200400305

No.

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Blue Moon Farms, L.L.C.

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 [illegible]TING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE [illegible]RPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT [illegible] THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

FESCUE, CHEWINGS

'Jamestown IV'

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 sixth day of February, in the year two thousand and seven.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary 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 AND TECHNOLOGY - 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) and the Paperwork Reduction Act (PRA) of 1995

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 OWNER
~~Dhurtan~~ Blue Moon Farm, L.L.C.
(BT: 3/6/2006 per applicant's authorization)

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME
JMIV, UTCHW1

3. VARIETY NAME
Jamestown IV

4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)
~~• 5R7 SW 3rd Ste~~ 811 Mountain River Dr.
~~• Lake Oswego, OR 97034•~~ Lebanon, OR 97355

(BT: 11/14/2006)

5. TELEPHONE (Include area code)
(541) 451-1847
~~(503) 636-2600~~

6. FAX (Include area code)
(541) 451-1847
~~(503) 636-7420~~

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PVPO NUMBER
200400305

FILING DATE
9/3/04

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

8. IF INCORPORATED, GIVE STATE OF INCORPORATION
OR

9. DATE OF INCORPORATION
* 9/18/98

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)

V.G. Lehman
Blue Moon Farm
811 Mountain River Dr.
Lebanon, OR 97355

FEES RECEIVED

FILING AND EXAMINATION FEES:
$ 3652
DATE 9/3/04

CERTIFICATION FEE:
$ 768.00
DATE 1/8/2007

11. TELEPHONE (Include area code)
(541) 451-1847

12. FAX (Include area code)
(541) 451-1847

13. E-MAIL
vlehman@aol.com

14. CROP KIND (Common Name)
chewings fescue

15. FAMILY NAME (Botanical)
gramineae

16. GENUS AND SPECIES NAME OF CROP
Festuca rubra spp commutata

17. IS THE VARIETY A FIRST GENERATION HYBRID?
☐ YES ☑ NO

18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)
☐ YES ☑ NO
IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERICALIZATION.

19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)
a. ☑ Exhibit A Origin and Breeding History of the Variety
b. ☑ Exhibit B. Statement of Distinctness
c. ☑ Exhibit C. Objective Description of Variety
d. ☑ Exhibit D Additional Description of the Variety (Optional)
e. ☑ Exhibit E. Statement of the Basis of the Owner's Ownership
f. ☑ Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)
g. ☑ Filing and Examination Fee ($3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)
☐ YES (If "yes", answer items 21 and 22 below) ☑ NO (If "no", go to item 23)

21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?
☑ YES ☐ NO
IF YES, WHICH CLASSES? ☑ FOUNDATION ☑ REGISTERED ☑ CERTIFIED

22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☑ YES ☐ NO
IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.
2 FOUNDATION 2 REGISTERED 2 CERTIFIED
(If additional explanation is necessary, please use the space indicated on the reverse.)

23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?
☑ YES ☐ NO
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)
From UltraTurf of Oregon to Valley Green, Inc.
(BT: 10/10/2006)

24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?
☐ YES ☑ NO
IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)

25. The owners declare that a viable sample of basic seed of the variety has been 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 owner(s) is(are) the owner 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 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act

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

SIGNATURE OF OWNER
* David Lundell

SIGNATURE OF OWNER

NAME (Please print or type)
* David Lundell

NAME (Please print or type)

CAPACITY OR TITLE

DATE
1 Sept 2004

CAPACITY OR TITLE

DATE

(See reverse for instructions and information collection burden statement)

INSTRUCTIONS

200400305

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to **reproduce** the variety, or for tuber reproduced varieties verification that a viable *(in the sense that it will reproduce an entire plant)* tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for $3,652 ($432 filing fee and $3,220 examination fee), payable to "Treasurer of the United States" *(See Section 97.6 of the Regulations and Rules of Practice.)* Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of $432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office
Telephone: (301) 504-5518
FAX: (301) 504-5291
Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:
(1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified

19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:

(1) identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, *etc.*

19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.

20. If "Yes" is specified *(seed of this variety be sold by variety name only, as a class of certified seed)*, the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. *(See Regulations and Rules of Practice, Section 97.103).*

23. *See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.*

24. *See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.*

22. CONTINUED FROM FRONT *(Please provide a statement as to the limitation and sequence of generations that may be certified.)*

23. CONTINUED FROM FRONT *(Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)*

1 March 2004. The date of first sale for Jamestown II was from UltraTurf of Oregon to Valley Green, Inc (of New England) (BT: 10/10/2006 per verification and authorization from applicant).

24. CONTINUED FROM FRONT *(Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)*

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. *(See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)*

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Exhibit A:
Breeding history of Jamestown IV

Jamestown IV started with three backcrosses of Jamestown to Jamestown II. Seed was harvested by Dr. Dick Skogley from Jamestown II plants that had been alternately planted with Jamestown plants taken from an abandoned velvet bentgrass green planted at the University of Rhode Island (URI) Experiment Station at Kingston in 1976. In 1991, approximately 1500 plants from the third backcross were planted near Lebanon, OR as spaced plants. In spring 1992, approximately 90% of the nursery was rouged for powdery mildew susceptibility. The remaining plants were allowed to cross pollinate, with seed harvested by individual maternal plants. In Fall 1992, turf plots were established at URI by maternal parent. In Spring 1993, based on turf performance (quality, color, and leaf texture) of maternal lines, approximately 25 clones were selected and allowed to interpollinate, with seed harvested and bulked and designated prebreeder seed. In Fall 1998, a seeded nursery was planted in the Willamette Valley from the pre-breeder seed. A few plants with plant height greater than 4" taller than the majority of the plants were rouged. Approximately 5% of the plants had panicle color tending to lavender in color at the time of flowering, and are part of the variety. Seed was harvested from this planting and designated breeder seed as UTCH1.

No objectionable off-type plants or variants have been observed in the reproduction or multiplication of Jamestown IV during three generations of seed reproduction. Jamestown IV is a stable and uniform variety.

Statement of Distinctness:

Jamestown IV is distinct from all other chewings fescues by a combination of morphological and turf characteristics. Jamestown IV is most similar to Jamestown II chewings fescue. Jamestown IV has a higher rating of green color (versus brown, winter dormant tissue) when examined at time of spring greenup in Corvallis, OR (Tables 3, 4). In addition, Jamestown IV has an absence of palea hairs compared to Jamestown II which has long hairs on the palea.

REPRODUCE LOCALLY. Include form number and date on all reproductions. Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY PROGRAM
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT C
(FINE LEAVED FESCUES)

OBJECTIVE DESCRIPTION OF VARIETY
FINE LEAVED FESCUES
(*Festuca* spp.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Blue Moon Farms, L.L.C. (BT: 10/27/2006)	JMIV,	Jamestown IV

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

811 Mountain River Dr., Lebanon, OR 97355

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Place the appropriate number that describes the varietal characteristics of this variety in the boxes below. Use leading zeroes when necessary. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used: _____RHS Color Charts, if listed_____. Describe location of the test area, conditions and number of plants used: _____Test area: Lebanon, OR; space plants; 60 plants total measured, placed in 3 replications_____.

1. SPECIES: (With companion varieties for use below – use varieties within species of application variety)

[1] 1 = *F. rubra* ssp. *commutata* (Chewings) — 11 = Cascade, 12 = Highlight, 13 = Jamestown, 14 = Banner, 15 = Barfalla

2 = *F. rubra* ssp. *litoralis* (Creeping Red) — 21 = Dawson, 22 = Starlight, 23 = Merlin, 24 = Pennlawn

3 = *F. rubra* ssp. *rubra* (Spreading Red) — 31 = Boreal, 32 = Ruby, 33 = Fortress, 34 = Ensylva

4 = *F. ovina* (Sheep) — 41 = Covar

5 = *F. longifolia* (Hard) — 51 = Durar, 52 = Biljart (C-26), 53 = Scaldis

6 = *F. tenuifolia* (Fine-Leaved Sheep) — 61 = Panda, 62 = Barok

7 = Other (*Specify*) F. _____

2. CYTOLOGY:

[ ][ ] Chromosome Number [ ] Ploidy 1 = diploid 2 = tetraploid 3 = hexaploid 4 = octoploid

3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)

[2] Northeast [ ] Southeast [2] North Central [2] Pacific N.W.

[2] Other (Specify) : ___wherever chewings fesuce is adapted; also for winter overseeding use of warm-season grasses

4. MATURITY: Date First Headed (panicle emergence) Location(s) of Trial(s) __Lebanon, OR, 2002____

[4] Maturity Class:

1 = Very Early (Covar) 2 = Early (Highlight) 3 = Medium Early (Boreal, Dawson)

4 = Medium Late (Cascade, Ruby) 5 = Late (Jamestown, Agram) 6 = Very Late

Date Headed _____11 May 2003_____

[0 3] Days earlier than ..... [1 3]

Maturity same as ..... [3 1] } Comparison Variety

[ ] Days later than ..... [ ]

5. PLANT HEIGHT: (At maturity; to top of panicle; average of 10 tallest culms)

[6 7 3] mm Height

[2 4] mm shorter than ..... [1 3]

Height same as ..... [ ] } Comparison Variety

[ ] mm Taller than ..... [ ]

6. GROWTH HABIT:

[2] 1 = Erect (Ruby) 2 = Semi-erect (Highlight) 3 = Prostrate (Silvana)

7. RHIZOMES:

[ ] mm Length [ ] mm Width [ ] mm Internode length

[1] 1 = Absent 2 = Weakly Creeping (Dawson)

3 = Strongly Creeping (Boreal) 4 = Very Strongly Creeping (Boreal)

8. LEAF BLADE:

[7] Color:

1 = Light Green (Starlight) 2 = Medium Light Green (Highlight) 3 = Medium Dark Green (Ruby, Agram)

4 = Dark Green (Jamestown, Manoir) 5 = Bluegreen (Saphir) 6 = Graygreen (Scaldis)

7 = Other (Specify): ___very dark green, darker true green than Jamestown _____

[1] Glaucosity (Sowing Year): 1 = Absent 2 = Present (Vendome)

[1] Anthocycnin; 1 = Absent 2 = Present Hairs (Basal): [2] 1 = Absent 2 = Present

[3] Margins: 1 = Smooth 2 = Semi-rough 3 = Rough

[1] Margin folding (closure): 1 = Rolled inward (closed-Highlight) 2 = flat

[2] Width class: 1 = Very fine (Agram, Frida) 2 = Fine (Jamestown, Highlight, Banner, Dawson)

3 = Medium Fine (Fortress, Ruby, Scaldis) 4 = Medium Coarse (Engina)

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8. LEAF BLADE (*Continued*):

7.62 cm Length (flag leaf)
(BT:10/10/2006)

49 mm Shorter than 13
Blade length same as ..... ☐☐ } Comparison Variety
☐☐ mm Longer than ..... ☐☐

258 mm Width (flag leaf)

☐☐ mm Narrower than 13
Blade width same as ..... ☐☐ } Comparison Variety
☐☐ mm Wider than ..... ☐☐

---

9. LEAF SHEATH:

☐ Anthocyanin (seedling): 1 = Absent (Highlight) 2 = Present (Jamestown, Fortress, Marga)

☐ Auricle Hairiness: 1 = Absent 2 = Present

2 Margins: 1 = Open (Highlight) 2 = Closed (Jamestown)

---

10. PANICLE:

2 Shape: 1 = Narrow-tapering 2 = Ovate
3 = Oblong 4 = Other (Specify): _____

(BT:10/10/06) 2 Type: 1 = Open 2 = Intermediate 3 = Compact **87% open, 13% inter.**

1 Orientation: 1 = Erect 2 = Nodding **3: 58% erect; 19% nodding; 22% semi-erect**

2 Branch Pubescence: 1 = Glabrous 2 = Pubescent

2 Anther Color: } 1 = Yellowish Green 2 = Green 3 = Bluish Green 4 = Purplish
5 = Reddish 6 = Other (Specify): _____

4 Glume Color at 50% flowering):

115 mm Length

74 mm Shorter than 13
Panicle length same as ..... ☐☐ } Comparison Variety
☐☐ mm longer than ..... ☐☐

---

11. PALEA:

1 Hairs (On keels or margins): 1 = Absent (Banner) 2 = Short (Agram, Scaldis, Olds)
3 = Long (Rainier, Fortress, Jamestown)

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12. LEMMA:

[4] Hairs: 1 = Absent (Jamestown) 2 = Several 3 = Many (Highlight); **4: some=none, some=many**

[4 4] 5 mm Lemma Length
BT:10/30/2006

[ ] mm Shorter than ..... [ ]
Lemma length same as ..... [ ] } Comparison Variety
[ ] mm Longer than ..... [ ]

[1 0] mm Lemma Width

[ ] mm Narrower than ..... [ ]
Lemma width same as ..... [ ] } Comparison Variety
[ ] mm Wider than ..... [ ]

[2] Awns: 1 = Absent 2 = Present

[1] mm Awn Length

[ ] mm Shorter than ..... [ ]
Awn length same as ..... [ ] } Comparison Variety
[ ] mm Longer than ..... [ ]

---

13. SEED (With lemma and palea):

[1] Size Class (g/1000 seed):

1 = [< 0-.9g] (Biljart, Dawson) 2 = [0.9-<1.1g] (Jamestown, Highlight)

3 = [1.1 – 1.3g] (Fortress, Novorubra) 4 = [>1.3g] (Boreal, Golfrood)

[1 1 2 7] mg per 1000 seed

[ ] mg per 1000 seed less than ..... [ ]
Seed Weight same as ..... [ ] } Comparison Variety
[ ] mg per 1000 seed more than ..... [ ]

---

14. DISEASE, INSECT, AND NEMATODE REACTION R=has some resistance; S= has some susceptibility

[ ] Melting-out *Drechslera poae* (*Helminthosporium vagans*)
[ ] Leaf Spot *D. siccans*
[ ] Net Blotch *D. dictyoides*
[ ] Leaf Spot *Bipolaris sorokiniana*
[S] Brown Patch *Rhizoctonia solani*
[R] Powdery Mildew *Erysiphe graminis*
[ ] Stripe Smut *Ustilago striiformis*

[ ] Stripe Rust *P. striiformis*
[ ] Leaf Rust *P. poae-nemoralis*
[ ] *P. crandallii*
[ ] Pythium Blight *Pythum ultimum*
[R] Red Thread *Corticium fusciforme*
[R] Dollar Spot *Sclerotinia homoeocarpa*
[ ] Insect _____

14. DISEASE, INSECT, AND NEMATODE REACTION (*Continued*):

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- [R] F. Patch, Pink snow-mold *Fusarium nivale*
- [ ] Fusarium Blight *F. trincinctum, F. roseum*
- [ ] Gray Snow Mold *Typhula iotana*
- [S] Stem Rrust *Puccinia graminis*
- [ ] Nematode _____
- [ ] Other _____
- [ ] Other _____
- [ ] Other _____

15. GIVE THE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics indicate Degree of Resemblence by placing in the column marked D.R., one of the following numbers.

1 = Application variety is less than the comparison variety. 2 = Application variety is the same as the comparison variety.

3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Rhizome Length	Jamestown	2	Growth Habit		
Leaf Width			Leaf Color	Shadow II	3
Panicle Color			Panicle Shape		
Winter Color			Cold Injury		
Shade Tolerance			Heat		
Drought			Disease*: Leaf Spot	Jamestown II	3
			Brown Patch	Jamestown	2

* Specify each disease evaluated.

16. ADDITIONAL DESCRIPTION:

See attached tables

Table 1. Fine fescue morphological measurements, 1 year old plants, Lebanon, OR 2003.

variety	plant height cm	date of heading	date of flowering	panicle length cm	flag leaf height cm	flag leaf length cm	flag leaf width mm
Jamestown IV	67.33	133.00	154.00	11.50	23.11	7.62	2.58
Bulk I str red	53.20	132.33	155.67	11.12	13.60	7.56	3.79
Azurite	53.21	124.33	151.33	9.23	4.82	2.14	
Blue 2.0029	54.58	128.67	152.00	8.78	12.81	4.88	1.53
Bulk II str red	56.33	135.33	156.33	10.54	13.89	6.25	3.36
AZ II	56.58	123.33	149.33	10.12	13.14	6.06	2.18
FDM	63.27	128.33	154.33	12.53	8.77	4.17	
Shademaster	66.82	130.33	154.67	12.68	8.93	3.47	
Ensylva	68.44	131.00	154.67	14.18	9.58	3.43	
Flyer	69.24	132.67	155.00	13.85	10.35	3.87	
Shadow	69.69	135.67	155.67	13.48	8.97	2.90	
Jamestown	69.70	140.33	157.67	12.24	27.72	8.11	2.67
Boreal	73.60	133.67	157.00	14.10	10.56	3.70	
Koket	73.99	136.00	154.67	14.51	8.94	2.81	
Banner	75.00	133.67	155.33	12.96	9.90	2.90	
LSD, p=0.05	7.921	5.676	2.3644	1.58	1.97	0.82	0.3389

* for heading, 133= May 11

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Table 2. Quality performance (high input) of chewings fescues grown at 6 locations;.
Data source from NTEP, 1999, 2001.

	Quality	Quality
Variety	**1999**	**2001**
JMIV	5.9	6.0
CHW1	5.9	6.2
Longfellow II	6.2	6.0
Ambassador	6.2	6.2
Shadow II	6.1	6.3
Intrigue	6.1	5.9
Brittany	6.0	5.5
Culombra	6.0	5.6
Treazure	6.0	6.0
Bridgeport	5.9	5.7
SR5100	5.9	5.8
Tiffany	5.9	6.0
Sandpiper	5.8	5.5
Jamestown II	5.8	5.8
Banner III	5.8	5.7
LSD, $p=0.05$ (BT: 6/31/2006)	0.30	0.30

Table 3.	Fine fescue turf color, Corvallis, OR 2003.			
	Mar-03			Mar-03
Name	Spring Greenup - Color*			Density
Jamestown IV	5.3			4.7
Shadow II	5.0			5
MBK2	4.5			5.5
Longfellow II	4.3			6
Jamestown II	3.0			7
LSD, anova, p=0.05	2.0			2.7
* where 9= bright green, 1= brown				

Table 4.	Fine fescue turf color, Corvallis, OR 2004.			
	Mar-04			Mar-04
Name	Spring Greenup - Color*			Density
Jamestown IV	6.0			9.7
Shadow II	6.3			9
MBK2	6.5			9.7
Longfellow II	5.7			9.5
Jamestown II	3.3			9.9
LSD, anova, p=0.05	2.0			7.9
* where 9= bright green, 1= brown				

Table 5.	Leaf color, measured in greenhouse studies, Lebanon, OR, April 2006.						
Jamestown IV		137A green					
Jamestown II		137C green					
Koket		137B green					
Banner		137B green					
Ambrose		137B green					

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

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

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Blue Moon ~~Farms~~ Farms, L.L.C. (BT: 3/6/2006)	JMIV	Jamestown IV
4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*	5. TELEPHONE *(Include area code)*	6. FAX *(Include area code)*
811 Mountain River Dr. Lebanon, OR 97355	(541) 451-1847	(541) 451-1847
	7. PVPO NUMBER 200400305	

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☑ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☑ YES ☐ NO

10. Is the applicant the original owner? ☑ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?
☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?
☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership *(Trace ownership from original breeder to current owner. Use the reverse for extra space if needed)*:

University of Rhode Island developed germplasm that was acquired by Blue Moon through the ABT bankruptcy, and licensed to UltraTurf

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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