

Measured Crop Performance

SMALL GRAIN

1966

JOHN C. RICE, Professor

R. WALTON MOZINGO, Research Assistant

E. L. JONES, Agricultural Research Supervisor

G. C. OLIVER, Agricultural Research Assistant

Department of Crop Science
North Carolina State University
at Raleigh

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PERFORMANCE OF SMALL GRAIN VARIETIES IN NORTH CAROLINA

John C. Rice, R. W. Mozingo, E. L. Jones, G. C. Oliver ^{1/}

INTRODUCTION

Each year evaluation trials are located throughout the small grain producing area of the state. These tests are conducted to determine the value and suitability of commercially available and prospective varieties of wheat, oats, and barley for planting in North Carolina. The results of these tests are intended to aid the growers and agricultural workers in the selection of a variety best suited for their area of the state.

The results of varietal performance are presented from seven test locations in the state, four in the Piedmont and three in the Coastal Plain area. In comparing the performance of varieties, data from the area which most nearly represents the growers' conditions should be used. Due to variation in seasonal conditions from year to year, varieties should be evaluated on the basis of performance over several years rather than the present year's data.

All available data ^{2/} were used in determining the pathologic and agronomic characteristics of the varieties.

^{1/} Professor in Charge of Variety Testing, Research Assistant, Agricultural Research Supervisor and Agricultural Research Assistant, Department of Crop Science, North Carolina State University at Raleigh, respectively.

^{2/} Special acknowledge is due Drs. T. T. Hebert, C. F. Murphy and H. G. Small for assistance in describing the characteristics of varieties.

EXPERIMENTAL PROCEDURE

Commercial varieties and experimental lines developed by public and private agencies are included in these tests. Any individual or firm may make application for having entries included by writing the Department of Crop Science, North Carolina State University at Raleigh. A fee is charged on an entry basis for all private entries. Personnel of the testing program may include entries about which further information is desired.

Agencies Sponsoring Entries

Coker's Pedigreed Seed Company	Hartsville, S. C.
Georgia Agricultural Experiment Sta.	Experiment, Ga.
Indiana Agricultural Experiment Sta.	Lafayette, Ind.
McNair Seed Co., Inc.	Laurinburg, N. C.
North Carolina Agricultural Experiment Sta.	Raleigh, N. C.
South Carolina Agricultural Experiment Sta.	Clemson, S. C.

Test Locations

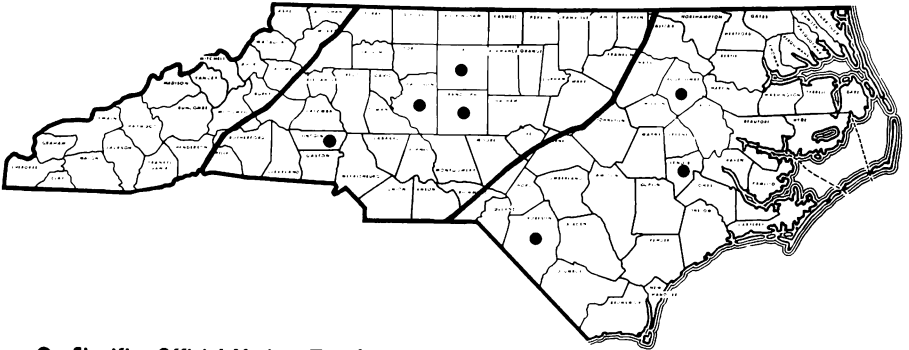
Seven locations were used in 1966 with four in the Piedmont and three in the Coastal Plain as shown in Figure 1. All tests were located on private farms. ^{1/} A randomized block design with four replications was used at each location. ^{2/}

^{1/}The cooperative spirit and civic-minded service rendered by the farmers who provided land and the necessary cultural practices for these trials and the cooperation of the county agents are gratefully acknowledged.

^{2/}Statistical analysis were made in the statistical laboratory under the supervision of John O. Rawlings. This assistance is gratefully acknowledged.

FIGURE 1

LOCATION OF SMALL GRAIN PERFORMANCE TRIALS



● Signifies Official Variety Test Locations

CO-OPERATORS

PIEDMONT

Davidson County: C. A. Smith, Route 7, Lexington, N. C.
County Extension Chairman, C. E. Barnhardt.

Randolph County: Henry Loffin, Route 2, Denton, N. C.
County Extension Chairman, B. P. Jenkins, Jr.

Guilford County: Paul & Carson Ingle, Route 1, Burlington, N. C.
County Extension Chairman, W. H. Kimrey.

Lincoln County: Ed Wise, Route 1, Vale, N. C.
County Extension Chairman, G. A. Stoudemire.

COASTAL PLAIN

Edgecombe County: Jesse Summerlin, Route 1, Tarboro, N. C.
County Extension Chairman, C. H. Lockhart.

Lenoir County: Joel Sutton, Route 6, Kinston, N. C.
County Extension Chairman, F. J. Koonce.

Robeson County: Klyne Lowery, Route 1, Rowland, N. C.
County Extension Chairman, W. C. Williford

Cultural Practices

Cultural practices, such as seed bed preparation, date of planting, fertilization and topdressing were in accord with good farming practices and were uniform for all entries at a given location, Table 1.

All tests were seeded in a small furrow with a Planet Jr. planter at the rate of one gram of seed per foot of row. The rows were spaced one foot apart. Each plot consisted of seven rows twelve feet long with the two outside rows used as borders. The border rows were removed prior to harvest and only the five center rows were harvested.

A seven-foot combine was modified slightly for harvesting individual plots. Grain from individual plots was caught as it came from the elevator and weighed. The combine was stopped at the end of each plot for a short interval of time in order for the machine to clean out between plots prior to weighing the grain from the plot. A sample of grain was taken from each plot for the determination of test weight. The combine was used to more nearly simulate the conditions under which these varieties would be harvested on farms, and it appeared to give very satisfactory results

Seasonal Conditions

In general the seasonal conditions for the 1966 Variety Test were considered to be satisfactory. All locations had a fairly good seed bed and were planted according to recommended planting dates. (See Table 1, page 12 for specific planting dates.) In the three Coastal Plain Tests there was little winter damage compared to previous years with few exceptions. The four Piedmont tests had a good seed bed and a fairly good stand this fall. Cold damage was apparent on some of the varieties and breeding lines in the Piedmont tests.

The Lincoln County test had an excellent stand with good growth and color throughout the growing period. This test was one of the most uniform of any of the Piedmont tests. After heading, a severe wind storm resulted in considerable lodging in some varieties of oats.

The Davidson County test had a very good stand after planting. In March there was heavy growth on all plots and after the application of nitrogen, a disease weather complex appeared especially on the wheat plots. Extreme dry weather resulted about heading time and this resulted in low yields on all plots. The wheat was damaged to such an extent that all plots were discarded.

The Randolph test was planted on a rough seed bed but the oats and barley plots resulted in a good stand. There was a poor stand on some varieties of wheat and later this test for wheat was discarded.

The Guilford County test was planted on a good Davidson soil type and a good stand resulted. Early in the growing season, all varieties looked good and there was a minimum of cold damage. A high nitrogen content in the soil resulted in tall growth and some plots lodged before harvest.

The weather conditions for small grain in the Coastal Plain were not abnormal. All locations had a fairly good stand with vigorous growth and good color.

The Lenoir County test was dry for approximately one month after planting but later there was a good stand and good growth on all plots. The same general conditions resulted at the Edgecombe County test and the yields of these two locations were approximately the same.

The Robeson County test was planted under good conditions but dry weather resulted for approximately one month after planting. The test looked good during January, February and May and matured ahead of the heavy rains in this section.

In general, the growing conditions for the entire state were conducive to producing fairly good yields. All tests were harvested approximately on schedule and in general were very good and representative of their respective areas of production.

RESULTS AND DISCUSSION

The performance of the 1966 tests along with the previous four years are presented by crop and area in a tabular form in this report. Since the genetic expression of a variety is influenced greatly by the environment, it is best to have several years' data from which to draw conclusions. For example, if a variety appears in the two-year average but not in the three-year average, then it must be compared only within the two years and not with the data in the three-year average, since it is possible that the third year could have been extremely good or poor and not comparable.

The 1966 data presented in this report have been analyzed statistically and the least significant difference (L.S.D.), in terms of bushels per acre and pounds per bushel is given. Unless the difference between two varieties is greater than the L.S.D., the varieties should not be considered as being any different statistically.

Barley

Table 5 shows the performance of barley in the Piedmont. The yields varied from a high of 75.9 bushels per acre for the experimental line McNair 601 to 47.5 bushels for the experimental line SC 60-3239 in the year 1966. The five-year-averages showed less variation with SC 59-1018 having the top yield of 56.4 bushels. The highest test weight recorded for 1966 was 52.3 pounds per bushel for the line SC 60-3239.

Rogers again showed the highest test weight average of 45.5 lbs/bushel for the five-year period. Wade also had a high test weight of 44.4 pounds per bushel for the five-year period.

In the Coastal Plain area, Table 6 there was a statistical difference variation in yield between the varieties. The breeding line McNair 601 had the top yield of 84.1 bushels per acre. Six entries yielded better than 70.0 bushels per acre. The line SC 60-3239 had the highest test weight of 49.7 pounds per bushel followed by SC 59-1018 with 46.3 pounds per bushel.

Over the five-year average varieties, Wade and Colonial 2 showed the higher yields while Wade and Rogers had the top test weights.

Oats

Data from the oat trials in the Piedmont are presented in Table 7. All oats entries yielded about the same as in 1965. Three entries, Carolee, Coker 242 and N.C. 2534 yielded in excess of 90 bushels per acre with Coker 242 having the highest yield of 98.0 bushels. The test weights were generally good with More-grain 62-11 having a top of 36.2 pounds per bushel.

Over the five-year average Carolee, Roanoke and Sumter are all showing high consistent yields. Roanoke showed the highest test weight for the five-year average.

In the Coastal Plain area, Table 8, the oat yields were good for all entries. Statistically there was a difference between entries. All entries except Arlington 23 averaged better than 72 bushels per acre for 1966 with Coker 242 showing the highest yield

of 102.3 bushels. The test weights were good with Moregrain 62-11 having the highest of 36.3 lbs/bushels followed very closely by Coker 242 with a weight of 36.0 lbs/bushel. Over the five-year average Sumter has the highest average of 80.7 bushels.

Wheat

Data on the wheat trials in the Piedmont are presented in Table 9. The yields were good with all entries yielding above 40 bushels per acre for 1966. The variety Blueboy (N.C. 4672) showed a very high yield of 64.7 bushels followed by N.C. 4761 and McNair 631 with a yield of 59.0 bushels per acre. The test weights ranged from 60.3 pounds per bushel for SC 60-9149 to 53.2 for N.C. 4662. Ga. 1123 led the five-year average with 46.9 bushels per acre. Knox had the highest test weight for the five year period with 59.7 pounds per bushel.

The Coastal Plain data are presented in Table 10. Blueboy (N.C. 4672) showed the highest yield of 52.0 bushels per acre for 1966 followed by McNair 631 and Ga. 1123 with yields over 47.0 bushels per acre. Other varieties also performed well in this area except Coker 61-19 which had cold damage in the Lenoir County test. Over the five-year period, 1962-1966, Ga. 1123 had an average yield of 45.5 bushels. Wakeland had an average of 42.2 bushels per acre.

Lodging

Lodging data are given in Table 11. A one-year and two-year comparison are shown with notations giving the number of locations where lodging occurred.

Table 1. Cultural practices for small grain tests 1966.

Area and cooperator	Fertilizer lbs./A	Topdress $\frac{1}{2}$ / lbs./A and date	Date of planting	Date of harvesting
<u>Piedmont Area</u>				
Davidson Co. C. A. Smith	400 10-20-20	60 N Feb. 23	Oct. 5	Barley - June 7 Oats - June 17 Wheat - Discarded
Lincoln Co. Ed Wise	800 5-10-10	60 N Feb. 23	Oct. 25	Barley - June 9 Oats & Wheat - June 15
Randolph Co. Henry Loffin	400 10-20-20	100 N Feb. 23	Oct. 5 - Barley Oct. 6 - Oats & Wheat	Barley - June 13 Oats - June 21 Wheat - Discarded
Guilford Co. Paul & Carson Ingle	400 10-20-20	60 N Feb. 23	Oct. 5	Barley - June 17 Oats & Wheat - June 27
<u>Coastal Plain Area</u>				
Edgecombe Co. Jesse Summerlin	400 10-20-20	60 N Feb. 22	Oct. 19	Barley - June 8 Oats & Wheat - June 22
Lenoir Co. Joel Sutton	400 10-20-20	60 N Feb. 22	Oct. 19	Barley - June 8 Oats & Wheat - June 14
Robeson Co. Klyne Lowery	400 10-20-20	60 N Feb. 22	Oct. 20	Barley - June 2 Oats & Wheat - June 14

$\frac{1}{2}$ / All tests sprayed with 1 pt./Acre of 2, 4-D for weed control at the time of topdressing with liquid nitrogen.

Table 2. Characteristics of barley varieties.*

Variety	Loose smut resist- ance	Mildew resist- ance	Leaf rust resist- ance	Scalk resist- ance	Lodging resist- ance	Winter Hardiness	Maturity	Test Weight lb/bu.
Davie	Poor	Poor	Excellent	Fair	Fair	Fair	Early	Med.
Rogers	Poor	Excellent	Good	Fair	Good	Good	Late	High
Early Marconee	Poor	Fair	Poor	Poor	Poor	Fair	Very early	Med.
Wade	Poor	Poor	Excellent	Fair	Excellent	Fair	Early	High
Ga-Jet	Good	Fair	Poor	Fair	Fair	Fair	Very early	Med.
Colonial 2	Poor	Poor	Fair	Poor	Fair	Fair	Early	Med.
Harrison	Poor	Good	Fair	Fair	Excellent	Good	Early	High

Table 3. Characteristics of oat varieties.*

Variety	Crown rust resist- ance	Smut resist- ance	Blight resist- ance	Mosaic resist- ance	Maturity	Winter hardi- ness	Lodging resist- ance	Height of Straw	Test Weight lb/bu.
Arlington 23	Fair	Good	Good	Good	Late	Good	Poor	Tall	Med.
Sumter	Fair	Good	Good	Good	Med.	Good	Good	Med.	Med.
Roanoke	Fair	Poor	Good	Fair	Late	Good	Fair	Tall	Med.
Moregrain 62-11	Good	Good	Good	Fair	Early	Fair	Good	Short	High
Carolee**	Fair	Good	Good	Fair	Med.	Good	Good	Med.	Med.
Coker 242	Good	Good	Good	Fair	Med.	Fair	Good	Med.	High

* These characteristics based upon all available observations.

** Appears to have tolerance to barley yellow dwarf virus.

Table 4. Characteristics of wheat varieties.*

Variety	Leaf rust resist- ance	Mildew resist- ance	Mosaic resist- ance	Maturity	Winter Hardiness	Lodging resist- ance	Height of Straw	Test Weight lb/bu.	Soft Wheat Milling Quality
Knox	Good	Fair	Good	Early	Good	Poor	Med.	High	Good
Wakeland	Fair	Fair	Poor	Early	Fair	Good	Short	Med.	Fair
Knox 62 **	Good	Fair	Good	Early	Good	Poor	Med.	High	Good
Ga. 1123	Fair	Poor	Good	Med.	Fair	Good	Tall	Med.	Fair
Coker 61-19	Poor	Poor	Good	Late	Good	Good	Tall	Med.	Good
Blueboy (N.C. 4672)	Fair	Good	Good	Med.	Good	Excellent	Short	Low	Good

* These characterizations based upon all available observations.

** Resistant to Hessian Fly.

Table 5. Summary of barley performance trials in the Piedmont

Variety or Line	1 yr. ave. ^{1/}		2 yr. ave. ^{2/}		3 yr. ave. ^{3/}		4 yr. ave. ^{4/}		5 yr. ave. ^{5/}	
	1966		1965-1966		1964-1966		1963-1966		1962-1966	
	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu
Avie	68.4	43.6	60.0	41.7	56.2	41.8	50.8	41.1	47.8	40.3
Angers	60.0	48.0	63.4	45.6	64.5	45.5	56.9	45.8	53.1	45.5
Arde	67.6	47.0	64.8	44.9	63.3	44.7	55.4	44.9	51.8	44.4
Colonial 2	70.1	43.9	64.4	41.8	62.4	41.7	54.4	40.6	50.8	39.9
Early Marconee	73.8	44.5	66.7	43.3	61.9	42.8	54.4	42.2	52.0	41.5
659-1018 ^{6/}	67.9	47.2	65.2	45.6	64.1	45.2	60.5	45.6	56.4	44.9
.C. 2900 ^{6/}	54.7	47.1	53.7	44.0	55.5	43.6				
Arrison	67.6	47.7	70.3	46.2	71.9	46.5				
660-3239 ^{6/}	47.5	52.3	53.1	48.8						
.C. 1907 ^{6/}	69.5	45.2	64.4	44.3						
.C. 2116 ^{6/}	75.2	45.8	67.6	44.3						
W.Nair 601 ^{6/}	75.9	45.3								
.S.D. (.05)	12.4	1.3								
(.01)	16.7	1.8								
.V. (%)	14	3								

^{1/} Average of Guilford, Randolph, Davidson and Lincoln County locations.

^{2/} Average of eight locations.

^{3/} Average of twelve locations.

^{4/} Average of fourteen locations.

^{5/} Average of seventeen locations.

^{6/} Experimental lines.

Table 6. Summary of barley performance trials in the Coastal Plain

Variety or Line	1 yr. ave. ^{1/} 1966		2 yr. ave. ^{2/} 1965-1966		3 yr. ave. ^{3/} 1964-1966		4 yr. ave. ^{4/} 1963-1966		5 yr. ave. ^{5/} 1962-1966	
	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu
Davie	74.3	44.6	57.8	41.8	59.0	42.2	55.7	41.3	50.3	40.8
Rogers	56.4	45.6	55.4	44.0	56.7	44.7	48.4	44.5	46.2	44.8
Wade	74.9	45.6	63.2	44.0	64.7	44.7	59.9	44.6	54.9	44.6
Colonial 2	69.9	44.6	61.8	42.3	61.5	42.4	57.6	41.4	53.1	40.9
Early Marconee	72.2	43.1	61.2	42.0	59.5	43.0	53.4	42.3	48.1	41.9
Ga. Jet	68.3 ^{7/}	41.6 ^{7/}	58.2	39.8	54.8	40.8	51.3	39.8	47.9	39.2
S.C. 59-1018 ^{6/}	77.5	46.3	68.0	45.0	67.7	45.3	64.8	45.6	58.6	45.2
S.C. 60-3239 ^{6/}	44.1	49.7	45.3	48.2	42.3	--				
N.C. 2900 ^{6/}	57.9	44.6	52.1	43.2	54.7	43.5				
N.C. 1907 ^{6/}	72.9	45.0	63.0	44.1						
N.C. 2116 ^{6/}	79.7	45.1	66.2	42.9						
McNair 601 ^{6/}	84.1	44.7								
L.S.D. (.05)	12.4	2.2								
(.01)	16.8	3.0								
C.V. (%)	11	3								

^{1/} Average of Robeson, Edgecombe and Lenoir County locations.

^{2/} Average of five locations.

^{3/} Average of eight locations.

^{4/} Average of eleven locations.

^{5/} Average of fourteen locations.

^{6/} Experimental lines.

^{7/} Average of Lenoir and Edgecombe Counties only.

Table 7. Summary of oat performance trials in the Piedmont

Variety or Line	1 yr. ave. ^{1/}		2 yr. ave. ^{2/}		3 yr. ave. ^{3/}		4 yr. ave. ^{4/}		5 yr. ave. ^{5/}	
	1966		1965-1966		1964-1966		1963-1966		1962-1966	
	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu
Carolee	92.1	33.0	97.6	32.3	89.1	32.4	87.7	31.4	79.0	31.2
Roanoke	85.9	34.8	84.4	35.1	80.1	35.3	82.2	34.0	76.7	33.5
Sumter	78.6	32.7	81.8	32.4	77.5	32.2	80.0	32.2	74.0	31.8
SC 60-13459 ^{6/}	86.0	34.4	86.6	34.0	82.3	33.9	75.8	33.3		
SC 59-9803 ^{6/}	87.3	34.2	88.1	34.0	82.5	33.8				
Coker 242	98.0	35.4	91.4	35.2	87.0	35.2				
Arlington 23	72.7	33.6	77.6	33.8						
N.C. 267 ^{6/}	79.8	31.6	85.4	31.8						
N.C. 2469 ^{6/}	85.3	33.1	85.2	32.6						
N.C. 2534 ^{6/}	91.7	34.3	93.8	33.7						
N.C. 1972 ^{6/}	87.0	35.7	90.8	35.2						
Moregrain 62-11	75.7	36.2	82.8	35.4						
McNair 621 ^{6/}	86.9	33.9								
McNair 622 ^{6/}	82.0	33.8								
N.C. 312 ^{6/}	81.0	34.8								
N.C. 266 ^{6/}	83.3	32.8								
L.S.D. (.05)	14.6	1.4								
	(.01)	19.2	1.9							
C.V. (%)	12	3								

^{1/} Average of Guilford, Randolph, Davidson and Lincoln County locations.

^{2/} Average of eight locations.

^{3/} Average of eleven locations.

^{4/} Average of twelve locations.

^{5/} Average of fifteen locations.

^{6/} Experimental lines.

Table 8. Summary of oat performance trials in the Coastal Plain

Variety or Line	1 yr. ave. ^{1/}		2 yr. ave. ^{2/}		3 yr. ave. ^{3/}		4 yr. ave. ^{4/}		5 yr. ave. ^{5/}	
	1966		1965-1966		1964-1966		1963-1966		1962-1966	
	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu
Carolee	95.0	32.2	91.1	32.7	79.7	33.8	75.0	33.0	73.9	33.1
Roanoke	72.9	33.8	68.7	33.8	62.1	35.1	59.6	33.8	60.1	33.9
Sumter	85.2	32.9	85.2	33.6	82.2	33.8	80.8	33.5	80.7	33.5
SC 60-13459 ^{6/}	78.0	32.3	76.6	33.6	75.4	33.9	72.5	33.5		
Coker 242	102.3	36.0	93.6	36.0	89.6	35.7				
SC 59-9803 ^{6/}	86.1	34.5	90.9	34.6	86.7	35.0				
Arlington 23	62.3	32.2	65.8	33.2						
N.C. 267 ^{6/}	92.3	32.1	91.4	33.0						
N.C. 2469 ^{6/}	72.2	32.6	74.6	33.0						
N.C. 2534 ^{6/}	80.4	33.7	82.8	34.2						
N.C. 1972 ^{6/}	76.8	35.1	77.6	35.4						
Moregrain 62-11	89.1	36.3	87.6	36.9						
McNair 621 ^{6/}	89.0	33.4								
McNair 622 ^{6/}	82.5	33.6								
N.C. 312 ^{6/}	84.9	33.6								
N.C. 266 ^{6/}	88.0	33.5								
L.S.D. (.05)	14.3	1.4								
(.01)	19.3	1.9								
C.V. (%)	10	3								

^{1/} Average of Robeson, Edgecombe and Lenoir County locations.

^{2/} Average of six locations.

^{3/} Average of nine locations.

^{4/} Average of twelve locations.

^{5/} Average of fifteen locations.

^{6/} Experimental lines.

Table 9. Summary of wheat performance trials in the Piedmont

Variety or Line	1 yr. ave. ^{1/}		2 yr. ave. ^{2/}		3 yr. ave. ^{3/}		4 yr. ave. ^{4/}		5 yr. ave. ^{5/}	
	1966		1965-1966		1964-1966		1963-1966		1962-1966	
	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu
Knox	48.9	60.2	44.2	60.2	45.0	59.9	44.3	60.2	42.6	59.7
Wakeland	47.7	57.4	43.8	57.9	42.5	58.0	43.1	58.2	41.6	57.8
Ga. 1123	55.3	58.5	51.0	58.8	50.6	58.6	48.9	58.5	46.9	57.9
Knox 62	47.6	58.4	47.8	59.4	46.5	59.0	45.9	59.6	43.0	59.2
Coker 61-19	40.3	58.3	42.8	57.6	42.9	58.1				
Blueboy (N.C. 4672)	64.7	55.3	59.8	56.0	58.2	56.2				
SC 60-9149 ^{6/}	48.9	60.3	45.6	60.1						
N.C. 3831 ^{6/}	51.3	51.0								
McNair 631 ^{6/}	59.1	58.9								
N.C. 4662 ^{6/}	53.9	53.2								
Coker 65-20 ^{6/}	54.6	58.3								
N.C. 4761 ^{6/}	59.8	56.0								
McNair 632 ^{6/}	49.3	59.8								
Riley ^{6/}	52.3	59.3								
L.S.D (.05)	6.9	2.7								
(.01)	9.6	3.8								
C.V. (%)	10	2								

^{1/} Average of Guilford and Lincoln County locations.

^{2/} Average of five locations.

^{3/} Average of eight locations.

^{4/} Average of ten locations.

^{5/} Average of thirteen locations.

^{6/} Experimental lines.

Table 10. Summary of wheat performance trials in the Coastal Plain

Variety or Line	1 yr. ave. ^{1/}		2 yr. ave. ^{2/}		3 yr. ave. ^{3/}		4 yr. ave. ^{4/}		5 yr. ave. ^{5/}	
	1966		1965-1966		1964-1966		1963-1966		1962-1966	
	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu	bu/A	lbs/bu
Wakeland	36.8	54.4	42.8	56.6	42.9	56.7	43.0	57.2	42.2	57.2
Ga. 1123	47.1	55.6	46.8	56.6	46.7	56.4	46.2	57.0	45.5	56.9
Coker 61-19	29.0	55.1	32.4	56.9	37.8	57.1				
Blueboy (N.C.4672)	52.0	53.7	53.0	55.0	54.5	55.1				
N.C. 4761 ^{6/}	46.6	52.6	43.6	54.5	45.1	54.7				
N.C. 4662 ^{6/}	38.6	49.7	39.2	51.6						
N.C. 3831 ^{6/}	40.4	48.8	40.2	50.4						
SC 60-9149 ^{6/}	38.6	56.9	39.4	57.8						
McNair 631 ^{6/}	48.5	55.2								
Coker 65-20 ^{6/}	43.4	54.7								
L.S.D. (.05)	8.3	1.7								
(.01)	11.4	2.3								
C.V. (%)	9	3								

^{1/} Average of Robeson, Edgecombe and Lenoir County locations.

^{2/} Average of six locations.

^{3/} Average of nine locations.

^{4/} Average of twelve locations.

^{5/} Average of fifteen locations.

^{6/} Experimental lines.

Table 11. Lodging Data - 1966

Variety or Line	1 Yr. Avg. ^{1/}	2 Yr. Avg. ^{2/}
<u>BARLEY</u>	<u>1966</u>	<u>1965 - 1966</u>
SC 59-1018	20.6	21.6
Wade	51.9	31.4
N.C. 2900	7.5	6.7
SC 60-3239	12.5	10.6
Early Marconee	60.4	61.9
Colonial 2	93.9	83.4
N.C. 1907	57.0	48.4
Rogers	59.4	53.9
Davie	89.7	68.6
N. C. 2116	45.6	34.6
Harrison	9.4	11.6
McNair 601	49.8	
<u>OATS</u>	<u>1966</u> ^{3/}	<u>1965 - 1966</u> ^{4/}
Carolee	54.6	46.2
SC 60-13459	53.5	42.1
SC 59-9803	70.6	54.8
N.C. 2534	29.0	25.0
N.C. 1972	32.8	27.8
Moregrain 62-11	65.5	51.6
N.C. 2469	18.2	14.8
N.C. 267	19.5	16.6
Sumter	59.5	54.5
Arlington 23	81.2	71.9
Coker 242	47.8	35.9
Roanoke	50.0	38.6
McNair 621	56.5	
McNair 622	63.8	
N.C. 312	49.2	
N.C. 266		
<u>WHEAT</u>	<u>1966</u> ^{5/}	<u>1965 - 1966</u> ^{6/}
N.C. 3831	7.8	5.2
Ga. 1123	13.2	11.0
N.C. 4662	7.0	5.4
Wakeland	58.9	43.0
Coker 61-19	42.2	38.4
Blueboy (N.C. 4672)	1.8	1.7
SC 60-9149	6.2	16.0
N.C. 4761 ^{7/}	5.0	5.2
Knox 62 ^{7/}	68.2	64.7
Knox ^{7/}	56.2	53.7
McNair 631	21.0	
Coker 65-20 ^{7/}	8.8	
McNair 632 ^{7/}	58.5	
Riley ^{7/}	14.4	

^{1/} Average of two locations
^{2/} Average of six locations
^{3/} Average of five locations
^{4/} Average of eleven locations

^{5/} Average of five locations
^{6/} Average of eight locations
^{7/} Average of two locations