

No.



201400419

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 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.)

WHEAT, COMMON

'UI Platinum'



Attest:

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

Commissioner

Plant Variety Protection Office

Secretary of Agriculture

REPRODUCE LOCALLY. Includes form number and date on all reproductions

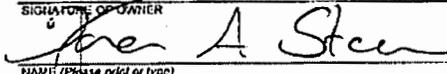
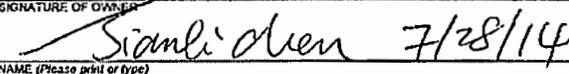
Form Approved - OMB No. 0581-0055

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 University of Idaho		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME IDO694C-A		3. VARIETY NAME UI Platinum	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) University of Idaho Office of Technology Transfer Morrill Hall 414, P.O. Box 443003		5. TELEPHONE (include area code) 208-885-4550		FOR OFFICIAL USE ONLY PVPO NUMBER 201400419 FILING DATE 8/6/2014	
		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.) Land-Grant University		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) Karon Stevenson, Licensing Associate, University of Idaho, Office of Technology Transfer, Morrill Hall 414, P.O. Box 443003 Jianli Chen, Breeder, University of Idaho R & E Center, 1691 S 2700 W, Aberdeen, ID 83210				FILING AND EXAMINATION FEES: \$ 4,382 DATE 8/6/2014 CERTIFICATION FEE: \$ DATE	
11. TELEPHONE (include area code) 208-885-4550		12. FAX (include area code) 208-885-4551		13. E-MAIL karens@uidaho.edu	
14. CROP KIND (Common Name) Hard White Spring Wheat		15. FAMILY NAME (Botanical) Triticaceae		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APIBS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
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		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	
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 type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owners 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)				21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
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 type="checkbox"/> YES <input checked="" 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.)				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.)	
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.				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.)	
SIGNATURE OF OWNER 		SIGNATURE OF OWNER 			
NAME (Please print or type) Karon Stevenson		NAME (Please print or type) Jianli Chen			
CAPACITY OR TITLE Licensing Associate		DATE July 28, 2014		CAPACITY OR TITLE Associate Professor	
		DATE July 28, 2014			

LAWC
10/15/2014

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 initiated 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: PVPOmail@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.)

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

UI Platinum was derived from the cross ‘Blanca Grande’ x ‘Jerome’ and tested under experimental numbers A01178S, IDO694, and IDO694C. Blanca Grande (PI 631481) is a hard white spring wheat cultivar that was released by Resource Seeds, Inc in 2002 and patented in 2003. Jerome (PI 632712, Souza et al., 2005) is a hard red spring wheat cultivar that was released in 2004.

The initial cross of UI Platinum was made in a greenhouse in Aberdeen, ID and the F₁ (A01178S) was planted in a field headrow in spring 2001. The headrow was bulk harvested and used as F₂ seeds. The F₂ to F₄ generations were advanced using the bulk method (without intentional selection) in 4.5 m² plots from 2002 to 2004 in the field at Aberdeen. In summer 2004, 100 individual heads were selected and individually threshed and planted as single row plots in 2005. Out of the 100 headrows, eight F_{4:5} headrows were selected for short stature and uniformity. Grains from six headrows were tested for SDS-Sedimentation (SDS-SED). Two with larger SDS-SED values were selected and planted in an unreplicated yield trial (4.5 m² plots) in 2006. Based on agronomic performance one line A01178S-1 was selected and named IDO694 in 2007. IDO694 was tested in replicated elite yield trials in Aberdeen, Tetonia, and Kimberly, Idaho from 2008 to 2009. IDO694C was re-selected in 2009 with enhanced resistance to stripe rust. IDO694C was tested in the University of Idaho Spring Wheat Elite Trials (UISWEYTs) from 2010 to 2014, in the Western Regional Hard Spring Wheat Nurseries (WTHSWNs), Idaho State Spring Wheat Variety Yield Trials (IDSWVYTs), Washington and Oregon State Variety Trials, and industry test plots from 2012 to 2014. The name of UI Platinum was given to IDO694C because of its consistent grain yield and end-use quality in diverse environments.

For seed purification in the summer 2011, 400 single heads were selected from a seed-increase plot and planted in 400 isolated breeder’s seed headrows in Tetonia, ID in spring 2012. Uniform headrows were selectively harvested and tested for protein and test weight. The selected headrows were individually planted into isolated plots and replicated 2 times in Aberdeen in spring 2013. A small sample (one tea spoon) of the selected headrows was simultaneously

screened for resistance to stripe rust in the USDA-ARS Stripe Rust Nursery in Pullman, WA in 2013. A composite from 96 breeder's plots that had similar plant height and heading dates, similar level of stripe rust resistance, protein content, and test weight was made. Four hundred pounds of the breeder seed were planted for foundation seed production in an irrigated field in Aberdeen, ID, in spring 2014.

UI Platinum has similar level of stripe rust resistance to WB Idamax, but better resistance than SnowCrest and WB Paloma. The average infection type and severity over 2012 and 2013 were 3 and 5% in soft dough stage for Platinum and Idamax, while 5 and 30% for SnowCrest and Paloma, respectively.

UI Platinum has been genetically uniform and stable over three generations of seed increase. UI Platinum contains tall plant variants at a frequency less than 20 per 10,000 plants, dark chaff variants at a frequency less than 5 per 10,000 plants, red kernel seed at a frequency less than 5 per four pounds seed.

Exhibit B – Statement of Distinctness

UI Platinum is most similar to the hard red spring wheat ‘Jerome’ (PI 632712, Souza et al., 2005). The two cultivars may be distinguished based on seed color. Seed color of UI Platinum is white, while Jerome is red.

Reference:

Souza, E.J., N.A. Bosque-Perez, M.J. Guttieri, D.J. Schotzko, S.O. Guy, B. Brown, and R.Zemetra. 2005. Registration of Jerome wheat. *Crop Sci* 45(3): 1161-1162.

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 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.

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.

**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 IDO694C-A	VARIETY NAME UI Platinum
ADDRESS (Street and No., or RD No., City, State, Zip Code and Country) Karen Stevenson, Licensing Associate, University of Idaho, Office of Technology Transfer, Morrill Hall 414, P.O. Box 443003 Jianli Chen, Breeder, University of Idaho R & E Center, 1691 S 2700 W, Aberdeen, ID 83210 Enter your e-mail address: karens@uidaho.edu and jchen@uidaho.edu		FOR OFFICIAL USE ONLY PVPO NUMBER

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> 1 </u> 1 = Spring 2 = Winter 3 = Other (Specify) _____
--	--

3. COLEOPTILE ANTHOCYANIN: <u> 1 </u> 1 = Absent 2 = Present	4. JUVENILE PLANT GROWTH: <u> 3 </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) <u> 2 </u> 1 = Erect 2 = Recurved <u> 1 </u> 1 = Not Twisted 2 = Twisted <u> 1 </u> 1 = Wax Absent 2 = Wax Present
---	--

7. EAR EMERGENCE:

 16⁵ Number of Days (Average)

 2 Number of Days Earlier Than * Paloma

 Same As * SnowCrest ■

 Number of Days Later Than * _____

*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)

80 cm (Average)
 _____ cm Taller Than _____ *
 Same As SnowCrest *
2 cm Shorter Than Paloma *

10. STEM:

1 A. ANTHOCYANIN 1 = Absent 2 = Present
1 B. WAXY BLOOM 1 = Absent 2 = Present
1 C. HAIRINESS (last internode of rachis) 1 = Absent 2 = Present
3 D. INTERNODE 1 = Hollow 2 = Semi-Solid 3 = Solid
3 Number of Nodes
1 E. PEDUNCLE 1 = Erect 2 = Recurved 3 = Semi-Erect
15 cm Length
 _____ F. AURICLE
1 Anthocyanin: 1 = Absent 2 = Present
1 Hair: 1 = Absent 2 = Present

11. HEAD: (At Maturity)

2 A. DENSITY
 1 = Lax
 2 = Middense (Laxidense)
 3 = Dense
2 B. SHAPE
 1 = Tapering
 2 = Strap
 3 = Clavate
 4 = Other (Specify) _____
1 C. CURVATURE
 1 = Erect
 2 = Inclined
 3 = Recurved
4 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 B. SHOULDER
 1 = Wanting 2 = Oblique
 3 = Rounded 4 = Square
 5 = Elevated 6 = Apiculate
 7 = Other (Specify) _____
3 C. SHOULDER WIDTH
 1 = Narrow
 2 = Medium
 3 = Wide
3 D. BEAK
 1 = Obtuse
 2 = Acute
 3 = Acuminate
1 E. BEAK WIDTH
 1 = Narrow
 2 = Medium
 3 = Wide
2 F. GLUME LENGTH
 1 = Short (ca. 7 mm)
 2 = Medium (ca. 8 mm)
 3 = Long (ca. 9 mm)
3 G. WIDTH
 1 = Narrow (ca. 3 mm)
 2 = Medium (ca. 3.5 mm)
 3 = Wide (ca. 4 mm)
1 H. PUBESCENCE
 1 = Not Present
 2 = Present

15. HOMOZYGOUS FOR SPECIFIC DISEASE RESISTANCE GENE

Stem rust Sr2
 Leaf rust _____
 Other _____

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

- 0 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) _____
- 0 Cereal Leaf Beetle (*Oulema melanopa*) (Specify) _____
- 0 Russian Aphid 1 (*Diuraphis noxia*) _____
- 0 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) _____
- 0 Other (Specify) _____

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

<table border="0"> <tr><td><input type="checkbox"/></td><td><u>Glu-A1</u></td></tr> <tr><td><input type="checkbox"/></td><td>1</td></tr> <tr><td><input type="checkbox"/></td><td>2*</td></tr> <tr><td><input type="checkbox"/></td><td>null</td></tr> <tr><td><input type="checkbox"/></td><td>1*</td></tr> </table>	<input type="checkbox"/>	<u>Glu-A1</u>	<input type="checkbox"/>	1	<input type="checkbox"/>	2*	<input type="checkbox"/>	null	<input type="checkbox"/>	1*	<table border="0"> <tr><td><input type="checkbox"/></td><td><u>Glu-B1</u></td></tr> <tr><td><input type="checkbox"/></td><td>6+8</td></tr> <tr><td><input type="checkbox"/></td><td>7+8</td></tr> <tr><td><input type="checkbox"/></td><td>7+9</td></tr> <tr><td><input type="checkbox"/></td><td>13+16</td></tr> <tr><td><input type="checkbox"/></td><td>13+19</td></tr> <tr><td><input type="checkbox"/></td><td>17+18</td></tr> </table>	<input type="checkbox"/>	<u>Glu-B1</u>	<input type="checkbox"/>	6+8	<input type="checkbox"/>	7+8	<input type="checkbox"/>	7+9	<input type="checkbox"/>	13+16	<input type="checkbox"/>	13+19	<input type="checkbox"/>	17+18	<table border="0"> <tr><td><input type="checkbox"/></td><td><u>Glu-D1</u></td></tr> <tr><td><input type="checkbox"/></td><td>2+11</td></tr> <tr><td><input type="checkbox"/></td><td>2+12</td></tr> <tr><td><input type="checkbox"/></td><td>3+12</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>5+10</td></tr> <tr><td><input type="checkbox"/></td><td>null</td></tr> </table>	<input type="checkbox"/>	<u>Glu-D1</u>	<input type="checkbox"/>	2+11	<input type="checkbox"/>	2+12	<input type="checkbox"/>	3+12	<input checked="" type="checkbox"/>	5+10	<input type="checkbox"/>	null
<input type="checkbox"/>	<u>Glu-A1</u>																																					
<input type="checkbox"/>	1																																					
<input type="checkbox"/>	2*																																					
<input type="checkbox"/>	null																																					
<input type="checkbox"/>	1*																																					
<input type="checkbox"/>	<u>Glu-B1</u>																																					
<input type="checkbox"/>	6+8																																					
<input type="checkbox"/>	7+8																																					
<input type="checkbox"/>	7+9																																					
<input type="checkbox"/>	13+16																																					
<input type="checkbox"/>	13+19																																					
<input type="checkbox"/>	17+18																																					
<input type="checkbox"/>	<u>Glu-D1</u>																																					
<input type="checkbox"/>	2+11																																					
<input type="checkbox"/>	2+12																																					
<input type="checkbox"/>	3+12																																					
<input checked="" type="checkbox"/>	5+10																																					
<input type="checkbox"/>	null																																					

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

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

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

3 Als-1

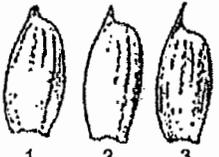
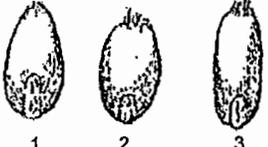
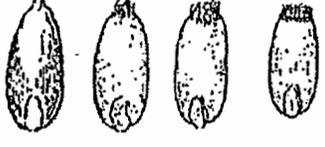
3 Als-2

3 Als-3

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

WHEAT DESCRIPTOR ILLUSTRATIONS

Section Numbers Correspond to the Numbers of the Sections on the Form

<p>4. EARLY PLANT GROWTH HABIT:</p>  <p>1 Prostrate 2 Intermediate 3 Erect</p>	<p>10. (D.) STEM INTERNODE X-SECTION:</p>  <p>1 Hollow 2 Semi-solid 3 Solid</p>	<p>11. (B.) SPIKE SHAPE:</p>  <p>1 Tapering 2 Oblong 3 Clavate 4 Elliptical</p>	
<p>11. (D.) AWNEDNESS:</p>  <p>1 Awnless 2 Apically Awnleted 3 Awnleted 4 Awned</p>	<p>12. (D.) BEAK SHAPE:</p>  <p>1 Obtuse 2 Acute 3 Acuminate</p>	<p>12. (C.) SHOULDER SHAPE:</p>  <p>1 Wanting 2 Oblique 3 Rounded 4 Square 5 Elevated 6 Apiculate</p>	
<p>13. (A.) SEED SHAPE:</p>  <p>1 Ovate 2 Oval 3 Elliptical</p>	<p>13. (B.) CHEEK SHAPE:</p>  <p>1 Rounded 2 Angular</p>	<p>13. (C.) BRUSH SIZE:</p>  <p>1 Small 2 Midsized 3 Large 4 Collared</p>	<p>13. (C.) BRUSH HAIR LENGTH:</p>  <p>1 Short 2 Medium 3 Long</p>
<p>13. (I.) GERM (EMBRYO) SIZE:</p>  <p>1 Small 2 Midsized 3 Large</p>	<p>13. (D.) SEED CREASE WIDTH:</p>  <p>1 Narrow 2 Mid-wide 3 Wide</p>	<p>13. (D.) SEED CREASE DEPTH:</p>  <p>1 Shallow 2 Mid-Deep 3 Deep</p>	

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

FORM APPROVED - OMB No. 0581-0055

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 IDO694C-A	3. VARIETY NAME UI Platinum
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) University of Idaho Office of Technology Transfer Morrill Hall 414, P.O. Box 443003		5. TELEPHONE (include area code) 208-885-4550	6. FAX (include area code) 208-885-4551
		7. PVPO NUMBER	

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):

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.

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.

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 information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 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.

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).

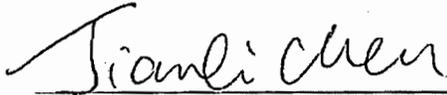
To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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

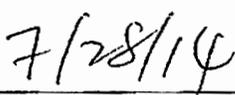
EXHIBIT F
 DECLARATION REGARDING DEPOSIT

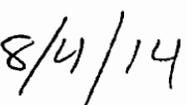
NAME OF OWNER (S) University of Idaho	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) University of Idaho Office of Technology Transfer Morrill Hall 414, P.O. Box 443003	TEMPORARY OR EXPERIMENTAL DESIGNATION IDO694C-A
NAME OF OWNER REPRESENTATIVE (S) Jianli Chen, Breeder Karen Stevenson, Licensing Associate	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) Jianli Chen, University of Idaho R & E Center, 1691 S 2700 W, Aberdeen, ID 83210 Karen Stevenson, University of Idaho, Office of Technology Transfer, Morrill Hall 414, P.O. Box 443003	VARIETY NAME UI Platinum FOR OFFICIAL USE ONLY PVPO NUMBER

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


 Signature


 Date


 Date