No. 9200072

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

AgriPro Biosciences Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED 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 eighteen 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 EXLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, MPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Savannah'

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* 29th *day of* April *in the year of our Lord one thousand nine hundred and* ninety-four.

Attest:

Kenneth A. Evans

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Mike Espy

Secretary of Agriculture

APPROVAL EXPIRES 4-30-85

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

FORM APPROVED: OMB NO. 0581-0055

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).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

1. NAME OF APPLICANT(S)
~~AgriPro Biosciences Inc.~~
HybriTech US, a Monsanto Company

2. TEMPORARY DESIGNATION
ABI 89-86
EGM 01 Jun 1998

3. VARIETY NAME
Savannah

4. ADDRESS *(Street and No. or R.F.D. No., City, State, and Zip Code)*
6700 Antioch
Shawnee Mission, Kansas
66204

5. PHONE *(Include area code)*
913-384-4940 (KS)
317-563-3111 (IN)
~~303-532-3721 (CO)~~

FOR OFFICIAL USE ONLY

PVPO NUMBER
9200072

6. GENUS AND SPECIES NAME
Triticum aestivum

7. FAMILY NAME *(Botanical)*
Gramineae

FILING
DATE Jan. 16, 1992
TIME ☐ A.M. ☐ P.M.

8. KIND NAME
Soft Red Winter Wheat

9. DATE OF DETERMINATION
~~1) 1985~~ July 1987
~~2) 1989~~ ~~AM~~ Sept 1993 per letter

FEES RECEIVED
AMOUNT FOR FILING $ 2150.
DATE Jan. 16, 1992
AMOUNT FOR CERTIFICATE $ 250.00
DATE April 14, 1994

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

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Delaware

12. DATE OF INCORPORATION
February 10, 1989

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

~~R.E. Heiner~~
~~6700 Antioch~~
~~Shawnee Mission, KS 66204~~
~~913-384-4940~~

Mark J. Messmer
OR
HybriTech US
5912 North Meridian
Wichita KS 67204

~~Koy Miskin or C. Bruns (CO)~~
~~R.R. #2, Box 411 Brookston, IN~~
PHONE *(Include area code)* ~~317-563-3111~~
316-755-7707
Fax: 316-755-0072
email: Mark.J.Messmer@Monsanto.Com

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

a. ☒ Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
b. ☒ Exhibit B, Novelty Statement.
c. ☒ Exhibit C, Objective Description of Variety *(Request form from Plant Variety Protection Office.)*
d. ☒ Exhibit D, Additional Description of Variety.
e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership. F. Exhibit Quality & Agronomic Data

EGM 01 Jun 1998

15. DOES THE APPLICANT(S) 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.)* ☒ Yes *(If "Yes," answer items 16 and 17 below)* ☐ No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☒ Yes ☐ No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☒ Foundation ☒ Registered ☒ Certified

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?
☐ Yes *(If "Yes," give date)*
☒ No

19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES ?
☐ Yes *(If "Yes," give names of countries and dates)*
☒ No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is 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
Robert E Heiner
DATE 7 Jan 1992

SIGNATURE OF APPLICANT
DATE

EXHIBIT A.

ORIGIN AND BREEDING HISTORY OF SAVANNAH

PEDIGREE: VA77-57-53/4/Holley/McNair 2203//Coker 68-15/3/Hunter

GENERATION	SEASON	ACTIVITY
Cross	1979-Spring	Cross made in field
F1	1979-Summer	Grown in greenhouse
F2	1979-80	Space planted as 80 F1 (bulk-x642-1-B)
F3	1980-81	Space planted as 81GHDSP853
F4	1981-82	Space-planted as 82DSP481
F5	1982-83	Head row plot #83HR18766
F6	1983-84	Head row plot #84 HR26500
F7	1984-85	Preliminary yield test 85D130
F8	1985-86	Increased as C86-27 & main wheat yield trials
	1986-87	Placed in advanced trials in Mid-south
	1987-88	Tested in Elite Trials in Mid-south and placed in Uniform Southern Wheat Nursery

In 1989, approximately 9,100 pounds of breeder seed was produced in Fisher, Arkansas. Savannah is uniform and stable. Less than 0.5% of the plants were rogued from the breeder seed field in 1989. The majority of the rogued variants consisted of approximately 90% taller wheat plants, and approximately 5% later heading wheat plants, and approximately 5% were awned wheat plants. Up to 1% total variant plants may be encountered in subsequent generations.

9200072

AgriPro SEEDS

A Trademark of AGRIPRO BIOSCIENCES INC.

September 24, 1993

Dr. Atchley,

In response to your telephone call earlier today, AgriPro soft wheat variety 'Savannah' has been uniform and stable since 1988. To date that is five years.

Savannah was bred to have high test weight, short strong straw, good tolerance to acid soil, leaf rust resistance, powdery mildew resistance, and very high yield in the midsouth and southern soft wheat regions.

I hope this is the information you need to complete the PVPA approval. If you need further assistance please call me.

Koy Miskin
Director, SRWW Research

KM/bw

Post-it™ brand fax transmittal memo 7671	# of pages ▸ 1
To DL. ATCHLEY	From KOY MISKIN
Co.	Co. AGRIPRO
Dept.	Phone # 317-563-3111
Fax # 301-504-5291	Fax # 317-563-6848

20 Years creating better seeds for food and feeds

East 8th Street, P.O. Box 411, Brookston, IN 47923
Phone (317) 563-3111 • Fax (317) 563-6848

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EXHIBIT B.

NOVELTY STATEMENT

Savannah is most similar to the soft red winter wheat Southern Belle. However, it can be distinguished by the following morphological characteristics:

- Savannah has a glume length that is significantly longer than Southern Belle, (see statistical data page 1).
- Savannah has a glume width that is significantly wider than Southern Belle, (see statistical data page 1).

ANOVA TABLE FOR GLUME LENGTH AND WIDTH

SAVANNAH vs. SOUTHERN BELLE

THE FOLLOWING RESULTS ARE FOR:
VAR = 1.000 (Savannah)
TOTAL OBSERVATIONS: 25

	VAR	GLUMELENGTH	GLUMEWIDTH
N OF CASES	25	25	25
MINIMUM	1.000	7.200	3.200
MAXIMUM	1.000	9.200	4.400
MEAN	1.000	8.236	3.756
STANDARD DEV	0.000	0.493	0.226

THE FOLLOWING RESULTS ARE FOR:
VAR = 2.000 (Southern Belle)
TOTAL OBSERVATIONS: 25

	VAR	GLUMELENGTH	GLUMEWIDTH
N OF CASES	25	25	25
MINIMUM	2.000	7.000	3.000
MAXIMUM	2.000	8.500	3.900
MEAN	2.000	7.768	3.468

DEP VAR:GLUME LENGTH

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2.738	1	2.738	12.945	0.001
RESIDUAL	10.152	48	0.212		

DEP VAR: GLUME WIDTH

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1.037	1	1.037	20.945	0.000
RESIDUAL	2.376	48	0.050		

9200072

Glume Length 1992

'Savannah vs. Southern Belle'

TOTAL OBSERVATIONS: 50

	VAR	GLUMLENG
N OF CASES	50	50
MINIMUM	1.000	7.500
MAXIMUM	2.000	9.600
MEAN	1.500	8.418
STANDARD DEV	0.505	0.593

THE FOLLOWING RESULTS ARE FOR:
VAR = 1.000 'Southern Belle'

TOTAL OBSERVATIONS: 25

	VAR	GLUMLENG
N OF CASES	25	25
MINIMUM	1.000	7.500
MAXIMUM	1.000	8.500
MEAN	1.000	7.964
STANDARD DEV	0.000	0.304

THE FOLLOWING RESULTS ARE FOR:
VAR = 2.000 'Savannah'

TOTAL OBSERVATIONS: 25

	VAR	GLUMLENG
N OF CASES	25	25
MINIMUM	2.000	7.900
MAXIMUM	2.000	9.600
MEAN	2.000	8.872
STANDARD DEV	0.000	0.442

DEP VAR:GLUMLENG N: 50 MULTIPLE R: 0.774 SQUARED MULTIPLE R: 0.599
ADJUSTED SQUARED MULTIPLE R: 0.590 STANDARD ERROR OF ESTIMATE: 0.379

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	7.056	0.170	0.000	.	41.590	0.000
VAR	0.908	0.107	0.774	.100E+01	8.462	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	10.306	1	10.306	71.609	0.000
RESIDUAL	6.908	48	0.144		

9200072

KRUSKAL-WALLIS ONE-WAY ANALYSIS OF VARIANCE FOR 50 CASES
DEPENDENT VARIABLE IS GLUMLENG
GROUPING VARIABLE IS VAR

GROUP		COUNT	RANK SUM
So.Belle	1.000	25	364.500
Savannah	2.000	25	910.500

MANN-WHITNEY U TEST STATISTIC = 39.500
PROBABILITY IS 0.000
CHI-SQUARE APPROXIMATION = 28.182 WITH 1 DF

9200072

Glume Width 1992

'Savannah vs. Southern Belle'

TOTAL OBSERVATIONS: 50

	VAR	GLUMWID
N OF CASES	50	50
MINIMUM	1.000	3.200
MAXIMUM	2.000	4.300
MEAN	1.500	3.814
STANDARD DEV	0.505	0.224

THE FOLLOWING RESULTS ARE FOR:
VAR = 1.000 'Southern Belle'

TOTAL OBSERVATIONS: 25

	VAR	GLUMWID
N OF CASES	25	25
MINIMUM	1.000	3.500
MAXIMUM	1.000	4.000
MEAN	1.000	3.728
STANDARD DEV	0.000	0.157

THE FOLLOWING RESULTS ARE FOR:
VAR = 2.000 'Savannah'

TOTAL OBSERVATIONS: 25

	VAR	GLUMWID
N OF CASES	25	25
MINIMUM	2.000	3.200
MAXIMUM	2.000	4.300
MEAN	2.000	3.900
STANDARD DEV	0.000	0.250

KRUSKAL-WALLIS ONE-WAY ANALYSIS OF VARIANCE FOR 50 CASES
DEPENDENT VARIABLE IS GLUMWID
GROUPING VARIABLE IS VAR

GROUP	COUNT	RANK SUM
So.Belle 1.000	25	484.500
Savannah 2.000	25	790.500

MANN-WHITNEY U TEST STATISTIC = 159.500
PROBABILITY IS 0.003
CHI-SQUARE APPROXIMATION = 9.127 WITH 1 DF

9200072

Glume Length 1991

'Savannah vs. Southern Belle'

TOTAL OBSERVATIONS: 50

	VAR	GLUMLENG
N OF CASES	50	50
MINIMUM	1.000	7.000
MAXIMUM	2.000	9.200
MEAN	1.500	8.002
STANDARD DEV	0.505	0.513

THE FOLLOWING RESULTS ARE FOR:
VAR = 1.000 'Southern Belle'

TOTAL OBSERVATIONS: 25

	VAR	GLUMLENG
N OF CASES	25	25
MINIMUM	1.000	7.000
MAXIMUM	1.000	8.500
MEAN	1.000	7.768
STANDARD DEV	0.000	0.424

THE FOLLOWING RESULTS ARE FOR:
VAR = 2.000 'Savannah'

TOTAL OBSERVATIONS: 25

	VAR	GLUMLENG
N OF CASES	25	25
MINIMUM	2.000	7.200
MAXIMUM	2.000	9.200
MEAN	2.000	8.236
STANDARD DEV	0.000	0.493

DEP VAR:GLUMLENG N: 50 MULTIPLE R: 0.461 SQUARED MULTIPLE R: 0.212
ADJUSTED SQUARED MULTIPLE R: 0.196 STANDARD ERROR OF ESTIMATE: 0.460

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	7.300	0.206	0.000	.	35.494	0.000
VAR	0.468	0.130	0.461	.100E+01	3.598	0.001

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2.738	1	2.738	12.945	0.001
RESIDUAL	10.152	48	0.212		

KRUSKAL-WALLIS ONE-WAY ANALYSIS OF VARIANCE FOR 50 CASES
DEPENDENT VARIABLE IS GLUMLENG
GROUPING VARIABLE IS VAR

GROUP		COUNT	RANK SUM
So.Belle	1.000	25	471.000
Savannah	2.000	25	804.000

MANN-WHITNEY U TEST STATISTIC = 146.000
PROBABILITY IS 0.001
CHI-SQUARE APPROXIMATION = 10.585 WITH 1 DF

9200072

Glume Width 1991

'Savannah vs. Southern Belle'

TOTAL OBSERVATIONS: 50

	VAR	GLUMWID
N OF CASES	50	50
MINIMUM	1.000	3.000
MAXIMUM	2.000	4.400
MEAN	1.500	3.610
STANDARD DEV	0.505	0.267

THE FOLLOWING RESULTS ARE FOR:
VAR = 1.000 'Southern Belle'

TOTAL OBSERVATIONS: 25

	VAR	GLUMWID
N OF CASES	25	25
MINIMUM	1.000	3.000
MAXIMUM	1.000	3.900
MEAN	1.000	3.464
STANDARD DEV	0.000	0.223

THE FOLLOWING RESULTS ARE FOR:
VAR = 2.000 'Savannah'

TOTAL OBSERVATIONS: 25

	VAR	GLUMWID
N OF CASES	25	25
MINIMUM	2.000	3.200
MAXIMUM	2.000	4.400
MEAN	2.000	3.756
STANDARD DEV	0.000	0.226

KRUSKAL-WALLIS ONE-WAY ANALYSIS OF VARIANCE FOR 50 CASES
DEPENDENT VARIABLE IS GLUMWID
GROUPING VARIABLE IS VAR

GROUP		COUNT	RANK SUM
So.Belle	1.000	25	433.000
Savannah	2.000	25	842.000

MANN-WHITNEY U TEST STATISTIC = 108.000
PROBABILITY IS 0.000
CHI-SQUARE APPROXIMATION = 16.191 WITH 1 DF

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'Savannah'

FORM APPROVED: OMB NO. 0581-0055

EXHIBIT C
(Wheat)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

WHEAT (*TRITICUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
AgriPro Biosciences Inc.

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
6700 Antioch
Shawnee Mission, Kansas
66204

FOR OFFICIAL USE ONLY
PVPO NUMBER 9200072
VARIETY NAME OR TEMPORARY DESIGNATION

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][1][4] FIRST FLOWERING January 1st

[1][1][6] LAST FLOWERING

4. MATURITY *(50% Flowering)*:

[0][2] NO. OF DAYS *EARLIER* THAN .....

[--][--] NO. OF DAYS *LATER* THAN .....

[7] 1 = ARTHUR 2 = SCOUT 3 = CHRIS 4 = LEMHI 5 = NUGAINES 6 = LEEDS 7=Florida 302

5. PLANT HEIGHT *(From soil level to top of head)*:

[0][8][9] CM. HIGH

[---][---] CM. TALLER THAN .....

[0][5] CM. SHORTER THAN .....

[---] [7] 1 = ARTHUR 2 = SCOUT 3 = CHRIS 4 = LEMHI 5 = NUGAINES 6 = LEEDS 7=Florida 302

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

[2] Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT

[1] Internodes: 1 = HOLLOW 2 = SOLID

[0][5] NO. OF NODES *(Originating from node above ground)*

[2][3] CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

[2] Anthocyanin: 1 = ABSENT 2 = PRESENT

[2] Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

[1] Flag leaf at booting stage: 1 = ERECT 2 = RECURVED to 90 degree angle from stem 3 = OTHER *(Specify)*: _____

[2] Flag leaf: 1 = NOT TWISTED 2 = TWISTED

[1] Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT

[2] Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT

[1][1] MM. LEAF WIDTH *(First leaf below flag leaf)*

[3][1] CM. LEAF LENGTH *(First leaf below flag leaf)*:

FORM LPGS-470-6 (7-81) (Edition of 3-79 may be used)

'Savannah'

9200072

FORM GR-470-5 (REVERSE)

11. HEAD:

[3] Density: 1 = LAX 2 = DENSE 3=middense

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

[2] 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): _____

[9.5] CM. LENGTH [9.0] 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

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

13. COLEOPTILE COLOR:

[1&2] 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

[2] 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] Cheek: 1 = ROUNDED 2 = ANGULAR

[2] 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) _____

[5.7] MM. LENGTH [3.0] MM. WIDTH [ ] 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) 3=Moderately Susceptible 4=Moderately Resistant

[4] STEM RUST (Races) field races

[2] LEAF RUST (Races) field races

[4] STRIPE RUST (Races) field races

[0] LOOSE SMUT

[2] POWDERY MILDEW

[0] BUNT

[4] OTHER (Specify) Xanthumonus Bacterial Blight Wheat Streak Mosaic Virus ~~Wheat Spindle Streak Mosaic Vir~~

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3=Moderately Susceptible 4=Moderately Resistant

[0] SAWFLY

[0] APHID (Byav.)

[0] GREEN BUG

[0] CEREAL LEAF BEETLE

[ ] OTHER (Specify) _____

HESSIAN FLY RACES:

[0] GP [0] A [0] B [0] C

[0] D [1] E [0] F [0] G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

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

INSTRUCTIONS

13

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

(a) L.T. 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 BOTANICAL DESCRIPTION OF SAVANNAH

Savannah is a soft red winter wheat acquired by AgriPro Biosciences Inc. Savannah is a very high yielding, strong strawed, short semidwarf variety with midseason maturity and fair winterhardiness. Savannah provides good protection to Septoria nodorum, Xanthumonus bacterial blight, stem and stripe rust. Excellent protection is provided against leaf rust, powdery mildew, wheat streak mosaic virus and wheat spindle streak virus. Savannah has no known genes for Hessian fly resisitance. Milling and baking properties are acceptable.

Juvenile growth habit is semi-erect. Plant color at boot stage is green with an erect (to 90 degree angle from stem) flag leaf. Anther color is yellow. Waxy bloom is present on the flag leaf, head and stem. Auricle anthocyanin and auricle hairs are present. Head shape is strap, middense, apically awnletted and white at maturity. Glumes are midlong and midwide with oblique shoulders and obtuse beaks. Seed shape is ovate with rounded cheeks. Brush is midsized, midlong and is not collared. Seed crease is narrow and shallow.

Savannah is well adapted to the Gulf coast. Secondarily to the mid south soft wheat regions.

EXHIBIT E.

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

AgriPro Biosciences Inc. is the applicant for protection in this case being:

a) The incorporated business (registered in Delaware) for and within which regular employees have acquired the named variety.

b) The proprietory owner and intending commercial user of the variety.

EXHIBIT F.

QUALITY AND AGRONOMIC DATA

Quality Data . . . . . page 1.

Yield Data - Savannah vs. Traveler . . . . . page 2.

Yield Data - Savannah vs. Florida 302 . . . . . .page 3.

Yield Data - Savannah vs. Coker 916 . . . . . .page 4.

AGRIPRO SEEDS
SOFT RED WINTER WHEAT

YEAR: 1991

YR	VARIETY	LOC	MILLING WH PROT %	MILLING BRK FLR %	MILLING BRK FLR R	MILLING TOT FLR %	MILLING TOT FLR R	BAKING FL PROT %	BAKING FL PROT R	BAKING C. Diam mm	BAKING C. Diam R	BAKING T.G. R	NHRD	SCORES MILL	SCORES BAKE
90	SAVANNAH	CA	12.6	35.7	5	65.9	3	10.9	1	17.0	1	5	026	11- B	8- A
90	SAVANNAH	JA	12.8	39.7	5	67.5	4	11.5	1	16.8	3	4	021	13- B	11- B
	AVERAGE		**12.7**	**37.7**	**5**	**66.7**	**4**	**11.2**	**1**	**16.9**	**2**	**5**	**024**	**12- B**	**10- B**

GRADES: A-EXCELLENT B-GOOD C-ACCEPTABLE D-QUESTIONABLE F-UNACCEPETABLE

R=RATINGS: 1-2=EXCELLENT 3-4=GOOD 5=ACCEPTABLE 6-7=QUESTIONABLE 8-9=UNACCEPTABLE

AgriPro Seeds
SOFT RED WINTER WHEAT TRIAL SUMMARY
OVER LOCATIONS-OVER YEARS
JUNE 05, 1991

VARIETIES: SAVANNAH TRAVELER

YEARS: 87 88 89 90

AREA		YIELD Bu/Ac LOCS	SAVAN	TRAVE	T.WT. lb/Bu LOCS	SAVAN	TRAVE	87 YIELD LOCS	SAVAN	TRAVE	88 YIELD LOCS	SAVAN	TRAVE	89 YIELD LOCS	SAVAN	TRAVE	90 YIELD LOCS	SAVAN	TRAVE
REGIONS:																			
CP	*	3	67.9	65.4	2	59.7	48.0		.0	.0		.0	.0	3	67.9	65.4		.0	.0
cp	*	2	69.9	69.6	2	59.7	48.0		.0	.0		.0	.0	2	69.9	69.6		.0	.0
sp	*	1	64.0	57.0		.0	.0		.0	.0		.0	.0	1	64.0	57.0		.0	.0
EA	*	3	68.9	63.7	3	59.4	46.0		.0	.0		.0	.0	3	68.9	63.7		.0	.0
cp	*	2	69.9	69.6	2	59.7	48.0		.0	.0		.0	.0	2	69.9	69.6		.0	.0
ea	*	1	67.0	51.8	1	59.0	42.0		.0	.0		.0	.0	1	67.0	51.8		.0	.0
MS	*	28	65.2	58.1		.0	.0	7	73.9	71.4	6	89.0	76.7	7	67.3	60.3	8	38.0	30.5
ms	*	23	65.2	58.0		.0	.0	6	72.8	72.0	5	91.4	76.6	5	65.8	57.8	7	39.6	32.7
mm	*	2	57.0	48.5		.0	.0		.0	.0		.0	.0	1	87.0	82.0	1	27.0	15.0
ss	*	3	70.7	65.3		.0	.0	1	80.0	68.0	1	77.0	77.0	1	55.0	51.0		.0	.0
MW		3	50.7	51.0		.0	.0		.0	.0		.0	.0	1	87.0	82.0	2	32.5	35.5
mw		1	38.0	56.0		.0	.0		.0	.0		.0	.0		.0	.0	1	38.0	56.0
mm	*	2	57.0	48.5		.0	.0		.0	.0		.0	.0	1	87.0	82.0	1	27.0	15.0
SO	*	22	68.5	64.1	13	53.6	54.7	2	79.5	71.0	2	91.5	86.5	4	55.4	45.9	14	67.3	65.0
so	*	18	68.3	64.2	13	53.6	54.7	1	79.0	74.0	1	106.0	96.0	2	51.3	37.8	14	67.3	65.0
ss	*	3	70.7	65.3		.0	.0	1	80.0	68.0	1	77.0	77.0	1	55.0	51.0		.0	.0
sp	*	1	64.0	57.0		.0	.0		.0	.0		.0	.0	1	64.0	57.0		.0	.0
STATES:																			
AR	*	18	65.8	59.4		.0	.0	5	78.4	74.6	4	85.8	78.3	4	61.3	55.0	5	41.0	32.8
IL		3	50.7	51.0		.0	.0		.0	.0		.0	.0	1	87.0	82.0	2	32.5	35.5
LA	*	14	67.3	65.0	13	53.6	54.7		.0	.0		.0	.0		.0	.0	14	67.3	65.0
MD	*	3	68.9	63.7	3	59.4	46.0		.0	.0		.0	.0	3	68.9	63.7		.0	.0
MO	*	5	60.6	51.6		.0	.0	1	59.0	58.0	1	94.0	65.0	1	78.0	70.0	2	36.0	32.5
MS	*	4	71.9	61.4		.0	.0	1	79.0	74.0	1	106.0	96.0	2	51.3	37.8		.0	.0
SC	*	1	64.0	57.0		.0	.0		.0	.0		.0	.0	1	64.0	57.0		.0	.0
TN	*	3	74.7	67.0		.0	.0	1	66.0	69.0	1	97.0	82.0	1	61.0	50.0		.0	.0
ALL					16	54.7	53.1												

THIS DATA REPRESENTS ALL DATA AVAILABLE IN SRWW REGION FROM PUBLIC AND PRIVATE TRIALS, DATING BACK TO 1987

9200072

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AgriPro Seeds
SOFT RED WINTER WHEAT TRIAL SUMMARY
OVER LOCATIONS-OVER YEARS
JUNE 05, 1991

VARIETIES: SAVANNAH FLORIDA 302

YEARS: 87 88 89 90

AREA	LOCS	YIELD Bu/Ac SAVAN	YIELD Bu/Ac FLORI	T.WT. lb/Bu LOCS	T.WT. lb/Bu SAVAN	T.WT. lb/Bu FLORI	87 YIELD LOCS	87 YIELD SAVAN	87 YIELD FLORI	88 YIELD LOCS	88 YIELD SAVAN	88 YIELD FLORI	89 YIELD LOCS	89 YIELD SAVAN	89 YIELD FLORI	90 YIELD LOCS	90 YIELD SAVAN	90 YIELD FLORI
REGIONS:																		
CP	13	64.7	74.0	10	57.0	52.7		.0	.0	5	80.4	82.6	8	53.0	68.6		.0	.0
cp	9	70.2	74.3	8	58.3	51.8		.0	.0	4	82.9	89.1	5	60.0	65.3		.0	.0
sp	5	54.8	73.7	3	53.6	54.9		.0	.0	2	75.3	73.0	3	41.2	74.1		.0	.0
EA	14	62.2	69.6	12	58.5	52.4		.0	.0	5	73.4	78.7	9	54.7	64.4		.0	.0
cp	9	70.2	74.3	8	58.3	51.8		.0	.0	4	82.9	89.1	5	60.0	65.3		.0	.0
ea	4	46.7	62.1	3	57.4	50.8		.0	.0	1	66.7	67.6	3	40.0	60.2		.0	.0
me	2	57.3	65.8	2	61.1	56.9		.0	.0	1	42.2	58.8	1	72.3	72.7		.0	.0
MS	44	63.7	68.6	13	57.8	56.7	7	73.9	71.9	14	77.8	83.1	15	59.3	70.1	8	38.0	37.8
ms	32	65.6	68.2	8	56.9	56.5	6	72.8	72.0	10	81.7	81.9	9	63.3	72.0	7	39.6	40.4
me	2	57.3	65.8	2	61.1	56.9		.0	.0	1	42.2	58.8	1	72.3	72.7		.0	.0
mm	4	69.1	75.7	1	59.9	57.9		.0	.0	1	90.8	106.4	2	79.4	88.8	1	27.0	19.0
ss	6	51.6	67.3	2	57.1	56.6	1	80.0	71.0	2	70.0	89.9	3	29.9	51.0		.0	.0
MW	10	55.8	58.9	4	58.4	57.3		.0	.0	3	51.3	57.9	5	67.8	67.6	2	32.5	38.5
mw	6	46.9	47.6	3	57.9	57.1		.0	.0	2	31.5	33.7	3	60.2	53.5	1	38.0	58.0
mm	4	69.1	75.7	1	59.9	57.9		.0	.0	1	90.8	106.4	2	79.4	88.8	1	27.0	19.0
SO	40	61.5	63.2	27	55.3	54.7	2	79.5	75.0	13	71.0	71.1	11	40.5	53.9	14	67.3	61.4
so *	28	64.8	60.5	21	55.4	54.5	1	79.0	79.0	8	70.2	66.6	5	46.4	43.6	14	67.3	61.4
ss	6	51.6	67.3	2	57.1	56.6	1	80.0	71.0	2	70.0	89.9	3	29.9	51.0		.0	.0
sp	5	54.8	73.7	3	53.6	54.9		.0	.0	2	75.3	73.0	3	41.2	74.1		.0	.0
STATES:																		
AL	1	.0	28.0	1	.0	49.6		.0	.0	1	.0	28.0		.0	.0		.0	.0
AR	26	64.6	69.7	7	56.8	56.6	5	78.4	74.2	8	79.0	85.0	8	56.2	68.1	5	41.0	43.6
GA	5	70.0	72.2	4	59.4	56.8		.0	.0	4	74.3	75.1	1	52.7	60.5		.0	.0
IL	4	53.4	57.9	1	59.2	59.2		.0	.0	1	61.5	60.4	1	87.0	94.0	2	32.5	38.5
IN	5	63.1	65.8	3	58.1	56.6		.0	.0	2	46.2	56.7	3	74.5	71.8		.0	.0
KS *	1	28.8	28.5		.0	.0		.0	.0		.0	.0	1	28.8	28.5		.0	.0
KY	3	59.3	69.0	3	58.8	55.4		.0	.0	1	42.2	58.8	2	67.9	74.2		.0	.0
LA *	16	66.4	59.5	15	53.9	54.1		.0	.0	1	43.4	37.1	1	76.8	55.5	14	67.3	61.4
MD	5	79.4	81.8	5	58.3	49.0		.0	.0	1	97.4	108.8	4	75.0	75.1		.0	.0
MO *	6	62.3	57.6	1	57.3	60.0	1	59.0	56.0	2	82.3	68.2	1	78.0	88.0	2	36.0	32.5
MS	4	71.9	72.1		.0	.0	1	79.0	79.0	1	106.0	116.0	2	51.3	46.6		.0	.0
NC	5	57.1	62.8	4	57.3	56.4		.0	.0	4	71.3	68.9	1	.0	38.2		.0	.0
PA *	1	53.0	48.0	1	52.3	47.7		.0	.0		.0	.0	1	53.0	48.0		.0	.0
SC	4	30.9	70.6	1	48.8	51.3		.0	.0		.0	.0	4	30.9	70.6		.0	.0
TN	3	74.7	79.3		.0	.0	1	66.0	76.0	1	97.0	93.0	1	61.0	69.0		.0	.0
TX	5	37.0	48.0	3	58.7	55.4		.0	.0	3	59.2	69.1	2	3.7	16.4		.0	.0
VA	2	77.8	78.6	2	59.2	55.2		.0	.0	1	83.1	96.3	1	67.2	60.9		.0	.0
ALL				51	56.6	54.6												

THIS DATA REPRESENTS ALL DATA AVAILABLE IN SRWW REGION FROM PUBLIC AND PRIVATE TRIALS, DATING BACK TO 1987

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AgriPro Seeds
SOFT RED WINTER WHEAT TRIAL SUMMARY
OVER LOCATIONS-OVER YEARS
JUNE 05, 1991

VARIETIES: SAVANNAH COKER 916 YEARS: 87 88 89 90

AREA	LOCS	YIELD Bu/Ac SAVAN	YIELD Bu/Ac COKER	T.WT. lb/Bu LOCS	T.WT. lb/Bu SAVAN	T.WT. lb/Bu COKER	87 YIELD LOCS	87 YIELD SAVAN	87 YIELD COKER	88 YIELD LOCS	88 YIELD SAVAN	88 YIELD COKER	89 YIELD LOCS	89 YIELD SAVAN	89 YIELD COKER	90 YIELD LOCS	90 YIELD SAVAN	90 YIELD COKER
REGIONS:																		
CP	3	67.9	72.7	2	59.7	51.0		.0	.0		.0	.0	3	67.9	72.7		.0	.0
cp	2	69.9	74.0	2	59.7	51.0		.0	.0		.0	.0	2	69.9	74.0		.0	.0
sp	1	64.0	70.0		.0	.0		.0	.0		.0	.0	1	64.0	70.0		.0	.0
EA	3	68.9	71.0	3	59.4	50.0		.0	.0		.0	.0	3	68.9	71.0		.0	.0
cp	2	69.9	74.0	2	59.7	51.0		.0	.0		.0	.0	2	69.9	74.0		.0	.0
ea *	1	67.0	64.9	1	59.0	48.0		.0	.0		.0	.0	1	67.0	64.9		.0	.0
MS	28	65.2	66.3		.0	.0	7	73.9	66.4	6	89.0	86.0	7	67.3	78.1	8	38.0	41.0
ms	23	65.2	66.0		.0	.0	6	72.8	66.5	5	91.4	88.0	5	65.8	76.6	7	39.6	42.1
mm	2	57.0	63.5		.0	.0		.0	.0		.0	.0	1	87.0	94.0	1	27.0	33.0
ss *	3	70.7	70.7		.0	.0	1	80.0	66.0	1	77.0	76.0	1	55.0	70.0		.0	.0
MW	3	50.7	63.0		.0	.0		.0	.0		.0	.0	1	87.0	94.0	2	32.5	47.5
mw	1	38.0	62.0		.0	.0		.0	.0		.0	.0		.0	.0	1	38.0	62.0
mm	2	57.0	63.5		.0	.0		.0	.0		.0	.0	1	87.0	94.0	1	27.0	33.0
SO *	8	70.5	69.9		.0	.0	2	79.5	69.0	2	91.5	92.5	4	55.4	59.0		.0	.0
so *	4	71.9	69.3		.0	.0	1	79.0	72.0	1	106.0	109.0	2	51.3	48.0		.0	.0
ss *	3	70.7	70.7		.0	.0	1	80.0	66.0	1	77.0	76.0	1	55.0	70.0		.0	.0
sp	1	64.0	70.0		.0	.0		.0	.0		.0	.0	1	64.0	70.0		.0	.0
STATES:																		
AR	18	65.8	66.0		.0	.0	5	78.4	68.6	4	85.8	83.8	4	61.3	71.5	5	41.0	44.8
IL	3	50.7	63.0		.0	.0		.0	.0		.0	.0	1	87.0	94.0	2	32.5	47.5
MD	3	68.9	71.0	3	59.4	50.0		.0	.0		.0	.0	3	68.9	71.0		.0	.0
MO	5	60.6	63.8		.0	.0	1	59.0	50.0	1	94.0	100.0	1	78.0	98.0	2	36.0	35.5
MS *	4	71.9	69.3		.0	.0	1	79.0	72.0	1	106.0	109.0	2	51.3	48.0		.0	.0
SC	1	64.0	70.0		.0	.0		.0	.0		.0	.0	1	64.0	70.0		.0	.0
TN *	3	74.7	74.0		.0	.0	1	66.0	72.0	1	97.0	81.0	1	61.0	69.0		.0	.0
ALL				3	59.4	50.0												

THIS DATA REPRESENTS ALL DATA AVAILABLE IN SRWW REGION FROM PUBLIC AND PRIVATE TRIALS, DATING BACK TO 1987

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page 4.
9200072