

FOREWORD

Personnel of the Department of Entomology, Soil, and Plant Sciences of the South Carolina Agricultural Experiment Station conducted the research reported in this publication. Tests were located at the Edisto Research and Education Center near Blackville, the Pee Dee Research and Education Center near Florence, and the Simpson Experiment Station near Clemson.

The circular was prepared by Benjamin E. Edge, III, Small Grains Breeder, and Carl W. Myers, Agricultural Science Associate. The research results and variety descriptions should provide a basis for reliable evaluations of the small grain varieties involved.

Certain of the varieties and advanced experimental strains have been tested for only one or two years. Such short-term data are considered inconclusive and are included in this publication merely as a report of progress.

For their assistance in conducting these tests, acknowledgment is made to the following individuals:

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Steve Meadows, Extension Animal Scientist and Resident Director, Edisto REC, Blackville, SC.

J. W. Chapin, Professor of Entomology, Edisto REC, Blackville, SC.

James Thomas, Agricultural Science Assoc. II, Edisto REC, Blackville, SC.

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PERFORMANCE OF SMALL GRAIN VARIETIES IN SOUTH CAROLINA

Benjamin E. Edge, III, and C. W. Myers*

Barley, oat, triticale, and wheat varieties are evaluated annually at three locations in South Carolina. Wheat is also evaluated using two planting dates. These evaluations are conducted to determine the value and adaptability of commercially available and experimental small grain varieties for planting in the state. Continued testing and evaluation are essential to provide farmers, seedsmen, and other agricultural workers with reliable information to assist them in selection of varieties best adapted to their locality and individual production requirements.

This publication contains current year and multiple year data for several standard varieties and some newer promising varieties and strains. Information is provided for yield, test weight, plant height, and heading date of the barley, oat, triticale, and wheat varieties tested. Also, some varieties are rated for pest resistance, straw strength, relative maturity, and other agronomic traits.

TEST CONDITIONS

The small grain tests at each location were planted in firm, well-prepared seedbeds. Early wheat was planted at the Simpson Station in late November while late wheat seeding was in mid-December. Tests in the Coastal Plain were planted the latter part of November and early December. Seeding dates are listed on individual tests. Triticale variety tests were seeded on or after November 15. It is very important to seed the triticale varieties after this date to minimize the chances of late spring freeze damage to the developing head/grain.

CULTURAL PRACTICES 2005-2006

Clemson:

Dates of planting:

Early: See individual crops.

Late: See individual crops.

Management: Chisel plowed and disked

Soil type: Cecil sandy clay loam

Fertilization: preplant-See individual crop locations for fertilizer amounts and soil test values.

topdress-70 lbs/acre N

Herbicide: 0.75 lb/acre 2,4-D

Plot size: planted 6 rows 12 ft. x 7 in.

harvested 6 rows 10 ft. x 7 in.

*Instructor - Small Grains Variety Test Manager and Agricultural Science Associate.

CULTURAL PRACTICES 2005-2006 (continued)

Blackville:

Date of planting: December 2, 2005

Management: Deep tillage and disked

Soil type: Varina loamy sand

Fertilization: pre-plant-see individual crop locations for fertilizer amounts and soil test values.
topdress-70 lbs/acre N

Herbicide: 0.75 lb/acre 2,4-D

Plot size: planted 6 rows 12 ft. x 7 in.
harvested 6 rows 10 ft. x 7 in.

Florence:

Date of planting: November 17, 2005.

Management: Deep tillage and disked

Soil type: Norfolk loamy sand

Fertilization: preplant-See individual crop locations for fertilizer amounts and soil test values.
topdress-70 lbs/acre N
Herbicide: 0.75 lb/acre 2,4-D

Plot size: planted 6 rows 12 ft. x 7 in.
harvested 6 rows 10 ft. x 7 in.

RECOMMENDED RATES OF FERTILIZER P₂O₅-K₂O TO APPLY TO SMALL GRAIN BASED ON
SOIL TEST LEVELS

		POTASSIUM			
		LOW	MEDIUM	HIGH	VERY HIGH
PHOSPHORUS		POUNDS P ₂ O ₅ -K ₂ O			
LOW	80-80	80-40	80-0	80-0	
MEDIUM	40-80	40-40	40-0	40-0	
HIGH	0-80	0-40	0-0	0-0	
VERY HIGH	0-80	0-40	0-0	0-0	

DIFFERENCES IN YIELD

Since experimental plots are subject to inherent soil variations, fertility differences, and other sources of variation, it is not possible to determine the exact yield potential of a variety. Therefore, all differences between varieties should be viewed with caution since they may not be "real" differences, but may have occurred by chance. Statistical aids given in each of the tables should help the reader to make valid comparisons between varieties and show the precision with which the tests were conducted. The magnitude of differences which may have been due to chance have been computed for the data presented herein and are listed at the end of each column as the L.S.D. (least significant difference).

Comparisons between varieties should be made only within columns and not between columns in the tables. In comparing varieties within a column, differences greater than the L.S.D. may be assumed to be inherent differences between varieties with 90% confidence. Differences smaller than the L.S.D. are assumed not to be real differences with 90% confidence.

Coefficients of variation, (C.V.), which are listed at the bottom of the current year data tables, reflect the relative precision and accuracy with which the test was conducted. Relatively low percentages indicate small amounts of variation within each test.

CHOICE OF VARIETIES

Many factors besides yield influence the choice of small grain varieties. Plant characteristics which should be evaluated in selecting small grain varieties include lodging resistance, plant height, relative maturity, winterhardiness, and pest resistance, in addition to test weight of the grain. Jay Chapin maintains a wheat production guide at <http://www.clemson.edu/smallgrains/>.

Varietal performance may seem inconsistent because of year-to-year variations in rainfall, temperature, pests, and other factors. Therefore, continued testing over a period of years is necessary to obtain a more reliable evaluation of variety performance.

In addition to the yearly data, multiple-year averages are reported for certain of the varieties. Whenever possible these long-term averages, rather than the 1-year results, should be used to make comparisons between varieties.

WEATHER AND PEST CONDITIONS

Soil moisture was low going in to the small grain planting season, hindering land preparation. The oat, barley, and early wheat test at Clemson were planted during the first two weeks of November. After planting started, rains occurred in the state, delaying the completion of planting. All tests at the Pee Dee REC were planted the third week of November. Tests at the Edisto REC were planted the first week of December. The late wheat at Clemson was planted the last week of December and the triticale test at Clemson was planted the second week of January. Good stands were obtained at all test locations.

Rainfall amounts for the period October 2005 through May 2006 for Clemson and Florence are listed in the table below for the test locations. Some ranges of the field at Florence had different plot lengths due to Roundup drift during the end-trimming operation. Yields were adjusted according to the actual plot length, but this resulted in slightly higher CVs for that location. Rainfall during the growing season was generally below normal at Clemson, and Blackville, but was near normal at Florence. Small grains tend to perform better in slightly dry years. It was not too dry for small grains, except that the dry spell in March stressed the crops during stem elongation and resulted in shorter than normal height for most varieties. Disease infestations such as powdery mildew and rust were generally quite low. Hessian fly levels were low at the Edisto REC and Pee REC and yield losses to fly were minimal. Barley yellow-dwarf virus infestations were minimal in the oat and barley variety tests.

Winter temperatures were relatively mild during the December to February period. But some freeze damage occurred in early maturing wheat varieties.

Monthly Rainfall at Test Locations in 2005-2006.*

Month	Year	Clemson	Florence	Blackville
		inches		
October	2005	2.91	5.07	3.31
November	2005	3.90	3.81	2.67
December	2005	5.77	3.63	4.70
January	2006	4.45	1.99	3.39
February	2006	2.09	2.61	3.00
March	2006	1.76	4.82	2.06
April	2006	3.32	1.46	2.18
May	2006	2.53	6.02	0.81
Total	2005-2006	26.73	29.41	22.12
Total (Normal)**	1951-80	37.70	29.21	24.80

* Monthly Climatological Data, Agricultural Weather Office, College of Agricultural, Forestry, and Life Sciences, Clemson University, Clemson, SC 29634.

** Same 8-month period from 1951-80.

**OAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
SIMPSON EXPERIMENT STATION, CLEMSON.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
TERRAL SEED CO.	TROPHY	93.6	34.0	83.1	34.8	11	98.5	36.3	32	4/16
NC.STATE UNIV.	BROOKS	93.5	30.6	85.0	30.9	2	111.5	32.6	34	4/17
PLANTATION SEED	HORIZON 321	93.4	33.2	83.9	33.8	5	105.7	34.8	29	4/16
NC.STATE UNIV.	RODGERS	91.8	31.8	82.5	32.7	7	105.2	32.5	32	4/17
CLEMSON UNIV.	SC961246	86.3	32.1	81.4	32.8	3	110.6	32.5	27	4/17
SOUTHERN STATES	SS76-40	85.1	32.2	77.6	32.9	13	95.6	33.9	32	4/17
PLANTATION SEED	HORIZON 474	69.2	33.7	69.9	34.7	4	106.1	35.5	29	4/14
MIXON SEED CO.	NKCOKER 820	65.6	32.0	53.5	32.4	20	72.3	32.9	30	4/14
CLEMSON UNIV.	SC010909	-	-	91.4	38.6	9	102.6	42.3	34	4/17
CLEMSON UNIV.	SC010907	-	-	89.5	39.8	12	98.3	44.1	32	4/17
CLEMSON UNIV.	SC010851	-	-	81.7	41.9	14	94.7	44.8	31	4/16
CLEMSON UNIV.	SC010104	-	-	74.9	33.1	17	90.5	32.6	33	4/18
VIGORO/RC	CABALLO	-	-	72.1	38.0	18	88.8	41.0	28	4/16
LSU	LA976GBS	-	-	65.0	32.9	6	105.5	32.7	30	4/17
UNIV. OF FLA.	FL99212	-	-	-	-	1	114.5	33.9	29	4/16
UNIV. OF FLA.	FL99201	-	-	-	-	8	104.0	30.7	32	4/16
LSU	LA99017S	-	-	-	-	10	100.1	32.7	33	4/16
UNIV. OF FLA.	FL0047	-	-	-	-	15	93.1	34.3	29	4/18
UNIV. OF FLA.	FL99123	-	-	-	-	16	90.8	33.9	32	4/15
LSU	LA9825SB	-	-	-	-	19	76.9	30.8	33	4/17
LSU	LAFL9912	-	-	-	-	21	61.1	42.5	36	4/15
AVERAGES		84.8	32.5	78.0	35.0		96.5	35.6	31	4/17
L.S.D. (.10)		7.1	1.0	8.2	1.0		12.2	1.4	2.8	
C.V. (%)		12.2	2.9	12.7	2.3		10.7	2.3	5.4	
STD. ERROR OF ENTRY MEAN		3.0	0.4	3.5	0.4		5.2	0.6	1.2	DF=60

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: NOV. 03, 2005 MANAGEMENT: CHISEL PLOW AND DISK.
HARVESTED: MAY 30, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: CECIL SANDY LOAM SEEDING RATE: 2.0 BU/AC
SOIL TEST: P=LOW, K=MEDIUM, pH=6.2
FERTILIZATION:
PREPLANT: 220 LB/AC 14-28-19
TOPDRESS: 70 LB/AC N.

BU/AC CALCULATED USING TEST WEIGHT OF 32 LB/BU

**OAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
PEE DEE RESEARCH AND EDUCATION CENTER, FLORENCE.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006---		--2-YEAR AVG.-- ---2005-2006---		RANK	-----2006 DATA-----		
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)		YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)
NC.STATE UNIV.	RODGERS	125.3	29.8	114.9	29.8	5	89.4	31.0	35
CLEMSON UNIV.	SC961246	125.1	30.0	117.5	30.3	10	76.7	31.1	28
SOUTHERN STATES	SS76-40	116.5	30.9	110.6	30.6	7	83.2	30.5	32
NC.STATE UNIV.	BROOKS	112.1	29.7	98.0	30.0	11	75.9	30.3	31
PLANTATION SEED	HORIZON 321	109.2	32.2	105.6	33.4	13	73.7	33.4	29
TERRAL SEED CO.	TROPHY	102.6	31.5	96.4	32.0	12	74.9	32.7	36
PLANTATION SEED	HORIZON 474	89.0	32.3	82.4	32.6	15	60.7	32.8	31
MIXON SEED CO.	NKCOKER 820	87.1	30.2	74.3	30.3	19	53.3	31.5	28
CLEMSON UNIV.	SC010909	-	-	120.9	35.0	1	103.1	38.7	37
CLEMSON UNIV.	SC010104	-	-	114.6	31.1	6	89.2	31.9	32
CLEMSON UNIV.	SC010907	-	-	111.8	36.9	4	95.6	40.3	36
LSU	LA976GBS	-	-	111.2	30.6	8	80.4	29.9	34
CLEMSON UNIV.	SC010851	-	-	106.3	38.4	9	77.4	40.3	34
VIGORO/RC	CABALLO	-	-	83.1	35.1	16	59.5	36.7	31
UNIV. OF FLA.	FL0047	-	-	-	-	2	101.9	33.3	29
UNIV. OF FLA.	FL99201	-	-	-	-	3	98.3	30.5	34
LSU	LA99017S	-	-	-	-	14	65.0	30.7	34
UNIV. OF FLA.	FL99123	-	-	-	-	17	57.9	31.5	35
UNIV. OF FLA.	FL99212	-	-	-	-	18	55.3	27.0	27
LSU	LA9825SB	-	-	-	-	20	51.6	29.7	33
LSU	LAF9912	-	-	-	-	21	38.9	41.1	35
AVERAGES		107.2	30.8	103.4	32.6		74.4	33.1	32
L.S.D. (.10)		8.7	1.1	8.9	1.5		14.4	2.3	3.5
C.V. (%)		11.9	3.5	10.3	3.9		16.4	4.0	6.3
STD. ERROR OF ENTRY MEAN		3.7	0.4	3.8	0.6		6.1	0.9	1.4

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: NOV. 17, 2005 MANAGEMENT: V-RIPPED AND FIELD CULTIVATED.
HARVESTED: JUNE 06, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: NORFOLK LOAMY SAND SEEDING RATE: 2.0 BU/AC
SOIL TEST: P=MEDIUM, K=MEDIUM-, pH=5.6
FERTILIZATION: LIME: 1000 LB/AC
PREPLANT: 325 LB/AC 9-24-22
TOPDRESS: 70 LB/AC N.

BU/AC CALCULATED USING TEST WEIGHT OF 32 LB/BU

**OAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
EDISTO RESEARCH AND EDUCATION CENTER, BLACKVILLE.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		RANK	-----2006 DATA-----		
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)		YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)
CLEMSON UNIV. PLANTATION SEED	SC961246 HORIZON 321	119.7 118.2	30.4 31.0	110.1 105.8	30.4 31.2	7 11	83.8 71.4	30.2 29.9	31 32
NC.STATE UNIV. SOUTHERN STATES	RODGERS SS76-40	115.5 111.1	31.0 30.2	96.9 97.8	30.3 30.0	3 4	87.6 85.2	29.7 28.9	38 36
TERRAL SEED CO. NC.STATE UNIV.	TROPHY BROOKS	104.2 102.1	31.2 28.9	81.7 77.3	31.0 28.0	12 9	70.6 73.1	30.5 26.8	37 39
PLANTATION SEED MIXON SEED CO.	HORIZON 474 NKCOKER 820	90.1 80.8	31.6 30.5	63.7 52.1	31.2 30.5	17 21	57.6 38.2	30.9 29.2	37 30
CLEMSON UNIV. CLEMSON UNIV.	SC010909 SC010104	- -	- -	99.0 90.4	36.6 29.7	1 8	96.7 78.7	37.2 29.0	36 35
CLEMSON UNIV. VIGORO/RC	SC010851 CABALLO	- -	- -	88.8 86.7	43.3 36.7	10 13	72.1 64.6	45.4 35.8	35 35
CLEMSON UNIV. LSU	SC010907 LA976GBS	- -	- -	86.2 86.0	37.1 28.1	5 18	84.9 53.8	37.7 24.7	37 37
UNIV. OF FLA. UNIV. OF FLA.	FL99212 FL0047	- -	- -	- -	- -	2 6	91.5 84.7	30.4 31.3	34 31
LSU UNIV. OF FLA.	LA9825SB FL99201	- -	- -	- -	- -	14 15	64.1 62.5	26.4 27.0	36 36
UNIV. OF FLA. LSU	FL99123 LA99017S	- -	- -	- -	- -	16 19	59.8 51.4	28.3 27.5	38 39
LSU	LAFL9912	-	-	-	-	20	38.8	39.1	43
AVERAGES		104.4	30.6	87.3	32.4		70.1	31.2	36
L.S.D. (.10)		7.9	1.3	10.8	1.4		14.8	2.3	2.1
C.V. (%)		11.1	4.3	14.9	3.6		17.9	4.3	3.4
STD. ERROR OF ENTRY MEAN		3.3	0.5	4.6	0.6		6.3	0.9	0.9

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: DEC. 02, 2005 MANAGEMENT: CHISEL PLOW AND DISK.
HARVESTED: JUNE 08, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: VARINA LOAMY SAND SEEDING RATE: 2.0 BU/AC
SOIL TEST: P=HIGH+, K=HIGH, pH=5.8
FERTILIZATION:
PREPLANT: 0 LB/AC
TOPDRESS: 70 LB/AC N.

BU/AC CALCULATED USING TEST WEIGHT OF 32 LB/BU

**BARLEY: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
SIMPSON EXPERIMENT STATION, CLEMSON.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006---		RANK	-----2006 DATA-----			
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)		YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
VIRGINIA TECH	PRICE	115.1	46.8	112.4	46.4	1	107.5	47.8	28	4/ 9
VIRGINIA TECH	THOROUGHbred	107.3	46.8	104.7	46.6	2	101.1	49.4	26	4/13
VIRGINIA TECH	DOYCE	90.4	54.9	88.3	54.0	8	83.0	57.9	27	4/11
CLEMSON UNIV.	SC010440	78.8	57.1	82.5	56.5	5	84.8	59.5	29	4/ 9
CLEMSON UNIV.	SC010047	-	-	92.3	43.1	3	91.4	47.3	32	4/11
CLEMSON UNIV.	SC010183	-	-	89.7	43.6	4	87.7	47.7	34	4/10
CLEMSON UNIV.	SC010456	-	-	83.6	56.7	7	83.2	59.3	28	4/ 8
CLEMSON UNIV.	SC010442	-	-	80.8	56.4	6	83.4	59.6	28	4/ 9
VIRGINIA TECH	VA01H-68	-	-	-	-	9	82.7	60.3	29	4/ 7
AVERAGES		97.9	51.4	91.8	50.4		89.4	54.3	29	4/10
L.S.D. (.10)		6.0	1.0	7.5	1.1		6.1	0.8	1.6	
C.V. (%)		8.8	1.9	9.7	1.7		5.7	0.8	3.0	
STD. ERROR OF ENTRY MEAN		2.5	0.4	3.2	0.4		3.4	0.3	0.6	DF=24

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: NOV. 03, 2005 MANAGEMENT: CHISEL PLOW AND DISK.
HARVESTED: MAY 23, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: CECIL SANDY LOAM SEEDING RATE: 2.0 BU/AC
SOIL TEST: P=LOW+, K=MEDIUM+, pH=6.0
FERTILIZATION:
PREPLANT: 220 LB/AC 14-28-19
TOPDRESS: 70 LB/AC N.

BU/AC CALCULATED USING TEST WEIGHT OF 48 LB/BU

**BARLEY: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
PEE DEE RESEARCH AND EDUCATION CENTER, FLORENCE.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		RANK	-----2006 DATA-----		
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)		YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)
VIRGINIA TECH	THOROUGHBRED	96.9	47.2	95.2	46.8	2	85.7	49.0	27
VIRGINIA TECH	PRICE	96.6	47.1	95.7	46.6	1	90.4	47.5	27
VIRGINIA TECH	DOYCE	86.5	55.6	86.8	56.0	3	73.2	57.6	29
CLEMSON UNIV.	SC010440	66.1	56.7	65.0	57.2	4	66.7	59.1	27
CLEMSON UNIV.	SC010047	-	-	75.2	42.8	6	65.6	44.5	30
CLEMSON UNIV.	SC010456	-	-	65.6	55.9	7	61.9	57.7	27
CLEMSON UNIV.	SC010183	-	-	64.3	42.8	5	66.2	44.8	29
CLEMSON UNIV.	SC010442	-	-	64.2	56.9	9	61.1	59.0	28
VIRGINIA TECH	VA01H-68	-	-	-	-	8	61.2	59.3	30
AVERAGES		86.5	51.7	76.5	50.6		70.2	53.1	28
L.S.D. (.10)		6.1	0.5	8.5	0.6		8.3	0.6	1.9
C.V. (%)		10.1	0.8	12.4	0.9		9.8	0.6	3.6
STD. ERROR OF ENTRY MEAN		2.5	0.2	3.6	0.2		3.4	0.2	0.7
DF=24									

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: NOV. 17, 2005 MANAGEMENT: V-RIPPED AND FIELD CULTIVATED
HARVESTED: MAY 25, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: NORFOLK LOAMY SAND SEEDING RATE: 2.0 BU/AC
SOIL TEST: P=MEDIUM, K=MEDIUM-, pH=5.6
FERTILIZATION: LIME: 1000 LB/AC
PREPLANT: 325 LB/AC 9-24-22
TOPDRESS: 70 LB/AC N.

BU/AC CALCULATED USING TEST WEIGHT OF 48 LB/BU

**BARLEY: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
EDISTO RESEARCH AND EDUCATION CENTER, BLACKVILLE.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		RANK	-----2006 DATA-----		
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)		YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)
VIRGINIA TECH	PRICE	95.5	46.7	89.1	47.5	1	88.0	49.5	26
VIRGINIA TECH	THOROUGHbred	87.4	46.5	81.3	46.9	2	72.9	49.7	29
CLEMSON UNIV.	SC010440	73.8	57.3	74.8	56.9	7	63.1	58.5	32
VIRGINIA TECH	DOYCE	72.1	54.0	70.8	53.3	3	71.6	57.6	29
CLEMSON UNIV.	SC010047	-	-	77.0	43.9	6	67.3	46.6	31
CLEMSON UNIV.	SC010183	-	-	75.3	44.2	4	69.7	46.7	30
CLEMSON UNIV.	SC010456	-	-	75.3	56.5	5	68.4	58.3	31
CLEMSON UNIV.	SC010442	-	-	67.6	55.9	8	59.7	58.3	33
VIRGINIA TECH	VA01H-68	-	-	-	-	9	45.8	58.7	27
AVERAGES		82.2	51.1	76.4	50.6		67.4	53.7	30
L.S.D. (.10)		8.7	1.2	12.3	1.6		14.2	0.9	4.6
C.V. (%)		15.2	2.3	19.1	2.6		17.4	0.9	8.4
STD. ERROR OF ENTRY MEAN		3.6	0.5	5.2	0.7		5.9	0.4	1.8
DF=24									

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: DEC.02, 2005 MANAGEMENT: CHISEL PLOW AND DISK.
HARVESTED: MAY 24, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: VARINA LOAMY SAND SEEDING RATE: 2.0 BU/AC
SOIL TEST: P=HIGH+, K=HIGH, pH=5.8
FERTILIZATION:
PREPLANT: 0 LB/AC
TOPDRESS: 70 LB/AC N.

BU/AC CALCULATED USING TEST WEIGHT OF 48 LB/BU

**TRITICALE: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
SIMPSON EXPERIMENT STATION, CLEMSON.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
RESOURCE SEEDS	TRICAL 342	116.8	51.1	119.0	50.4	1	83.6	52.2	-	4/21
RESOURCE SEEDS	TRICAL 314	113.4	50.8	121.3	50.0	2	83.4	50.1	-	4/21
AGSOUTH GENETICS	AGS2000 *	77.0	55.9	78.5	55.0	9	49.6	54.2	-	4/26
UNIV. OF FLA.	FL0009H6	-	-	-	-	3	76.1	53.7	-	4/20
UNIV. OF FLA.	FL0005H4	-	-	-	-	4	73.4	50.5	-	4/20
UNIV. OF FLA.	FL0005H3	-	-	-	-	5	67.7	51.5	-	4/20
UNIV. OF FLA.	FL0008H3	-	-	-	-	6	63.7	49.0	-	4/20
UNIV. OF FLA.	FL0008H8	-	-	-	-	7	63.0	51.2	-	4/20
UNIV. OF FLA.	FL007H11	-	-	-	-	8	59.1	51.2	-	4/21
UNIV. OF FLA.	FL93072	-	-	-	-	10	48.4	48.7	-	4/21
SOU. WILDLIFE	MONARCH	-	-	-	-	11	47.9	47.9	-	4/24
UNIV. OF FLA.	FL93054	-	-	-	-	12	40.9	44.9	-	4/23
AVERAGES		102.5	52.6	106.3	51.8		63.2	50.4		4/22
L.S.D. (.10)		5.8	0.9	8.6	1.4		10.8	2.6		
C.V. (%)		8.0	1.6	9.1	1.8		14.3	2.9		
STD. ERROR OF ENTRY MEAN		2.4	0.3	3.4	0.5		4.5	1.0		DF=33

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: JAN. 9, 2006 MANAGEMENT: CHISEL PLOW AND DISK.
HARVESTED: JUNE 15, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: CECIL SANDY LOAM SEEDING RATE: 3.0 BU/AC
SOIL TEST: P=MEDIUM-, K=MEDIUM+, pH=6.4
FERTILIZATION:
PREPLANT: 220 LB/AC 14-28-19
TOPDRESS: 70 LB/AC N.
* WHEAT, BU/AC CALCULATED USING TEST WEIGHT OF 60 LB/BU

TRITICALE, BU/AC CALCULATED USING TEST WEIGHT OF 48 LB/BU

**TRITICALE: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
PEE DEE RESEARCH AND EDUCATION CENTER, FLORENCE.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
RESOURCE SEEDS	TRICAL 342	107.9	51.5	113.2	51.7	1	117.8	52.8	48	
RESOURCE SEEDS	TRICAL 314	107.9	51.3	109.5	51.9	2	111.4	53.4	35	
AGSOUTH GENETICS	AGS2000 *	78.5	57.0	83.2	57.3	7	89.8	57.7	34	
UNIV. OF FLA.	FL0005H3	-	-	-	-	3	102.9	52.5	39	
UNIV. OF FLA.	FL0005H4	-	-	-	-	4	100.0	52.9	42	
UNIV. OF FLA.	FL0008H8	-	-	-	-	5	91.3	53.5	44	
UNIV. OF FLA.	FL0009H6	-	-	-	-	6	90.4	53.5	46	
UNIV. OF FLA.	FL0008H3	-	-	-	-	8	89.8	53.9	43	
UNIV. OF FLA.	FL93054	-	-	-	-	9	89.7	51.0	39	
SOU. WILDLIFE	MONARCH	-	-	-	-	10	89.6	53.1	46	
UNIV. OF FLA.	FL93072	-	-	-	-	11	86.7	52.6	49	
UNIV. OF FLA.	FL007H11	-	-	-	-	12	74.6	52.5	44	
AVERAGES		98.1	53.2	102.0	53.6		94.5	53.3	42	
L.S.D. (.10)		5.5	0.4	7.6	0.5		7.3	0.8	2.2	
C.V. (%)		7.9	0.7	8.4	0.6		6.5	0.9	2.9	
STD. ERROR OF ENTRY MEAN		2.2	0.2	3.0	0.2		3.1	0.3	0.9	DF=33

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: NOV. 17, 2005 MANAGEMENT: V-RIPPED AND FIELD CULTIVATED.
HARVESTED: JUNE 06, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: NORFOLK LOAMY SAND SEEDING RATE: 3.0 BU/AC
SOIL TEST: P=MEDIUM, K=MEDIUM-, pH=5.6
FERTILIZATION: LIME: 1000 LB/AC
PREPLANT: 325 LB/AC 9-24-22
TOPDRESS: 70 LB/AC N.
* WHEAT, BU/AC CALCULATED USING TEST WEIGHT OF 60 LB/BU

TRITICALE, BU/AC CALCULATED USING TEST WEIGHT OF 48 LB/BU

**TRITICALE: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
EDISTO RESEARCH AND EDUCATION CENTER, BLACKVILLE.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
RESOURCE SEEDS	TRICAL 342	126.3	50.5	128.1	49.0	1	98.1	52.3	45	
RESOURCE SEEDS	TRICAL 314	114.5	50.5	114.6	48.5	2	92.7	52.3	36	
AGSOUTH GENETICS	AGS2000 *	94.4	56.9	96.7	55.8	3	92.6	57.3	36	
UNIV. OF FLA.	FL0009H6	-	-	-	-	4	86.6	54.1	48	
UNIV. OF FLA.	FL0005H3	-	-	-	-	5	81.9	50.9	37	
UNIV. OF FLA.	FL0005H4	-	-	-	-	6	78.7	51.1	40	
UNIV. OF FLA.	FL0008H3	-	-	-	-	7	75.5	54.2	43	
UNIV. OF FLA.	FL0008H8	-	-	-	-	8	75.4	53.1	42	
UNIV. OF FLA.	FL93072	-	-	-	-	9	69.9	51.4	47	
UNIV. OF FLA.	FL007H11	-	-	-	-	10	68.4	53.4	47	
SOU. WILDLIFE	MONARCH	-	-	-	-	11	52.9	51.0	45	
UNIV. OF FLA.	FL93054	-	-	-	-	12	52.1	50.0	37	
AVERAGES		111.8	52.6	113.1	51.1		77.1	52.6	42	
L.S.D. (.10)		5.9	0.6	8.3	0.8		5.9	0.8	2.9	
C.V. (%)		7.5	1.1	8.2	1.0		6.4	0.9	3.8	
STD. ERROR OF ENTRY MEAN		2.4	0.2	3.3	0.3		2.5	0.3	1.1	DF=33

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: DEC. 02, 2005 MANAGEMENT: CHISEL PLOW AND DISK.
HARVESTED: JUNE 08, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: VARINA LOAMY SAND SEEDING RATE: 3.0 BU/AC
SOIL TEST: P=HIGH+, K=HIGH, pH=5.8
FERTILIZATION:
PREPLANT: 0 LB/AC
TOPDRESS: 70 LB/AC N.
* WHEAT, BU/AC CALCULATED USING TEST WEIGHT OF 60 LB/BU

TRITICALE, BU/AC CALCULATED USING TEST WEIGHT OF 48 LB/BU

**WHEAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
SIMPSON EXPERIMENT STATION, CLEMSON. - EARLY PLANTING. CONT.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
PIONEER	26R12	101.7	57.4	105.4	57.6	8	91.8	59.1	-	4/14
PIONEER	26R24	101.4	56.5	108.9	56.2	1	100.4	57.7	-	4/12
AGRIPRO COKER	PANOLA	98.1	55.3	99.6	55.5	10	91.2	56.9	-	4/11
UNISOUTH GENETICS	USG 3209	97.0	56.7	98.8	56.6	9	91.6	58.0	-	4/13
PIONEER	26R31	94.2	56.6	101.6	57.0	14	89.8	58.2	-	4/12
UNISOUTH GENETICS	USG 3592	94.2	56.2	98.2	56.3	15	89.4	57.4	-	4/13
PIONEER	26R61	93.0	56.2	99.4	56.7	24	83.7	57.7	-	4/13
AGRIPRO COKER	CRAWFORD	90.8	56.4	95.6	56.5	34	81.1	58.5	-	4/12
AGRIPRO COKER	COKER 9184	90.6	57.9	96.9	58.5	22	84.6	60.2	-	4/14
VIRGINIA TECH	McCORMICK	90.3	57.3	97.3	57.4	26	83.3	58.6	-	4/14
NC.STATE UNIV.	NC00-15332	88.8	54.7	94.1	54.8	28	83.0	55.8	-	4/13
UNIV.OF MARYLAND	CHOPTANK	86.7	55.9	93.6	57.0	31	81.2	58.3	-	4/13
NC.STATE UNIV.	NC-NEUSE	85.2	57.0	90.9	57.1	35	81.1	58.5	-	4/14
VIGORO/RC	MCINTOSH	84.0	56.9	87.5	57.0	38	79.6	58.7	-	4/12
AGSOUTH GENETICS	AGS 2000	83.0	56.8	82.5	56.9	2	99.2	58.4	-	4/12
CLEMSON UNIV.	SC 996284	81.1	56.3	83.9	56.9	11	91.1	59.4	-	4/13
AGRIPRO COKER	COKER 9553	-	-	105.0	57.7	7	93.0	58.9	-	4/11
UNIV. OF MARYLAND	CHESAPEAKE	-	-	102.5	56.5	12	90.5	58.0	-	4/12
SOUTHERN STATES	SS 8308	-	-	101.6	56.5	5	94.5	58.0	-	4/13
SOUTHERN STATES	SS 8404	-	-	101.1	57.5	17	87.9	58.4	-	4/13
VIGORO/RC	DOMINION	-	-	100.4	56.2	6	93.3	58.0	-	4/13
TERRAL SEED CO.	LA 482	-	-	99.4	56.3	20	85.9	58.3	-	4/12
CLEMSON UNIV.	SC 0110329	-	-	96.6	57.8	21	84.6	59.0	-	4/10
CLEMSON UNIV.	SC 013787	-	-	96.4	55.7	29	82.8	57.8	-	4/10
UNIV. OF GA.	GA 951216-2E26	-	-	91.9	56.5	27	83.1	58.4	-	4/12
SOUTHERN STATES	SS 535	-	-	89.2	57.3	41	79.3	58.3	-	4/13
AGRIPRO COKER	COKER 9436	-	-	86.4	55.0	37	79.9	56.4	-	4/16
AGSOUTH GENETICS	AGS 2010	-	-	85.2	56.3	44	78.1	59.1	-	4/ 9
LA STATE UNIV.	LA 95135D54	-	-	81.0	55.2	30	81.6	57.0	-	4/13
PLANTATION SEED	FLEMING	-	-	80.4	55.5	18	87.1	57.9	-	4/11
AGSOUTH GENETICS	AGS 2060	-	-	78.1	57.0	40	79.3	59.7	-	4/13
SOUTHERN STATES	SS 520	-	-	74.6	55.4	47	74.9	56.5	-	4/11

**WHEAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
SIMPSON EXPERIMENT STATION, CLEMSON. - EARLY PLANTING. CONT.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
SOUTHERN STATES	SS 8641	-	-	-	-	3	96.8	58.7	-	4/12
UNISOUTH GENETICS	USG 3295	-	-	-	-	4	95.4	58.7	-	4/12
PIONEER	26R87	-	-	-	-	13	89.8	60.7	-	4/11
UNIV. OF GA.	GA951395-3A31	-	-	-	-	16	89.0	58.9	-	4/12
UNIV. OF GA.	GA96229-3E39	-	-	-	-	19	86.8	56.9	-	4/11
CLEMSON UNIV.	SC021348	-	-	-	-	23	84.2	56.6	-	4/11
VIGORO/RC	VRWX2502	-	-	-	-	25	83.4	58.0	-	4/15
AGRIPRO COKER	B990133	-	-	-	-	32	81.2	58.5	-	4/12
CLEMSON UNIV.	SC027641	-	-	-	-	33	81.1	56.8	-	4/12
CLEMSON UNIV.	SC027634	-	-	-	-	36	80.6	56.5	-	4/12
LA STATE UNIV.	LA97113UC	-	-	-	-	39	79.6	58.6	-	4/13
CLEMSON UNIV.	SC027631	-	-	-	-	42	79.3	57.0	-	4/12
CLEMSON UNIV.	SC027743	-	-	-	-	43	79.2	57.6	-	4/14
CLEMSON UNIV.	SC027925	-	-	-	-	45	76.6	57.3	-	4/13
CLEMSON UNIV.	SC027721	-	-	-	-	46	76.3	57.7	-	4/14
UNIV. OF FLA.	FL98031	-	-	-	-	48	72.4	58.0	-	4/15
UNIV. OF FLA.	FL91226	-	-	-	-	49	72.1	56.5	-	4/14
CLEMSON UNIV.	SC027918	-	-	-	-	50	71.7	57.1	-	4/14
AVERAGES		91.3	56.5	94.3	56.6		84.6	58.0		4/13
L.S.D. (.10)		4.7	0.7	6.2	0.7		7.3	1.0		
C.V. (%)		7.6	1.2	8.0	1.0		7.3	1.1		
STD. ERROR OF ENTRY MEAN		2.0	0.3	2.7	0.3		3.1	0.7		DF=147

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: NOV. 11, 2005 MANAGEMENT: CHISEL PLOW AND DISK.
HARVESTED: JUNE 12, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: CECIL SANDY LOAM SEEDING RATE: 1.5 BU/AC
SOIL TEST: P=LOW, K=HIGH, pH=6.0
FERTILIZATION:
PREPLANT: 220 LB/AC 14-28-19
TOPDRESS: 70 LB/AC N.

BU/AC CALCULATED USING TEST WEIGHT OF 60 LB/BU

**WHEAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
SIMPSON EXPERIMENT STATION, CLEMSON. - LATE PLANTING. CONT.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
AGSOUTH GENETICS	AGS 2000	83.4	56.4	85.8	57.2	1	81.9	59.3	-	4/21
PIONEER	26R61	81.5	57.4	87.0	58.0	6	73.5	59.4	-	4/21
PIONEER	26R24	81.3	55.3	86.5	56.5	13	72.1	57.9	-	4/21
AGRIPRO COKER	PANOLA	80.8	55.1	82.7	55.4	18	70.7	57.0	-	4/21
UNISOUTH GENETICS	USG 3209	80.0	55.8	82.1	56.4	17	71.0	58.5	-	4/20
UNISOUTH GENETICS	USG 3592	78.9	56.4	83.1	57.1	10	73.2	59.4	-	4/21
PIONEER	26R31	77.2	55.9	83.2	56.4	22	68.5	57.4	-	4/21
CLEMSON UNIV.	SC 996284	76.5	56.5	80.0	56.5	28	66.0	57.7	-	4/19
PIONEER	26R12	75.3	57.4	76.8	57.8	16	71.1	59.3	-	4/24
NC.STATE UNIV.	NC00-15332	73.4	54.7	76.9	54.8	31	65.2	56.7	-	4/22
VIRGINIA TECH	McCORMICK	70.5	56.8	78.5	57.2	19	70.4	59.3	-	4/21
AGRIPRO COKER	COKER 9184	69.9	57.8	72.6	58.2	39	61.0	59.6	-	4/23
UNIV.OF MARYLAND	CHOPTANK	67.4	55.5	73.1	56.6	45	58.8	58.8	-	4/23
AGRIPRO COKER	CRAWFORD	65.7	56.1	68.6	56.1	49	50.5	57.3	-	4/22
NC.STATE UNIV.	NC-NEUSE	64.8	56.7	66.7	56.8	38	62.5	58.8	-	4/24
VIGORO/RC	MCINTOSH	61.6	55.3	57.8	56.4	50	38.2	57.7	-	4/22
SOUTHERN STATES	SS 8308	-	-	86.3	57.0	3	77.1	58.7	-	4/22
AGRIPRO COKER	COKER 9553	-	-	86.1	57.6	20	69.7	59.0	-	4/18
TERRAL SEED CO.	LA 482	-	-	83.7	56.8	5	74.8	58.8	-	4/20
UNIV. OF MARYLAND	CHESAPEAKE	-	-	81.8	56.9	7	73.5	58.0	-	4/23
SOUTHERN STATES	SS 520	-	-	81.7	56.0	9	73.4	57.7	-	4/17
PLANTATION SEED	FLEMING	-	-	80.9	57.4	14	71.7	59.8	-	4/17
LA STATE UNIV.	LA 95135D54	-	-	79.2	55.4	21	69.2	57.6	-	4/20
VIGORO/RC	DOMINION	-	-	79.1	55.6	4	75.0	56.9	-	4/21
AGSOUTH GENETICS	AGS 2060	-	-	79.0	58.4	37	62.6	59.6	-	4/20
CLEMSON UNIV.	SC 0110329	-	-	78.6	57.2	25	67.5	58.7	-	4/19
AGSOUTH GENETICS	AGS 2010	-	-	78.6	56.6	40	60.6	58.7	-	4/17
SOUTHERN STATES	SS 535	-	-	77.8	57.8	35	64.0	59.4	-	4/23
UNIV. OF GA.	GA 951216-2E26	-	-	77.6	57.1	27	66.7	59.1	-	4/21
SOUTHERN STATES	SS 8404	-	-	74.3	56.9	15	71.2	59.0	-	4/22
CLEMSON UNIV.	SC 013787	-	-	73.6	55.6	44	58.9	58.2	-	4/17
AGRIPRO COKER	COKER 9436	-	-	69.4	54.4	42	60.1	56.7	-	4/24

WHEAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE SIMPSON EXPERIMENT STATION, CLEMSON. - LATE PLANTING.

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
UNISOUTH GENETICS UNIV. OF GA.	USG 3295 GA951395-3A31	-	-	-	-	2	78.3	58.7	-	4/21
		-	-	-	-	8	73.4	58.5	-	4/21
SOUTHERN STATES LA STATE UNIV.	SS 8641 LA97113UC	-	-	-	-	11	72.6	57.1	-	4/19
		-	-	-	-	12	72.3	59.6	-	4/22
CLEMSON UNIV.	SC021348	-	-	-	-	23	68.1	57.3	-	4/17
CLEMSON UNIV.	SC027634	-	-	-	-	24	67.6	56.5	-	4/21
CLEMSON UNIV. UNIV. OF GA.	SC027918 GA96229-3E39	-	-	-	-	26	67.1	57.1	-	4/22
		-	-	-	-	29	65.8	58.7	-	4/19
CLEMSON UNIV. UNIV. OF FLA.	SC027721 FL91226	-	-	-	-	30	65.3	57.3	-	4/22
		-	-	-	-	32	64.1	55.9	-	4/22
CLEMSON UNIV.	SC027743	-	-	-	-	33	64.1	57.6	-	4/23
CLEMSON UNIV.	SC027925	-	-	-	-	34	64.1	57.3	-	4/21
CLEMSON UNIV.	SC027641	-	-	-	-	36	63.2	57.2	-	4/21
CLEMSON UNIV.	SC027631	-	-	-	-	41	60.3	57.0	-	4/20
PIONEER	26R87	-	-	-	-	43	59.0	59.8	-	4/19
AGRIPRO COKER	B990133	-	-	-	-	46	57.8	58.2	-	4/21
UNIV. OF FLA.	FL98031	-	-	-	-	47	57.5	57.8	-	4/22
VIGORO/RC	VRWX2502	-	-	-	-	48	57.5	58.0	-	4/25
AVERAGES		74.3	56.2	78.3	56.7		66.6	58.2		4/21
L.S.D. (.10)		4.3	0.6	5.4	0.7		6.9	0.9		
C.V. (%)		8.1	1.2	9.5	1.1		8.8	0.9		
STD. ERROR OF ENTRY MEAN		1.8	0.3	2.3	0.3		2.9	0.4		DF=147

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: DEC.23, 2005 MANAGEMENT: CHISEL PLOW AND DISK.
HARVESTED: JUNE 15, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: CECIL SANDY LOAM SEEDING RATE: 1.5 BU/AC
SOIL TEST: P=MEDIUM-, K=MEDIUM, pH=6.2
FERTILIZATION:
PREPLANT: 220 LB/AC 14-28-19
TOPDRESS: 70 LB/AC N.

BU/AC CALCULATED USING TEST WEIGHT OF 60 LB/BU

**WHEAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
PEE DEE RESEARCH AND EDUCATION CENTER, FLORENCE. CONT.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
PIONEER	26R24	83.7	56.9	86.1	57.2	2	88.5	57.7	-	
AGSOUTH GENETICS	AGS 2000	83.6	57.2	85.2	57.6	1	93.3	58.2		
-										
UNISOUTH GENETICS	USG 3592	81.3	56.3	85.8	56.9	8	78.6	57.9	-	
NC STATE UNIV.	NC00-15332	78.6	55.2	74.6	55.2	12	77.0	55.8		
-										
PIONEER	26R12	76.9	56.1	73.5	55.9	5	81.9	57.8	-	
VIGORO/RC	MCINTOSH	73.1	56.3	72.3	56.5	11	77.1	57.4		
-										
PIONEER	26R31	73.0	56.3	69.7	56.5	38	58.7	56.8	-	
AGRIPRO COKER	COKER 9184	67.3	56.7	63.8	57.2	20	71.1	58.3		
-										
UNISOUTH GENETICS	USG 3209	65.8	56.1	65.5	55.7	24	67.2	57.2	-	
CLEMSON UNIV.	SC 996284	65.5	56.7	64.2	57.3	34	60.6	57.4	-	
-										
AGRIPRO COKER	PANOLA	65.2	55.2	59.2	55.6	43	52.8	55.9	-	
AGRIPRO COKER	CRAWFORD	64.7	56.2	65.3	56.3	36	60.1	56.9		
-										
NC.STATE UNIV.	NC-NEUSE	64.4	56.3	60.1	56.5	31	61.5	57.6	-	
VIRGINIA TECH	McCORMICK	64.1	56.3	60.6	56.2	17	74.3	58.6		
-										
UNIV.OF MARYLAND	CHOPTANK	62.6	54.8	60.7	54.2	15	75.7	58.0	-	
PIONEER	26R61	61.6	57.0	58.7	57.1	30	62.2	58.2		
-										
TERRAL SEED CO.	LA 482	-	-	78.7	56.6	4	86.9	57.4	-	
CLEMSON UNIV.	SC 0110329	-	-	78.1	57.6	25	67.1	57.8		
-										
CLEMSON UNIV.	SC 013787	-	-	77.8	56.1	18	71.9	56.8	-	
UNIV. OF MARYLAND	CHESAPEAKE	-	-	77.2	55.4	3	87.4	57.0	-	
-										
VIGORO/RC	DOMINION	-	-	74.8	55.2	10	77.8	55.9	-	
LA STATE UNIV.	LA 95135D54	-	-	74.1	56.4	13	76.1	56.5		
-										
SOUTHERN STATES	SS 8308	-	-	73.0	57.6	14	75.8	58.4	-	
AGRIPRO COKER	COKER 9436	-	-	72.8	53.6	9	78.4	55.4		
-										
AGRIPRO COKER	COKER 9553	-	-	72.3	57.6	26	64.7	57.7	-	
SOUTHERN STATES	SS 535	-	-	68.6	56.4	22	68.8	58.1		
-										
PLANTATION SEED	FLEMING	-	-	64.2	56.0	19	71.5	57.7	-	
AGSOUTH GENETICS	AGS 2060	-	-	63.1	58.0	42	54.0	57.9		
-										
SOUTHERN STATES	SS 520	-	-	59.7	56.0	28	62.7	56.8	-	
UNIV. OF GA.	GA 951216-2E26	-	-	58.9	57.0	40	55.7	57.1	-	
-										
SOUTHERN STATES	SS 8404	-	-	58.1	56.0	48	37.1	54.9	-	
AGSOUTH GENETICS	AGS 2010	-	-	53.1	57.7	47	40.9	58.2		

**WHEAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
PEE DEE RESEARCH AND EDUCATION CENTER, FLORENCE.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
SOUTHERN STATES UNIV. OF FLA.	SS 8641 FL91226	-	-	-	-	6	81.6	57.9	-	
CLEMSON UNIV. VIGORO/RC	SC027721 VRWX2502	-	-	-	-	16	74.6	56.2	-	
UNIV. OF GA. PIONEER	GA951395-3A31 26R87	-	-	-	-	23	68.1	57.8	-	
LA STATE UNIV. UNIV. OF FLA.	LA97113UC FL98031	-	-	-	-	29	62.7	56.8	-	
CLEMSON UNIV. UNISOUTH GENETICS	SC027743 USG 3295	-	-	-	-	33	60.7	56.8	-	
CLEMSON UNIV. UNIV. OF GA.	SC021348 GA96229-3E39	-	-	-	-	37	59.1	55.9	-	
CLEMSON UNIV. AGRIPRO COKER	SC027925 B990133	-	-	-	-	41	54.2	56.8	-	
CLEMSON UNIV. CLEMSON UNIV.	SC027918 SC027631	-	-	-	-	45	48.7	56.5	-	
CLEMSON UNIV. CLEMSON UNIV.	SC027641 SC027634	-	-	-	-	49	34.4	57.4	-	
AVERAGES		70.7	56.2	70.1	56.4		65.7	57.2		
L.S.D. (.10)		7.2	0.9	9.8	1.0		12.1	1.0		
C.V. (%)		15.0	1.6	15.7	1.5		15.6	1.1		
STD. ERROR OF ENTRY MEAN		3.1	0.4	4.2	0.4		5.1	0.4		DF=147

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: NOV. 17, 2005 MANAGEMENT: V-RIPPED AND FIELD CULTIVATED.
HARVESTED: JUNE 07, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: NORFOLK LOAMY SAND SEEDING RATE: 1.5 BU/AC
SOIL TEST: P=MEDIUM, K=MEDIUM-, pH=5.6
FERTILIZATION: LIME: 1000 LB/AC
PREPLANT: 325 LB/AC 9-24-22
TOPDRESS: 70 LB/AC N.

BU/AC CALCULATED USING TEST WEIGHT OF 60 LB/BU

**WHEAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
EDISTO RESEARCH AND EDUCATION CENTER, BLACKVILLE. CONT.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
PIONEER	26R24	104.6	56.9	108.3	56.0	2	94.7	57.6	36	
AGSOUTH GENETICS	AGS 2000	100.5	57.3	100.1	56.1	1	97.3	58.0	37	
UNISOUTH GENETICS	USG 3592	98.2	56.7	102.0	56.0	3	94.1	57.8	37	
AGRIPRO COKER	PANOLA	94.7	54.6	95.1	53.6	9	89.0	55.5	35	
UNISOUTH GENETICS	USG 3209	92.4	55.6	95.6	54.6	14	86.9	55.9	35	
PIONEER	26R61	90.9	57.3	94.3	56.3	11	88.8	58.8	38	
CLEMSON UNIV.	SC 996284	89.6	56.5	95.6	56.5	8	89.3	58.2	40	
PIONEER	26R12	88.2	57.4	89.8	56.6	20	83.2	58.6	32	
PIONEER	26R31	87.9	56.0	93.1	54.9	26	81.7	57.4	31	
VIGORO/RC	MCINTOSH	86.4	57.2	87.7	56.4	31	80.3	57.6	36	
NC.STATE UNIV.	NC00-15332	86.3	54.0	86.0	52.7	30	80.5	54.9	35	
VIRGINIA TECH	McCORMICK	85.0	57.4	84.1	56.7	23	82.9	58.5	33	
AGRIPRO COKER	COKER 9184	82.6	58.3	81.0	57.3	37	79.1	59.0	33	
AGRIPRO COKER	CRAWFORD	79.9	56.1	81.1	55.6	48	66.4	57.2	34	
NC.STATE UNIV.	NC-NEUSE	74.4	56.8	74.3	55.7	45	68.8	58.3	32	
UNIV.OF MARYLAND	CHOPTANK	73.0	54.4	68.0	52.8	49	64.0	55.1	28	
AGRIPRO COKER	COKER 9553	-	-	96.5	56.4	17	83.6	57.9	35	
SOUTHERN STATES	SS 8308	-	-	96.4	55.5	7	89.7	57.5	34	
CLEMSON UNIV.	SC 0110329	-	-	94.9	56.4	12	88.7	58.7	40	
PLANTATION SEED	FLEMING	-	-	92.6	55.5	21	83.2	57.4	34	
TERRAL SEED CO.	LA 482	-	-	92.1	54.7	15	86.1	56.4	36	
VIGORO/RC	DOMINION	-	-	90.9	53.1	10	88.9	54.3	32	
LA STATE UNIV.	LA 95135D54	-	-	86.4	54.4	25	82.0	56.9	36	
AGRIPRO COKER	COKER 9436	-	-	86.3	52.5	16	85.9	55.6	32	
UNIV. OF MARYLAND	CHESAPEAKE	-	-	85.8	55.6	39	78.4	57.2	32	
CLEMSON UNIV.	SC 013787	-	-	85.1	54.2	41	75.7	56.3	37	
UNIV. OF GA.	GA 951216-2E26	-	-	85.1	56.5	33	80.2	57.8	36	
AGSOUTH GENETICS	AGS 2060	-	-	83.1	58.1	46	67.7	59.9	41	
SOUTHERN STATES	SS 535	-	-	80.6	55.3	44	72.6	57.4	31	
SOUTHERN STATES	SS 8404	-	-	80.4	55.7	47	67.0	57.7	33	
AGSOUTH GENETICS	AGS 2010	-	-	78.5	55.8	50	62.1	57.9	35	
SOUTHERN STATES	SS 520	-	-	77.4	53.4	43	73.4	56.1	34	

**WHEAT: RESULTS OF THE VARIETY PERFORMANCE TRIALS AT THE
EDISTO RESEARCH AND EDUCATION CENTER, BLACKVILLE.**

COMPANY OR BRAND NAME	VARIETY OR STRAIN	--3-YEAR AVG.-- ---2004-2006--		--2-YEAR AVG.-- ---2005-2006--		-----2006 DATA-----				
		YIELD (BU/A)	TEST WEIGHT (LB/BU)	YIELD (BU/A)	TEST WEIGHT (LB/BU)	RANK	YIELD (BU/A)	TEST WEIGHT (LB/BU)	PLANT HEIGHT (IN)	50% HEADED (DATE)
UNIV. OF GA.	GA951395-3A31	-	-	-	-	4	92.7	57.6	32	
UNISOUTH GENETICS	USG 3295	-	-	-	-	5	91.9	57.5	33	
LA STATE UNIV. PIONEER	LA97113UC 26R87	-	-	-	-	6 13	91.4 88.5	58.5 59.9	36 35	
CLEMSON UNIV. SOUTHERN STATES	SC027925 SS 8641	-	-	-	-	18 19	83.5 83.3	56.7 56.8	40 33	
UNIV. OF FLA. CLEMSON UNIV.	FL91226 SC027631	-	-	-	-	22 24	83.1 82.4	53.2 56.9	37 36	
CLEMSON UNIV. AGRIPRO COKER	SC027918 B990133	-	-	-	-	27 28	81.6 81.4	57.3 57.7	38 34	
CLEMSON UNIV. CLEMSON UNIV.	SC021348 SC027743	-	-	-	-	29 32	80.9 80.2	55.9 56.8	33 38	
CLEMSON UNIV. UNIV. OF GA.	SC027634 GA96229-3E39	-	-	-	-	34 35	79.5 79.3	56.5 55.8	36 36	
CLEMSON UNIV. CLEMSON UNIV.	SC027721 SC027641	-	-	-	-	36 38	79.2 78.7	56.1 55.9	37 36	
UNIV. OF FLA. VIGORO/RC	FL98031 VRWX2502	-	-	-	-	40 42	77.0 74.0	57.6 56.5	37 30	
AVERAGES		88.4	56.4	88.3	55.3		81.6	57.1	35	
L.S.D. (.10)		4.6	0.9	6.0	0.6		8.6	0.8	2.1	
C.V. (%)		7.7	1.7	8.2	1.0		9.0	0.8	3.5	
STD. ERROR OF ENTRY MEAN		2.0	0.4	2.6	0.3		3.7	0.3	0.9	DF=147

REFER TO PAGE 3 FOR AN EXPLANATION OF THE STATISTICAL MEAN SEPARATIONS (LSD) AND TEST PRECISION (C.V.).

PLANTED: DEC. 02, 2005 MANAGEMENT: CHISEL PLOW AND DISK.
HARVESTED: JUNE 09, 2006 HERBICIDE: 0.75 LB/ACRE 2,4-D
SOIL TYPE: VARINA LOAMY SAND SEEDING RATE: 1.5 BU/AC
SOIL TEST: P=HIGH+, K=HIGH, pH=5.8
FERTILIZATION:
PREPLANT: 0 LB/AC
TOPDRESS: 70 LB/AC N.

BU/AC CALCULATED USING TEST WEIGHT OF 60 LB/BU

Names of Agencies and Companies Sponsoring Entries in South Carolina Small Grain Variety Tests,
2005-2006

Originator and/or Seed Source	Variety, Strain, or Brand/Variety
AGSouth Genetics, LLC P.O. Box 72246 Albany, GA 31708-2246	AGS 2000, AGS 2060 brand wheat varieties
Florida Agricultural Exp. Sta.	FL experimental lines
Georgia Agricultural Exp. Sta.	GA experimental lines
Louisiana Ag. Exp. Station	LA experimental lines
Mixon Seed Co. Orangeburg, SC	Coker 820 oat
NC Agricultural Exp. Station / NC Foundation Seed Producers	Brooks, Rodgers, NC-98-197N oats; Boone barley; NC-Neuse wheat and NC experimental lines
Pioneer Hi-Bred International, Inc., a DuPont Company 7501 Memorial Parkway, SW, Suite 205 Huntsville, AL 35802	Pioneer brand wheat varieties and experimentals
Plantation Seed P.O. Box 398 Newton, GA 39870-0398	Horizon 321 oat, Horizon 474 oat, Fleming wheat
Resource Seeds, Inc. 2355 Rice Pike Union, KY 41091	Trical brand triticale
Royster-Clark Seed Research/Vigoro Seeds 717 Robinson Rd SE Washington Court House, OH 43160	McIntosh, Dominion wheat, VWX2502 experimental wheat
SC Agricultural Exp. Station	SC experimental lines
Southern States Cooperative Richmond, VA	SS brand wheat varieties; SS76-40 oat
Southern Wildlife Seed & Management P.O.Box 1212 Senatobia, MS 38668	Monarch triticale
Syngenta Seeds, Inc. P.O. Box 1240 Winterville, NC 28590	Agripro Coker brand wheat varieties, Crawford, Panola, B990133 experimental wheat

Names of Agencies and Companies Sponsoring Entries in South Carolina Small Grain Variety Tests,
2005-2006

Originator and/or Seed Source	Variety, Strain, or Brand/Variety
UniSouth Genetics, Inc 2640-C Nolensville Rd Nashville, TN 37211	USG 3209, USG 3592 brand wheat varieties
University of Maryland	Choptank, MV5-46 wheat
VPI&SU/VCIA/EVAREC 2229 Menakin Rd Warsaw, VA 22572	Price, Doyce, Thoroughbred, VA01H-68 barley; McCormick wheat