UNIVERSITY OF GEORGIA
EXTENSION

2000-2001 Small Grains Performance Tests

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Preface

Results of the 2000-2001 performance tests of small grains grown for grain and forage are printed in this research report. Grain-evaluation studies were conducted at five locations, including Tifton, Plains and Midville in the Coastal Plain region; Griffin in the Piedmont region; and Calhoun in the Limestone Valley region. Small grain forage evaluation tests were conducted at four locations in Georgia, which included Tifton and Plains in the Coastal Plain, Griffin in the Piedmont, and Calhoun in the Limestone Valley, and at Marianna, Florida. For identification of the test locations, consult the map below.

Grain yields are reported as bushels per acre at 13.5 percent moisture for wheat, 13 percent for triticale and rye, 12.5 percent for oats, and 12 percent for barley. Additional agronomic data such as plant height, lodging, disease incidence, etc., are listed along with the corresponding yield data. Information concerning culture and fertilizer practices used is included in footnotes. Since the average yield from several years indicates a variety's potential better than a single year's data, multiple-year yield summaries are included.

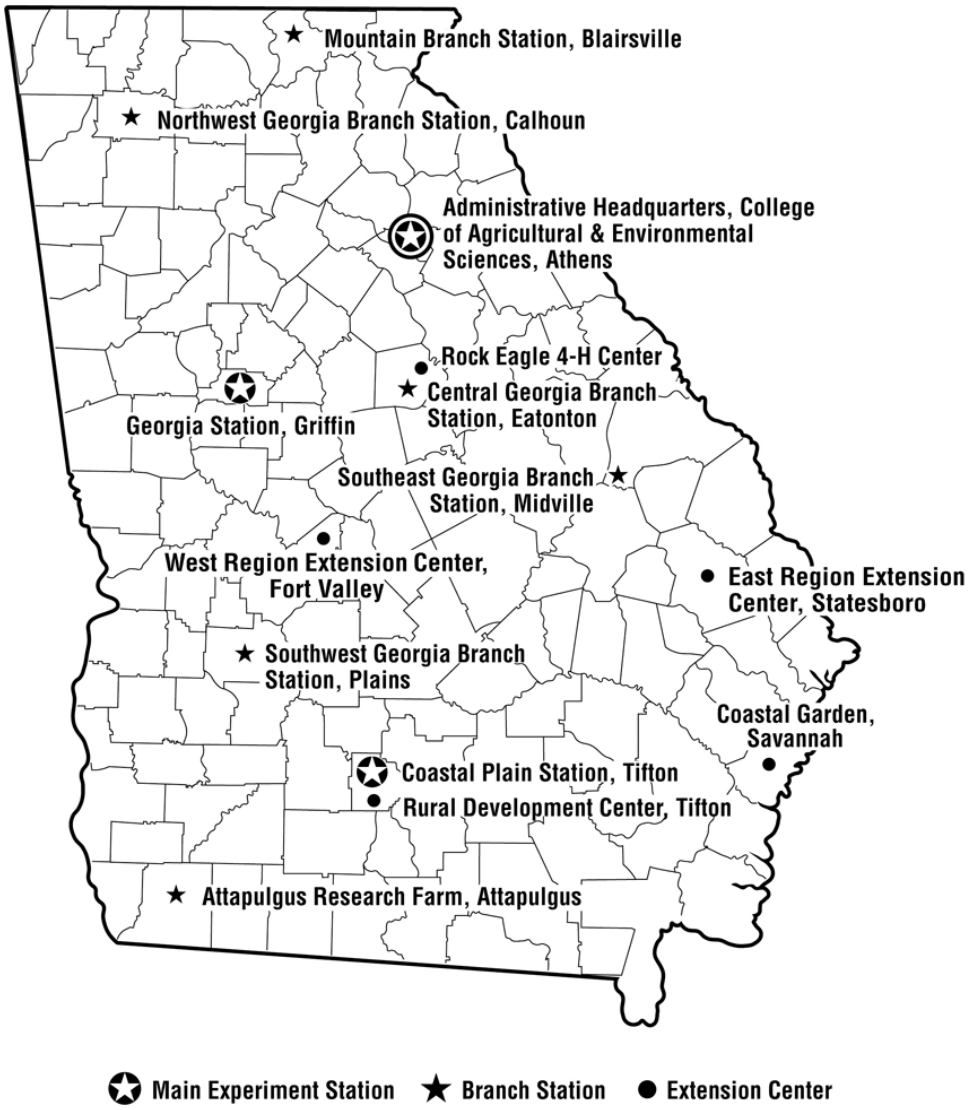
In order to have a broad base of information, a number of varieties, including experimental lines, are included in the tests, but this does not imply that all are recommended for Georgia. Varieties best suited to a specific area or for a particular purpose and agreed upon by College of Agricultural and Environmental Sciences scientists are presented on pages 3 and 4 and also in the 2001 Fall Planting Schedule for Georgia (available at your county extension office). For additional information, contact your local county extension agent or the nearest experiment station.

The Least Significant Difference (LSD) at the 10-percent level has been included in the tables to aid in comparing varieties and tests. If the yields of any two varieties differ by the LSD value or more, they may be considered different. Bolding is used in the performance tables to indicate entries with yields statistically equal to the highest yielding entry in the test. The standard error (Std. Err.) of an entry mean is included at the bottom of each table to provide a general indicator of the level of precision of each variety experiment. The lower the value for the standard error of the entry mean, the more precise the experiment.

This report is one of four publications presenting the performance of agronomic crops in Georgia. For information concerning other crops, refer to one of the following research reports: 2000 Corn Performance Tests (Report 668); 2000 Soybean, Sorghum Grain and Silage, Grain

Millet, Sunflower and Summer Annual Forages Performance Tests (Report 670); 2000 Peanut, Cotton and Tobacco Performance Tests (Report 671); and 2000-2001 Canola Performance Tests (Report 674).

This report, along with performance test information on other crops, is also available at our web site: www.swvt.uga.edu. Additional information may be obtained by writing to Mr. J. Don LaDay, Department of Crop and Soil Sciences, Georgia Station, 1109 Experiment Street, Griffin, GA 30223-1797.



Cooperators

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Contributors

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The Season

As the fall of 2000 approached Georgia, small grain producers again were confronted with planting into hot, dry soil for the third consecutive year. A wet November over much of the state eased the challenge and the crop was planted at a near normal pace. Wheat acreage planted was estimated at 300,000 acres, the same as the previous year, but 20 percent more than two years ago. Oat acreage was 70,000 acres, a 17 percent increase over last year. Acres planted to rye remained steady at 230,000 acres.

Rainfall amounts recorded monthly at the six test locations during the 2000-2001 growing season are presented in the following table. Lack of adequate rainfall occurred during most of the small grain growing season this year. Most areas of the state continue to receive less than normal rainfall. Only one location — Plains — of the five in Georgia received above normal rainfall for the nine-month average and most of that (58%) occurred during March and June.

Total (9 months)31.9236.6226.8338.0830.3734.08

2000-2001 Rainfall[1]				
Month	**Year**	**Cahoun[2]**	**Griffin**	**Midville**
		---------- inches ----------		
October	2000	0.22	0.65	0.57
November	2000	4.95	5.06	3.78
December	2000	1.59	3.77	3.24
January	2001	4.37	2.77	1.96
February	2001	3.25	3.24	1.45
March	2001	6.38	9.79	8.30
April	2001	2.05	3.23	1.44
May	2001	3.75	2.65	2.09
June	2001	5.36	5.46	4.00
Normal (9 months)		*41.90*	*37.68*	*32.11*

[1] Data collected by Dr. G. Hoogenboom, Georgia Station, Griffin, GA.
[2] Floyd County location.

Overall, the 2000-2001 small grain growing season in Georgia was characterized by a cold fall and winter. The cold weather helped keep in check small grain diseases and insects. There were some trouble spots and buildup of cereal leaf beetle as this insect continues to increase in population across the state. Low levels of disease and insects helped farmers produce high yields and test weights.

Although heavy rain, high wind and hail brought in by Tropical Storm Allison during June caused damage and lodging in many producers' fields, only one of our tests (Plains) was affected. Wet fields and high humidity in June delayed harvest, decreased crop quality (especially test weight) and caused seed sprouting in the head. Georgia wheat yields for the 2000-2001 season are estimated at 53 bushels per acre (1 bu/ac off last year's record) from 220,000 acres harvested, producing an increase of 8 percent in production over last year.

Characteristics of Varieties

Wheat

Brand-Variety	Resistance					Test Weight	Maturity	Straw Strength	Vernalization Requirement
	Leaf Rust	Glume Blotch	Powdery Mildew	BYD	Hessian Fly				
AGS 2000	good	fair	good	fair	good	good	medium	fair	medium
Agripro Hickory	poor	fair	fair	fair	fair	fair	medium	fair	medium
Agripro Mason	good	fair	poor	fair	poor	good	early	good	short
Fleming	good	fair	good	poor	good	good	early	fair	short
Jackson	poor	fair	fair	fair	poor	good	late	good	long
Jaypee	poor	fair	poor	good	poor	good	medium	fair	medium
NK Coker 9134	poor	good	poor	fair	poor	good	late	fair	long
NK Coker 9663	good	good	poor	good	fair	good	medium	good	medium
NK Coker 9704	poor	fair	poor	good	poor	good	late	good	long
NK Coker 9803	good	good	fair	fair	poor	good	late	good	long
*NK Coker 9835	poor	fair	fair	poor	good	fair	medium	good	medium
Pioneer 2684	poor	good	good	fair	good	good	medium	good	medium
Pioneer 2691	fair	fair	fair	fair	fair	fair	early	good	very short
Pioneer 26R61	good	fair	good	fair	good	good	medium	good	medium
Roberts	poor	good	good	fair	good	good	late	fair	medium long
SS 518-R	good	fair	good	fair	good	good	medium	fair	medium
SS 522	good	fair	poor	fair	poor	good	late	fair	long
USG 3209	fair	fair	good	fair	poor	fair	medium	good	medium

* Susceptible to stem rust.

Oat

Brand-Variety	Resistance		Cold Hardiness	Maturity	Test Weight	Straw Strength
	Crown Rust	BYD				
Arkansas Co. 604	excellent	fair	good	late	fair	good
Chapman	good	fair	fair	early	fair	good
Horizon 314	good	fair	good	medium	good	good
NC Rodgers	poor	poor	good	medium	fair	poor
Secretariat	fair	fair	good	medium	good	good

Barley

Brand-Variety	Resistance				Maturity	Test Weight	Head Type
	Blume Blotch	Spot Blotch	Scald	Hessian Fly			
GA-Luttrell	fair	good	good	poor	early	fair	awned
Nomini	fair	good	good	poor	medium	fair	awned
Starling	fair	fair	good	-	medium	fair	awnless

Small Grains Updates

Variety Releases

Dr. J.W. Johnson, Department of Crop and Soil Sciences, Georgia Station, Griffin, Georgia

AGS 2000 is a high yielding, high test weight, medium maturing, and medium-tall soft red winter wheat cultivar. It is resistance to currently predominate races of powdery mildew, resistant to leaf rust and resistant to predominate biotypes of Hessian fly in the southeast. AGS 2000 will be marketed by AGSouth Genetics.

Horizon 314 is a full season winter oat cultivar that performed well for both grain and forage production in the southeast. It is high yielding, high test weight and excellent straw strength. It has good winter hardiness and good crown rot resistance. Horizon 314 is marketed by Plantation Seeds, Inc.

Several wheat cultivars have been released by private companies for production in Georgia: SS 518-R, Pioneer 26R61, Pioneer 26R38 and USG 3209.

Diseases

Barry M. Cunfer, Department of Plant Pathology, Griffin Campus, Griffin, Georgia

The cold fall and winter combined with three years of below average rainfall had a varied effect on small grain diseases during the 2000-2001 season. The cold weather slowed winter development of leaf rust throughut the southern United States. There was little buildup during the winter from local infections in Georgia fields. Rust was also very low south Texas and along the Gulf coast, where spores are blown by the wind into the southeast in early spring. As a result, wheat leaf rust and oat crown rust never developed to a level that caused any losses, even on susceptible cultivars. Powdery mildew also developed slowly because of the below average temperatures and was very light, causing practically no damage. The rusts and powdery mildew also were slowed by low humidity and infrequent rain. Stagonospora nodorum leaf and glume blotch on wheat was low primarily due to the dry spring that prevented the disease from progressing from the lower leaves to the heads.

Low soil moisture through the winter and spring favored *Fusarium* foot rot, which is sometimes called dryland foot rot. The disease is associated with the drought conditions and rapid removal of water from the soil during grain filling. Reduced root system development because of the cold conditions may also have been a factor As soil moisture declines, antagonistic bacteria and fungi that normally keep *Fusarium* in check also decline. *Fusarium* is able to tolerate moisture stress and becomes better able to invade the roots and crown. Root tips turn brown to black. During

and after heading, the crowns also begin to turn brown, restricting water flow to the shoots. Some dying roots and leaf sheaths around the lower stem may show pink to dark red staining. Several species of *Fusarium* may be involved. A typical characteristic of these fungi is the red pigment produced on the host plant and in culture. The dieback has been seen mostly on sandier soils, which are more susceptible to moisture stress. Fields with foot rot produced grain with test weights as low as 48 pounds.

The extended period of rain that prevented harvest in some fields reduced seed quality. grain from these fields used for seed in the fall may be damaged by various fungi. Wheat and rye seed may have "black point." These are darkened areas where fungal infection occurred. These fungi can cause seedling blight. Rye seed is more vulnerable to germination problems, especially because it is often planted early for grazing. Seed for planting should have high germination and be treated with a fungicide to enhance stand establishment.

Barley yellow dwarf (BYD) was light due to reduced aphid populations and activity because of cold weather. BYD was severe in some fields of early planted oats for grazing or hay.

The fungi causing loose smut and common bunt or stinking smut are transmitted only by seed. During the past two seasons, stinking smut has been found in a few fields in the state. Bunted seed called "bunt balls" can be found among normal grains and, if the infestation is 1 percent or more, dark masses of spores can be seen attached to the healthy seed, especially among the hairs at the brush end of the seed. These are deposited during threshing as bunt balls are broken. Seed with stinking smut most likely also has loose smut. This fungus invades the developing seed and survives in the seed embryo. The harvested seed look healthy. Both smut diseases can be completely controlled by planting certified seed or by seed treatment with systemic fungicides.

In 1996, Karnal bunt was suspected to be in Georgia. The spores found were those of a new smut disease on ryegrass mixed with wheat seed. Karnal bunt had been confined to the original outbreak area in Arizona and in one location in central Texas. In June, 2001, Karnal bunt was found in several fields in north Texas. Testing is still in progress for other areas. This represents a new occurrence of the disease that is still under U.S. quarantine. We do not anticipate that the disease will occur in Georgia, but samples are collected each year as part of the national monitoring program.

Insects

G. David Buntin, Department of Entomology, Griffin, Georgia

Cold weather in November and December limited wheat emergence and growth. Cold weather also limited infestations of the Hessian fly, Mayetiola destructor, throughout the 2000-2001 season. Infestations in the fall-planted variety test evaluations at Griffin and Plains were too low

for separation of entries. The variety test was planted in late February at the Becham Research Farm near Griffin in an area where Hessian fly was present. Infestation results from this trial are presented in the next table. Varieties showing good levels of Hessian fly resistance were 'AGS 2000,' 'SS 516,' 'Pioneer 26R38,' 'Pioneer 26R61,' 'Roane' and 'Roberts.' 'NK Coker 9835' has been resistant in the past trials but rated as susceptible in this trial. 'Croplan SR218' was resistant in last year's trials but was not included in this trial. 'Pioneer 2684' and 'Fleming' had moderate or intermediate levels of resistance, but these varieties will not stand up to a heavy infestation. Although rated as resistant in past years, significant infestations occurred in 'Pioneer 2684' in 1999-2000, indicating that this variety has only a moderate level of resistance that is not effective under high levels of Hessian fly pressure. Both rye and oats are good Hessian fly resistant alternatives to wheat for forage production; rye is highly resistant and oats are immune to the insect.

Cold weather also limited aphid in the fall throughout the state. Aphids infested wheat in late winter in some areas, causing some transmission of barley yellow dwarf virus (BYDV) in those areas of the state. Although the level of expression of symptoms varies among varieties, no varieties are truly resistant or tolerant of BYDV infection. Systemic insecticide seed treatments and properly timed foliar applications of insecticides can greatly reduce aphid numbers and minimize BYDV incidence.

The cereal leaf beetle now is established throughout northern and most of southern Georgia. Populations continue to ncrease and caused noticeable damage this year in the Coastal Plain region. Larvae and adults are present in the spring during grain filling, where they remove the upper leaf surface and chew elongated holes in leaves. Populations in most areas still are below the treatment threshold of 0.5 larvae or adult per stalk. However, damage was very evident in the northwestern and central Piedmont region of the state, with some fields needing treatment with an insecticide. Cereal leaf beetle can be effectively controlled by a number of insecticides when applied to active larvae. Consult your local county extension agent for a list of recommended insecticides for this insect and for management practices for other insect pests of small grains.

Hessian fly infestations in entries of the Georgia State Winter Wheat Variety Trial at Griffin, GA, in 2000-2001

Entry	Resistance rating[1]	% infested plants	HF immatures per plant
GA 901188E43	S	92.0*	2.38*
Jackson	S	86.2*	2.52*
SS 535	S	84.0*	3.00*
GA 931241E16	S	80.7*	1.80*
USG 3408	S	78.0*	2.06*
NK Coker 9663	S	76.0*	1.74*
SS 566	S	76.0*	2.10*

NK Coker 9704	S	72.0*	2.12*
BL 940812	S	70.0*	1.92*
GA 93052E42	S	68.5*	2.61*
GA 93059E6	S	68.0*	2.35*
Pioneer 26R24	S	68.0*	1.88*
LA 90578	S	63.8*	1.87*
GA 931630E48	S	63.5*	2.37*
Shelby	S	62.8*	2.24*
NK Coker 9803	S	62.0*	1.74*
AR 584	S	62.0*	2.08*
Patton	S	60.0*	1.12*
SS 522	S	60.0*	1.44*
SS 518-R	S	58.2*	1.09*
GA 931587E33	S	56.8*	1.26*
SS 518 GXT	S	55.4*	1.40*
LA 90185	S	55.0*	0.98*
AR 494	S	53.9*	1.93*
VA 97W206	S	53.5*	1.12*
GA 931521LE5	S	52.0*	1.56*
GA 901146	S	52.0*	1.00*
VA 98W593	S	51.3*	1.09*
NK Coker 9835	S	50.0*	1.06*
GA 91436E29	S	48.0*	1.26*
BL 940582	S	47.0*	1.18*
Pioneer 2691	S	44.0*	1.18*
GA 931470E62	S	44.0*	0.96*
GA 93322E44	S	40.0*	1.12*
GA 931463E27	MR	39.4*	0.60
Fleming	MR	36.0*	0.74
Pioneer 2684	MR	35.5*	0.84
GA 96667LE8	MR	35.3*	0.88
SS 516	MR	34.0*	0.74
GA 931104A26	MR	34.0*	0.80
GA 92601LE9	MR	31.8*	0.99
USG 3209	R	30.6	0.92
GA 90524E1	R	28.0	0.44
NC 9613156	R	26.0	0.42
GA 931264E61	R	24.0	0.36

VA 96W158	R	23.1	0.60
AGS 2000	R	21.3	0.48
Pioneer 26R38	R	21.2	0.61
GA 921221E16	R	20.0	0.26
VA 270	R	20.0	0.30
GA 90552AE33	R	16.3	0.33
GA 92297E65	R	16.3	0.28
GA 92485E15	R	13.9	0.35
XW 586	R	11.3	0.18
GA 91426E39	R	10.0	0.22
Pioneer 26R61	R	8.0	0.20
Roberts	R	7.9	0.08
Roane	R	4.0	0.10
XW 69	R	0	0
LSD (0.05)		*31.4*	*0.97*
LSD (0.1)		*26.2*	*0.81*

Planted:	November 15, 2000.
Harvested:	June 18, 2001.
Seeding Rate:	22 seeds per foot in 7" rows.
Soil Type:	Greenville sandy clay loam.
Soil Test:	P = Medium, K = Medium, and pH = 6.2.
Fertilization:	Preplant: 20 lb N, 50 lb P_2O_5, and 50 lb K_2O/acre. Topdress: 70 lb N/acre.
Management:	Subsoiled and rototilled.
Previous Crop:	Peanuts.
Test conducted by A. E. Coy, M. D. Pippin, and R. R. Pines.	

Late-Planted Wheat Grain Performance, 2000-2001
Plains, Georgia

Brand-Variety	**Yield[1]**	**2001 Data**						
	2-Yr Avg	**Rank**	**Yield bu/acre**	**Test Wt lb/bu**	**Ht in**	**Lodg. %**	**Winter Survival %**	**Head Date mo/day**
	bu/acre							
UGA 93059LE6	**79.4**	3	**79.1**	54.6	35	55	100	04/03
GA92601E9	**78.2**	2	**79.5**	57.5	38	18	100	04/05
Fleming	**77.3**	1	**81.2**	56.5	37	0	100	04/04
USG 3209	75.7	6	**76.9**	55.7	>34	60	100	04/07
Pioneer 2691	73.7	7	76.2	55.1	35	21	100	04/03
SS-518-R	73.6	11	71.3	53.1	36	45	100	04/06
NK Coker 9663	64.1	12	66.0	54.1	43	53	100	04/10
SS520	.	4	**77.3**	55.8	37	8	100	04/04
GA96667LE8	.	5	**77.0**	54.4	33	6	100	04/06

GA931521LE5	.	8	74.4	57.0	40	5	100	04/03
VA96W-270	.	9	74.1	52.5	38	5	100	04/05
SS-518 GXT.	10	72.5	52.9	36	50	100	04/06	
Average	*74.6*		*75.4*[2]	*54.9*	*37*	*27*	*100*	*04/05*
LSD at 10% Level	*3.3*		*4.7*	*1.7*	*2*	*16*	-	*01*
Std. Err. of Entry Mean	*1.4*		*2.0*	*0.7*	*1*	*6*	-	*01*

[1] Yields calculated as 60 pounds per bushel at 13.5% moisture.
[2] C.V. = 5.2%, and df for EMS = 33.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	November 28, 2000.
Harvested:	June 18, 2001
Seeding Rate:	22 seeds per foot in 7" rows.
Soil Type:	Greenville sandy clay loam.
Soil Test:	P = Medium, K = Medium, and pH = 6.2.
Fertilization:	Preplant: 20 lb N, 50 lb P_2O_5, and 50 lb K_2O/acre. Topdress: 70 lb N/acre.
Management:	Subsoiled and rototilled.
Previous Crop:	Peanuts.

Test conducted by A. E. Coy, M. D. Pippin, and R. R. Pines.

Midville, Georgia

Wheat Grain Performance, 2000-2001
Midville, Georgia

Brand-Variety *	**Yield[1]**			**2001 Data**						
	3-Yr Avg	**2-Yr Avg**	**Rank**	**Yield[1] bu/acre**	**Test Wt lb/bu**	**Ht in**	**Lodg. %**	**Winter Survival %**	**Head Date mo/day**	**Deer Damage[2] %**
	- bu/acre -									
UGA 92485-E15	**59.6**	**55.9**	5	**72.6**	56.8	37	8	100	.	0
AGS 2000	**59.3**	**61.2**	9	**67.7**	58.6	37	0	100	.	0
Pioneer 26R61	**58.8**	**61.1**	11	**67.1**	57.8	37	3	100	.	0
Roberts	**54.8**	**59.1**	16	66.3	56.5	35	9	100	.	9
Pioneer 2684	**53.3**	**52.3**	32	58.8	55.0	35	0	100	.	0
NK Coker 9835	**50.4**	**52.7**	39	53.2	53.0	34	8	100	.	9
Roane	**43.3**	**48.3**	14	66.6	57.8	33	1	100	.	7
Jackson	**41.4**	**42.1**	27	62.0	56.7	36	3	100	.	3
UGA90552AE33	.	.	1	**76.9**	58.8	37	0	100	.	0

LA90185G3-1-3-4-2	.	.	2	**74.9**	56.2	43	8	100	.	0
USG 3209	.	.	3	**74.5**	57.8	33	1	100	.	4
AgriPro Shelby	.	.	4	**74.3**	56.5	39	0	100	.	0
Pioneer 26R24	.	**63.1**	6	**72.6**	56.5	40	13	100	.	11
USG3408	.	.	7	**71.2**	57.0	37	8	100	.	9
Pioneer 26R38	.	**63.8**	8	70.4	56.0	39	1	100	.	0
UGA 93059LE6	.	.	10	**67.6**	57.9	39	3	100	.	11
UGA901146E15	.	.	12	**67.1**	56.6	34	4	100	.	11
NK BL940582	.	.	13	**66.9**	55.9	40	0	100	.	0
UGA901188E43	.	.	15	66.4	55.6	37	1	100	.	0
GA96667LE8	.	.	17	65.8	56.8	35	5	100	.	0
GA931241E16	.	.	18	65.6	54.7	40	4	100	.	14
NK Coker 9663	.	.	19	65.2	56.4	41	4	100	.	24
LA90518PB43-3-1-4	.	**55.4**	20	64.5	54.7	36	6	100	.	0
GA931587E53	.	.	21	63.9	56.6	37	0	100	.	0
GA93052E42	.	.	22	63.8	56.7	37	1	100	.	0
Fleming	.	.	23	63.6	57.7	35	0	100	.	0
GA93322E44	.	.	24	63.2	54.9	35	0	100	.	0
AR 584A-3-1	.	**51.0**	25	62.9	55.4	38	10	100	.	0
NC 96-13156	.	.	26	62.9	58.2	34	9	100	.	4
VA96W-270	.	**53.2**	28	61.8	57.0	37	1	100	.	6
VA97W-206	.	.	29	60.9	55.5	35	1	100	.	13
SS-518-R	.	.	30	60.7	54.3	36	9	100	.	9
UGA90524E1	.	.	31	59.0	54.2	35	9	100	.	4
VA98W-593	.	.	33	57.4	58.1	33	4	100	.	8
GA931630E48	.	.	34	56.3	57.5	35	0	100	.	1
Pioneer 2691	.	.	35	56.2	54.0	35	5	100	.	0
GA931264E61	.	.	36	55.2	56.0	38	10	100	.	26
GA92601E9	.	.	37	55.0	55.6	37	3	100	.	18
GA92297E63	.	.	38	54.8	56.2	32	0	100	.	0
GA931521LE5	.	.	40	53.1	56.2	38	4	100	.	23
AR 494B-2-2	.	**52.1**	41	52.3	54.7	37	3	100	.	11
GA931470E62	.	.	42	51.9	58.1	34	8	100	.	31
SS516	.	.	43	48.2	53.7	34	1	100	.	0
UGA 91426E39	.	.	44	46.8	56.4	38	1	100	.	21
Average	*52.6*	*55.1*		*62.9*[3]	*56.3*	*36*	*4*	*100*	.	*7*
LSD at 10% Level	*N.S.*[4]	*N.S.*		*10.2*	*1.9*	*3*	*N.S.*	-	-	*9*
Std. Err. of Entry Mean	*2.7*	*3.0*		*4.4*	*0.8*	*1*	*3*	-	-	*4*

* Note: The following varieties were planted at this location in Fall 2000: GA921221E16, GA931104A26, GA931463E27, SS-518 GXT, and VA96W-158. However, due to extensive deer predation on wheat head these varieties were dropped from the tests.

[1] Yields calculated as 60 pounds per bushel at 13.5% moisture.
[2] Deer predation on head.
[3] C.V. = 13.9%, and df for EMS = 129.
[4] The F-test indicated no statistical difference at the alpha = 0.1 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	November 16, 2000.
Harvested:	June 6, 2001.
Seeding Rate:	22 seeds per foot in 7" rows.
Soil Type:	Dothan loamy sand.
Soil Test:	P = Medium, K = High, and pH = 6.5.
Fertilization:	Preplant: 33 lb N, 65 lb P_2O_5, and 98 lb K_2O/acre. Topdress: 65 lb N/acre.
Management:	Chisel plowed and rototilled.
Previous Crop:	Corn.

Test conducted by A. E. Coy, M. D. Pippin, and R. D. McNeill, IV.

Late-Planted Wheat Grain Performance, 2000-2001
Midville, Georgia

These early maturing wheat varieties were late-planted at this location.

Fleming	GA96667LE8	SS-518-R	UGA 93059LE6
GA92601E9	NK Coker 9663	SS-518 GXT	USG 3209
GA931521LE5	Pioneer 2691	SS520	VA96W-270

However, deer predation on the wheat head caused considerable variation in performance among plots within the test. After careful analysis and review of this data, it is the opinion of the editors that the results of this trial may notaccurately reflect the performance potential of all test entries. Since this data could be misleading if used in making decisions concerning variety selection, we have chosen not to present them in this publication.

[1] Yields calculated as 60 pounds per bushel at 13.5% moisture.
[2] Deer predation on head.

Planted:	November 16, 2000.
Harvested:	June 6, 2001.
Seeding Rate:	22 seeds per foot in 7" rows.
Soil Type:	Dothan loamy sand.
Soil Test:	P = Medium, K = High, and pH = 6.5.
Fertilization:	Preplant: 33 lb N, 65 lb P_2O_5, and 98 lb K_2O/acre. Topdress: 65 lb N/acre.
Management:	Chisel plowed and rototilled.
Previous Crop:	Corn.

Test conducted by A. E. Coy, M. D. Pippin, and R. D. McNeill, IV.

Griffin, Georgia

Wheat Grain Performance, 2000-2001
Griffin, Georgia

Brand-Variety	Yield[1]			2001 Data					
	3-Yr Avg	2-Yr Avg	Rank	Yield bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Survival %	Head Date mo/day
	- bu/acre -								
UGA 92485-E15	**106.3**	**106.4**	1	**120.6**	62.4	40	0	100	04/13
USG 3209	**104.6**	**104.4**	14	110.7	59.8	36	4	100	04/14
Pioneer 26R61	**104.0**	**105.3**	17	109.1	60.6	39	0	100	04/15
AGS 2000	99.5	100.1	30	104.4	61.2	38	3	100	04/13
NK Coker 9663	99.5	101.5	12	111.5	59.4	44	1	100	04/14
SS-518-R	98.7	**101.9**	8	**114.4**	60.3	38	3	100	04/13
UGA 91426E39	97.4	**98.9**	20	108.1	60.9	40	0	100	04/14
Pioneer 2684	97.4	**97.0**	36	102.4	61.9	36	0	100	04/13
UGA901146E15	96.9	**97.2**	27	105.5	58.4	36	0	100	04/12
UGA 91436E29	95.5	**99.6**	7	**114.5**	59.8	39	3	100	04/13
Roberts	95.1	**96.9**	43	101.0	58.8	38	33	100	04/12
NK Coker 9704	94.2	**90.4**	50	97.0	61.2	37	0	100	04/13
AgriPro Patton	94.1	**91.8**	28	105.4	58.6	40	0	100	04/15
NK Coker 9803	92.9	**91.7**	23	106.5	61.8	37	0	100	04/13
NK Coker 9835	92.2	**93.8**	41	101.4	59.0	36	1	100	04/15
Roane	90.9	**91.2**	33	103.0	60.4	37	8	100	04/15
Jackson	88.2	**88.4**	54	93.4	60.2	39	3	100	04/15
Pioneer 26R24	.	**104.5**	2	**119.9**	60.9	41	11	100	04/14
GA931241E16	.	.	3	**118.0**	61.8	42	13	100	04/13
SS535	.	**95.7**	4	**117.4**	61.4	38	0	100	04/13
NK BL940582	.	.	5	**116.6**	59.6	41	5	100	04/14
GA931630E48	.	.	6	**115.7**	61.1	37	0	100	04/13
Pioneer XW586	.	.	9	**113.7**	61.0	38	0	100	04/14
GA93322E44	.	.	10	111.8	58.5	40	0	100	04/14
SS520	.	**102.2**	11	111.8	59.8	40	0	100	04/12
GA92601E9	.	.	13	111.5	61.8	39	0	100	04/12
UGA 93059LE6	.	.	15	110.0	60.6	38	1	100	04/13
SS522	.	**96.9**	16	109.6	62.6	40	18	100	04/13
GA92297E63	.	.	18	109.1	60.1	37	0	100	04/12
GA921221E16	.	**101.7**	19	108.1	58.6	41	0	100	04/13
USG3408	.	.	21	107.9	60.6	39	0	100	04/14
VA97W-206	.	.	22	107.4	59.4	37	0	100	04/15
NK BL940812	.	.	24	106.0	61.6	36	0	100	04/14
LA90185G3-1-3-4-2	.	.	25	105.7	58.8	41	0	100	04/15
VA96W-270	.	**94.5**	26	105.6	60.5	39	0	100	04/13

UGA90552AE33	.	.	29	105.0	62.0	40	0	100	04/13
GA93052E42	.	.	31	103.8	60.2	40	14	100	04/13
GA931104A26	.	.	32	103.5	60.0	38	0	100	04/13
AR 494B-2-2	.	**93.4**	34	102.4	58.1	43	15	100	04/16
AgriPro Shelby	.	.	35	102.4	59.7	42	13	100	04/14
LA90518PB43-3-1-4	.	**93.2**	37	102.4	57.9	40	19	100	04/14
VA98W-593	.	.	38	102.2	61.8	38	0	100	04/11
Pioneer XW692	.	.	39	102.1	60.6	36	0	100	04/16
SS516	.	**92.7**	40	101.9	60.8	37	0	100	04/13
GA931470E62	.	.	42	101.1	61.9	36	0	100	04/13
GA931264E61	.	.	44	100.3	61.2	39	9	100	04/13
GA931463E27	.	.	45	100.2	59.5	40	15	100	04/13
Pioneer 26R38	.	**96.5**	46	100.1	60.6	40	0	100	04/14
NC 96-13156	.	.	47	99.7	60.5	39	0	100	04/15
AR 584A-3-1	.	**85.4**	48	98.8	59.5	45	6	100	04/14
GA96667LE8	.	.	49	98.2	62.0	37	0	100	04/13
GA931587E53	.	.	51	96.8	60.7	38	0	100	04/13
UGA90524E1	.	.	52	95.5	59.5	37	0	100	04/12
UGA901188E43	.	.	53	95.0	59.6	39	3	100	04/15
GA931521LE5	.	.	55	90.0	61.6	39	0	100	04/14
Average	*96.9*	*96.9*		*105.7*[2]	*60.4*	*39*	*4*	*100*	*04/13*
LSD at 10% Level	*4.2*	*N.S.*[3]		*8.7*	*1.1*	*2*	*11*	-	*1*
Std. Err. of Entry Mean	*1.8*	*2.4*		*3.7*	*0.5*	*1*	*5*	-	*0*

[1] Yields calculated as 60 pounds per bushel at 13.5% moisture.
[2] C.V. = 7.0%, and df for EMS = 162.
[3] The F-test indicated no statistical difference at the alpha = 0.1 probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	October 30, 2000.
Harvested:	May 31, 2001.
Seeding Rate:	22 seeds per foot in 7" rows.
Soil Type:	Cecil sandy clay loam.
Soil Test:	P = High, K = High, and pH = 6.0.
Fertilization:	Preplant: 28 lb N, 56 lb P_2O_5, and 84 lb K_2O/acre. Topdress: 60 lb N/acre.
Management:	Moldboard plowed and rototilled.
Previous Crop:	Canola.
Test conducted by P. A. Rose.	

Calhoun, Georgia

Calhoun, Georgia:
Wheat Grain Performance, 2000-2001

Brand-Variety	Yield[1]		2001 Data								
	3-Yr Avg	2-Yr Avg	Rank	Yield[1] bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Surv. %	Head Date mo/day	Straw Wt lb/acre	Deer Damage[2] %
	-bu/acre-										
Pioneer 2684	**59.8**	**55.1**	5	52.6	57.4	38	25	100	.	3202	3
UGA 901146E15	**58.9**	**60.2**	16	46.7	53.7	37	38	100	.	1916	15
NK Coker 9704	57.0	**53.7**	7	50.2	57.9	40	48	100	.	2455	10
USG 3209	54.5	**53.1**	8	49.9	54.8	40	28	100	.	3305	19
AGS 2000	**54.3**	**57.5**	12	49.0	56.8	40	50	100	.	4116	1
UGA 91436E29	**53.2**	**50.0**	22	44.6	51.8	37	76	100	.	3455	11
Pioneer 26R61	**52.9**	**54.7**	18	46.0	57.7	40	34	100	.	4931	1
NK Coker 9803	**52.2**	**49.5**	13	48.1	58.7	39	33	100	.	2962	20
Jackson	**52.1**	**49.3**	26	41.5	56.2	39	39	100	.	2608	18
Roberts	**51.2**	**47.3**	54	25.6	53.0	37	65	100	.	2695	25
UGA 92485-E15	**51.0**	**53.9**	11	49.4	56.7	40	39	100	.	4269	3
NK Coker 9663	**48.5**	**48.0**	51	28.5	54.4	39	50	100	.	2658	58
Roane	**47.9**	**47.0**	36	35.8	58.2	38	31	100	.	4583	39
NK Coker 9835	**47.6**	**45.9**	24	42.9	54.3	37	70	100	.	3093	9
UGA 91426E39	**44.8**	**35.1**	55	20.7	55.5	36	26	100	.	2724	40
SS-518-R	**44.0**	**45.3**	46	30.3	53.0	35	29	100	.	3507	10
AgriPro Patton	**42.6**	**43.2**	49	29.4	53.5	41	50	100	.	3646	34
Pioneer XW692	.	.	1	**62.7**	57.5	40	59	100	.	4239	2
GA 931630E48	.	.	2	**57.3**	57.5	41	11	100	.	4757	1
LA90518 PB43-3-1-4	.	**57.7**	3	53.3	55.3	40	11	100	.	3682	0
NK BL940812	.	.	4	53.1	58.9	38	50	100	.	4836	6
VA96W-270	.	**55.3**	6	51.6	56.7	40	10	100	.	3455	11

Pioneer XW586	.	.	9	49.8	56.0	40	9	100	.	4378	1
AgriPro Shelby	.	.	10	49.5	56.7	39	34	100	.	3566	0
NC 96-13156	.	.	14	48.0	56.3	39	70	100	.	3770	9
AR 584A-3-1	.	**52.6**	15	47.3	54.5	39	66	100	.	2927	1
UGA 90552AE33	.	.	17	46.4	56.9	40	20	100	.	3289	1
SS522	.	**51.4**	19	45.7	57.8	36	29	100	.	3027	23
NK BL940582	.	.	20	45.3	54.4	41	56	100	.	3587	11
GA 93322E44	.	.	21	44.8	54.9	38	43	100	.	4291	1
VA 97W-206	.	.	23	43.6	55.1	39	25	100	.	4641	13
GA 92297E63	.	.	25	42.7	53.3	37	16	100	.	3392	4
LA90185 G3-1-3-4-2	.	.	27	40.3	52.9	39	59	100	.	3215	1
UGA 901188E43	.	.	28	39.6	54.3	41	48	100	.	3659	3
GA 931587E53	.	.	29	39.4	55.5	40	29	100	.	4616	11
GA 93052E42	.	.	30	39.0	54.3	40	25	100	.	3687	1
VA98W-593	.	.	31	39.0	57.6	37	60	100	.	4060	23
AR 494B-2-2	.	**51.2**	32	37.9	55.4	40	40	100	.	3239	13
USG 3408	.	.	33	36.5	56.0	39	50	100	.	2584	33
Pioneer 26R24	.	**50.2**	34	36.1	53.8	42	60	100	.	2671	19
SS535	.	**48.9**	35	35.9	57.0	37	31	100	.	4168	11
UGA 90524E1	.	.	37	35.0	54.7	36	43	100	.	2548	25
GA 931521LE5	.	.	38	34.7	57.8	40	5	100	.	3267	31
GA 96667LE8	.	.	39	34.5	55.8	38	1	100	.	4002	4
GA 92601E9	.	.	40	34.0	55.9	40	39	100	.	3774	36
GA 931463E27	.	.	41	33.6	54.0	37	36	100	.	2729	33
Pioneer 26R38	.	**47.3**	42	33.1	56.2	42	28	100	.	4583	0

GA 931104A26	.	.	43	32.3	53.8	37	50	100	.	3600	30
SS516	.	**35.0**	44	31.5	55.0	40	48	100	.	2962	41
GA 931241E16	.	.	45	30.4	55.7	40	70	100	.	2418	19
SS520	.	**49.0**	47	30.1	56.2	41	5	100	.	3049	48
GA 931470E62	.	.	48	29.6	57.1	37	4	100	.	3682	7
GA 931264E61	.	.	50	29.3	55.6	37	30	100	.	2803	18
UGA 93059LE6	.	.	52	28.5	52.5	38	36	100	.	3326	10
GA 921221E16	.	**42.0**	53	27.5	55.1	38	18	100	.	3595	30
Average	*51.3*	*49.6*		*40.4*[3]	*55.6*	*39*	*37*	*100*	.	*3494*	*15*
LSD at 10% Level	*N.S.*[4]	*N.S.*		*6.1*	*1.2*	*2*	*22*	-	-	*494*	*17*
Std. Err. of Entry Mean	*2.3*	*2.4*		*2.6*	*0.5*	*1*	*9*	-	-	*211*	*7*

[1] Yields calculated as 60 pounds per bushel at 13.5% moisture.
[2] Deer predation on head.
[3] C.V. = 13.0%, and df for EMS = 162.
[4] The F-test indicated no statistical difference at the alpha = 0.1 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	October 23, 2000.
Harvested:	June 12, 2001.
Seeding Rate:	22 seeds per foot in 7" rows.
Soil Type:	Waynesboro loam.
Soil Test:	P = Very High, K = High, and pH = 6.6.
Fertilization:	Preplant: 20 lb N, 40 lb P_2O_5, and 60 lb K_2O/acre. Topdress: 70 lb N/acre.
Management:	Moldboard plowed and rototilled.
Previous Crop:	Canola.

Test conducted by P. A. Rose, G. Rawls, and J. Stubbs.

Summary of Wheat Yields, Georgia, 2000-2001, with Two- and Three-Year Averages

Summary of Wheat Yields:
Georgia, 2000-2001 with Two- and Three-Year Averages

Brand-Variety	**Yield**[1]								
	South[2]			**North**[3]			**Statewide**		
	2001	**2-Yr Avg**	**3-Yr Avg**	**2001**	**2-Yr Avg**	**3-Yr Avg**	**2001**	**2-Yr Avg**	**3-Yr Avg**

	---------- bu/acre ----------								
AGS 2000	**82.4**	76.7	**70.9**	**76.7**	**78.8**	**76.9**	**80.1**	**77.5**	**73.3**
AR 494B-2-2	69.2	66.4	.	70.2	**72.3**	.	69.6	68.8	.
AR 584A-3-1	67.1	59.9	.	**73.1**	69.0	.	69.5	63.5	.
AgriPro Patton	.	.	.	67.4	67.5	68.4	.	.	.
AgriPro Shelby	68.2	.	.	**75.9**	.	.	71.3	.	.
Fleming	77.5	.	.	.	.	.	.	.	.
GA921221E16	.	.	.	67.8	**71.9**	.	.	.	.
GA92297E63	70.7	.	.	**75.9**	.	.	72.8	.	.
GA92601E9	70.7	.	.	**72.7**	.	.	71.5	.	.
GA93052E42	76.0	.	.	**71.4**	.	.	74.1	.	.
GA931104A26	.	.	.	67.9	.	.	.	.	.
GA931241E16	**82.4**	.	.	**74.2**	.	.	**79.1**	.	.
GA931264E61	68.8	.	.	64.8	.	.	67.2	.	.
GA931463E27	.	.	.	66.9	.	.	.	.	.
GA931470E62	71.7	.	.	65.4	.	.	69.2	.	.
GA931521LE5	67.4	.	.	62.3	.	.	65.4	.	.
GA931587E53	76.2	.	.	68.1	.	.	73.0	.	.
GA931630E48	75.8	.	.	**86.5**	.	.	**80.0**	.	.
GA93322E44	75.1	.	.	**78.3**	.	.	**76.4**	.	.
GA96667LE8	75.3	.	.	66.3	.	.	71.7	.	.
Jackson	74.1	62.1	51.3	67.5	68.8	70.2	71.5	64.8	58.9
LA90185G3-1-3-4-2	79.2	.	.	**73.0**	.	.	**76.7**	.	.
LA90518PB43-3-1-4	72.3	67.5	.	**77.8**	**75.4**	.	74.5	70.7	.
NC 96-13156	72.1	.	.	**73.8**	.	.	72.8	.	.
NK BL940582	73.0	.	.	**80.9**	.	.	76.2	.	.
NK BL940812	.	.	.	**79.6**	.	.	.	.	.
NK Coker 9663	75.8	.	.	70.0	**74.7**	**74.0**	73.5	.	.
NK Coker 9704	.	.	.	**73.6**	**72.1**	**75.6**	.	.	.
NK Coker 9803	.	.	.	**77.3**	70.6	**72.5**	.	.	.
NK Coker 9835	65.9	66.0	61.3	**72.1**	69.8	69.9	68.4	67.5	64.7
Pioneer 2684	72.2	68.4	65.2	**77.5**	**76.0**	**78.6**	74.3	71.4	**70.6**
Pioneer 2691	78.4	.	.	.	.	.	.	.	.
Pioneer 26R24	**85.0**	**78.1**	.	**78.0**	**77.4**	.	**82.2**	**77.8**	.
Pioneer 26R38	**85.5**	**80.3**	.	66.6	**71.9**	.	**77.9**	**76.9**	.
Pioneer 26R61	**81.5**	76.1	**70.1**	**77.6**	**80.0**	**78.4**	**79.9**	**77.6**	**73.4**
Pioneer XW586	.	.	.	**81.7**	.	.	.	.	.
Pioneer XW692	.	.	.	**82.4**	.	.	.	.	.

Roane	73.8	61.1	50.2	69.4	69.1	69.4	72.0	64.3	57.9
Roberts	72.2	69.9	61.2	63.3	**72.1**	**73.2**	68.7	70.8	66.0
SS516	62.2	.	.	66.7	63.8	.	64.0	.	.
SS-518-R	77.5	.	.	**72.4**	**73.6**	71.3	75.4	.	.
SS520	.	.	.	**70.9**	**75.6**	.	.	.	.
SS522	.	.	.	**77.7**	**74.1**	.	.	.	.
SS535	.	.	.	**76.6**	**72.3**	.	.	.	.
UGA 91426E39	70.7	.	.	64.4	67.0	71.1	68.2	.	.
UGA 91436E29	.	.	.	79.5	74.8	74.4	.	.	.
UGA 92485-E15	80.4	70.1	67.2	**85.0**	**80.2**	**78.6**	**82.2**	**74.1**	**71.8**
UGA 93059LE6	76.0	.	.	69.2	.	.	73.3	.	.
UGA901146E15	72.7	.	.	**76.1**	**78.7**	77.9	74.1	.	.
UGA901188E43	74.2	.	.	67.3	.	.	71.4	.	.
UGA90524E1	73.8	.	.	65.3	.	.	70.4	.	.
UGA90552AE33	83.9	.	.	**75.7**	.	.	**80.6**	.	.
USG 3209	**85.3**	.	.	**80.3**	**78.7**	79.6	**83.3**	.	.
USG3408	78.7	.	.	**72.2**	.	.	76.1	.	.
VA96W-270	75.6	69.8	.	**78.6**	**74.9**	.	**76.8**	71.9	.
VA97W-206	75.1	.	.	**75.5**	.	.	75.2	.	.
VA98W-593	76.3	.	.	**70.6**	.	.	74.0	.	.
Average	*75.0*	*69.5*	*62.2*	*73.1*	*73.3*	*74.1*	*73.9*	*71.3*	*67.1*
LSD at 10% Level	*4.7*	*3.3*	*2.9*	*15.9*	*9.2*	*7.2*	*7.0*	*4.0*	*3.3*
Std. Err. of Entry Mean	*2.0*	*1.1*	*1.0*	*6.8*	*3.9*	*3.1*	*3.0*	*1.7*	*1.4*

[1] Yields calculated at 60 pounds per bushel at 13.5% moisture.
[2]Tifton, Plains, and Midville.
[3]Griffin and Calhoun.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Southern Uniform Tests

Plains, Georgia

Uniform Southern Soft Red Winter Wheat Nursery, 2000-2001
Plains, Georgia

Brand-Variety	**Yield[1] bu/acre**	**Test Wt lb/bu**	**Heading Date Julian days[3]**	**Ht in**	**Lodging %**	**Leaf Rust[2] rating**	***Septoria nodorum* 0-9**
B950943	**114.0**	59.5	94	34	5	5	0.5
GF92485E15	**112.9**	62.2	93	38	5	4	2.0
GF921221E16	**109.8**	59.0	93	37	5	2	1.0
VA98W-593	**109.7**	62.2	98	32	5	4	1.0

GF90524E1	**108.3**	59.8	91	32	0	9	0.5
AGS2000	**107.8**	61.2	91	35	0	0	1.0
AW-D97*6940	**107.2**	61.2	95	34	5	5	1.5
F/G921188E43	**106.8**	58.9	89	35	5	4	2.5
G09138	**106.4**	59.3	98	36	5	6	1.5
Coker 9663	**106.3**	60.6	94	35	5	8	0.5
LA90185G3-1-3-4-2	**105.9**	60.0	92	37	0	8	1.5
LA9397D5-3-3	**105.9**	59.7	89	30	0	8	0.5
MDV71-19	**105.8**	57.3	97	34	5	2	2.5
AW-D97*6961	**105.7**	59.8	98	32	0	3	2.5
NC96-13156	**105.3**	60.9	99	35	0	6	0.5
AW-D97-6075	**105.2**	60.2	97	35	5	9	3.0
VA99W-200	**104.9**	59.5	89	32	0	4	3.5
NC96-13965	**104.8**	60.2	101	32	5	4	0.5
AR839-25-8-2	103.4	60.6	99	38	0	7	1.5
SC952746	102.7	60.5	95	41	5	1	4.0
B960457	102.6	57.3	98	35	5	1	2.5
NC96-13155	102.5	61.6	99	35	0	5	0.5
TX97D6737	102.4	59.1	94	31	5	9	1.0
AW-D97-6740	102.1	61.0	96	35	5	8	1.0
TX97-167	101.9	59.5	96	37	10	7	3.0
B961378	101.8	60.0	101	33	5	7	0.5
LA90518PB43-3-1-4	101.6	59.3	90	33	0	0	1.5
AR-LA85411	101.2	60.7	96	35	0	1	1.5
TX91-57	100.8	61.0	95	38	5	0	0.5
VA98W-591	100.8	61.2	99	32	0	1	2.5
Coker 9835	100.4	57.9	97	31	0	9	0.5
VA99W-169	98.7	58.4	99	36	0	8	2.0
B960208	98.1	59.0	96	36	5	7	1.0
AR839-27-1-3	97.8	60.4	101	38	0	7	1.5
Mason	97.7	58.6	95	36	5	4	1.5
S9412192	96.1	58.8	89	36	0	6	2.5
G09080	96.0	57.5	100	37	5	7	4.0
G09091	94.8	57.8	97	38	5	5	4.0
TX96D1320	90.9	59.7	93	31	0	8	0.5
G09088	90.8	57.2	95	37	10	9	4.0
MDV26-30	89.2	59.3	91	34	5	6	1.0
TX98D2106	88.5	59.0	98	35	5	8	0.5

SC960057	73.6	51.9	105	38	0	0	1.5
Average	*101.6*[4]	*59.5*	*96*	*35*	*3*	*5*	*1.7*
LSD at 5% Level	*9.7*						

[1] Yields calculated as 60 pounds per bushel.
[2] Rating on flag leaf: 0 = resistant to 9 = highly susceptible.
[3]Days from January 1.
[4] C.V. = 5.9%.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.05).

Planted:	November 14, 2000.
Harvested:	May 24, 2001.
Seeding Rate:	22 seeds per foot in 7" rows.
Soil Type:	Greenville sandy clay loam.
Soil Test:	P = High, K = High, and pH = 6.2.
Fertilization:	Preplant: 90 lb N, 54 lb P_2O_5, and 27 lb K_2O/acre.
Management:	Subsoiled and rototilled.
Previous Crop:	Peanut.
Test conducted by J. W. Johnson, B. M. Cunfer, and D. Bland.	

Griffin, Georgia

Uniform Southern Soft Red Winter Wheat Nursery, 2000-2001
Griffin, Georgia

Brand-Variety	Yield[1] bu/acre	Test Weight lb/bu	Heading Date Julian days[2]	Height in	Lodging %	*Septoria nodorum* 0-9
VA99W-200	**91.8**	49.2	100	37	10	2
LA9397D5-3-3	**90.8**	55.9	101	34	10	2
GF92485E15	**88.3**	51.8	101	37	5	4
B960457	**88.1**	54.4	106	42	10	3
TX97-167	**86.2**	55.8	103	42	80	2
VA98W-591	82.8	55.7	105	33	10	2
AGS2000	82.5	56.3	102	38	5	2
G09138	82.5	55.6	101	38	10	4
AR-LA85411	80.8	56.1	102	38	0	1
AW-D97-6740	79.7	57.5	100	36	20	3
AW-D97-6075	79.2	56.4	100	37	20	7
VA98W-593	79.1	58.4	105	34	5	4
VA99W-169	77.6	53.2	105	38	10	4
TX97D6737	77.5	54.9	106	34	5	1
LA90518PB43-3-1-4	77.4	53.3	102	37	5	2
Coker 9663	76.1	56.5	105	44	10	2

AR839-25-8-2	75.7	56.5	104	38	5	5
SC952746	74.6	55.6	106	43	30	3
Coker 9835	72.7	55.2	106	32	5	2
GF921221E16	72.7	54.3	103	35	5	2
NC96-13156	72.6	56.9	108	33	5	4
MDV71-19	72.1	53.7	102	33	40	3
NC96-13155	70.7	57.9	107	35	0	4
TX96D1320	69.5	54.9	104	30	0	6
TX91-57	69.1	55.0	101	37	0	3
GF90524E1	68.9	54.8	107	35	20	3
B950943	68.8	55.4	108	34	0	2
LA90185G3-1-3-4-2	66.8	54.7	107	35	5	3
F/G921188E43	66.7	54.5	104	36	10	3
NC96-13965	66.6	57.2	Late	30	0	1
TX98D2106	66.1	55.1	105	37	5	3
Mason	65.6	54.3	103	37	10	4
AW-D97*6940	65.6	54.9	104	35	10	6
B960208	65.2	54.7	109	38	5	3
AR839-27-1-3	63.6	57.2	Late	37	0	3
G09088	56.9	52.2	106	38	5	7
S9412192	55.9	52.6	105	34	0	4
MDV26-30	55.8	54.0	104	32	5	6
AW-D97*6961	55.1	55.8	108	34	5	6
B961378	53.6	54.8	Late	34	0	3
SC960057	49.1	51.2	Late	40	5	1
G09091	48.5	53.2	108	37	0	3
G09080	43.0	53.9	Late	34	5	2
Average	*71.0*	*54.9*	*103*	*36*	*9*	*3*
LSD at 5% Level	*8.5*					

[1] Yields calculated as 60 pounds per bushel.
[2] Days from January 1.
[3] C.V. = 7.4%.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.05).

Planted:	November 6, 2000.
Harvested:	June 11, 2001.
Seeding Rate:	22 seeds per foot in 7" rows.
Soil Type:	Cecil clay loam.
Soil Test:	P = Medium, K = High, and pH = 6.9.
Fertilization:	Preplant: 20 lb N, 56 lb P_2O_5, and 84 lb K_2O /acre.

Management:	Moldboard plowed and rototilled.
Previous Crop:	Peanut.
Test conducted by J. W. Johnson, B. M. Cunfer, and D. Bland.	

TRITICALE

Tifton, Georgia

Triticale Grain Performance, 2000-2001 Tifton, Georgia			
Brand-Variety	**Yield[1]**	**2001 Data**	

	3-Yr Avg	2-Yr Avg	Rank	Yield[1] bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Survival %	Head Date mo/day	Glume Blotch[2] 5/02 %
	- bu/acre -									
FLPFT215	**93.3**	**100.3**	4	**117.5**	57.2	48	6	100	03/22	25
Sunland	84.9	**87.6**	10	109.1	57.4	47	15	100	03/19	25
TRICAL 498	84.0	**88.1**	16	93.6	48.3	47	6	100	03/29	55
Fleming *	61.7	**62.6**	19	73.4	57.5	41	4	100	03/27	30
GA29ITYN45	.	.	1	**124.1**	55.1	44	0	100	03/16	35
FL91142-A2	.	.	2	**122.8**	54.1	54	20	100	03/20	40
FL91142-P1-A1	.	.	3	**119.4**	51.9	52	11	100	03/20	55
FL91144-A20	.	.	5	112.6	51.3	49	1	100	03/18	35
FL91242-X1-Y1-Z1	.	.	6	111.7	51.0	50	6	100	03/26	25
FL91168-A11	.	.	7	110.9	52.5	49	1	100	03/15	55
FL93039-P1-A11	.	.	8	109.7	49.8	50	3	100	03/25	55
FL91211-W7-Y2-A11	.	.	9	109.7	49.3	52	6	100	03/25	30
GA86T27-E13-G8	.	.	11	108.5	53.6	49	3	100	03/21	55
K6045-12	.	.	12	108.1	56.2	49	6	100	03/15	15
GA89T115-X4-Y1-Z2	.	.	13	103.0	50.5	56	18	100	03/24	50
FLPFT701	.	.	14	97.2	54.5	47	4	100	03/21	50
FL94128-Y1-A8	.	.	15	96.4	52.1	53	15	100	03/26	40
FL89271-W2-Y2-Z1-A4	.	.	17	89.3	49.3	54	11	100	03/17	55
FL90076-W1-X1	.	.	18	78.8	51.2	55	16	100	03/21	35
Arcia	.	**67.1**	20	64.9	49.7	49	11	100	04/02	20
FL81-437	.	.	21	60.2	47.1	60	16	100	04/15	20
M98-1950-1	.	.	22	54.1	50.6	52	14	100	04/07	50
Musky	.	.	23	37.3	49.8	53	11	100	04/11	50
Average	*81.0*	*81.2*		*96.2*[3]	*52.2*	*50*	*9*	*100*	*03/25*	*39*
LSD at 10% Level	*3.1*	*N.S.*[4]		*9.0*	*0.7*	*1*	*9*	-	*02*	*2*
Std. Err. of Entry Mean	*1.3*	*1.5*		*3.8*	*0.3*	*1*	*4*	-	*01*	*1*

* Wheat check variety. [1] Yields calculated as 48 pounds per bushel at 13.0% moisture. [2] Percentage on head. [3] C.V. = 8.0%, and df for EMS = 66. [4] The F-test indicated no statistical difference at the alpha = 0.1 probability level; therefore, an LSD value was not calculated. **Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).	
Planted:	November 27, 2000.
Harvested:	May 28, 2001.
Seeding Rate:	16 seeds per foot in 7" rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = High, K = Medium, and pH = 6.2.
Fertilization:	Preplant: 40 lb N, 80 lb P_2O_5, and 120 lb K_2O/acre. Topdress: 62 lb N/acre.
Management:	Moldboard plowed and rototilled; Diaznon used for insect control; 2,4-D and Express used for weed control.
Previous Crop:	Grain sorghum.
Test conducted by A. E. Coy, M. D. Pippin, T. L. Hancock, M. D. Purvis, and R. E. Brooke.	

Plains, Georgia

Triticale Grain Performance, 2000-2001
Plains, Georgia

Brand-Variety	Yield[1]			2001 Data					
	3-Yr Avg	2-Yr Avg	Rank	Yield[1] bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Survival %	Head Date mo/day
	- bu/acre -								
Sunland	82.5	85.4	11	77.9	58.7	46	68	100	03/29
FLPFT215	79.8	81.5	15	72.7	58.2	46	50	100	03/30
TRICAL 498	75.8	81.8	14	76.4	51.8	46	60	100	04/06
Fleming *	65.4	70.3	19	66.4	65.5	37	8	100	04/06
FL93039-P1-A11	.	.	1	100.6	52.3	49	65	100	04/02
GA29ITYN45	.	.	2	98.3	57.4	44	38	100	03/23
FLPFT701	.	.	3	94.8	58.7	43	33	100	03/31
GA86T27-E13-G8	.	.	4	93.2	54.6	46	45	100	04/01
FL94128-Y1-A8	.	.	5	92.2	53.9	54	70	100	04/05
FL91142-P1-A1	.	.	6	89.2	52.4	50	80	100	03/27
FL91168-A11	.	.	7	89.0	54.3	49	68	100	03/27
FL91144-A20	.	.	8	82.9	55.5	49	58	100	03/31
FL91242-X1-Y1-Z1	.	.	9	82.1	55.0	49	65	100	04/03
FL91142-A2	.	.	10	81.9	56.7	51	91	100	03/30
GA89T115-X4-Y1-Z2	.	.	12	77.9	53.4	52	98	100	04/02

FL90076-W1-X1	.	.	13	77.1	56.7	52	65	100	03/30
K6045-12	.	.	16	72.7	56.7	49	66	100	03/23
FL89271-W2-Y2-Z1-A4	.	.	17	72.2	51.4	53	73	100	03/28
FL91211-W7-Y2-A11	.	.	18	69.0	50.0	49	80	100	04/05
Arcia	.	66.0	20	62.9	52.6	46	85	100	04/08
Musky	.	.	21	42.9	50.9	51	93	100	.
FL81-437	.	.	22	41.9	49.1	59	84	100	.
M98-1950-1	.	.	23	36.1	45.7	48	100	100	04/11
Average	*75.9*	*77.0*		*76.1*[2]	*54.4*	*48*	*67*	*100*	*04/01*
LSD at 10% Level	*4.5*	*5.3*		*9.9*	*3.4*	*2*	*26*	-	*02*
Std. Err. of Entry Mean	*3.2*	*2.2*		*4.2*	*1.3*	*1*	*11*	-	*01*

* Wheat check variety.

[1] Yields calculated as 48 pounds per bushel at 13.0% moisture.
[2] C.V. = 11.0%, and df for EMS = 66.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	November 28, 2000
Harvested:	June 18, 2001.
Seeding Rate:	16 seeds per foot in 7" rows.
Soil Type:	Greenville sandy clay loam.
Soil Test:	P = Medium, K = Medium, and pH = 6.2.
Fertilization:	Preplant: 20 lb N, 50 lb P_2O_5, and 50 lb K_2O/acre. Topdress: 70 lb N/acre.
Management:	Subsoiled and rototilled.
Previous Crop:	Peanuts.
Test conducted by A. E. Coy, M. D. Pippin, and R. R. Pines.	

Midville, Georgia

Triticale Grain Performance, 2000-2001
Midville, Georgia

Brand-Variety	**Yield[1]**			**2001 Data**					
	3-Yr Avg	**2-Yr Avg**	**Rank**	**Yield[1] bu/acre**	**Test Wt lb/bu**	**Ht in**	**Lodg. %**	**Winter Survival %**	**Head Date mo/day**
	- bu/acre -								
FLPFT215	**46.9**	**41.2**	4	**47.5**	52.7	34	0	100	.
Sunland	**46.8**	**36.4**	10	43.3	52.3	34	0	100	.
TRICAL 498	**44.9**	**33.2**	18	36.1	42.9	33	0	100	.
Fleming *	**42.4**	**36.6**	17	37.3	54.5	27	0	100	.
FL91144-A20	.	.	1	**52.4**	46.4	39	0	100	.
K6045-12	.	.	2	**51.7**	50.1	40	0	100	.

GA29ITYN45	.	.	3	**49.5**	46.6	32	0	100	.
GA86T27-E13-G8	.	.	5	**47.4**	46.7	37	0	100	.
FL91211-W7-Y2-A11	.	.	6	**47.0**	45.6	37	0	100	.
FL91142-A2	.	.	7	**45.9**	45.6	40	0	100	.
FLPFT701	.	.	8	**45.7**	50.9	34	0	100	.
Arcia	.	**36.0**	9	43.7	46.8	36	0	100	.
GA89T115-X4-Y1-Z2	.	.	11	43.2	43.8	40	0	100	.
FL90076-W1-X1	.	.	12	42.6	47.4	40	0	100	.
FL91142-P1-A1	.	.	13	42.3	44.3	38	0	100	.
FL91168-A11	.	.	14	40.7	46.9	36	0	100	.
FL94128-Y1-A8	.	.	15	40.3	44.7	43	0	100	.
FL91242-X1-Y1-Z1	.	.	16	37.7	46.7	35	0	100	.
FL89271-W2-Y2-Z1-A4	.	.	19	35.9	42.9	41	0	100	.
FL93039-P1-A11	.	.	20	34.6	41.9	36	0	100	.
M98-1950-1	.	.	21	34.2	47.6	36	0	100	.
Musky	.	.	22	28.9	49.6	39	0	100	.
FL81-437	.	.	23	18.2	45.2	38	0	100	.
Average	*45.2*	*36.7*		*41.1*[2]	*47.0*	*37*	*0*	*100*	.
LSD at 10% Level	*N.S.*[3]	*N.S.*		*8.4*	*2.5*	*3*	-	-	-
Std. Err. of Entry Mean	*1.8*	*2.0*		*3.6*	*1.1*	*1*	-	-	-

* Wheat check variety.

[1] Yields calculated as 48 pounds per bushel at 13.0% moisture.
[2] C.V. = 17.4%, and df for EMS = 66.
[3] The F-test indicated no statistical difference at the alpha = 0.1 probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	December 1, 2001.
Harvested:	June 6, 2001.
Seeding Rate:	16 seeds per foot in 7" rows.
Soil Type:	Dothan loamy sand.
Soil Test:	P = Medium, K = High, and pH = 6.5.
Fertilization:	Preplant: 33 lb N, 65 lb P_2O_5, and 98 lb K_2O/acre. Topdress: 65 lb N/acre.
Management:	Chisel plowed and rototilled.
Previous Crop:	Corn.

Test conducted by A. E. Coy, M. D. Pippin, and R. D. McNeill, IV.

Summary of Triticale Yields, Georgia, 2000-2001

Summary of Triticale Yields:
Georgia, 2000-2001 with Two- and Three-Year Averages

Brand-Variety	Yield[1]		
	South[2]		
	2001	2-Year Average	3-Year Average
	------- bu/acre -------		
Arcia	57.2	62.0	.
FL81-437	40.1	.	.
FL89271-W2-Y2-Z1-A4	65.8	.	.
FL90076-W1-X1	66.1	.	.
FL91142-A2	**83.5**	.	.
FL91142-P1-A1	**83.7**	.	.
FL91144-A20	**82.6**	.	.
FL91168-A11	**80.2**	.	.
FL91211-W7-Y2-A11	75.2	.	.
FL91242-X1-Y1-Z1	77.1	.	.
FL93039-P1-A11	**81.6**	.	.
FL94128-Y1-A8	76.3	.	.
Fleming *	59.0	60.6	59.1
FLPFT215	79.2	**82.2**	**78.1**
FLPFT701	79.2	.	.
GA29ITYN45	90.6	.	.
GA86T27-E13-G8	**83.0**	.	.
GA89T115-X4-Y1-Z2	74.7	.	.
K6045-12	77.5	.	.
M98-1950-1	41.5	.	.
Musky	36.4	.	.
TRICAL 498	68.7	75.2	**73.0**
Sunland	76.7	**77.9**	**76.6**
Average	*71.1*	*71.6*	*71.7*
LSD at 10% Level	*10.9*	*4.7*	*6.6*
Std. Err. of Entry Mean	*4.7*	*2.6*	*1.9*

* Wheat check variety.

[1]Yields calculated at 48 pounds per bushel at 13.0% moisture.
[2]Tifton, Plains, and Midville.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

OAT

Tifton, Georgia

Oat Grain Performance, 2000-2001
Tifton, Georgia

Brand-Variety	Yield[1]		Rank	2001 Data							
	3-Yr Avg	2-Yr Avg		Yield bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Survival %	Head Date mo/day	Bird Damage %	Straw Wt lb/acre
	-bu/acre-										
LA90113 AFL2-1-19-3	109.1	120.7	6	115.9	31.5	45	0	100	04/11	23	4274
Chapman	101.0	117.2	5	125.0	31.7	43	0	100	04/05	18	3204
Horizon 314	98.5	112.4	8	111.7	32.7	42	0	100	04/14	30	4302
Rodgers	97.9	115.7	11	109.2	31.7	47	0	100	04/12	18	3113
Harrison	.	116.8	1	133.4	34.4	49	0	100	04/09	18	3684
NK-Coker 227	.	.	2		31.1	48	0	100	04/09	18	3576
NK-Coker 820	.	.	3	133.0	34.5	47	0	100	04/03	25	5636
FLX474-1-B2-8-W1	.	.	4	130.8	35.3	47	0	100	04/07	18	4120
LA9344E10	.	.	7	111.8	32.0	44	0	100	04/14	23	5155
SC910337	.	98.0	9	111.6	36.2	45	0	100	04/12	10	4547
Arkansas Co. 604	.	.	10	110.1	32.7	45	0	100	04/14	20	4320
Brooks	.	.	12	88.6	30.3	51	0	100	04/14	23	6008
LA9339E45	.	.	13	74.8	30.9	47	0	100	04/15	33	4474
Average	*101.6*	*113.5*		*114.5*[2]	*32.7*	*46*	*0*	*100*	*04/10*	*21*	*4339*
LSD at 10% Level	*N.S.*[3]	*N.S.*		*10.5*	*1.0*	*2*	-	-	*02*	*6*	*1461*
Std. Err. of Entry Mean	*2.5*	*3.2*		*4.4*	*0.4*	*1*	-	-	*01*	*0*	*612*

[1] Yields calculated as 32 pounds per bushel at 12.5% moisture.
[2] C.V. = 7.7%, and df for EMS = 36.
[3] The F-test indicated no statistical difference at the alpha = 0.1 probability level; therefore, an LSD value was not calculated.

Boldingindicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	November 13, 2000.
Harvested:	May 28, 2001.
Seeding Rate:	11 seeds per foot in 7" rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = High, K = Medium, and pH = 6.2.
Fertilization:	Preplant: 40 lb N, 80 lb P_2O_5, and 120 lb K_2O/acre. Topdress: 62 lb N/acre.
Management:	Moldboard plowed and rototilled; Diaznon used for insect control; 2,4-D and Express used for weed control.
Previous Crop:	Grain sorghum.

Test conducted by A. E. Coy, M. D. Pippin, T. L. Hancock, M. D. Purvis, and R. E. Brooke.

Plains, Georgia

Oat Grain Performance, 2000-2001
#AAC6C6Plains, Georgia

Brand-Variety	Yield[1]			2001 Data						
	3-Yr Avg	2-Yr Avg	Rank	Yield[1] bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Survival %	Head Date mo/day	Halo Blight[2] rating
	- bu/acre -									
LA90113AFL2-1-19-3	**130.9**	**144.1**	8	135.3	28.6	42	95	100	.	4.0
Horizon 314	**122.6**	**142.2**	5	**142.4**	30.1	41	65	100	.	3.0
Chapman	**117.1**	**136.9**	3	**145.7**	29.0	37	13	100	.	3.0
Rodgers	**114.8**	**130.4**	11	125.7	27.5	43	90	100	.	1.0
NK-Coker 227	.	.	1	**148.2**	28.1	47	100	100	.	1.0
Harrison	.	**142.5**	2	**146.3**	33.4	45	70	100	.	0.5
NK-Coker 820	.	.	4	**144.3**	32.2	43	80	100	.	1.0
SC910337	.	**130.6**	6	136.7	34.7	42	100	100	.	0.5
FLX474-1-B2-8-W1	.	.	7	136.2	33.9	44	74	100	.	2.0
LA9339E45	.	.	9	128.7	31.8	47	16	100	.	4.5
Brooks	.	.	10	125.8	30.4	48	79	100	.	0.5
Arkansas Co. 604	.	.	12	120.1	30.5	42	93	100	.	0.0
LA9344E10	.	.	13	119.4	28.0	41	15	100	.	0.0
Average	*121.3*	*137.8*		*135.0*[3]	*30.6*	*43*	*68*	*100*	.	*1.6*
LSD at 10% Level	*N.S.*[4]	*N.S.*		*8.0*	*2.0*	*2*	*16*	-		*1.3*
Std. Err. of Entry Mean	*2.3*	*2.3*		*3.4*	*0.8*	*1*	*7*	-		*0.5*

[1] Yields calculated as 32 pounds per bushel at 12.5% moisture.
[2] 1 = resistant to 5 = highly susceptible.
[3] C.V. = 5.0%, and df for EMS = 36.
[4] The F-test indicated no statstical difference at the alpha = 0.1 probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	November 15, 2000.
Harvested:	June 7, 2001.
Seeding Rate:	15 seeds per foot in 7" rows.
Soil Type:	Greenville sandy clay loam.
Soil Test:	P = Medium, K = Medium, and pH = 6.2.
Fertilization:	Preplant: 20 lb N, 50 lb P_2O_5, and 50 lb K_2O/acre. Topdress: 50 lb N/acre.
Management:	Subsoiled and rototilled.
Previous Crop:	Peanut.

Test conducted by A. E. Coy, M. D. Pippen, and R. R. Pines.

Midville, Georgia

Oat Grain Performance, 2000-2001
Midville, Georgia

Brand-Variety	Yield[1]			2001 Data					
	3-Yr Avg	2-Yr Avg	Rank	Yield bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Survival %	Head Date mo/day
	- bu/acre -								
LA90113AFL2-1-19-3	**80.8**	**75.4**	2	**72.9**	34.7	33	0	100	.
Rodgers	**79.9**	**77.6**	3	**72.7**	33.2	40	3	100	.
Chapman	**73.3**	**73.1**	9	61.1	33.3	31	0	100	.
Horizon 314	**72.1**	**71.2**	5	**67.1**	34.4	35	0	100	.
SC910337	.	**67.8**	1	**73.3**	37.1	34	5	100	.
FLX474-1-B2-8-W1	.	.	4	**72.6**	38.1	33	2	100	.
Harrison	.	**72.4**	6	**65.9**	36.9	36	0	100	.
LA9339E45	.	.	7	**65.7**	35.3	37	1	100	.
NK-Coker 820	.	.	8	**64.4**	35.5	33	5	100	.
NK-Coker 227	.	.	10	59.9	32.4	33	6	100	.
LA9344E10	.	.	11	52.9	31.8	35	1	100	.
Arkansas Co. 604	.	.	12	49.4	33.0	35	1	100	.
Brooks	.	.	13	49.0	33.6	37	3	100	.
Average	*76.5*	*72.9*		*63.6*[2]	*34.6*	*35*	*2*	*100*	.
LSD at 10% Level	*N.S.*[3]	*N.S.*		*9.8*	*0.9*	*3*	*2*	-	-
Std. Err. of Entry Mean	*2.6*	*2.9*		*4.1*	*0.4*	*1*	*1*	-	-

[1] Yields calculated as 32 pounds per bushel at 12.5% moisture.
[2] C.V. = 12.9%, and df for EMS = 36.
[3] The F-test indicated no statistical difference at the alpha = 0.1 probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	November 16, 2000.
Harvested:	June 5, 2001.
Seeding Rate:	11 seeds per foot in 7" rows.
Soil Type:	Dothan loamy sand.
Soil Test:	P = Medium, K = High, and pH = 6.5.
Fertilization:	Preplant: 33 lb N, 65 lb P_2O_5, and 98 lb K_2O/acre. Topdress: 65 lb N/acre.
Management:	Chisel plowed and rototilled.
Previous Crop:	Corn.

Test conducted by A. E. Coy, M. E. Pippin, and R. D. McNeill, IV.

Griffin, Georgia

Oat Grain Performance, 2000-2001
Griffin, Georgia

Brand-Variety	Yield[1]			2001 Data							
	3-Yr Avg	2-Yr Avg	Rank	Yield[1] bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Survival %	Head Date mo/day	Bird Damage %	
	-bu/acre-										
LA90113AFL2-1-19-3	**105.0**	**128.0**	2	**118.9**	35.1	39	1	100	04/13	4	
Horizon 314	**104.8**	**129.0**	5	109.0	35.4	41	0	100	04/20	5	
Rodgers	89.4	105.1	7	84.2	30.4	44	0	100	04/17	0	
SS76-30	58.6	71.6	14	59.9	33.6	44	0	100	04/17	11	
Iapar I-61	55.6	69.2	13	65.5	29.7	60	83	33	04/21	0	
FLX474-1-B2-8-W1	.	.	1	**123.0**	37.1	42	10	100	04/11	2	
Harrison	.	108.5	3	**111.6**	34.1	46	0	100	04/18	1	
LA9344E10	.	.	4	110.0	33.2	39	0	100	04/24	2	
LA9339E45	.	.	6	102.0	33.5	42	1	100	04/20	1	
NK-Coker 820	.	.	8	81.5	34.5	40	1	100	04/15	24	
NK-Coker 227	.	.	9	76.9	26.0	38	16	100	04/15	1	
SC910337	.	86.3	10	76.3	35.4	42	5	100	04/17	2	
Arkansas Co. 604	.	.	11	72.4	33.7	37	0	100	04/20	0	
Brooks	.	.	12	71.1	31.0	48	3	100	04/20	6	
Average	*82.7*	*99.7*		*90.1*[2]	*33.0*	*43*	*8*	*95*	*04/18*	*4*	
LSD at 10% Level	*5.9*	*8.1*		*11.6*	*5.1*	*3*	*8*	-	*03*	*8*	
Std. Err. of Entry Mean	*2.5*	*3.4*		*4.9*	*2.2*	*1*	*3*	-	*01*	*3*	

[1] Yields calculated as 32 pounds per bushel at 12.5% moisture.
[2] C.V. = 10.8%, and df for EMS = 39.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	October 10, 2000.
Harvested:	May 30, 2001.
Seeding Rate:	11 seeds per foot in 7" rows.
Soil Type:	Appling coarse sandy loam.
Soil Test:	P = Medium, K = Medium, and pH = 6.0.
Fertilization:	Preplant: 28 lb N, 56 lb P_2O_5, and 84 lb K_2O/acre. Topdress: 60 lb N/acre.
Management:	Moldboard plowed and rototilled.
Previous Crop:	Wheat.

Test conducted by P. A. Rose.

Calhoun, Georgia

Oat Grain Performance, 2000-2001 Calhoun, Georgia			
Brand-Variety	**Yield[1]**	**2001 Data**	

	3-Yr Avg	2-Yr Avg	Rank	Yield bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Survival %	Head Date mo/day	Bird Damage %	Straw Wt lb/acre
	-bu/acre-										
LA90113 AFL2-1-19-3	**63.4**	**71.6**	2	58.9	33.5	46	59	100	.	2	4988
Horizon 314	**61.1**	**74.5**	4	52.4	32.9	46	60	100	.	4	5423
Rodgers	**58.5**	**73.0**	6	46.5	31.7	50	44	100	.	1	6273
SS76-30	**38.6**	**45.0**	8	39.2	30.7	49	43	100	.	3	4988
Harrison	.	**77.7**	1	**75.5**	34.1	45	28	100	.	5	5140
LA9339E45	.	.	3	53.6	31.9	49	64	100	.	4	5205
FLX474-1-B2-8-W1	.	.	5	47.6	34.8	43	60	100	.	2	4269
NK-Coker 820	.	.	7	40.3	32.9	41	78	100	.	4	4748
NK-Coker 227	.	.	9	37.7	31.5	43	78	100	.	4	4900
Brooks	.	.	10	37.6	28.9	50	68	100	.	2	5641
LA9344E10	.	.	11	34.0	30.1	41	84	100	.	4	4160
Arkansas Co. 604	.	.	12	29.4	30.2	41	83	100	.	1	5162
SC910337	.	**50.2**	13	28.9	34.2	45	84	100	.	3	4225
Average	*55.4*	*65.3*		*44.7*[2]	*32.1*	*45*	*64*	*100*	.	*3*	*5009*
LSD at 10% Level	*N.S.*[3]	*N.S.*		*11.1*	*1.6*	*4*	*29*	-	-	*N.S.*	*1042*
Std. Err. of Entry Mean	*2.2*	*2.8*		*4.6*	*0.7*	*2*	*12*	-	-	*1*	*436*

[1] Yields calculated as 32 pounds per bushel at 12.5% moisture.
[2] C.V. = 20.7%, and df for EMS = 36.
[3] The F-test indicated no statistical difference at the alpha = 0.1 probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	October 23, 2000.
Harvested:	June 15, 2001.
Seeding Rate:	11 seeds per foot in 7" rows.
Soil Type:	Waynesboro loam.
Soil Test:	P = Very High, K = High, and pH = 6.6.
Fertilization:	Preplant: 20 lb N, 40 lb P_2O_5, and 60 lb K_2O/acre. Topdress: 70 lb N/acre.
Management:	Moldboard plowed and rototilled.
Previous Crop:	Canola.

Test conducted by P. A. Rose, G. Rawls, and J. Stubbs.

Summary of Oat Yields, Georgia, 2000-2001, with Two- and Three-Year Averages

Summary of Oat Yields: Georgia, 2000-2001 with Two- and Three-Year Averages									
Brand-Variety	**Yield[1]**								
	South[2]			**North[3]**			**Statewide**		
	2001	**2-Yr Avg**	**3-Yr Avg**	**2001**	**2-Yr Avg**	**3-Yr Avg**	**2001**	**2-Yr Avg**	**3-Yr Avg**
	---------- **bu/acre** ----------								
Arkansas Co. 604	93.2	.	.	50.9	.	.	76.3	.	.
Brooks	87.8	.	.	54.4	.	.	74.4	.	.
Chapman	**110.6**	**109.1**	**97.1**	.	.	.	.	.	.
FLX474-1-B 2-8-W1	**113.2**	.	.	**85.3**	.	.	**102.0**	.	.
Harrison	**115.2**	**110.6**	.	**93.5**	**93.1**	.	**106.5**	**103.6**	.
Horizon 314	107.1	**108.6**	**97.7**	**80.7**	**101.7**	**83.0**	96.5	**105.9**	91.8
Iapar I-61	.	.	.	.	.	.	.	.	.
LA90113AF L2-1-19-3	**108.0**	**113.4**	**106.9**	**88.9**	**99.8**	**84.2**	**100.4**	**108.0**	**97.8**
LA9339E45	89.7	.	.	**77.8**	.	.	85.0	.	.
LA9344E10	94.7	.	.	72.0	.	.	85.6	.	.
NK-Coker 227	**113.7**	.	.	57.3	.	.	91.1	.	.
NK-Coker 820	**113.9**	.	.	60.9	.	.	92.7	.	.
Rodgers	102.5	**107.9**	**97.5**	65.3	89.0	**73.9**	87.7	100.3	88.1
SC910337	107.2	**98.8**	.	52.6	68.3	.	85.3	86.6	.
SS76-30	.	.	.	49.5	58.3	**48.6**	.	.	.
Average	*104.4*	*108.1*	*99.8*	*68.4*	*85.0*	*72.4*	*90.3*	*100.9*	*92.6*
LSD at 10% Level	*7.2*	*N.S.[4]*	*N.S.*	*16.4*	*12.5*	*11.0*	*7.4*	*5.7*	*5.4*
Std. Err. of Entry Mean	*2.3*	*1.6*	*1.4*	*6.9*	*4.3*	*3.3*	*3.1*	*2.0*	*1.8*

[1] Yields calculated at 32 pounds per bushel at 12.5% moisture.
[2]Tifton, Plains, and Midville.
[3] Griffin and Calhoun.
[4] The F-test indicated no statistical difference at the alpha = 0.1 probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

BARLEY

Plains, Georgia

Barley Grain Performance, 2000-2001
Plains, Georgia

Brand-Variety	Yield[1]			2001 Data						
	3-Yr Avg	2-Yr Avg	Rank	Yield[1]	Test Wt	Ht	Lodg.	Winter Survival	Head Date	Straw Weight
GA-Luttrell	**94.2**	**104.6**	9	98.7	46.8	37	40	100	04/03	2345
Nomini	**91.8**	**103.3**	6	107.5	46.0	40	100	100	04/03	2679
Starling	**83.0**	91.0	11	94.3	44.6	38	98	100	04/08	2911
VA97B-176	.	.	1	112.5	49.7	35	93	100	04/06	3274
VA96-44-321	.	.	2	111.7	46.8	36	95	100	04/05	2948
VA97R-388	.	.	3	110.7	48.3	35	60	100	04/05	2370
VA96-44-304	.	.	4	109.2	48.2	34	78	100	04/03	2167
VA97B-142	.	.	5	108.3	47.8	33	100	100	04/04	3074
VA97B-178	.	.	7	107.0	45.6	34	100	100	04/05	2684
VA96R-248	.	.	8	102.2	48.5	36	100	100	04/06	2660
GA-Acton	.	96.2	10	96.5	44.8	37	90	100	04/04	2624
Wysor	.	83.2	12	83.7	47.7	36	95	100	04/04	2707
Boone	.	81.6	13	82.7	45.2	35	88	100	04/11	3021
Average	*89.7*	*93.3*		*101.9*[2]	*46.9*	*35*	*87*	*100*	*04/05*	*2728*
LSD at 10% Level	*N.S.*[3]	*7.3*		*13.4*	*2.0*	*3*	*14*	-	*01*	*470*
Std. Err. of Entry Mean	*1.5*	*3.0*		*5.7*	*0.8*	*1*	*6*	-	*01*	*197*

[1] Yields calculated as 48 pounds per bushel at 12.0% moisture.
[2] C.V. = 11.2%, and df for EMS = 36.
[3] The F-test indicated no statistical difference at the alpha = 0.1 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	November 15, 2000.
Harvested:	June 7, 2001.
Seeding Rate:	15 seeds per foot in 7" rows.
Soil Type:	Greenville sandy clay loam.
Soil Test:	P = Medium, K = Medium, and pH = 6.2.
Fertilization:	Preplant: 20 lb N, 50 lb P_2O_5, and 50 lb K_2O/acre. Topdress: 50 lb N/acre.
Management:	Subsoiled and rototilled.
Previous Crop:	Peanut.
Test conducted by A. E. Coy, M. D. Pippin, and R. R. Pines.	

Calhoun, Georgia

Barley Grain Performance, 2000-2001
Calhoun, Georgia

Barley varieties were planted at this location in Fall 2000. However, extensive deer predation on the barley head caused considerable variation in performance among plots within the test. After carefulanalysis and review of this data, it is the opinion of the editors that the results of this trial may not accurately reflect the performance potential of all test entries. Since this data could be misleading ifused in making decisions concerning variety selection, we have chosen not to present them in this publication.

Planted:	October 23, 2000.
Harvested:	June 12, 2001.
Seeding Rate:	15 seeds per foot in 7" rows.
Soil Type:	Waynesboro loam.
Soil Test:	P = Very High, K = High, and pH = 6.6.
Fertilization:	Preplant: 20 lb N, 40 lb P_2O_5, and 60 lb K_2O/acre. Topdress: 70 lb N/acre.
Management:	Moldboard plowed and rototilled.
Previous Crop:	Canola.
Test conducted by P. A. Rose, G. Rawls, and J. Stubbs.	

RYE

Tifton, Georgia

Rye Grain Performance, 2000-2001
Tifton, Georgia

Brand-Variety	**Yield[1]**			**2001 Data**						
	3-Yr Avg	**2-Yr Avg**	**Rank**	**Yield[1] bu/acre**	**Test Wt lb/bu**	**Ht in**	**Lodg. %**	**Winter Survival %**	**Head Date mo/day**	**Straw Wt lb/acre**
	- bu/acre -									
Wrens 96	**42.3**	**49.9**	3	**51.9**	54.3	69	40	100	03/21	6416
Wrens Abruzzi	**39.8**	45.1	1	**53.0**	54.5	67	55	100	03/17	4374
Bates	38.6	**47.1**	5	45.1	54.8	68	48	100	03/22	5554
Wintergrazer 70	35.9	45.0	4	47.1	55.2	68	55	100	03/21	5109
GI-87	34.4	44.5	7	43.9	57.5	66	63	100	03/20	4583
Oklon	32.5	39.8	8	42.7	54.6	67	54	100	03/22	4801
Maton	29.3	37.9	6	44.2	55.2	67	48	100	03/23	5055
Elbon	28.2	35.7	9	42.3	55.2	67	63	100	03/24	3821
GA96P16M	.	.	2	**52.9**	53.5	66	53	100	03/15	4701
SPIRye	.	39.2	10	42.3	54.7	66	68	100	03/20	4220
Winter King	.	.	11	42.2	54.9	67	48	100	03/22	4746
Hancock *	.	10.2	12	8.5	39.4	52	100	100	.	2232
Average	*35.1*	*39.4*		*43.0[2]*	*53.7*	*66*	*58*	*100*	*03/21*	*4634*
LSD at 10% Level	*2.6*	*3.7*		*5.6*	*1.8*	*2*	*20*	-	*03*	*832*
Std. Err. of Entry Mean	*1.1*	*1.6*		*2.3*	*0.7*	*1*	*8*	-	*01*	*347*

* Variety did not vernalize.

[1] Yields calculated as 56 pounds per bushel at 13.0% moisture.
[2] C.V. = 10.8%, and df for EMS = 33.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	November 13, 2000.
Harvested:	May 28, 2001.
Seeding Rate:	18 seeds per foot in 7" rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = High, K = Medium, and pH = 6.2.
Fertilization:	Preplant: 40 lb N, 80 lb P_{2O_5}, and 120 lb K_2O/acre. Topdress: 62 lb N/acre.
Management:	Moldboard plowed and rototilled; Diaznon used for insect control; 2,4-D and express used for weed control.
Previous Crop:	Grain sorghum.
Test conducted by A. E. Coy, M. D. Pippin, T. L. Hancock, M. D. Purvis, and R. E. Brooke.	

Griffin, Georgia

Rye Grain Performance, 2000-2001
Griffin, Georgia

Brand-Variety	Yield[1]			2001 Data						
	3-Yr Avg	2-Yr Avg	Rank	Yield[1] bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Survival %	Head Date mo/day	Straw Wt lb/acre
	- bu/acre -									
Wrens Abruzzi	**57.1**	**61.1**	2	**60.8**	54.1	67	15	100	03/14	3710
Wintergrazer 70	**54.9**	**58.5**	4	52.0	55.2	72	28	100	03/17	3942
Bates	**53.3**	53.4	3	**60.1**	54.9	74	19	100	03/31	3734
Wrens 96	49.6	52.2	7	50.4	54.7	71	23	100	03/24	3180
Oklon	49.4	51.3	6	50.8	55.1	75	41	100	04/01	3572
GI-87	48.2	48.4	10	46.7	54.7	70	29	100	03/16	3027
Maton	44.8	45.3	5	51.6	55.5	71	33	100	04/03	3616
Elbon	41.4	42.1	8	50.1	55.9	71	37	100	04/01	3027
GA96P16M	.	.	1	**62.7**	53.5	72	3	100	03/22	3049
SPIRye	.	48.6	9	48.3	55.2	69	20	100	03/24	3376
Winter King	.	.	11	43.2	55.3	73	49	100	04/02	3006
Hancock	.	34.1	12	27.4	50.1	59	94	100	04/13	2425
Average	*49.8*	*49.5*		*50.3*[2]	*54.5*	*70*	*32*	*100*	*03/27*	*3305*
LSD at 10% Level	*4.0*	*4.9*		*7.1*	*0.8*	*3*	*23*	-	*07*	*287*
Std. Err. of Entry Mean	*1.7*	*2.0*		*3.0*	*0.3*	*1*	*9*	-	*03*	*120*

[1] Yields calculated as 56 pounds per bushel at 13.0% moisture.
[2] C.V. = 11.8%, and df for EMS = 33.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 10, 2000.

Harvested: June 6, 2001.

Seeding Rate: 18 seeds per foot in 7" rows.

Soil Type: Appling coarse sandy loam.

Soil Test: P = Medium, K = Medium, and pH = 6.0.

Fertilization:

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