

No.



201600300

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 Magic'

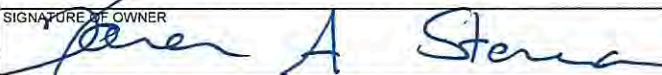


Attest:

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-eighth day of November, in the year two thousand and sixteen.

Commissioner
Plant Variety Protection Office

Secretary of Agriculture

<p>U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE</p> <p>APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE <i>(Instructions and information collection burden statement on reverse)</i></p>		<p><i>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.</i></p> <p><i>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).</i></p>	
<p>1. NAME OF OWNER</p> <p>University of Idaho</p>		<p>2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME</p> <p>09-DH11</p>	<p>3. VARIETY NAME</p> <p>UI Magic</p>
<p>4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)</p> <p>University of Idaho 875 Perimeter Dr., MS3003 Moscow, ID 83844-3003</p>		<p>5. TELEPHONE (include area code)</p> <p>(208) 885 4550</p>	<p>FOR OFFICIAL USE ONLY</p> <p>PVPO NUMBER</p> <p>201600300</p>
<p>7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)</p> <p>University of Idaho</p>		<p>8. IF INCORPORATED, GIVE STATE OF INCORPORATION</p> <p>Idaho</p>	<p>9. DATE OF INCORPORATION</p> <p>N/A</p>
<p>10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)</p> <p>Karen A Stevenson Office of Technology Transfer University of Idaho 875 Perimeter Dr., MS3003 Moscow, ID 83844-3003</p>		<p>11. TELEPHONE (Include area code)</p> <p>(208) 885 4550</p>	<p>FILING AND EXAMINATION FEES:</p> <p>\$ 4,382</p> <p>DATE 7/5/2016</p> <p>CERTIFICATION FEE:</p> <p>\$</p> <p>DATE</p>
<p>13. E-MAIL</p> <p>karens@uidaho.edu</p>		<p>12. FAX (Include area code)</p> <p>(208) 885 4551</p>	<p>F E E S</p> <p>R E C D</p>
<p>14. CROP KIND (Common Name)</p> <p>common wheat</p>	<p>15. GENUS AND SPECIES NAME OF CROP</p> <p>Triticum aestivum L.</p>	<p>16. FAMILY NAME (Botanical)</p> <p>Gramineae</p>	
<p>17. IS THE VARIETY A FIRST GENERATION HYBRID?</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF YES, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.</p>	<p>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)</p> <p><input checked="" type="checkbox"/> YES (If "yes", answer items 21 and 22 below)</p> <p><input type="checkbox"/> NO (If "no", go to item 23)</p> <p><input type="checkbox"/> UNDECIDED</p>	
<p>19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)</p> <p>a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety</p> <p>b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness</p> <p>c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety</p> <p>d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional)</p> <p>e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership</p> <p>f. <input checked="" type="checkbox"/> Filing and Examination Fee (\$4,382), make checks payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) other methods of payment explained in the instructions</p>		<p>21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED</p>	
<p>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?</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>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.)</p>		<p>22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.</p> <p>___ FOUNDATION ___ REGISTERED ___ CERTIFIED</p> <p>(If additional explanation is necessary, please use the space indicated on the reverse.)</p>	
<p>25. The owners declare that a viable sample of basic seed will be furnished directly to an acceptable depository in support of the variety within three months of filing. Seed will be replenished upon request in accordance with such regulations as may be applicable. For a tuber propagated variety or vegetative propagated parent of the variety, a tissue culture or vegetative sample will be deposited in a public repository within three months of the date of the certificate fee request letter. These will be maintained for the duration of the certificate.</p> <p>The undersigned owner(s) is (are) the owner(s) 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.</p>		<p>24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)</p>	
<p>SIGNATURE OF OWNER</p> 		<p>SIGNATURE OF OWNER</p>	
<p>NAME (Please print or type)</p> <p>Karen A Stevenson</p>		<p>NAME (Please print or type)</p>	
<p>CAPACITY OR TITLE</p> <p>Licensing Associate</p>	<p>DATE</p> <p>07/05/2016</p>	<p>CAPACITY OR TITLE</p>	<p>DATE</p>

Continuation Page from ST – 470 (Application for Plant Variety Protection Certificate)

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.)*

First sale date was September, 2015

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).)*

US utility application: 13/366,932
filed: 2012-02-06
priority date: 2001-08-09
title: Wheat Plants Having Increased
Resistance to Imidazolinone
Herbicides

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE		FOR OFFICIAL USE ONLY
EXHIBIT A – ORIGIN AND BREEDING HISTORY ** Use additional pages as needed.		PVPO NUMBER
1. Name of Owner University of Idaho	2. Temporary Designation or Experimental Name 09-DH11	3. Variety Name UI Magic
4. Describe the genealogy (back to and including public and commercial varieties, lines, or clones used) and the breeding method(s). ** UI Magic is derived from the cross 07-688-10/Bitterroot Bitterroot is a released line from university of Idaho (PVP 200800411) its pedigree is DH-31/4/Lewjain/3/RDL/SU92//KAL/BB 07-688-10 is an experimental line from University of Idaho used as a Donor of the 2 IMI resistance genes. UI Magic has been developed using a Di-Haploid method (Corn crossing Method).		
5. Give the details of subsequent stages of selection and multiplication. **		
Year	Detail of Stage	Selection Criteria
2008-2009	Cross	
2009-2010	DH Production	
2010-2011	Single row	
2011-2012	Single plot	Earliness, Height, Disease & Herbicide resistance, Vigor
2012-2013	Multilocal (3), Multi treatment (3), replicated (3) trials	Earliness, Height, Disease & Herbicide resistance, Vigor
2013-2014	Multilocal (10), Multi treatment (3), replicated (3) trials	Yield, Agronomy, Quality Disease & Herbicide resistance
2014-2015	Multilocal (10), Multi treatment (3), replicated (3) trials	Yield, Agronomy, Quality Disease & Herbicide resistance
2014-2015	State Variety trials Idaho and Oregon	Yield, Agronomy, Disease Resistance & Regional Adaptation
6. Is the variety uniform? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
How did you test for uniformity? In 2013, 1500 Heads were selected in Idaho and grown in Arizona as Head Rows during the 2013-2014 season. Head rows were evaluated for purity (Earliness, Height, Color, Head shape, Awedness, etc). The selected Head rows were bulked together to create breeder seeds. In 2014-2015 Breeder seeds were grown in Washington and purity was assessed.		
7. Is the variety stable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
How did you test for stability? Over how many generations? The stability of UI Magic was tested by comparing the variety within 3 successive generations, from the plots grown in 2012-2013 to the Head rows and plots in 2013-2014 and finally the Breeder seeds and plots in 2014-2015.		
8. Are genetic variants observed or expected during reproduction and multiplication? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
If yes, state how these variants may be identified, their type and frequency. UI Magic may contain up to 5 per 1000 of awnless plants, up to 3 per 1000 later flowering or greener plants, and up to 2 per 1000 taller plants, up to 8" above the canopy height and up to 0.75% Red Seed.		

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE EXHIBIT B – STATEMENT OF DISTINCTNESS ** Use additional tables to present clear differences for additional comparison varieties. Use additional pages to present supporting evidence.	FOR OFFICIAL USE ONLY PVPO NUMBER
--	--------------------------------------

1. Name of Owner University of Idaho	2. Temporary Designation or Experimental Name 09-DH11	3. Variety Name UI Magic
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Based on overall morphology, UI Magic is most similar to Skiles. UI Magic most clearly differs from Skiles in the following traits Name the specific trait. Then list the value of that trait for each variety in the comparison. Submit appropriate supporting evidence (see the Guidelines for Presenting Evidence in Support of Variety Distinctness in the instructions):

	Eg. Leaf Pubescence Eg. Leaf Color Eg. Plant Height	heavy pubescence Dark Green (5GY 3/4) 200 cm +/- 10 cm (N=25)	glabrous Light Green (2.5GY 8/10) 250 cm +/- 15 cm (N=25)	photograph attached Munsell Color Chart statistics attached
	1. Qualitative traits:	2. Color traits:	3. Quantitative traits:	4. Other traits:
Application Variety	UI Magic Juvenile plant growth : Erect Flag Leaf (boot Stage) : Not Twisted	Plant Color at boot stage : Blue-Green (Standard use : Royal Horticultural Society)		Imidazolinone Herbicide : Tolerant
Comparison Variety 1	Skiles Juvenile plant growth : Semi Erect Flag Leaf (boot Stage) : Twisted	Plant Color at boot stage : Green		Imidazolinone Herbicide : Susceptible
Comparison Variety 2				
Comparison Variety 3				

** Use additional tables to present clear differences for additional comparison varieties. Use additional pages to present supporting evidence.

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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) <i>University of Idaho Idaho Agriculture Experiment Station</i>	TEMPORARY OR EXPERIMENTAL DESIGNATION 09-DH11	VARIETY NAME UI Magic
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country) 875 Perimeter Drive MS 2337 Moscow, Idaho 83844-2337	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: Royal Horticultural Society. Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND: 1

- 1 = Common
- 2 = Durum
- 3 = Club
- 4 = Other (Specify) _____

1a. COMMON WHEAT MARKET CLASSES:

- HRW (Hard Red Winter)
- HRS (Hard Red Spring)
- HW (Hard White)
- SRW (Soft Red Winter)
- SW (Soft White)

2. VERNALIZATION: 2

- 1 = Spring
- 2 = Winter
- 3 = Other (Specify) _____

3. COLEOPTILE ANTHOCYANIN: 1

- 1 = Absent
- 2 = Present

4. JUVENILE PLANT GROWTH: 3

- 1 = Prostrate
- 2 = Semi-Erect
- 3 = Erect

5. PLANT COLOR: (boot stage) 3

- 1 = Yellow-Green
- 2 = Green
- 3 = Blue-Green

6. FLAG LEAF: (boot stage)

- 1 1 = Erect 2 = Recurved
- 1 1 = Not Twisted 2 = Twisted
- 2 1 = Wax Absent 2 = Wax Present

7. EAR EMERGENCE:

146 Number of Days (Average)4 Number of Days Earlier Than * BRUNEAU

Same As *

3 Number of Days Later Than * LCS ARTDECO

*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)5 cm Taller Than LCS ARTDECO *

Same As *

10 cm Shorter Than BRUNEAU *

10. STEM:

A. ANTHOCYANIN 1 1 = Absent 2 = PresentB. WAXY BLOOM 1 1 = Absent 2 = PresentC. HAIRINESS (last internode of rachis) 1 1 = Absent 2 = PresentD. INTERNODE 1 1 = Hollow 2 = Semi-Solid 3 = Solid4 Number of NodesE. PEDUNCLE 1 1 = Erect 2 = Recurved 3 = Semi-Erect9 cm Length

F. AURICLE

1 Anthocyanin: 1 = Absent 2 = Present2 Hair: 1 = Absent 2 = Present

11. HEAD: (At Maturity)

A. DENSITY 31 = Lax
2 = Middense (Laxidense)
3 = DenseB. SHAPE 21 = Tapering
2 = Strap
3 = Clavate
4 = Other (Specify) _____C. CURVATURE 11 = Erect
2 = Inclined
3 = RecurvedD. AWNEDNESS 41 = Awnless
2 = Apically Awnletted
3 = Awnletted
4 = Awned

12. GLUMES: (At Maturity)

A. COLOR 1

- 1 = White
 2 = Tan
 3 = Other (Specify) _____

B. SHOULDER 2

- 1 = Wanting 2 = Oblique
 3 = Rounded 4 = Square
 5 = Elevated 6 = Apiculate
 7 = Other (Specify) _____

C. SHOULDER WIDTH 1

- 1 = Narrow
 2 = Medium
 3 = Wide

D. BEAK 3

- 1 = Obtuse
 2 = Acute
 3 = Acuminate

E. BEAK WIDTH 2

- 1 = Narrow
 2 = Medium
 3 = Wide

F. GLUME LENGTH 2

- 1 = Short (ca. 7 mm)
 2 = Medium (ca. 8 mm)
 3 = Long (ca. 9 mm)

G. WIDTH 2

- 1 = Narrow (ca. 3 mm)
 2 = Medium (ca. 3.5 mm)
 3 = Wide (ca. 4 mm)

H. PUBESCENCE 1

- 1 = Not Present
 2 = Present

13. SEED:

A. SHAPE 1 1 = Ovate 2 = Oval 3 = EllipticalB. CHEEK 2 1 = Rounded 2 = Angular

C. BRUSH

2 1 = Short
2 = Medium
3 = Long1 1 = Not Collared
2 = Collared

D. CREASE

2 1 = Width 60% or less of Kernel
2 = Width 80% or less of Kernel
3 = Width Nearly as Wide as Kernel2 1 = Depth 20% or less of Kernel
2 = Depth 35% or less of Kernel
3 = Depth 50% or less of KernelE. COLOR 1 1 = White 2 = Amber 3 = Red
4 = Other (Specify) _____F. TEXTURE 2 1 = Hard 2 = Soft 3 = Other (Specify) _____

G. PHENOL REACTION (See Instructions) _____

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

H. SEED WEIGHT

_____g/1000 Seed (whole number only)

I. GERM SIZE 21 = 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)

0 Stem Rust (*Puccinia graminis* f. sp. *tritici*) Race: _____0 Leaf Rust (*Puccinia recondita* f. sp. *tritici*) Race: _____0 Stripe Rust (*Puccinia striiformis*) Race: _____0 Loose Smut (*Ustilago tritici*) Race: _____0 Powdery Mildew (*Erysiphe graminis* f. sp. *tritici*) Race: _____0 Common Bunt (*Tilletia tritici* or *T. laevis*) Race: _____0 Dwarf Bunt (*Tilletia controversa*) Race: _____0 Karnal Bunt (*Tilletia indica*) Race: _____0 Flag Smut (*Urocystis agropyri*) Race: _____0 Tan Spot (*Pyrenophora tritici-repentis*) Race: _____0 Halo Spot (*Selenophoma donacis*) Race: _____0 Septoria spp. Race: _____0 *Septoria nodorum* (Glume Blotch) Race: _____0 *Septoria avenae* (Speckled Leaf Disease) Race: _____0 *Septoria tritici* (Speckled Leaf Blotch) Race: _____0 Scab (*Fusarium* spp.) Race: _____0 "Snow Molds" Race: _____0 Kernel Smudge ("Black Point") Race: _____0 Common Root Rot (*Fusarium*, *Cochliobolus* and *Bipolaris* spp.) Race: _____0 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: _____

14. DISEASE: (continued) (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

- 0 Wheat Yellow (Spindle Streak) Mosaic Virus Race: _____
- 0 Bacterial Leaf Blight (*Pseudomonas syringae* pv. *syringae*) Race: _____
- 0 Wheat Streak Mosaic Virus (WSMV) Race: _____
- 0 Other (Specify) _____ Race: _____
- 0 Other (Specify) _____ Race: _____
- 0 Other (Specify) _____ Race: _____
- 0 Other (Specify) _____ Race: _____

15. HOMOZYGOUS FOR SPECIFIC DISEASE RESISTANCE GENE

- _____ Stem rust _____
- _____ Leaf rust _____
- _____ Other _____

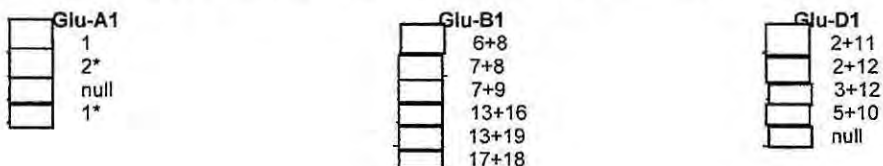
16. INSECT: PLEASE SPECIFY BIOTYPE (Where Needed) (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

- 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) _____
- 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 GP _____
- 0 Hessian Fly (*Mayetiola destructor*) Biotype H _____

16. INSECT: (continued) (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

- 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) _____

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



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

- 4 1BL/1RS 4 1A/1R 4 2NS/2AS 4 4DL/4AgS

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

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

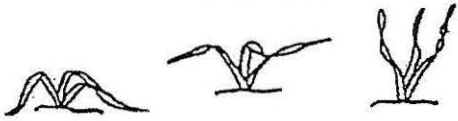

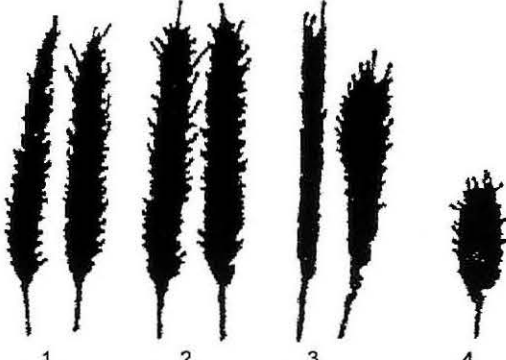

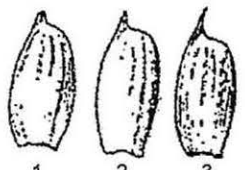
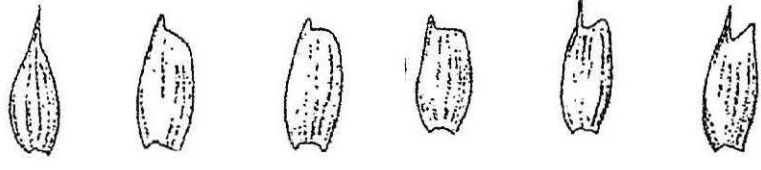
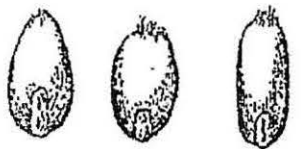

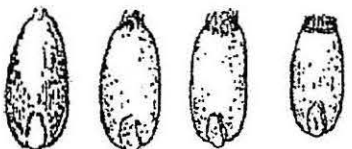
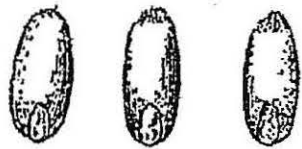
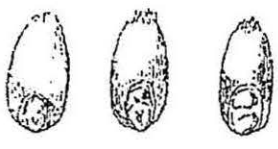


20. END USE QUALITY:

- Grain Protein _____
- Flour Protein _____
- SDS _____
- Farniograph _____
- Other _____

21. 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>	

References:

(a) L.W. Briggie and L.P. Reitz. 1963. Classification of Triticum Species and Wheat Varieties Grown in the United States. Technical Bulletin 1278. United States Department of Agriculture.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE EXHIBIT E - STATEMENT OF THE BASIS OF OWNERSHIP	FOR OFFICIAL USE ONLY PVPO NUMBER
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1. Name of Owner University of Idaho	2. Temporary Designation or Experimental Name 09-DH11	3. Variety Name UI Magic
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4. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. YES NO

5. Is the applicant a U.S. national or a U.S. based entity? If no, give name of country. YES NO

6. 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

7. 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.