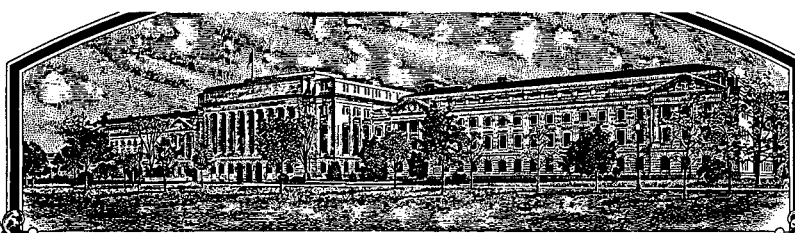


No.

201100031



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

University of Idaho

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 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 TYPE OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF QUANTITIES SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S. CODE, ET SEQ.)

WHEAT, COMMON

'UICF-Brundage'

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-fifth day of March, in the year two thousand and eleven.*

Attest:

Laenas A. Tubbett
Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Reuben J. Vilsack
Secretary of Agriculture



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 University of Idaho		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME ID02-859	3. VARIETY NAME UICF-Brundage
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Morrill Hall 414 P.O. Box 443003 Moscow, Idaho 83844-3003		5. TELEPHONE (include area code) 208-885-4550	FOR OFFICIAL USE ONLY PVPO NUMBER FILING DATE
		6. FAX (include area code) 208-885-4551	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) University - research land grant institution	8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION	

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Gaylene Anderson, Office of Technology Transfer, Morrill Hall 414, P.O. Box 443003, Moscow, ID 83844-3003 Robert S. Zemetra, Dept. of Plant, Soil and Entomological Sciences, Ag Biotech 111, P.O. Box 442339, University of Idaho, Moscow, ID 83844-2339		F E E S R E C E I V E D	FILING AND EXAMINATION FEES: \$ DATE CERTIFICATION FEE: \$ DATE
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11. TELEPHONE (Include area code) 208-885-4550, 208-885-7810	12. FAX (Include area code) 208-885-4551, 208-885-7760	13. E-MAIL gaylene@uidaho.edu, rzemetra@uidaho.edu
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14. CROP KIND (Common Name) soft white winter wheat	16. FAMILY NAME (Botanical) Triticeae	18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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15. GENUS AND SPECIES NAME OF CROP Triticum aestivum	17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.
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19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Exhibit F. Declaration Regarding Deposit g. <input checked="" type="checkbox"/> Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) h. <input checked="" type="checkbox"/> Filing and Examination Fee (\$4,382), 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 ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input checked="" type="radio"/> YES (If "yes", answer items 21 and 22 below) <input type="radio"/> NO (If "no", go to item 23) <input type="radio"/> UNDECIDED
	21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED
	22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> 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? <input checked="" type="checkbox"/> YES <input type="checkbox"/> 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.)	24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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 	SIGNATURE OF OWNER
NAME (Please print or type) Gaylene Anderson	NAME (Please print or type) Robert S. Zemetra
CAPACITY OR TITLE Licensing Associate	CAPACITY OR TITLE Professor
DATE 10/29/10	DATE 10/28/10

GENERAL INSTRUCTIONS: 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, F; (3) for a tuber reproduced variety, 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; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (*See Section 97.6 of the Regulations and Rules of Practice*). **NEW:** With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety *per se*, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. 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 payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

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.*)

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

General E-mail: PVP@mail@usda.gov

Homepage: <http://www.ams.usda.gov/science/pvpo/PVPindex.htm>

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. <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 replicated 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.*)

November 3, 2009 United States, foundation seed sale

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).*)

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, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (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 to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

EXHIBIT A: ORIGIN AND BREEDING HISTORY OF UICF-BRUNDAGE

UICF-Brundage originated from a fourth generation backcross involving an imazamox resistant line, 'Madsen*4/FS4 and Brundage derived lines as the recurrent parents.

UICF-Brundage's pedigree is 'Madsen*4/'FS4/2*Brundage/3*Brundage 96". FS4 is a selection from the French wheat cultivar 'Fidel' that was mutagenized with sodium azide then selected for tolerance to imazethapyr (Tan et al. 2005). To transfer the herbicide resistance into a soft white winter wheat background FS4, which carried the gene *Imi-1* (also known as *Als-1*) that confers resistance to imazamox, was backcrossed to the cultivar Madsen (Allan et al. 1989) by Texas A&M University under contract to American Cyanamid now owned by BASF. Brundage is a soft white common winter wheat released jointly by the Idaho Agricultural Experiment Station (Zemetra et al. 1998) and Brundage 96 (Zemetra et al. 2003) is a selection from Brundage with improved stripe rust (caused by *Puccinia striiformis* Westend.) resistance. The original cross for UICF-Brundage was made in 1999. The F₁ plants were screened in the greenhouse with imazamox and survivors were backcrossed to Brundage. In 2002 the recurrent parent was then changed to Brundage 96 and the cycle was repeated three more times and then the survivors were allowed to self. Progeny from the selfed plants were screened for imazamox resistance and lines that were homozygous for resistance were harvested for field evaluation. The line 02-859 was screened in the field for resistance in single row replicated plots in 2004 and in 5 x 10 foot plots in 2006, 2007, 2008, and 2009. The line ID02-859 was entered into advanced yield testing in 2005 and in regional testing in 2006. ID02-859 was entered for evaluation in the Tri-State Extension cereal testing nursery in 2006 and evaluated for three years. In 2007, ID902-859 was evaluated by the Pacific

Northwest Wheat Quality Council for its end-use quality and was found to have similar end-use quality as its recurrent parent Brundage 96. Heads were collected in 2005 and were grown during the 2005-2006 growing season at Moscow, Idaho for selection for stripe rust resistance and plant color uniformity. Seed from selected head rows were provided to X. Chen, USDA-ARS Pullman for further evaluation stripe rust resistance and remaining seed was planted out separately in 5 x 10 plots at Palouse Research, Extension and Education Center (PREEC) farm east of Moscow, Idaho fall, 2006. Plots from each head row were evaluated for plant color uniformity, stripe rust resistance and test weight. Seed from selected plots was bulked to form pre-breeder seed. Breeder seed was planted in fall, 2007 at the Kimberly Research and Extension Center at Kimberly, Idaho. Foundation seed was produced in the 2008/2009 growing season at the PREEC farm east of Moscow, Idaho. Each generation of ID02-859 was treated with imazamox to insure the presence of the herbicide resistance gene in all plants.

UICF-Brundage was approved for release by the Idaho Foundation Seed Stocks Committee in 2009. UICF-Brundage has been examined for uniformity and absence of segregation since it was placed in advanced line testing in 2005. It was observed to be uniform and stable over three generations of seed increase (pre-breeder – 2006, breeder – 2007, and foundation – 2008). All generations were treated with the herbicide imazamox to insure uniformity of herbicide resistance. No variants for phenotypic characteristics such as height or head morphology or herbicide resistance have been observed in foundation fields of UICF-Brundage.

EXHIBIT B: NOVELTY STATEMENT FOR UICF-BRUNDAGE WHEAT

UICF-Brundage is intended for the irrigated and rainfed areas of the Pacific Northwest (Idaho, Oregon and Washington) and is most similar to the soft white winter wheat cultivar Brundage 96. UICF-Brundage a backcross derived line from the cultivars Brundage and Brundage 96 carrying the *Imi-1* gene for resistance. UICF-Brundage can be easily differentiated from either Brundage or Brundage 96 by screening for the herbicide resistance gene *Imi-1*. This can be accomplished phenotypically through the application of the herbicide imazamox in the seedling stage.

Phenotypic differentiation of UICF-Brundage from either Brundage or Brundage 96 can be accomplished by spraying the plants at the 3 to 5 leaf stage with a 1X (45 g/ha) rate of imazamox (Beyond herbicide - BASF) following label directions for herbicide application (Carter et al. 2007). Plants not carrying the *Imi-1* gene will start showing injury at 14 to 21 days and will ultimately die while plants carrying the *Imi-1* gene will survive.

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 2.5 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.

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

Exhibit C

**OBJECTIVE DESCRIPTION OF VARIETY
Wheat (*Triticum* spp.)**

NAME OF APPLICANT (S) University of Idaho	TEMPORARY OR EXPERIMENTAL DESIGNATION ID02-859	VARIETY NAME UICF-Brundage
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country) Morrill Hall 414 P.O. Box 443003 Moscow, ID 83844-3003 Enter your e-mail address: gaylene@uidaho.edu		FOR OFFICIAL USE ONLY PVPO NUMBER 201100031

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g., 0 9 9 or 0 9) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: _____ . Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND: <u>1</u> 1 = Common 2 = Durum 3 = Club 4 = Other (Specify) _____	2. VERNALIZATION: <u>2</u> 1 = Spring 2 = Winter 3 = Other (Specify) _____
--	--

3. COLEOPTILE ANTHOCYANIN: <u>1</u> 1 = Absent 2 = Present	4. JUVENILE PLANT GROWTH: <u>2</u> 1 = Prostrate 2 = Semi-Erect 3 = Erect
---	---

5. PLANT COLOR: (Boot Stage) <u>3</u> 1 = Yellow-Green 2 = Green 3 = Blue-Green	6. FLAG LEAF: (Boot Stage) <table border="0"> <tr> <td><u>1</u></td> <td>1 = Erect</td> <td>2 = Reurved</td> </tr> <tr> <td><u>2</u></td> <td>1 = Not Twisted</td> <td>2 = Twisted</td> </tr> <tr> <td><u>2</u></td> <td>1 = Wax Absent</td> <td>2 = Wax Present</td> </tr> </table>	<u>1</u>	1 = Erect	2 = Reurved	<u>2</u>	1 = Not Twisted	2 = Twisted	<u>2</u>	1 = Wax Absent	2 = Wax Present
<u>1</u>	1 = Erect	2 = Reurved								
<u>2</u>	1 = Not Twisted	2 = Twisted								
<u>2</u>	1 = Wax Absent	2 = Wax Present								

7. EAR EMERGENCE:

167 Number of Days (Average)

_____ Number of Days Earlier Than * _____

Same As * _____

1 Number of Days Later Than * Brundage 96

*Relative to a PVPO-Approved Commercial Variety Grown in the Same Trial

8. ANTHOR COLOR: 1 1 = Yellow 2 = Purple

9. PLANT HEIGHT: (From Soil to Top of Head, Excluding Awns)78 cm (Average)

_____ cm Taller Than _____ *

Same As _____ *

3 cm Shorter Than _____ *Brundage 96 _____ ***10. STEM:**1 A. ANTHOCYANIN 1 = Absent 2 = Present D. INTERNODE 1 = Hollow 2 = Semi-Solid 3 = Solid
4 Number of Nodes2 B. WAXY BLOOM 1 = Absent 2 = Present1 E. PEDUNCLE 1 = Erect 2 = Recurved 3 = Semi-Erect
30 cm Length2 C. HAIRINESS (last internode of rachis) 1 = Absent 2 = Present F. AURICLE
1 Anthocyanin: 1 = Absent 2 = Present
2 Hair: 1 = Absent 2 = Present**11. HEAD:** (At Maturity)3 A. DENSITY
1 = Lax
2 = Middense (Laxidense)
3 = Dense1 C. CURVATURE
1 = Erect
2 = Inclined
3 = Recurved1 B. SHAPE
1 = Tapering
2 = Strap
3 = Clavate
4 = Other (Specify) _____3 D. AWNEDNESS
1 = Awnless
2 = Apically Awnletted
3 = Awnletted
4 = Awned**12. GLUMES:** (At Maturity)1 A. COLOR
1 = White
2 = Tan
3 = Other (Specify) _____2 E. BEAK WIDTH
1 = Narrow
2 = Medium
3 = Wide2 B. SHOULDER
1 = Wanting 2 = Oblique
3 = Rounded 4 = Square
5 = Elevated 6 = Apiculate
7 = Other (Specify) _____3 F. GLUME LENGTH
1 = Short (ca. 7 mm)
2 = Medium (ca. 8 mm)
3 = Long (ca. 9 mm)1 C. SHOULDER WIDTH
1 = Narrow
2 = Medium
3 = Wide3 G. WIDTH
1 = Narrow (ca. 3 mm)
2 = Medium (ca. 3.5 mm)
3 = Wide (ca. 4 mm)1 D. BEAK
1 = Obtuse
2 = Acute
3 = Acuminate2 H. PUBESCENCE
1 = Not Present
2 = Present

13. SEED:

1 A. SHAPE

- 1 = Ovate
- 2 = Oval
- 3 = Elliptical

1 E. COLOR

- 1 = White
- 2 = Amber
- 3 = Red
- 4 = Other (Specify) _____

1 B. CHEEK

- 1 = Rounded
- 2 = Angular

2 F. TEXTURE

- 1 = Hard
- 2 = Soft
- 3 = Other (Specify) _____

2 C. BRUSH

- 1 = Short
- 2 = Medium
- 3 = Long
- 1 = Not Collared
- 2 = Collared

4 G. PHENOL REACTION

- 1 = Ivory
- 2 = Fawn
- 3 = Light Brown
- 4 = Dark Brown
- 5 = Black

___ D. CREASE

- 1
- 1 = Width 60% or less of Kernel
 - 2 = Width 80% or less of Kernel
 - 3 = Width Nearly as Wide as Kernel

42 H. SEED WEIGHT

g/1000 Seed (Whole Number Only)

- 2
- 1 = Depth 20% or less of Kernel
 - 2 = Depth 35% or less of Kernel
 - 3 = Depth 50% or less of Kernel

2 I. GERM SIZE

- 1 = Small
- 2 = Midsize
- 3 = Large

14. DISEASE: PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

- 1 Stem Rust (*Puccinia graminis* f. sp. *tritici*) Race: _____
- 1 Leaf Rust (*Puccinia recondita* f. sp. *tritici*) Race: _____
- 3 Stripe Rust (*Puccinia striiformis*) Race: _____
- 0 Loose Smut (*Ustilago tritici*) Race: _____
- 0 Tan Spot (*Pyrenophora tritici-repentis*) Race: _____
- 0 Flag Smut (*Urocystis agropyri*) Race: _____
- 0 Halo Spot (*Selenophoma donacis*) Race: _____
- 0 Common Bunt (*Tilletia tritici* or *T. laevis*) Race: _____
- 0 *Septoria nodorum* (Glume Blotch) Race: _____
- 1 Dwarf Bunt (*Tilletia controversa*) Race: _____
- 0 *Septoria avenae* (Speckled Leaf Disease) Race: _____
- 0 Karnal Bunt (*Tilletia indica*) Race: _____
- 0 *Septoria tritici* (Speckled Leaf Blotch) Race: _____
- 0 Powdery Mildew (*Erysiphe graminis* f. sp. *tritici*) Race: _____
- 0 Scab (*Fusarium* spp.) Race: _____
- 0 "Snow Molds" Race: _____
- 0 "Black Point" (Kernel Smudge) Race: _____
- 0 Common Root Rot (*Fusarium*, *Cochliobolus* and *Bipolaris* spp.) Race: _____
- 1 Barley Yellow Dwarf Virus (BYDV) Race: _____
- 0 Rhizoctonia Root Rot (*Rhizoctonia solani*) Race: _____
- 0 Soilborne Mosaic Virus (SBMV) Race: _____
- 0 Black Chaff (*Xanthomonas campestris* pv. *translucens*). Race: _____
- 0 Wheat Yellow (Spindle Streak) Mosaic Virus Race: _____
- 0 Bacterial Leaf Blight (*Pseudomonas syringae* pv. *syringae*) Race: _____
- 0 Wheat Streak Mosaic Virus (WSMV) Race: _____
- 1 Other (Specify) Pseudocercospora foot rot Race: _____
- Other (Specify) _____ Race: _____
- Other (Specify) _____ Race: _____
- Other (Specify) _____ Race: _____

15. HOMOZYGOUS FOR SPECIFIC DISEASE RESISTANCE GENE

Stem rust _____
 Leaf rust _____
 Other _____

16. INSECT: PLEASE SPECIFY BIOTYPE (Where Needed) (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

- 1 Hessian Fly (*Mayetiola destructor*) General _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype A _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype B _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype C _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype D _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype E _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype F _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype G _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype H _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype I _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype J _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype L _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype M _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype N _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype O _____
- 0 Hessian Fly (*Mayetiola destructor*) (Specify) _____
- 0 Stem Sawfly (*Cephus* spp.) (Specify) _____
- 1 Cereal Leaf Beetle (*Oulema melanopa*) (Specify) _____
- 1 Russian Aphid 1 (*Diuraphis noxia*) _____
- 1 Russian Aphid 2 (*Diuraphis noxia*) _____
- 0 Greenbug (*Schizaphis graminum*) (General) _____
- 0 Greenbug (*Schizaphis graminum*) Biotype A _____
- 0 Greenbug (*Schizaphis graminum*) Biotype B _____
- 0 Greenbug (*Schizaphis graminum*) Biotype C _____
- 0 Greenbug (*Schizaphis graminum*) Biotype E _____
- 0 Greenbug (*Schizaphis graminum*) Other (Specify) _____
- 0 Aphids (Specify) _____
- _____ Other (Specify) _____

17. HIGH MOLECULAR WEIGHT GLUTENIN SUBUNIT PROFILE (Check those that apply):

<table border="1"> <tr><td> </td></tr> <tr><td>1</td></tr> <tr><td>2*</td></tr> <tr><td>null</td></tr> <tr><td>1*</td></tr> </table>		1	2*	null	1*	<p><u>Glu-A1</u></p>	<table border="1"> <tr><td> </td></tr> <tr><td>6+8</td></tr> <tr><td>7+8</td></tr> <tr><td>7+9</td></tr> <tr><td>13+16</td></tr> <tr><td>13+19</td></tr> <tr><td>17+18</td></tr> </table>		6+8	7+8	7+9	13+16	13+19	17+18	<p><u>Glu-B1</u></p>	<table border="1"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td>✓</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>			✓				<p><u>Glu-D1</u></p>
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					5+10																		
					null																		

18. TRANSLOCATIONS (1=Present 2=Absent 3=Heterogeneous 4= Not Tested):

- 2 1BL/1RS
- 2 1A/1R
- 4 2NS/2AS
- 4 4DL/4AgS
- _____ OTHER (explain) _____
- _____ OTHER (explain) _____

19. IMIDAZOLINONE HERBICIDE TOLERANCE (1=Present 2=Absent 3=Not Tested):

1 *Als-1*
2 *Als-2*
2 *Als-3*

20. ADDITIONAL INFORMATION ON ANY ITEM ABOVE OR GENERAL COMMENTS:

EXHIBIT D. ADDITIONAL DESCRIPTION OF UICF-BRUNDAGE

UICF-Brundage is a semi-dwarf wheat that is similar to both Brundage 96 and Brundage in its agronomic characteristics. In terms of height UICF-Brundage is similar in height under rainfed conditions being slightly taller than Brundage and slightly shorter than Brundage 96 (Exhibit D Table 1). Under irrigation the differences are greater with UICF-Brundage being shorter than both Brundage and Brundage 96 based on six site years of evaluation. UICF-Brundage has erect, slightly curved flag leaves and its heading date slightly later than Brundage 96 averaging 1 day later and is 5 days later than Brundage. (Exhibit D Table 1). UICF-Brundage has good to excellent straw strength showing little or no lodging over three years of evaluation. Lemmas of UICF-Brundage are awnleted and seed is intermediate to large in size, white and soft. UICF-Brundage was tested as ID02-859 in the Western Regional White Winter Wheat Nursery for three years (2007-2009)

UICF-Brundage shows a minimal level of injury to application of imazamox in the spring at either the 1X or 2X rate at both an early application time (3-4 leaf stage) or a late application time (prior to jointing) based on yield with the greatest reduction occurring with the late application in three years (2006-2008) of testing (6 site/years) though the response varied depending on site and year. UICF-Brundage showed a similar level of injury or lack of injury to the herbicide in all trials as the commercially available imazamox resistant cultivars IDO 587, ORCF-101 and ORCF-102. BASF has reviewed the performance of UICF-Brundage with their imazamox herbicide 'Beyond' and approved its release as a imazamox resistant Clearfield cultivar.

UICF-Brundage has similar yield potential to Brundage 96 and a greater yield potential to Brundage under rainfed conditions. (Exhibit D Table 1, 2). In three years (2007-2009) of advanced yield testing in Northern Idaho (20 site/years) UICF-Brundage averaged 5,261 kg ha⁻¹ while Brundage 96 averaged 5,292 kg ha⁻¹ and Brundage averaged 5,065 kg ha⁻¹. Under irrigation UICF-Brundage was higher yielding (9,645 kg ha⁻¹) than Brundage 96 (9,522 kg ha⁻¹) but yielded less than Brundage (9,785 kg ha⁻¹) over 9 site/years of testing in Southern Idaho. In three years (2007-2009) of evaluation in the Western Regional Soft Winter Wheat Nursery (34 site/years), UICF-Brundage again performed slightly better than Brundage 96 averaging 6,965 kg ha⁻¹ compared to 6,853 kg ha⁻¹ for Brundage (Exhibit D Table 3).

UICF-Brundage has similar test weight as Brundage 96 under both rainfed and irrigated conditions. (Exhibit D Table 1, 2). In 3 years of advanced testing (18 site/years), UICF-Brundage averaged 714 kg m⁻³ compared to 722 kg m⁻³ for Brundage 96 and 743 kg m⁻³ compared to 736 kg m⁻³ for Brundage 96 under irrigation. In the Western Regional Soft Winter Wheat Nursery UICF-Brundage was again similar to Brundage, averaging 739 kg m⁻³ while Brundage averaged 741 kg m⁻³ (Exhibit D Table 3).

UICF-Brundage has similar end-use quality as Brundage 96 and Brundage. In three years (2007-2009) of evaluation in the Idaho advanced yield trials, UICF-Brundage's percent flour protein was slightly lower than both Brundage 96 and Brundage under rainfed conditions and slightly higher than both under irrigation (Exhibit D Table 4). For percent flour yield, UICF-Brundage was more similar to Brundage 96 with both being less than Brundage under both rainfed and irrigation condition. For percent break flour yield, all three cultivars were similar with UICF-Brundage and Brundage averaging

over 40% break flour under both rainfed and irrigated condition. In terms of sugar snap cookie diameter all three cultivars were identical at 8.6 cm under rainfed conditions and 8.8 cm under irrigation. The similarity of the cultivars for quality was a primary goal in the development of both Brundage 96 and UICF-Brundage.

UICF-Brundage has similar level of moderate high temperature adult plant (HTAP) resistance to stripe rust (caused by *Puccinia striiformis* Westend.) based on testing associated with the Western Regional Soft Winter Wheat Nursery (Exhibit D Table 5, 6). Early infection with new races of stripe rust (Race 127) in 2010 indicates that if environmental conditions such as a cool, wet spring occur, the moderate level of stripe rust resistance in UICF-Brundage may be inadequate and the cultivar would require fungicidal application to prevent yield loss. UICF-Brundage is susceptible to strawbreaker footrot (caused by *Pseudocercospora herpotrichoides* (Fron) Deighton), and stem rust (*Puccinia graminis* Pers.:Pers. f. sp. *tritici* Eriks. E. Henn) and dwarf bunt (caused by *Tilletia controversa* Kühn in Rabenh.).

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- Zemetra, R.S., M.L. Lauver, K. O'Brien, T. Koehler, E.J. Souza, S.O. Guy, L. Robertson, and B. Brown. 2003. Registration of 'Brundage 96' wheat. *Crop Sci.* 43: 1884.

Exhibit D - Table 1. Mean agronomic performance of UICF-Brundage, Brundage 96 and Brundage over three years (2007-2009) of testing in the Idaho Advanced Yield Trial under rainfed conditions in Northern Idaho.

Heading date - Julian

year	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>mean</u>
no. of sites	1	1	1	3
<u>cultivar</u>				
Brundage	153	172	160	162
Brundage 96	160	173	164	166
UICF-Brundage	162	173	165	167

Height - cm

year	2007	2008	2009	mean
no. of sites	6	7	6	19
<u>cultivar</u>				
Brundage	72	63	68	68
Brundage 96	76	63	70	70
UICF-Brundage	74	64	70	69

Yield - kilograms/hectare

year	2007	2008	2009	mean
no. of sites	7	7	6	20
<u>cultivar</u>				
Brundage	5778	3763	5654	5065
Brundage 96	5778	4099	5998	5292
UICF-Brundage	5241	4233	6310	5261

Test weight kg/m³

year	2007	2008	2009	mean
no. of sites	7	7	6	20
<u>cultivar</u>				
Brundage	768	712	753	744
Brundage 96	736	703	729	722
UICF-Brundage	721	694	729	714

Exhibit D - Table 2. Mean agronomic performance of UICF-Brundage, Brundage 96 and Brundage over three years (2007-2009) of testing in the Idaho Advanced Yield Trial under irrigated conditions in Southern Idaho.

Height - cm				
year	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>mean</u>
no. of sites	2	2	2	6
<u>cultivar</u>				
Brundage	85	86	93	88
Brundage 96	86	93	100	93
UICF-Brundage	81	88	90	86
Yield - kilograms/hectare				
year	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>mean</u>
no. of sites	2	3	3	9
<u>cultivar</u>				
Brundage	10213	8936	10206	9785
Brundage 96	9743	9205	9522	9490
UICF-Brundage	10146	9474	9314	9645
Test weight kg/m³				
year	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>mean</u>
no. of sites	3	3	3	9
<u>cultivar</u>				
Brundage	785	772	777	778
Brundage 96	731	737	741	736
UICF-Brundage	735	746	745	742

Exhibit D - Table 3. Mean yield and test weight of UICF-Brundage and Brundage 96 in the Western Regional Soft Winter Wheat Nursery over three years (2007-2009).

Yield - kilograms/hectare				
year	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>mean</u>
no. of sites	13	10	11	34
<u>cultivar</u>				
Brundage 96	7189	6719	6652	6853
UICF-Brundage	6988	6988	6921	6965
Test weight kg/m³				
year	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>mean</u>
no. of sites	9	8	9	26
<u>cultivar</u>				
Brundage 96	749	735	739	741
UICF-Brundage	737	740	740	739

Exhibit D - Table 4. End-use quality performance over three years for UICF-Brundage, Brundage 96 and Brundage. Data includes percent flour protein (% fl pro), percent break flour (% break flour), percent total flour yield (% fl. yld), and cookie diameter based off of the sugar snap cookie test.

% fl pro	rainfed-05	rainfed-06	rainfed-07	mean
<u>no. locations</u>	<u>5</u>	<u>5</u>	<u>4</u>	<u>14</u>
UICF-Lambert	8.2	8.9	8.2	8.4
Lambert	7.7	9.0	8.2	8.3
Stephens	8.5	8.9	9.2	8.9

% break flour	rainfed-05	rainfed-06	rainfed-07	mean
<u>no. locations</u>	<u>5</u>	<u>5</u>	<u>4</u>	<u>14</u>
UICF-Lambert	39.3	37.8	39.5	38.9
Lambert	39.3	36.3	40.4	38.7
Stephens	37.3	33.6	37.9	36.3

% fl yld	rainfed-05	rainfed-06	rainfed-07	mean
<u>no. locations</u>	<u>5</u>	<u>5</u>	<u>4</u>	<u>14</u>
UICF-Lambert	66.7	68.8	66.5	67.3
Lambert	66.9	67.9	66.8	67.2
Stephens	66.0	68.4	65.9	66.8

cookie dia - cm	rainfed-05	rainfed-06	rainfed-07	mean
<u>no. locations</u>	<u>5</u>	<u>5</u>	<u>4</u>	<u>14</u>
UICF-Lambert	8.4	8.3	8.4	8.4
Lambert	8.3	8.2	8.4	8.3
Stephens	8.4	8.4	8.5	8.4

Exhibit D - Table 5. Stripe rust infection type (IT) and severity (%) on UICF-Brundage and Brundage 96 in the 2008 Western Regional Soft Winter Wheat Nursery at the Whitlow Farm (LOC-4) near Pullman, WA, Mt. Vernon, WA (LOC-5), and Walla Walla, WA (LOC-6) when recorded at the indicated dates and stages of plant growth under natural infection.

Entry No.	Entry name	2008 Plot	LOC 04		LOC 05		LOC 06			
			7/11/2008	4/24/2008	6/5/2008	7/1/2008				
			Dough		Stem elong.		Heading			
			IT	%	IT	%	IT	%		
1	Brundage 96	2	3	40	5	40	2	20	8	20
11	UICF-Brundage	12	4	10	5	30	2	10	5	20

Exhibit D - Table 6. Stripe rust infection type (IT) and severity (%) on UICF-Brundage and Brundage 96 in the 2009 Western Regional Soft Winter Wheat Nursery at the Whitlow Farm (LOC-4) near Pullman, WA, Mt. Vernon, WA (LOC-5), and Walla Walla, WA (LOC-6) when recorded at the indicated dates and stages of plant growth under natural infection.

Entry No.	Entry name	2009 Plot	Fields							
			LOC 04		LOC 05		LOC 06			
			7/1/09	4/22/09	6/5/09	6/20/09				
			Milk		Stem elong.		Flowering			
			IT	%	IT	%	IT	%		
1	Brundage 96	2	3	10	8	20	2	5	5	30
6	UICF-Brundage	7	3	20	8	10	2	5	5	20

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE

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).

**EXHIBIT E
 STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S) University of Idaho	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER ID02-859	3. VARIETY NAME UICF-Brundage
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) Morrill Hall 414 P.O. Box 443003 Moscow, Idaho 83844-3003	5. TELEPHONE (Include area code) 208-885-4550	6. FAX (Include area code) 208-885-4551
7. PVPO NUMBER 201100031		

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 a U.S. national or a U.S. based entity? 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):

UICF-Brundage (ID02-859) was developed by the University of Idaho's soft white winter wheat breeding program through backcrossing using two University of Idaho PVP cultivars, Brundage and Brundage 96.

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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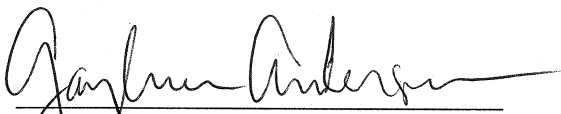
To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) University of Idaho	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) Morrill Hall 414 P.O. Box 443003 Moscow, Idaho 83844-3003	TEMPORARY OR EXPERIMENTAL DESIGNATION ID02-859
		VARIETY NAME UICF-Brundage
NAME OF OWNER REPRESENTATIVE (S) Gaylene Anderson	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) Morrill Hall 414 P.O. Box 443003 Moscow, Idaho 83844-3003	FOR OFFICIAL USE ONLY
		PVPO NUMBER 201100031

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.



Signature

10/29/10

Date