No. 9500254

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

University of Georgia Research Foundation, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT [illegible]RIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN [illegible] UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF [illegible]D SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF [illegible]S. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'GA-Dozier'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of December in the year of our Lord one thousand nine hundred and ninety-five.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[illegible]ctary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions.*

FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
University of Georgia Research Foundation, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
GA84438

3. VARIETY NAME
GA-Dozier

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
Boyd Graduate Studies Research Center, 6th Floor
D.W. Brooks Drive
Athens, GA 30602-7411

5. TELEPHONE *(include area code)*
(706) 542-5929

6. FAX *(include area code)*
(706) 542-5638

FOR OFFICIAL USE ONLY

PVPO NUMBER: 9500254

FILING DATE: JULY 11, 1995

FEES RECEIVED — FILING AND EXAMINATION FEE: $2325.00 & $175.00
DATE: 07/11/95 & 09/17/95
CERTIFICATION FEE: $300.00
DATE: NOVEMBER 17, 1995

7. GENUS AND SPECIES NAME
Triticum aestivum

8. FAMILY NAME *(Botanical)*
Gramineae

9. CROP KIND NAME *(Common name)*
Wheat, common

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)* *(Common name)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Georgia

12. DATE OF INCORPORATION
November 17, 1978

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
Janice A. Kimpel
University of Georgia Research Foundation, Inc.
Boyd Graduate Studies Research Center, 6th Floor
Athens, GA 30602-7411

14. TELEPHONE *(include area code)*
(706) 542-5929

15. FAX *(include area code)*
(706) 542-5638

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow instructions on reverse)*

a. [X] Exhibit A. Origin and Breeding History of the Variety
b. [X] Exhibit B. Statement of Distinctness
c. [X] Exhibit C. Objective Description of the Variety
d. [X] Exhibit D. Additional Description of the Variety
e. [X] Exhibit E. Statement of the Basis of the Applicant's Ownership
f. [X] Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository)*
g. [X] Filing and Examination Fee ($2,450), made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)?*
[X] YES *(If "yes," answer items 18 and 19 below)* [ ] NO *(If "no," go to item 20)*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
[X] YES [ ] NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
[X] FOUNDATION [ ] REGISTERED [X] CERTIFIED per letter MAH 8-31-95

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
[X] YES *(If "yes," give names of countries and dates)* [ ] NO
U.S. 10/5/94

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*		SIGNATURE OF APPLICANT *(Owner(s))*	
Joe L Key			
NAME *(Please print or type)* Joe L. Key		NAME *(Please print or type)*	
CAPACITY OR TITLE Executive Vice President	DATE 6/30/95	CAPACITY OR TITLE	DATE

Exhibit A

Origin and Breeding History of GA-Dozier

'GA-Dozier' a soft red winter wheat (Triticum aestivum L.) was developed at the University of Georgia Agricultural Experiment Station in cooperation with the USDA-ARS and released in 1994. GA-Dozier was derived from a single cross in 1984: 'Saluda'/ FL 74265. It was named to honor Hugh Dozier, the former research assistant for the breeding program for over 25 years at the Georgia Station, Griffin. The cultivar was developed using a modified pedigree method of breeding. Individual spike selections were made for leaf rust, powdery mildew, and Hessian fly resistances and agronomic traits in the F2, F3, F4, and F5 generations at Griffin, GA. GA-Dozier is the progeny of five rows bulked together after selection from 100 head rows in the F7 generation. Breeder seed, produced in 1994, is in the F10 generation.

GA-Dozier was evaluated for agronomic performance as GA 84438 in breeding nursery plots in 1990 (1 rep at two locations) and 1991 (4 rep at three locations), in state trials at five locations in 1992 thru 1994, and in the Uniform Southern Soft Red Winter Wheat Nursery at about 30 locations in 1993.

GA-Dozier is late maturing, short-statured at maturity, white chaffed, awned, and characterized by excellent straw strength with high yield potential. During 4 yr (five locations yr-1) in Georgia, GA-Dozier and 'GA 100' yielded an average of 4404 and 3810 kg ha-1, respectively. It is 1 day earlier than Saluda in maturity, and has better lodging resistance than Saluda. Milling and baking quality characteristics of GA-Dozier are rated as excellent for soft red winter wheat use by the USDA-Soft Wheat Quality Laboratory, Wooster, OH.

GA-Dozier is resistant to biotypes of Hesssian fly (Mayetiola destructor (Say)) present in Georgia, and resistant to current races of leaf rust and moderately resistant powdery mildew caused by Puccinia recondita (Roberge ex Desmaz), and Erysiphe graminis DC. f. sp. tritici Em. Marchal.

The cultivar has been observed for five generations in the field. It has proven to be uniform and stable, containing a small amount of variants, containing 1/1000 tall plants and 1/5000 awnless plants. These variant plants are within an acceptable limit for seed certification. Breeder seed of GA-Stuckey has shown to be genetically stable and can be maintained and reproduced via seed without changing its characteristics.

Breeder seed of GA-Dozier will be maintained by the Georgia Agricultural Experiment Station, University of Georgia, Georgia Station, Griffin, GA 30223-1797.

9500254

Exhibit B

Novelty Statement

GA-Dozier is a soft red winter wheat, awned, and white chaffed. It is most similar in appearance to Saluda in plant type, GA-Dozier is awned and Saluda is awnletted. It is also one day earlier in heading and 5 cm shorter in height than Saluda. GA-Dozier is resistant to leaf rust races TBGL, TLGG, and TDJQ, whereas Saluda is susceptible to these three races (TBGL, TLGG, AND TDJQ). GA-Dozier expresses a resistant reaction to 7 stem rust races (QFBS, QSHS, RKQS, RPQQ, RTQQ, TNMH, and TNMK) in a differential screening set, whereas Saluda is susceptible to these 7 races (QFBS, QSHS, RKQS, RPQQ, RTQQ, TNMH, AND TNMK).

FORM APPROVED: OMB NO. 0581-0066

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
COMMODITIES SCIENTIFIC SUPPORT DIVISION
BELTSVILLE, MARYLAND 20705

8500254

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (*TRITICUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
University of Georgia Research Foundation, Inc.

ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*)

FOR OFFICIAL USE ONLY

PVPO NUMBER

VARIETY NAME OR TEMPORARY DESIGNATION
GA-Dozier

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. KIND:
[1] 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:
[2] 1 = SPRING 2 = WINTER 3 = OTHER (*Specify*) _____
[1] 1 = SOFT 2 = HARD 3 = OTHER (*Specify*) _____
[2] 1 = WHITE 2 = RED 3 = OTHER (*Specify*) _____

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:
[1][5][1] FIRST FLOWERING
[1][5][6] LAST FLOWERING

4. MATURITY (*50% Flowering*):
[0][1] NO. OF DAYS *EARLIER* THAN .....
[ ][ ] NO. OF DAYS *LATER* THAN .....
[7] 1 = ARTHUR 2 = SCOUT 3 = CHRIS 7 = Saluda 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT (*From soil level to top of head*):
[0][8][8] CM. HIGH
[ ][ ] CM. TALLER THAN .....
[0][5] CM. SHORTER THAN .....
[7] 1 = ARTHUR 2 = SCOUT 3 = CHRIS 7 = Saluda 4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING (*See reverse*):
[2] 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHER COLOR:
[1] 1 = YELLOW 2 = PURPLE

8. STEM:
[1] Anthocyanin: 1 = ABSENT 2 = PRESENT
[2] Waxy bloom: 1 = ABSENT 2 = PRESENT
[1] Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT
[1] Internodes: 1 = HOLLOW 2 = SOLID
[0][4] NO. OF NODES (*Originating from node above ground*)
[1][3] CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:
[1] Anthocyanin: 1 = ABSENT 2 = PRESENT
[1] Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:
[1] Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 3 = OTHER (*Specify*): _____
[1] Flag leaf: 1 = NOT TWISTED 2 = TWISTED
[ ] Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT
[2] Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT
[1][4] MM. LEAF WIDTH (*First leaf below flag leaf*)
[1][5] CM. LEAF LENGTH (*First leaf below flag leaf*):

FORM LMGS 470-6 (6-82) (Formerly Form LPGS 470-6 (3-79), which may be used)

4

9500254

11. HEAD:

[2] Density: 1 = LAX 2 = DENSE

[1] Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER (Specify) _____

RECEIVED
USDA-AMS-PVPO

[4] Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

[1] Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER (Specify): _____

'95 AUG 31 P3:25

[0][7] CM. LENGTH [1][2] MM. WIDTH

12. GLUMES AT MATURITY:

[2] Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.)

[2] Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 3 = WIDE (CA. 4 mm.)

[2] Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE

[3] Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

13. COLEOPTILE COLOR:

[ ] 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

[ ] 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

[2] 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

[1] Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL

[1] Check: 1 = ROUNDED 2 = ANGULAR

[1] Brush: 1 = SHORT 2 = MEDIUM 3 = LONG

[1] Brush: 1 = NOT COLLARED 2 = COLLARED

[ ] Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK

[3] Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) _____

[0][6] MM. LENGTH [0][3] MM. WIDTH [3][3] GM. PER 1000 SEEDS

17. SEED CREASE:

[1] Width: 1 = 60% OR LESS OF KERNEL 'WINOKA'
2 = 80% OR LESS OF KERNEL 'CHRIS'
3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

[1] Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT'
2 = 35% OR LESS OF KERNEL 'CHRIS'
3 = 50% OR LESS OF KERNEL 'LEMHI'

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[2] STEM RUST (Races) QFBS, QSHS, RKQS, RPQQ, RTQQ, TNMH, TNMK

[2] LEAF RUST (Races) TBGL, TLGC, TDJQ

[0] STRIPE RUST (Races) _____

[0] LOOSE SMUT

[2] POWDERY MILDEW

[0] BUNT

[ ] OTHER (Specify) _____

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[0] SAWFLY

[0] APHID (Bydv.)

[0] GREEN BUG

[0] CEREAL LEAF BEETLE

[ ] OTHER (Specify) _____

HESSIAN FLY RACES:

[2] GP [0] A [1] B [1] C
[1] D [2] E [0] F [0] G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Saluda	Seed size	Saluda
Leaf size	Saluda	Seed shape	Saluda
Leaf color	Saluda	Coleoptile elongation	
Leaf carriage		Seedling pigmentation	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(a) L.W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.

(b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

Exhibit D

Additional Description of GA-Dozier

GA-Dozier is a common soft red winter wheat, Triticum aestivum L. bred and developed by the University of Georgia, Georgia Agricultural Experiment Station at the Georgia Experiment Station, Griffin, Georgia.

GA-Dozier is late, short in stature at maturity. It has good resistant to powdery mildew, except to the race that is virulent to Pm 8. Additional information is available in the application for approval form which is included.

Information on the milling and baking quality characteristics is also included in a quality report.

Table 1. Average performance of GA 84438 and check cultivars at Griffin, GA in 1990.

Entry	Grain Yield Bu/A	Test Wt. lbs/bu	Date Headed	Height in	Quality Score
GA 84438	74.2a*	56.4	4/21	31	B**
FL 302	65.1b	55.7	4/19	37	B
GA 100	63.6b	55.8	4/17	32	C

* Means followed by the same letter are not significantly different based on a LSD (0.10) level.

** Milling and Baking Quality Scores where A-C is acceptable and D-F is unacceptable, tested by Soft Wheat Quality Lab.

Table 2. Average performance of GA 84438 and check cultivars at Griffin, Plains, and Midville in 1991.

Entry	Grain Yield Bu/A	Test Wt. lbs/bu[1]	Date Headed[2]	Height in[2]	Quality Score	Powdery mildew %[3]
GA 84438	64a*	53.3	4/9	35	A**	0a†
FL 302	60a	49.5	4/1	37	A	7b

*,**See Table 1.

† Rated on leaf area infested (0-9) scale where 0-3 is classified as resistant, and 7-9 as susceptible.

[1] Plains and Griffin only

[2] Plains only

[3] Griffin only

RECEIVED
USDA-AMS-PVPO
'95 JUL 11 AM 8:2

7

Table 3. Average yield performance of GA 84438 and check cultivars over 2 years (1992-1993) at five locations.

Entry	Location					Average
	Tifton	Plains	Midville	Griffin	Calhoun	
GA 84438	49.3a*	70.3a	60.1b	90.4a	56.5a	66.6a
GA 100	45.7a	64.9b	61.2b	74.7b	49.4a	59.2b
C 9835	55.2a	72.7a	72.0a	93.0a	61.9a	70.7a

*See Table 1.

Table 4. Average yield performance of GA 84438 and check cultivars over 2 years (1993-1994) at five locations.

Entry	Location					Average
	Tifton	Plains	Midville	Griffin	Calhoun	
GA 84438	57.5a*	63.2a	57.3a	94.7a	61.5a	66.8b
GA 100	49.9b	57.1b	54.4a	81.3b	73.6a	67.7b
C 9835	59.3a	59.1b	66.0a	99.9a	75.8a	72.0a

*See Table 1.

Table 5. Average performance of GA 84438 and check cultivars over 2 years (1993-1994) at four locations.

Entry	Test Wt. lbs/bu	Lodging %	Date Headed	Leaf Rust[4]	Powdery Mildew[5]
GA 84438	58.0	0	4/20	1a[†]	0a[*]
GA 100	54.4	6	4/14	7b	1a
Saluda	57.4[3]	12[3]	4/21	9b	7b

[†]See Table 2.

[1]Average Tifton, Plains, Griffin, and Calhoun

[2]Average Griffin and Calhoun

[3]Griffin and Calhoun only

[4]Tifton, Plains, Griffin 1993 and Plains 1994

[5]Griffin 1993 only

Table 6. Evaluations of GA 84438 and check cultivars for Hessian fly resistance, Plains, GA 1993.

Entry	Infested tillers(%) 1993	Infested tillers(%) 1994	Number of larvae/tillers 1993	Number of larvae/tillers 1994	Rating
GA 84438	1.1a	1.1a	0.02a	0.01a	R
FL 302	14.4b	11.1b	0.33b	0.19b	S
Coker 9803	46.7c	24.4c	0.77c	0.32c	S

Table 7. Average performance of GA 84438 and three cultivars in the Uniform Southern Wheat Nursery (29 locations in 1993).

Entry	Grain Yield (Bu/A)	Test Wt. (Lbs/Bu)	Date Headed	Powdery Mildew[1]	Leaf Rust[2]	
GA 84438	58.2b[*]	56.7	112.0	1a	1a	1a[†]
FL 302	58.5b	53.8	109.4	2a	7b	7b
Saluda	54.5b	56.3	110.3	7b	6b	6b
C 9835	65.8a	55.4	109.4	3a	1a	1a

[*,†],See Table 1.

[1]Griffin, GA; Florence, SC; and Warsaw, VA.

[2]Griffin, GA; Baton Rouge, LA; Florence, SC; and Warsaw, VA.

Seedling reaction of entries of the 1992-1993 Uniform Southern Soft Red Winter Wheat Performance Nursery to selected isolates of Puccinia recondita f.sp. tritici (D. L. Long, USDA-ARS, Cereal Rust Laboratory, 1551 Lindig St., St. Paul, MN. 55108)

No.	Cultivar or line	Reactions produced by NA race *										Postulated Seedling Lr genes **
		TBGL	BGDL	MCBL	TDBL	PBMG	TLGG	TDJQ	TFBL	LBBQ	PQMQ	
1	Fla 302	3	3	3	3	;1c	;	3	3	3	3	10**
2	Saluda	3	;1c	;1c2	;3	;1c2	3	3	;1c1	;1c	;1c2	11
3	CK 9835	;	;	;	;	;	;3	;	;	;	;	+
4	AR 26413A	3	;	;1c	;3	;1c	3;	3	;1c	;1c2	;1c	11,+
5	AR 26413B	;	;	;	;	;	3	;	;	;	3	9,+
6	SC 850236	3c;	;	;1c-3	;3	3	;1c-3	3	3	3	3	1,+
7	AL 881060	;	;	;	3;	;	;	;-3	3	;	;	24
8	MD 80004-62	3	3	3	3	3	3	3	3	3	3	0
9	GA 85238-C5-AB5-4	;	;	;	;	;	;	;	;1c	;	;	+
10	GA 85238-C5-AB3-3	;	;	;	;	;	;	;	;	;	;	+
11	GA 83125-C5221	;	;	;	;1c	;3	;3	31c;	;2	;1c2	;1c2	18,+
12	GA 83228-1	3	3	3	3	3	3	3	3	3;	3	0
13	TX 85-264	3	3	3	3	3	3	3	3	3	3	0
14	ABI 88D-1903	;1c	;	;1c2	;	3	3	3	;1c	3	3	18
15	SC 870196	3	3;	3	3	3	3	3	3	3	3;	+
16	MD 80071-56	;1	;	;1c	;1c	3	3	3	1c1	3	3	18,+
17	TN 84-613	3	;	;	3	;	3	3	3	;	;	2a,+
18	TN 85-455	3	3	3	3	3	3	3	3	3	3	0
19	TX 86-106H	3	3	3	3	;	;	3	3	3	3	10
20	TX 82-11	;	;	;	;	;	3	;	;	;	;1c	2a,9
21	TX 89D2148	;1c2	;	;1c2	;1c2	;	3	3	;1c	;1c	;1c	11,18
22	TX 89D6435	;	-	;1c	;1c	;	;	;	3	;	;1c	24,26
23	GA 84438	;	-	;	;1c3	;	;	;	3	;	;	24,26
24	GA 831127	;1c	;	;1c	;1c	;-2	3	;2	;1c1	;1c1	;1c	9,11,18
25	VA 90-52-26	;	;	3;	;3	;	;	;	3;	;1c	;1c	26,+
26	VA 92-52-52	3	;	;1c	;3	;1c	3	3	;1c	;1c	;2	11
27	ABI 90-8369	;	;	;	;3	;	;	;1c2	3	;	;	24,26
28	ABI 90-8050	3	;1c	3	3	3	1c;	;2	3;	3;	3;	+
29	ABI 90-8284	3;	;1c	;1c	;3	;1c	;	3	3;	3	3	10,18,+
30	L890682	;1c	;	;1c	;3	;1c	3	3	;1c1	;1c2	;1c2	11,18
31	L890714	;	;	;	;3	;	;	;	3	;	;	24,26
32	FL 8150-J9-K1	;	;	;	;	;	;	;	;1c	;	;	+
33	FL85238-G76	;-3	;	;-3	;3	;	;	;-3	3;	;	;	+
34	FL 85238-G3-G2	;	;	;1c	;1c	;	;	;	;	;	;	+

*Single genes tested = 1,2a,2c,3,3ka,9,10,11,16,17,18,24,26,30

Virulence formula:

TBGL = 1,2a,2c,3,10,11
BGDL = 10,16,17
MCBL = 1,3,10,26
TDBL = 1,2a,2c,3,10,24
PBMG = 1,2c,3,3ka,18,30
TLGG = 1,2a,2c,3,9,11,18
TDJQ = 1,2a,2c,3,10,11,17,18,24
TFBL = 1,2a,2c,3,10,24,26
LBBQ = 1,10,18
PQMQ = 1,2c,3,3ka,9,10,16,18,30

**0=no gene(s) detected with these *Lr* virulence combinations; +=*Lr* gene (s) present but unable to identify with these *Lr* virulence combinations.

10

9500254

Seedling reaction of entries of the 1993 Uniform Southern Soft Red Red Winter Wheat Performance Nursery to selected isolates of *Puccinia graminis* f. sp. *tritici*. (D.V. McVey, USDA-ARS, Cereal Rust Laboratory, U. of Minnesota, St. Paul, MN. 55108)

		Isolates							
No.	Line	QFBS	QSHS	RKQS	RPQQ	RTQQ	TNMH	TNMK	Sr* Gene
1.	FL 302	;1	S	1N	0	1N	0;	0	6,10
2.	Saluda	S	S	S	S	S	S	S	None
3.	Coker 9835	23	;1	S	XN	XN	;1	S	17,+
4.	AR 2641A	2-	S	23C	23C	S	32	23	+
5.	AR 2641B	2	S	S	S	S	2-	2	9b
6.	SC 850236	S	S	S	S	S	S	S	None
7.	AL 881060	2	2=	2=	0	0	0	2=	17,24
8.	MD 80004-62	S	S	23CN	2C	S	S	S	+
9.	GA 85238-C5-AB5-4	;1	2=	0;	0	0;	2=	2=	10,24
10.	GA 85238C5-AB3-3	0,2=	2=	2=	1	;1-N	2=	2=	10,24
11.	GA 83125-C5221	X	;1	S	XCN	XN	S	S	10,+
12.	GA 83228-1	0	0	0	0;	0	0	;1	6,17,36
13.	TX 85-264	1N	S	;1N	0	1N	S	S	10
14.	ABI 88D-1903	2	S	S	;1-N	0;	0;	2-	9b,17
15.	SC 87-196	S	S	S	0;	;1N	0	S	17
16.	MD 80071-56	S	S	S	0,S	0,S	S	S	seg17
17.	TN 84-613	0	0	S	0;	0	S	S	10,36
18.	TN 85-455	1N	S	;1	0	01N	S	S	10
19.	TX 86-106H	1CN	23	0	0	0	S	2	10,+
20.	TX 82-11	S	S	S	XN	XN	1N	S	17
21.	TX 89D2148	2	S	S	0,S	0,S	S	S	seg10
22.	TX 89D6435	;1	2=	2=	0	0	0;	2=	17,Amigo
23.	GA 84438	2=	2=	2=	2=	2=	2=	2=	24
24.	GA 831127	S	S	S	S	S	S	S	None
25.	VA 90-52-26	2=	2=	2=	2=	2=	2=	2=	31
26.	VA92-52-52	S	S	S	S	S	2=	S	?
27.	ABI 90*8369	2=	2=	2-	2=	2=	2=	2=	24
28.	ABI 90-8050	2-	0	S	0	0	0	X	17,36,+
29.	ABI 90*8284	0;	0	0,S	0	0,S	0.S	0;,S	36,seg6,17
30.	L890682	S	S	S	S	S	S	S	None
31.	L890714	2=	2=	0;	0	0	0	2=	17,24
32.	FL 8150-J9-K1	2=	2=	2=	2=	2=	2=	2=	24
33.	FL 85238-G76	;1N	2-	;1N	0	1N	2-,S	2-,S	10,seg9a
34.	FL 85238-G3-G2	2=	2=	2=	0	1	0	2=	17,24

*Reaction types are: 0; equal mostly no evidence of infection, with some hypersensitive flecks,; equal mostly hypersensitive flecks, ;c equal flecks with some chlorosis, ;1 equal flecks with some very small pustules, ;1c equal flecks with some very small pustules and chlorosis, 2 = equal small to medium pustules, 3 and 4 are susceptible pustule types. The predominant reaction type is always listed first.

11

DATA RANKED ACCORDING TO COMBINED QUALITY SCORE

ADVANCED NURSERY EVALUATION

FOR SOFT WHEAT MILLING AND BAKING QUALITY

1993 CROP

UNIFORM SOUTHERN NURSERY
(SOUTH)

STD = #1702, SALUDA

LAB NO.	ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
****	BENCHMARK	108.9 A	110 A	108.9 A	61.04	61.4	75.1	7.87	52.9	17.95	7
1714	14 ABI88D-1903	106.9 A	109.5 A	106.9 A	59.4	59.5	71.1	8.04	58.7	17.86	6
1719	19 TX86-106H	104.5 A	107.4 A	104.5 A	57.1 *	57.3	70.7 Q	8.65	58.6	17.58	4
1730	30 L890682	104.9 A	104.2 A	104.2 A	59.6	57.4	70.5 Q	8.59	59.2	17.14	4
1721	21 TX89D2148	103.9 A	108.3 A	103.9 A	58.7	58.8	70.1 *	8.56	59.7	17.5	4
1728	28 ABI90-8050	103.8 A	105.6 A	103.8 A	58.2	55.5	71.5 **	9.56 *	56.5	17.49	5
1724	24 GA831127	103.7 A	110 A	103.7 A	59.7	60.4	69.7	8.47	58.1	17.39	5
1720	20 TX82-11	102.3 A	106 A	102.3 A	57.5	55.9	70.3	8.24	57.2	17.85	6
1717	17 TN84-613	102.2 A	105.5 A	102.2 A	57.4	58.7	69.8	8.86	60.8	17.68	5
1703	3 COKER 9835	107.4 A	102 A	102 A	59.3	60.3	71.2	7.69	62.8 *	17.39	4
1729	29 ABI90*8284	101.8 A	102.7 A	101.8 A	59.1	52.5 *	70.5 **	8.36	55.6	17.59	5
1726	26 VA90-52-52	100.8 A	101.5 A	100.8 A	59.5	58.3	69.3 Q	8.91	60.5	17.09	2
1723	23 GA84438	102.1 A	100.6 A	100.6 A	59.4	53.7 *	70.4	8.89	58.2	17.14	3
1707	7 AL881060	100.5 A	101.9 A	100.5 A	58.7	51.7 *	70.4	9.23	55.1	17.55	7
****	STANDARD	100 A	100 A	100 A	58.1	57.4	69.4	8.73	60.5	17.06	2
1702	2 SALUDA	100 A	100 A	100 A	58.1	57.4	69.4	8.73	60.5	17.06	2
1738	38 PIOXW504	98.73 B	100.5 A	98.73 B	59	53.1 *	69.7	8.06	57.9	17.16	5
1711	11 GA83125-C5221	99.56 B	98.08 B	98.08 B	60	47.7 Q	71.7 *	9.55 *	56.9	17.59	4
1701	1 FLORIDA 302	103.7 A	96.84 B	96.84 B	56.3 Q	56.6	70.9	8.79	57.1	16.84	3
1705	5 AR26413B	96.8 B	107.4 A	96.8 B	54 Q	59.1	68.8	8.94	60.2	17.76	6
1736	36 GA801226-12	96.18 B	105.3 A	96.18 B	58.7	55.3	68.7	8.62	58.8	17.28	5
1715	15 SC870196	95.99 B	97.53 B	95.99 B	58.6	52.3 *	69.2	10.06 *	57.4	17.06	2
1716	16 MD80071-56	95.69 B	99.61 B	95.69 B	59.4	53.7 *	68.8	8.78	59.9	17.14	3
1735	35 VA88-52-69	95.53 B	103 A	95.53 B	58.1	54.7	68.7	8.64	59.9	17.25	4
1734	34 FL85238-G3-G2	94.42 C	95.1 B	94.42 C	57.8	53.2 *	68.7	9.44 *	57.7	16.91	3
1737	37 TX85-121-2	93.71 C	94.15 C	93.71 C	60.5	47.5 Q	69.2	9.34	57.9	17.12	4
1727	27 ABI90*8369	92.86 C	99.38 B	92.86 C	57.6	49.2 Q	69 **	8.92	57.6	17.28	5
1732	32 FL8150-J9-K5	92.62 C	106.1 A	92.62 C	54.4 Q	56	68.2 *	8.67	57.1	17.74	5
1706	6 SC850236	100.2 A	92.55 C	92.55 C	58.6	55.5	69.7	8.76	60.9	16.85	5
1713	13 TX85-264	95.93 B	92.2 C	92.2 C	55.5 Q	60.3	68.2	8.54	65.7 Q	17.16	3

9500 254

Exhibit E
Statement of Applicant's Ownership

The variety for which plant variety protection is hereby sought is owned by the University of Georgia Research Foundation, Inc. (UGARF).

Ownership by UGARF in the variety for which plant variety protection is hereby sought is based on the Patent Policy approved by the Board of Regents of the University System of Georgia on June 9, 1982, in which the Board of Regents assigned to The University of Georgia Research Foundation, Inc. all rights in intellectual property developed or created by employees at The University of Georgia, one of the universities of the University System of Georgia. Rights in novel plant varieties developed at The University of Georgia, including "GA-Dozier", are covered by said Patent Policy. As employees of The University of Georgia, Jerry W. Johnson, Barry M. Cunfer, and G. David Buntin, pursuant to said Patent Policy, have assigned their rights in "GA-Dozier" to the University of Georgia Research Foundation, Inc.