	5.0
CB 1233	930*	41.1	36	47	1.13	83.1	29.7	4.9
ST 132	930*	43.4	33	63	1.08	82.4	27.7	5.0
HS 23	916*	40.8	35	48	1.13	81.9	27.1	4.6
<b>MEAN</b>	<b>966</b>	<b>42.2</b>	<b>35</b>	<b>47</b>	<b>1.13</b>	<b>82.6</b>	<b>28.9</b>	<b>4.9</b>
R <sup>2</sup> (%)	92							
C.V. (%)	5.5							
BLSD (K-50)	NS							
S.E.	13.3							
ERROR D.F.	36							

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