No. 9200073

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Agripro Seeds, 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 EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOFT RED WINTER WHEAT

'Sawyer'

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* 30th *day of* November *in the year of our Lord one thousand nine hundred and* ninety-four.

Attest:

Kenneth H. 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~~ Agripro Seeds Inc. ~~AAA 6 Dec 1994~~
HybriTech US, a Monsanto Company - CGM 01 Jun 1998

2. TEMPORARY DESIGNATION
SW85-81 or
ABI 85-81

3. VARIETY NAME
SAWYER

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)
303-532-3721 (CO)
317-563-3111 (IN)

FOR OFFICIAL USE ONLY
PVPO NUMBER
9200073

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) 1981
2) 1989

FEES RECEIVED
AMOUNT FOR FILING $ 2150.—
DATE Jan. 16, 1992
AMOUNT FOR CERTIFICATE $ 250.00
DATE Oct. 12, 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, Kansas 66204~~
~~913-384-4940~~
Mark J. Messmer
or HybriTech US
5912 North Meridian
Wichita, KS 67204
~~Roy Miskin or C. Bruns~~
~~R.R. #2, Box 411~~
~~Brookston, Indiana 47923~~
PHONE *(Include area code)*: ~~317-563-3111~~ 316-755-7707
Fax: 316-755-0072
email: Mark.J.Messmer@Monsanto.Com
CGM 01 Jun 1998

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. Exhibit F. Quality & Agronomic Data

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

FORM WA-470 (7-84) (Edition of 3-84 is obsolete.)

EXHIBIT A.

ORIGIN AND BREEDING HISTORY OF SAWYER

Parentage: Timwin/Monon//Fredrick/Oasis

Date of Last Cross: Spring of 1980

Breeding History: The first cross between Timwin/Monon and Fredrick/Oasis was made in the 1980 spring greenhouse at Brookston, Indiana. The F1 was grown in the field in 1981 and the F2 was space planted in the field in 1982. Head selections were made and the F3 and F4 single seed descent generations were grown in the 1983 greenhouse. Sixty-eight F5 head rows were grown out in 1984 and a line was selected which became SW85-81. It was tested in Y1 (preliminary) yield trials in 1985. Sawyer has been in advanced yield testing from 1986-1990 and was in the Uniform Eastern Soft Wheat Nursery in 1989 and 1990 under the number ABI 85-81.

In 1988, sixty head-rows were grown in Berthoud, Colorado. Forty-six of these head-rows were selected for harvest and advanced to a .2 acre initial seed increase that was planted in Berthoud, Colorado in the fall of 1988. In the fall of 1989 a five acre breeder seed increase was grown in Bluffton, Indiana which produced 14,500 pounds of breeder seed.

Sawyer is uniform and stable. Less than 0.5% of the plants were rogued from the breeder seed field in 1990. The majority of the rogued variants consisted of approximately 90% taller wheat plants and approximately 10% awned wheat plants. Up to 1% total variant plants may be encountered in subsequent generations.

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EXHIBIT B.

NOVELTY STATEMENT

Sawyer is most similar to the soft red winter wheat Oasis. However, it can be easily distinguished by the following morphological characteristics:

- Sawyer has a twisted flag leaf. Oasis does not have a twisted flag leaf.
- Sawyer has auricle hairs and auricle anthocyanin. Oasis does not have auricle hairs or auricle anthocyanin.
- Sawyer has hairs on the last internode of the rachis. Oasis does not have hairs on the last internode of the rachis.

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SAWYER

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FORM APPROVED: OMB NO. 0581-0065

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

EXHIBIT C
(Wheat)

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)*
P.O. Box 2955
6700 Antioch
Shawnee Mission, Kansas 66201

FOR OFFICIAL USE ONLY
PVPO NUMBER
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 Jan. 1st/ **TO:**
[1][1][5] FIRST FLOWERING
[1][1][7] LAST FLOWERING

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

5. PLANT HEIGHT *(From soil level to top of head)*:
[0][9][5] CM. HIGH
[--][--] CM. TALLER THAN .....
[0][2] CM. SHORTER THAN .....
[ ] 1 = ARTHUR 2 = SCOUT 3 = CHRIS 4 = LEMHI 5 = NUGAINES 6 = LEEDS 7=Caldwell

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

7. ANTHER COLOR:
[2] 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][5] 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:
[3] Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 3 = OTHER *(Specify)*: 90 degree angle from stem.
[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)*
[2][6] CM. LEAF LENGTH *(First leaf below flag leaf)*:

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

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SAWYER

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FORM GR-470-5 (REVERSE)

11. HEAD:

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

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

[3] 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): _____

[8.3] CM. LENGTH [9.5] 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.)

[2-4] 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:

[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

[2-3] Brush: 1 = SHORT 2 = midlong 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) _____

[5.5] MM. LENGTH [3.3] MM. WIDTH [3.5] 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

[2] STEM RUST (Races) SR 6,17,36

[4] LEAF RUST (Races) field races

[0] STRIPE RUST (Races) _____

[0] LOOSE SMUT

[2] POWDERY MILDEW

[0] BUNT

[2] OTHER (Specify) WSSMV,Rhizoctonia,SBMV,Septori Nordoru

4=BYDV,WSMV,Scab,Septoria tritici

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

[0] SAWFLY

[0] APHID (Bydv.)

[4] GREEN BUG

[0] CEREAL LEAF BEETLE

[0] OTHER (Specify) _____

HESSIAN FLY RACES: [1] GP [1] A [1] B [1] C [1] D [1] E [1] F [1] G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

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

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.T. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Their Varieties Grown in the United States. Technical Bulletin 1279, United States Department of Agriculture.

(b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 29 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

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EXHIBIT D.

ADDITIONAL DESCRIPTION OF SAWYER

Sawyer is a soft red winter wheat bred and developed by AgriPro Biosciences Inc. It is high yielding, early maturing and very broadly adapted in the soft red winter wheat area. Sawyer provides excellent protection against wheat spindle streak virus and stem rust; very good protection aganist powdery mildew, septoria nodorum, Rhizoctonia and Soil borne mosiac virus. Good protection is provided againist Barley yellow dwarf virus, Wheat streak virus, septoria tritici, scab and leaf rust. Sawyer has no known genes for Hessian fly resistance. Sawyer has strong straw, although not quite as strong as Caldwell. Milling quality is very good, and baking quality is rated good.

Sawyer is a medium height variety. Juvenile growth habit is semi-erect. Plant color at boot stage is green. The flag leaf is usually held at a 90 degree angle from the stem although it is not uncommon to see some erect and some drooping flag leaves with the majority type. Auricle hairs and auricle anthocyanin is present. Waxy bloom is present on the head, flag leaf sheath and stem. Head shape is tapering, middense, and awnleted. Glumes are midlong and midwide with square to oblique shoulders and obtuse beaks. Seed shape is ovate with rounded cheeks. Seed crease is narrow in width and shallow in depth.

Sawyer's area of adaptation is very broad. Essentially it covers the area from eastern Kansas to Wisconsin to the east coast. Then from North Carolina back to Arkansas and to east Kansas.

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 bred the named variety.

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

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EXHIBIT F.

QUALITY AND AGRONOMIC DATA

Quality Data 1990 . . . . . page 1.

Agronomic and Pathological Data . . . . . page 2.

1990 Yield Trial Summary Data . . . . . page 3.

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YEAR: 1990

AGRIPRO WHEAT
SOFT RED WINTER WHEAT

YEAR	VARIETY OR LINE	LOC	MILLING WH PROT %	R	BRK FLR %	R	TOT FLR %	R	BAKING FL PROT %	R	C. DIAM mm	R	T.G R	HARD CN/NRS	SCORES MILL	BAKE
	SAWYER															
89	SW85-81	BK	10.3	0	39.4	5	65.7	4	8.4	1	17.8	3	3	71/ 12	13-B	10-B
89	SW85-81	PA	11.0	0	44.8	5	70.5	4	9.4	1	17.9	1	2	75/ 22	13-B	5-A
88	SW85-81	FO	11.0	0	35.1	5	66.7	6	9.7	1	17.3	1	5	74/ 32	17-C	8-A
88	SW85-81	PA	11.3	0	33.9	6	64.7	7	9.2	1	17.6	2	3	78/ 21	20-D	8-A
88	SW85-81	UN	10.3	0	35.7	5	65.7	6	8.7	3	17.7	1	3	78/ 20	17-C	8-A
87	SW85-81	BK	10.0	1	39.0	4	70.5	1	7.8	1	18.4	2	4	71/ 00	6-A	9-A
87	SW85-81	CT	8.4	3	37.3	5	60.8	7	6.3	1	19.0	3	5	74/ 00	19-C	12-B
86	SW85-81	MA	11.2	1	43.2	5	70.5	2	9.8	1	16.8	3	6	76/ 00	9-A	13-B
86	SW85-81	FO	11.2	1	39.4	5	68.1	4	9.5	1	18.0	1	3	69/ 00	13-B	6-A
	AVERAGE		10.5	1	38.6	5	67.0	5	8.8	1	17.8	2	4	74/ 21	14-B	9-A
89	CALDWELL	BK	9.8	0	41.8	4	66.6	4	8.1	1	18.1	1	2	74/ 24	12-B	5-A
89	CALDWELL	PA	10.6	0	47.4	4	70.7	4	8.9	1	17.6	1	1	72/ 35	12-B	4-A
88	CALDWELL	FO	10.3	0	37.0	5	67.9	5	9.0	3	17.5	1	5	70/ 43	15-C	10-B
88	CALDWELL	PA	10.7	0	38.7	4	66.8	4	8.6	3	17.5	1	2	75/ 33	12-B	7-A
88	CALDWELL	UN	10.4	0	38.3	4	67.6	4	9.0	1	18.0	1	3	74/ 38	12-B	6-A
87	CALDWELL	BK	9.5	1	39.6	3	68.6	3	7.2	3	17.8	1	2	71/ 00	9-A	7-A
87	CALDWELL	CT	8.3	3	40.4	4	61.4	6	6.0	3	19.2	3	5	76/ 00	16-C	14-B
86	CALDWELL	MA	10.6	1	44.7	4	69.6	3	8.9	3	17.0	1	2	71/ 00	10-B	7-A
86	CALDWELL	FO	9.6	1	40.9	5	66.9	5	8.8	1	18.4	1	2	71/ 00	15-C	5-A
	AVERAGE		10.0	1	41.0	4	67.3	4	8.3	2	17.9	1	3	73/ 35	13-B	7-A

GRADES: A-EXCELLENT B-GOOD C-ACCEPTABLE D-QUESTIONABLE F-UNACCEPTABLE
R=RATINGS: 1-2=EXCELLENT 3-4=GOOD 5=ACCEPTABLE 6-7=QUESTIONABLE 8-9=UNACCEPTABLE

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Agronomic and Pathologic Data

	Test wt.[1] (#/bu)	Heading[1] Date	Height[1] (in)	Lodging[2]	Winter[2] Survival	Leaf[1] Rust	Stem[1] Rust	Septoria[1] Nordorum	Septoria[1] tritici
SAWYER	54.4	136	38	4	2	4	1	2	5
Caldwell	54.6	138	39	3	2	3	2	7	5
Cardinal	55.1	140	41	2	2	3	5	2	4

	Powdery[1] Mildew	Leaf[1] blight	WSMV[1]	WSSMV[1]	BYDV[1]	SBMV[3]	Rhizoctonia[4]	take-all[5]	Hessian[1] fly
SAWYER	3	5	5	2	5	4	4	4	9
Caldwell	3	6	6	3	4	6	8	8	5
Cardinal	4	3	3	2	4	7	5	3	-

Heading date = days from Jan. 1
All scores = 0-9 with 9 = worst.

1. 1990 UESWN all loc. ave.
2. 1989-90 AgriPro data and 1990 UESWN
3. University of Illinois - 1990 data
4. 1988 AgriPro lab tests
5. Purdue University 1989. Dr. D.M. Huber

1990 YIELD TRIAL SUMMARY DATA

LOCATION	Bu/A	Trial Mean
ALABAMA		
Huntsville	52	39
ARKANSAS		
Bald Knob	53	50
Bay	48	41
Crawfordsville	58	45
Keiser	63	56
Kibler	53	40
Lewisville Prot	34	32
Lewisville	32	30
Marvel	48	55
Pine Tree Unprot	47	47
Pine Tree Prot	65	55
Rohwer	54	51
Stuttgart	61	51
FLORIDA		
Quincy	29	33
GEORGIA		
Griffin	70	64
ILLINOIS		
Belleville	45	34
Brownstown	28	31
Brownstown	60	50
Champaign Co.	81	67
De Kalb	73	63
Dixon Springs	13	13
Grayville	25	26
Orr Center	78	68
Pana	56	54
Pana 2	59	61
Urbana	52	42

LOCATION	Bu/A	Trial Mean
INDIANA		
Fort Branch	48	41
Lafayette	78	68
Porter Co.	78	68
Princeton	49	45
Randolph Co.	72	67
Sullivan	31	32
W. Lafayette	73	66
W. Lafayette	91	84
Windfall	37	32
Woodburn	77	72
Woodburn 2	66	71
KANSAS		
Everest	72	61
Manhattan	69	56
Parsons	38	31
KENTUCKY		
Carlisle Co.	39	35
Lexington	42	36
Lexington	52	46
Meade Co.	37	40
Princeton	46	41
Princeton snds	52	49
Princeton lmst	27	27
Warren Co.	65	58
Webster Co.	57	51
MARYLAND		
Beltsville	81	70
Clarkesville	99	91
Keadysville	97	88
Quantico	89	78
Queenstown	93	81
MICHIGAN		
Mendon	60	56
MISSOURI		
Bertrand	38	27
Columbia	48	39
Columbia	31	29
Grundy Co.	60	53
Lamar	42	35
Mt. Vernon	42	35
Novelty	45	40
Portageville	58	54
Sikeston	40	36

LOCATION	Bu/A	Trial Mean
NEW YORK		
Ithaca	39	39
OHIO		
Custer	76	72
Findlay	74	77
Jamestown	65	62
Wooster	80	70
Xenia	52	55
PENNSYLVANIA		
Univ. Park	88	87
TENNESSEE		
Greenville	63	57
Jackson	49	51
Knoxville	73	61
Milan	37	28
Springfield	51	38
TEXAS		
Overton	50	41
Prosper	30	33
VIRGINIA		
Blacksburg	85	74
Blacksburg	86	79
Blackstone	69	57
Holland	59	55
Loudon	101	96
Painter	56	58
Warsaw	76	78
WISCONSIN		
Arlington	22	31
Chilton	59	50
Janesville	66	60
Madison	71	50
Racine	85	79
Avg.	58	52

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BILL OF SALE AND ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS that AGRIPRO BIOSCIENCES INC., a Delaware corporation (hereinafter referred to as "Seller"), pursuant to that certain Asset Purchase Agreement of even date herewith by and between Seller and AGR ACQUISITION CORPORATION, a Delaware corporation (hereinafter referred to as "Buyer") and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby grant, bargain, sell, assign, convey and deliver unto Buyer, all of Seller's right, title and interest in and to the plant varieties owned/registered by Seller and more particularly set forth on Exhibit A attached hereto for which PVP Certificates have been issued by or may be pending before the U. S. Department of Agriculture.

TO HAVE AND TO HOLD UNTO PURCHASER, its successors and assigns forever.

IN WITNESS WHEREOF, Seller has executed this Bill of Sale and Assignment as of the 30th day of June, 1994.

AGRIPRO BIOSCIENCES INC.

BY: W. A. Zama

Title: President

STATE OF KANSAS, COUNTY OF JOHNSON

Before me, the undersigned, a Notary Public of the State and County aforesaid, personally appeared W. A. ZAMA with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence) and who, upon oath, acknowledged himself to be the PRESIDENT of Agripro Biosciences Inc., the within named bargainor, a corporation, and that he as such PRESIDENT, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself as PRESIDENT.

WITNESS my hand and Notarial Seal at office the day and year above written.

Alma M. Weaver
Notary Public

My Commission Expires:
June 22, 1998

ALMA M. WEAVER
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. June 22, 1998

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State of Delaware

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AGR ACQUISITION CORPORATION", CHANGING ITS NAME FROM "AGR ACQUISITION CORPORATION" TO "AGRIPRO SEEDS, INC.", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF JUNE, A.D. 1994, AT 4:30 O'CLOCK P.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.

Edward J. Freel

SECRETARY OF STATE

2394087 8100

AUTHENTICATION: 7169071

944121584

DATE: 07-01-94

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CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
AGR ACQUISITION CORPORATION

AGR Acquisition Corporation, a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware,

DOES HEREBY CERTIFY:

FIRST: that the Board of Directors of said corporation, by the unanimous written consent of its members filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of said corporation:

RESOLVED, that the Certificate of Incorporation of this corporation be amended by changing the Article thereof numbered "ARTICLE I" so that, as amended, said Article shall be and read as follows:

"ARTICLE I

Name

The name of the corporation (hereinafter called the 'Corporation') is Agripro Seeds, Inc."

SECOND: That in lieu of a meeting and vote of stockholders, the sole shareholder of the corporation has given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

FOURTH: That the capital of said corporation shall not be reduced under or by reason of said amendment.

IN WITNESS WHEREOF, said AGR Acquisition Corporation has caused this certificate to be signed by Gary T. Hancock, its President, and attested by Ann Steelman, its Secretary, this 30th day of June, 1994.

AGR ACQUISITION CORPORATION

BY: Gary T. Hancock
Gary T. Hancock, President

ATTEST:

BY: Ann Steelman
Ann Steelman, Secretary