No.

201500295

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

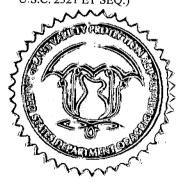
University of Idaho and Washington State University

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.)



Attest:

Commissioner

WHEAT, COMMON

'UI-WSU Huffman'

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 twelfth day of May, in the year two thousand and sixteen.

Ken J. Vilval

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE	REPRODUCE LOCALLY. Include form number and date on all reproductions					Form Approved - OMB No. 0581-005	
AGRICULTURAL MARKETING SERVICE			g statements ar ork Reduction A	e made in accordance with the F ct (PRA) of 1995.	Privacy Act	of 1974 (5 U.S.C. 552a) and	
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION APPLICATION FOR PLANT VARIETY PROTECTION CERT (Instructions and information collection burden statement on	IFICATE			der to determine if a plant variety n is held confidential until certific			
1, NAME OF OWNER	(1999)	2. TEMPOR	RARY DESIGNA	TION OR EXPERIMENTAL NA	ME 3.	VARIETY NAME	
University of Idaho and Washington State University						UI-WSU Huffman	
 ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Co. University of Idaho 	de, and Country)	and the second second	ONE (include ar 885 45		PV	FOR OFFICIAL USE ONLY	
OTT, PO Box 443003		1	lude area code)	50	_	201500295	
Morrill Hall 414 Moscow, Idaho, 83844-3003		(208)	885 45	51	FI	LING DATE	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)	8. IF INCORPO		E STATE OF	9. DATE OF INCORPORATION	1		
University of Idaho and Washington State University	N/A			N/A	3/17/2015		
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO S APPLICATION. (First person listed will receive all papers) Jack Brown Include on all corr				IE (Include area code) 7078 and (208) 885	4550	FILING AND EXAMINATION FEES: S 4,382 S DATE 3/17/15	
PSES, CALS Karen Stev		IS 3003	12. FAX (Includ	le area code)		E CERTIFICATION FEE:	
University of Idaho Morrill Hall 414 Moscow, ID 83844-2339 Moscow, ID 83844-3003			(208) 885	7760 and (208) 885 ·	the second se	c: \$ D DATE	
13. E-MAIL jbrown@uidaho.edu, copy to karens@uidaho.edu							
CROP KIND (Common Name) 15. GENUS AND SPECIES N				ROP	16. FAMIL	Y NAME (Botanical)	
Soft white winter wheat		Triticum aestivum		TRANSGENES? (OPTIONAL)	Poaceae		
TYES ANO	NUMBER FO	OR THE APPI	ROVED PETITIC		Act)	ee Section 83(a) of the Plant Variety Protection (If "yes", answer items 21 and 22 below) (If "no", go to item 23) DECIDED	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBM	ITTED			S THE OWNER SPECIFY THA	T SEED OF	THIS VARIETY BE LIMITED AS TO	
(Follow instructions on reverse) a. Exhibit A. Origin and Breeding History of the Variety			E				
b. Exhibit B. Statement of Distinctness			IF Y	ES, WHICH CLASSES?	OUNDATIO		
c. 📕 Exhibit C. Objective Description of Variety				22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO OF GENERATIONS?		THIS VARIETY BE LIMITED AS TO NUMBER	
d. Exhibit D. Additional Description of the Variety (Optional)			□ YES □ NO IF YES, SPECIFY THE NUMBER 1,2,3, etc		etc. FOR E	FOR EACH CLASS.	
 d. Exhibit D. Additional Description of the Variety (Optional) e. Exhibit E. Statement of the Basis of the Owner's Ownership 							
e. Exhibit E. Statement of the Basis of the Owner's Ownership f. Filing and Examination Fee (\$4,382), make checks payable to			There are a second		REGISTER		
 Exhibit E. Statement of the Basis of the Owner's Ownership Filing and Examination Fee (\$4,382), make checks payable to (Mail to the Plant Variety Protection Office) other methods of pa 23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERREI 	yment explained	in the instruct	tions (If addition 24, 15 T	nal explanation is necessary, pl	ease use th NENT OF T	e space indicated on the reverse.) HE VARIETY PROTECTED BY INTELLECTUA	
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 Exhibit E. Statement of the Basis of the Owner's Ownership Filing and Examination Fee (\$4,382), make checks payable to (Mail to the Plant Variety Protection Office) other methods of pa HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERREI OTHER COUNTRIES? YES NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOS EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space 25. The owners declare that a viable sample of basic seed will be furr accordance with such regulations as may be applicable. For a tuber p repository within three months of the date of the certificate fee request The undersigned owner(s) is (are) the owner(s) of this sexually reprod 	yment explained) OR A HYBRID I D, OR USED IN T SITION, TRANSF indicated on reve isched directly to a ropagated variety letter. These will uced or tuber pro	in the instruct PRODUCED THE U. S. OR ER, OR USE <i>trse.</i>) an acceptable / or vegetative I be maintaine pagated plani	tions (If addition 24. IS TI PROPER PROPER C FOR IF YES, <u>REFERE</u> 9 depository in si 9 propagated pa 4 for the duratit t variety, and be is (are) informe	Inal explanation is necessary. pl TE VARIETY OR ANY COMPOI ITY RIGHT (PLANT BREEDER' VES NO PLEASE GIVE COUNTRY, DAT NCE NUMBER. (Please use sp apport of the variety within three rent of the variety, a tissue cultu an of the certificate." lieve(s) that the variety is new, c	ease use th NENT OF T S RIGHT O CE OF FILIN pace indicate months of f re or vegets distinct, unifo	e space indicated on the reverse.) HE VARIETY PROTECTED BY INTELLECTUA R PATENT)? IG OR ISSUANCE AND ASSIGNED ed on reverse.) Ting. Seed will be replenished upon request in ative sample will be deposited in a public prm, and stable as required in Section 42, and	
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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.)

Foundation seed of UI-WSU Huffman was sold/transferred in October 2014 and used to plant an increase of Registered Seed.

Unofficial Copy

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).)

N/A

					_
	U.S. DEPARTMENT OF AGRICULTURE			FOR OFFICIAL USE ONLY PVPO NUMBER	
	AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE			FVFU NUMBER	
EXHI	BIT A – ORIGIN AND B ** Use additional pages				
Name of Owner		2. Temporary Designation	on or Experimental Name	3. Variety Name	
University of Id Washington State				UI-WSU Huffman	
4. Describe the genealogy (back to See Exhibit A attached	and including public and co	ommercial varieties, lines,	, or clones used) and the bro	eeding method(s). **	
5. Give the details of subsequent st	ages of selection and multi	olication **			
Year		ail of Stage		Selection Criteria	
		0			
6. Is the variety uniform? \checkmark	Yes No				
How did you test for uniformity?					
The variety has been field tested	over multiple years and	sites and found to be u	niform over environment	s and years.	
7. Is the variety stable? \checkmark Yes	Ne				
How did you test for stability? Ove The variety has been field tested		sites and found to have	e stable performance.		
8. Are genetic variants observed or	expected during reproduct	ion and multiplication?	✓ YesNo		
If yes, state how these variants may	be identified, their type an	d frequency.			
During certification of Breeders a	nd Foundation seed, les	s than 30 red seed varia		bserved. Allowable variants of up to 54 red	seed
kg-1 of UI-WSU Huffman are allo	wea. In addition, slight v	variation in nead shapes	S (See Figure B1, above,	tor examples) are allowed.	

'UI-WSU Huffman' Soft White Winter Wheat *Triticum aestivum*

Exhibit A: Origin and Breeding History

'UI-WSU Huffman' is a soft white winter wheat (*Triticum aestivum*) cultivar developed by the Idaho Agricultural Experiment Station and released in October 2014. This cultivar is protected by U.S. Plant Variety Protection (PVP pending).

UI-WSU Huffman was selected for high adaptation to the intermediate to high rainfall dryland environments of the Pacific Northwest (Idaho, Oregon and Washington). The cultivar was developed from a single plant selection in summer of 2007 from a segregating F_3 population derived from the cross J99C0009//'Bruneau'/J99C0009' made in 2003. J99C0009 was a winter soft white winter wheat breeding line developed at Washington State University with high resistance to *Cephalosporium* strip (*Ceophalsporium gramineum*). Bruneau is a soft white winter wheat cultivar developed at the University of Idaho from the cross 'Dusty'/WA7433//Lewjain. After making the initial cross the F_1 generation was grown over winter and spring in a glasshouse. The F_2 and F_3 generations were grown and evaluated as progeny bulks derived from the glasshouse F_1 's. Selected heads were taken from the F_3 population at maturity and planted in the fall of 2004 in F_4 head-rows. These head-row plots were evaluated for heading date, maturity, head type and disease resistance the head-row designated as 03-29902A was bulk harvested and used as a seed source for F_5 and future yield trials.

UI-WSU Huffman was evaluated in replicated yield trials at a single location in 2003-2004 and thereafter tested at two locations at F_6 and multiple locations throughout Idaho and Washington in years 2010-2011, 2011-2012, 2012-2013, and 2013-2014.

In fall of 2011, 360 single head selections were taken from the 03-29902A F_7 population (i.e. $F_{4.7}$) and planted at head-row plots in the field in fall of 2011. Head-row plots were evaluated for morphological uniformity and at harvest in fall 2013, 40 head-row plots were individually harvested and see from each plot used to plant a 7 row x 12 feet plot in fall of 2012. Plots were visually observed throughout the growing season and at harvest the yield from all plots was combined as UI-WSU Huffman Breeder's Seed.

During certification of Breeders and Foundation seed, less than 30 red seed variants kg⁻¹ of seed were observed. Allowable variants of up to 54 red seed kg-1 of UI-WSU Huffman are allowed. In addition, light variation in head shapes (see Figure B1, above, for examples) are allowed.

	U.S. DEP	ARTMENT OF	AGRICULTURE		F	OR OFFICIAL USE ONLY
	SCIENCE AND TECHNOI	LOGY - PLANT	KETING SERVICE VARIETY PROTECTION OFFICE Y PROTECTION CERTIFIC	ATE	PVPO NUMBER	DR OFFICIAL USE ONLY
	** Use additional tables to present	clear differe	T OF DISTINCTNESS ences for additional compariso ent supporting evidence.	on varieties.		
1. Nam	e of Owner hiversity of Idaho and		2. Temporary Designation or I	Experimental Name	3. Variety Nar	ne
	ashington State Universi	ty			U	I-WSU Huffman
Based o	on overall morphology, Applicant's new var.		s most similar to <u>Most similar</u>	comparison variety(ies)		most clearly
differs f	Most similar comparison variety(ies)					ch variety in the comparison. Submit
appropr	iate supporting evidence (see the <u>Guideline</u> Eg. Leaf Pubescence Eg. Leaf Color Eg. Plant Height	heavy pub Dark Gree		riety Distinctness in the ins glabrous Light Green (2.5GY 8/1 250 cm +/- 15 cm (N=2.	(0)	ch variety in the comparison. Submit
	1. Qualitative traits:	2. Color t		3. Quantitative traits:		4. Other traits:
Application Variety				UI-WSU Huffman is m plant appearance to th winter wheat cultivar B However, UI-WSU Huf emerge significantly la on average) compared (161 days on average)	he soft white Bruneau. ffman heads iter (163 days d to Bruneau	
Comparison Variety 1						
Comparison Variety 2						
ety 3		1				
Comparison Variety 3						

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

20

'UI-WSU Huffman' Soft White Winter Wheat *Triticum aestivum*

Exhibit B: Statement of Distinctness

UI-WSU Huffman is most similar in plant appearance to the soft white winter wheat cultivar Bruneau. However, UI-WSU Huffman heads emerge significantly later (164 days on average) compared to Bruneau (161 days on average) Table B1. In addition UI-WSU Huffman has a more blocky/oblong head shape (Figure B1) compared to Bruneau, and has a lighter head color.

Table B1. Days from January 1st to 50% heading of UI-WSU Huffman compared to Bruneau from replicated field trials. The number of sites used in the year averages is shown in parenthesis.

Entry	Average	Rank	2010- 2011	2011- 2012	2012- 2013	2013- 2014
	(28 sites)		(8 sites)	(11 sites)	(7 sites)	(2 sites)
Days after January 1st						
Bruneau	161	2	173	160	157	136
03-29902A	163	1	175	162	159	140
Mean	162	-	174	161	158	138
LSD 5%	1.2	-	1.0	1.1	0.5	1.8



Figure B1. Head color at 100% heading and head shape of UI-WSU Huffman soft white winter wheat al heading and full maturity.

fixed typographical error MAH 8-11-20 Dofficial Copy

Exhibit C

 \frown

ST-470-06 (06/2012) designed by the Plant Variety Protection Office using Microsoft Word 2003.

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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

University of Idaho and Washington State University

OBJECTIVE DESCRIPTION OF VARIETY

wheat (<i>Triticum</i> spp.)							
NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME					
Idaho Agricultural Experiment Station 03-29902A		UI-WSU HUTTMAN UI-WSU Huffman					
ADDRESS (Street and No. or RD No., City, State, Zip Code and Cou	FOR OFFICIAL USE ONLY	Cop					
University of Idaho		PVPO NUMBER	ÿ				
Moscow, Idaho, 83844-2339							

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 is the Royal Horticultural Scociety. Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND:1	1a. COMMON WHEAT MARKET CLASSES:
1 = Common 2 = Durum 3 = Club 4 = Other (Specify) 2. VERNALIZATION: 2	HRW (Hard Red Winter) HRS (Hard Red Spring) HW (Hard White) SRW (Soft Red Winter) XX SW (Soft White)
1 = Spring 2 = Winter 3 = Other (Specify)	
3. COLEOPTILE ANTHOCYANIN: 1	4. JUVENILE PLANT GROWTH: 2
1 = Absent 2 = Present	1 = Prostrate 2 = Semi-Erect 3 = Erect
5. PLANT COLOR: (boot stage) 2	6. FLAG LEAF: (boot stage)
1 = Yellow-Green 2 = Green 3 = Blue-Green	<u>1</u> 1 = Erect 2 = Recurved <u>1</u> 1 = Not Twisted 2 = Twisted
	1 = Wax Absent 2 = Wax Present

Page 1 of 8

				Exhibit C	
7. EAR EMERGENCE:					01500295
<u>164</u> Number of Days (Average)					00
_4 Number of Days Earlier Than * <u>Mac</u>	dsen				295
Same As *					01
3 Number of Days Later Than * Bru	neau or Brundage-96				
"Relat	ive to a PVPO-Approved	d Commercial Variety Grown ii	n the Same Thai		
8. ANTHER COLOR : <u>1</u> 1 = Yellow 2 = Pu	ırple				
9. PLANT HEIGHT: (from soil to top of head, excluding a	wns)				
<u>88.9</u> cm (Average)					<u>ر</u>
<u>2.8</u> cm Taller Than <u>Brundage-96</u>		*			Jnot
Same As Bruneau		*			ficia
2.2 cm Shorter Than Madsen		*			
10. STEM:					Unofficial Copy
			4 Hellew 0 (
A. ANTHOCYANIN <u>1</u> 1 = Absent 2 = Pres	Jent	D. INTERNODE <u>2</u>	I = HOHOW = 3	Semi-Solia 3 = Solia	
		005 Number of	Nodes		
B. WAXY BLOOM <u>1</u> 1 = Absent 2 = Pres	ent	E. PEDUNCLE <u>1</u>	1 = Erect 2 = R	Recurved 3 = Semi-Erect	
		<u>013</u> cm Length			
C. HAIRINESS (last internode of rachis) <u>1</u> 1	- Absent 2 - Present	F. AURICLE			
		T. AUNIOLE			
		<u>1</u> Anthocyanin:	1 = Absent	2 = Present	
		<u>1</u> Hair:	1 = Absent	2 = Present	
11. HEAD : (At Maturity)					
A. DENSITY <u>3</u>		C. CURVATURE <u>1</u>			
1 = Lax		1 = Erect			
2 = Middense (Laxidense) 3 = Dense		2 = Inclined 3 = Recurved			
B. SHAPE <u>2</u>					
D. SHAFL Z		D. AWNEDNESS <u>4</u>			
1 = Tapering 2 = Strap		1 = Awnless	ted		
3 = Clavate		2 = Apically Awnlet $3 = Awnletted$	100		
4 = Other (Specify)		4 = Awned			

12. GLUMES: (At Maturity)

A. COLOR 2

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 3

- 1 = Narrow
- 2 = Medium
- 3 = Wide

D. BEAK <u>3</u>

- 1 = Obtuse
- 2 = Acute
- 3 = Acuminate

E. BEAK WIDTH 1

1 = Narrow2 = Medium3 = Wide

F. GLUME LENGTH 3

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

G. WIDTH 3

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:)15
A. SHAPE $1 = 0$ at $2 = 0$ at $3 = Elliptical$	E. COLOR <u>1</u> 1 = White 2 = Amber 3 = Red 4 = Other (Specify))1500295
B. CHEEK <u>1</u> 1 = Rounded 2 = Angular	F. TEXTURE <u>2</u> 1 = Hard 2 = Soft 3 = Other (Specify)	05
C. BRUSH	G. PHENOL REACTION (See Instructions)	
<u>3</u> 1 = Short <u>2</u> 1 = Not Collared	1 = Ivory 4 = Dark Brown	
2 = Medium 2 = Collared 3 = Long	2 = Fawn 5 = Black 3 = Light Brown	
D. CREASE	H. SEED WEIGHT	
1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel	<u>25</u> g/1000 Seed (whole number only)	
1 = Depth 20% or less of Kernel	I. GERM SIZE <u>2</u>	Unofficial
2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel	1 = Small 2 = Midsize 3 = Large	င္ပ
	STED (0 – Not Tested, 1 – Suscentible, 2 – Resistant, 3 – Intermediate, 4 – Tole	<u> </u>

Exhibit C (Wheat)

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

0	_Stem Rust (<i>Puccinia graminis</i> f. sp. <i>tritici</i>)	Race:
0	_Leaf Rust (Puccinia recondita f. sp. tritici)	Race:
2	_Stripe Rust (<i>Puccinia striiformis</i>)	Race:
0	_Loose Smut (<i>Ustilago tritici</i>)	Race:
0	_Powdery Mildew (<i>Erysiphe graminis</i> f. sp. <i>tritici</i>)	Race:
0	_Common Bunt (<i>Tilletia tritici</i> or T. <i>laevis</i>)	Race:
0	_Dwarf Bunt (<i>Tilletia controversa</i>)	Race:
0	_Karnal Bunt (<i>Tilletia indica</i>)	Race:
0	_Flag Smut (<i>Urocystis agropyri</i>)	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 (<i>Fusarium</i> 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:

ST-470-06 (**06/2012**) designed by the Plant Variety Protection Office using Microsoft Word 2003. Page 4 of 7

		Exhibit C (Wh (%)
14. DISEASE : (continued) (0 = Not Tested 1 = Susceptible 2 = Resistan	nt 3 = Intermediate 4 = Tolerant)	15(
0 Wheat Yellow (Spindle Streak) Mosaic Virus	Race:	- 295
0Bacterial Leaf Blight (<i>Pseudomonas syringae</i> pv. syringae)	Race:	- 95
0 Wheat Streak Mosaic Virus (WSMV)	Race:	_
2 Other (Specify) Cephalosporium gramineum	Race:	-
Other (Specify)	_ Race:	_
Other (Specify)	Race:	_
Other (Specify)	Race:	_
15. HOMOZYGOUS FOR SPECIFIC DISEASE RESISTANCE GENE		nofficial Copy
Stem rust		ä
Leaf rust		Con
Other		y v
OCereal Leaf Beetle (<i>Oulema melanopa</i>) (Specify) ORussian Aphid 1 (<i>Diuraphis noxia</i>)		_
0 Russian Aphid 2 (<i>Diuraphis noxia</i>)		_
0 Greenbug (<i>Schizaphis graminum</i>) (General)		
0 Greenbug (<i>Schizaphis graminum</i>) 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)		
0Aphids (Specify)		
0Other (Specify)		
0 Hessian Fly (<i>Mayetiola destructor</i>) Biotype A		_
0 Hessian Fly (Mayetiola destructor) Biotype B		—
0 Hessian Fly (<i>Mayetiola destructor</i>) Biotype C		
0 Hessian Fly (<i>Mayetiola destructor</i>) Biotype D		_
0Hessian Fly (<i>Mayetiola destructor</i>) Biotype E		_
0Hessian Fly (<i>Mayetiola destructor</i>) Biotype F		_
0Hessian Fly (<i>Mayetiola destructor</i>) Biotype G		_
0Hessian Fly (<i>Mayetiola destructor</i>) Biotype GP		
0Hessian Fly (<i>Mayetiola destructor</i>) Biotype H		_

	Exhibit C (Wheat)
16. INSECT : (continued) (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)	015
0 Hessian Fly (<i>Mayetiola destructor</i>) Biotype I	5002
0 Hessian Fly (<i>Mayetiola destructor</i>) Biotype J	295
_0Hessian Fly (<i>Mayetiola destructor</i>) Biotype L	01
Hessian Fly (<i>Mayetiola destructor</i>) Biotype M	
0Hessian Fly (<i>Mayetiola destructor</i>) Biotype N	
0Hessian Fly (<i>Mayetiola destructor</i>) Biotype O	
0Hessian Fly (<i>Mayetiola destructor</i>) (Specify)	_

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

	Glu-A1 Glu-B1 Glu-D1 1 6+8 2+11 2* 7+8 2+12 null 7+9 3+12 1* 13+16 5+10 13+18 17+18	Unofficial Copy
18.	TRANSLOCATIONS (1=Present 2=Absent 3=Heterogeneous 4= Not Tested):	
	<u>4</u> 1BL/1RS <u>4</u> 1A/1R <u>4</u> 2NS/2AS <u>4</u> 4DL/4AgS	
19.	IMIDAZOLINONE HERBICIDE TOLERANCE (1=Present 2=Absent 3=Not Tested): 2 Als-1 2 Als-2 2 Als-3	
20.	END USE QUALITY:	
	Grain Protein <u>11.4</u>	
	<u>cw Bruneau = 12.1</u>	
	Flour Protein 9.0 cw Bruneau 9.0 %	
	SDS <u>N/A</u>	
	Farniograph <u>N/A</u>	
	Other <u>Cookie Diam. 8.8 cm cw Bruneau = 8.9 cm</u>	

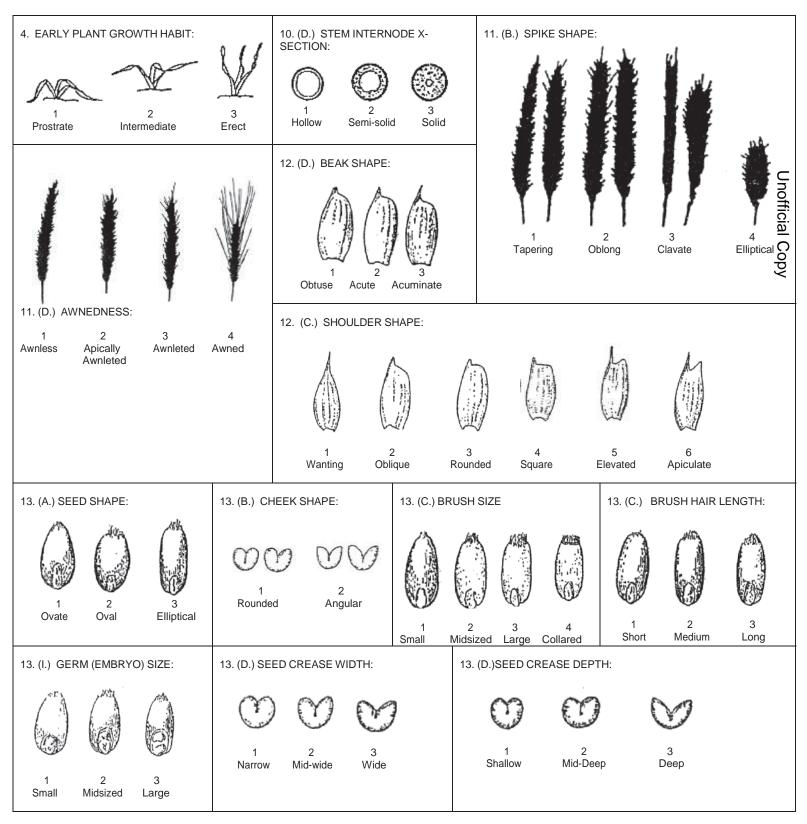
21. ADDITIONAL INFORMATION ON ANY ITEM ABOVE OR GENERAL COMMENTS:

Exhibit C (Wheat)

1500295

WHEAT DESCRIPTOR ILLUSTRATIONS

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



References:

(a) L.W. Briggle 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.

(b) W.E. Walls. 1965. A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity. Contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts.

'UI-WSU Huffman' Soft White Winter Wheat *Triticum aestivum*

Exhibit D: Additional Description of Variety

UI-WSU Huffman is a winter soft white winter wheat which requires vernilization to induce flowering. Juvenile plants are semi-erect in stature and coleoptile anthocyanin is absent. Plants are light-green to green and the flag leaf at the boot stage is erect, not twisted and has no leaf waxes.

UI-WSU Huffman ear emergence is on average 164 days after January 1st, which is 4 d. earlier than 'Madsen' and 2 d. later than Bruneau (Table D1). At full heading, UI-WSU Huffman plants are 35 inches tall, similar to Bruneau, but significantly taller than 'Brundage-96' (Table D2). UI-WSU Huffman stems are free from anthocyanin, waxy bloom and hairs. Internodes are semi-solid, with an average of 5 nodes on the main stem. Heads are dense, awned and with strap shape. At maturity plants have stiff straw and are resistant to lodging (Table D3)

UI-WSU Huffman is highly resistant to *Cephalosporium* strip (*Ceophalsporium* gramineum) (Table D4). In field trials where *Cephalosporium* strip inoculum was relatively high, there were no disease symptoms noted on UI-WSU Huffman, while all other control cultivars showed varying degrees of susceptibility. UI-WSU Huffman also have shown good resistance to strip rust (Table D5) rated as 1.2 on a 1-9 scale, with 9 being highly susceptible. Strip rust resistance of UI-WSU Huffman was always significantly higher than Brundage-96, and consistently better than Bruneau.

Yield performance (dryland and irrigated combined) of UI-WSU Huffman was compared to 'Stephens', Brundage, 'Bobtail' (2013-2014 only), Brundage-96, Madsen and Bruneau in field trials from 2009-2010 through 2013-2014 (Table D6). Averaged over 42 year-sites of field performance, UI-WSU Huffman averages 104.2 bu acre⁻¹, higher but not significantly different from Bruneau, and significantly higher yielding compared to all the other control cultivars in the trials. Under dryland conditions, UI-WSU Huffman was significantly higher yielding than all control cultivars (Table D7). UI-WSU Huffman had average test weight of 58.3 lb. bu⁻¹, which was not significantly different from the other control cultivars (Table D7).

Seed protein content of UI-WSU Huffman was consistently lower in each years tested, but was not significantly different from the other soft while winter wheat control cultivars in the field trials (Table D9). Overall end use quality of UI-WSU Huffman is excellent, with low flour protein, flour and break flour yield and good cookie diameter (Table D10).

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Table D1. Days from January 1st to 50% heading of UI-WSU Huffman compared to Stephens, Madsen, Brundage, Bobtail, Brundage-96, and Bruneau from replicated field trials. The number of sites used in the year averages is shown in parenthesis.

	Average	Rank	2009-	2010-	2011-	2012-	2013-
Entry	Average	Nalik	2010	2011	2012	2013	2014
	(30 sites)		(2 sites)	(8 sites)	(11 sites)	(7 sites)	(2 sites)
			Da	ys after Janu	ary 1st		
Stephens	162	3	-	172	159	156	-
Madsen	175	1	-	175	174	-	-
Brundage	157	6	-	169	148	-	-
Bobtail	-	-	-	-	-	-	137
Brundage-96	161	5	172	172	159	156	133
Bruneau	161	4	-	173	160	157	136
UI-WSU	164	2	177	175	162	159	140
Huffman	104	2	1//	175	102	157	140
Mean	164	-	175	173	160	157	136
LSD 5%	3.2	-	1.0	2.7	4.5	2.4	2.2

Table D2. Plant height before harvest of UI-WSU Huffman compared to Stephens, Madsen, Brundage, Bobtail, Brundage-96, and Bruneau from replicated field trials. The number of sites used in the year averages is shown in parenthesis.

Entry	Average (16 sites)	Rank	2009- 2010 (2 sites)	2010- 2011 (4 sites)	2011- 2012 (5 sites)	2012- 2013 (4 sites)	2013- 2014 (1 sites)
				inches			
Stephens	35.8	2	-	36.6	35.3	35.6	-
Madsen	35.9	1	-	36.9	35.1	-	-
Brundage	33.1	6	-	33.3	33.0	-	-
Bobtail	28.0	-	-	-	-	-	28.0
Brundage-96	33.9	5	33.0	35.0	34.2	33.2	29.5
Bruneau	34.4	4	-	35.2	34.9	33.2	30.5
UI-WSU Huffman	35.0	3	33.0	36.4	34.3	36.0	28.5
Mean	34.7		33.0	35.6	34.5	34.5	29.1
LSD 5%	2.03		1.00	2.32	1.94	2.13	

Table D3. Plant lodging resistance before harvest of UI-WSU Huffman compared to Stephens, Madsen, Brundage, Brundage-96, and Bruneau from replicated field trials. The number of sites used in the year averages is shown in parenthesis.

Entry	Average (3 sites)	Rank	2010-2011 (1 site)	2011-2012 (2 sites)
			1 to 5†	
Stephens	3.0	1	4.0	2.6
Brundage	1.6	4	2.0	1.3
Brundage-96	2.0	3	2.0	2.0
Bruneau	2.2	2	3.0	1.8
UI-WSU Huffman	1.4	5	1.0	1.6
Mean	2.0		2.4	1.8
LSD 5%	0.9		1.05	0.78

 \dagger 1 = no lodging observed; 5 = severe lodging.

Table D4. *Cephalosporium* strip resistance evaluations of UI-WSU Huffman compared to Stephens, Madsen, Brundage-96 and Bruneau control cultivars.

Entry	Disease rating	Infection rate
	- 1 to 9†-	1/0
Stephens	8.0	6.0
Madsen	2.0	2.0
Brundage-96	5.0	2.0
Bruneau	2.0	1.0
UI-WSU Huffman	0.0	0.0
Average	3.4	2.2
LSD 5%	3.13	2.28

 $\dagger 0 =$ no disease symptoms observed; 9 = severe disease.

Table D5. Strip rust resistance ratings of UI-WSU Huffman compared to Stephens,					
Madsen, Brundage, Brundage-96, and Bruneau from replicated field trials. The number of					
sites used in the year averages is shown in parenthesis.					

Entry	Average	Rank	2009-2010	2011-2012	2012-2013
	(7 sites)		(2 sites)	(3 sites)	(2 sites)
			0 to 9†	scale	
Stephens	5.4	2	-	4.8	6.3
Madsen	2.3	4	-	2.3	-
Brundage	7.7	1	-	7.7	-
Brundage-96	3.7	3	4.3	3.1	4.0
Bruneau	2.2	5	-	2.5	1.7
UI-WSU Huffman	1.2	6	1.0	1.3	1.3
Mean	3.3	-	2.7	3.6	3.3
LSD 5%	1.3	-	1.0	1.2	1.8

 $\dagger 0 =$ no disease symptoms observed; 9 = severe disease.

Table D6. Seed yield, averaged over all dryland and irrigated sites from of UI-WSU Huffman compared to Stephens, Madsen, Brundage, Bobtail, Brundage-96, and Bruneau from replicated field trials. The number of sites used in the year averages is shown in parenthesis.

			2009-	2010-	2011-	2012-	2013-
Entry	Average	Rank	2010	2011	2012	2013	2014
	(42 sites)		(2 sites)	(8 sites)	(13 sites)	(10 sites)	(9 sites)
				bu acı	re ⁻¹		
Stephens	96.9	5	-	100.4	95.5	95.8	-
Madsen	102.0	3	-	111.0	96.5	-	-
Brundage	83.0	7	-	76.4	87.1	-	-
Bobtail	86.8	6	-	-	-	-	86.8
Brundage-96	98.0	4	65.0	109.9	102.4	103.8	82.1
Bruneau	102.0	2	-	112.7	105.2	106.6	83.0
UI-WSU Huffman	104.2	1	73.6	119.5	106.2	113.3	84.3
Mean	100.9		69.3	114.0	104.6	107.9	83.1
LSD 5%	5.1		1.54	4.41	7.30	3.50	6.00

•				-	•	-	
Entry	Average	Rank	2009- 2010	2010- 2011	2011- 2012	2012- 2013	2013- 2014
	(23 sites)	1 curin	2 sites	5 sites	6 sites	5 sites	5 sites
				bu acre	e ⁻¹		
Stephens	87.6	4	-	89.2	80.2	94.8	-
Madsen	89.4	2	-	104.0	77.3	-	-
Brundage	72.9	6	-	72.9	-	-	-
Bobtail	61.6	7	-	-	-	-	61.6
Brundage-96	85.9	5	65.0	110.2	82.0	96.1	64.2
Bruneau	88.7	3	-	112.9	83.5	98.4	61.2
UI-WSU Huffman	91.4	1	73.6	119.1	83.4	108.1	63.7
Mean	85.0		69.3	81.3	81.3	99.4	62.9
LSD 5%	3.00		1.54	3.92	3.45	2.14	6.00

Table D7. Seed yield, averaged over only dryland sites from of UI-WSU Huffman compared to Stephens, Madsen, Brundage, Bobtail, Brundage-96, and Bruneau from replicated field trials. The number of sites used in the year averages is shown in parenthesis.

Table D8. Seed test weight averaged over all sites from of UI-WSU Huffman compared to Stephens, Madsen, Brundage, Bobtail, Brundage-96, and Bruneau from replicated field trials. The number of sites used in the year averages is shown in parenthesis.

Entry	Average	Rank	2009- 2010	2010- 2011	2011- 2012	2012- 2013	2013- 2014
	(29 sites)		(2 sites)	(8 sites) lb bu ⁻¹ -	(8 sites)	(4 sites)	(7 sites)
Stephens	57.6	4	-	57.7	56.6	59.3	
Madsen	58.6	1	-	58.8	58.5	-	-
Brundage	57.1	6	-	55.7	58.6	-	-
Bobtail	54.3	7	-	-	-	-	54.3
Brundage-96	57.5	5	59.4	57.3	57.9	58.5	56.2
Bruneau	58.5	2	-	59.5	58.9	59.2	56.6
UI-WSU Huffman	58.3	3	59.6	58.9	58.5	59.0	56.6
Mean	58.4		59.5	58.0	58.2	59.0	55.9
LSD 5%	1.97		1.04	1.87	1.93	2.71	1.14

Entry	Average	Rank	2011-2012	2012-2013	2013-2014
	(7 sites)		3 sites	2 sites	2 sites
			%		
Stephens	11.6	2	11.5	11.8	-
Brundage	12.3	1	12.3	-	-
Brundage-96	11.3	4	11.3	11.8	10.7
Bruneau	11.6	3	12.3	11.7	10.3
UI-WSU Huffman	11.2	5	11.4	11.5	10.7
Mean	11.7		11.7	11.7	10.6
LSD 5%	1.5		1.7	1.3	-

Table D10. Flour protein, seed hardness (determined by near infrared reflection), break flour yield, flour ash and cookie diameter of UI-WSU Huffman averaged over field trials from 2010-2011, 2011-2012, and 2012-2013, compared to Stephens, Madsen, Brundage, Brundage-96, and Bruneau from replicated field trials.

	Flour	NIR	Break	Flour	Flour	Cookie
	Protein	Hardness	Flour	Yield	Ash	Diam.
Entry			Yield			
	%	-0 to 100-	1/0	%	1/0	cm
Stephens	9.3	20.0	42.8	61.2	0.4	8.7
Madsen	8.3	20.6	36.9	63.3	0.4	8.6
Brundage	8.6	17.3	47.3	60.4	0.4	8.9
Brundage_96	9.3	16.1	46.8	60.7	0.4	9.1
Bruneau	9.0	19.9	44.8	62.3	0.4	8.9
UI-WSU Huffman	9.0	22.6	45.7	63.4	0.4	8.8
Mean	8.9	19.4	44.0	61.9	0.4	8.8
LSD 5%	1.00	-	4.47	0.36	0.03	0.18

U.S. DEPARTMENT AGRICULTURAL MA		FOR OFFICIAL USE ONLY
SCIENCE AND TECHNOLOGY - PLA APPLICATION FOR PLANT VARI	PVPO NUMBER	
EXHIBIT E - STATEMENT OF		
. Name of Owner University of Idaho and	2. Temporary Designation or Experimental Name	3. Variety Name UI-WSU Huffman
Washington State University		
Does the applicant own all rights to the variety? Mark	an "X" in the appropriate block. If no, please explain.	YES NO
Is the applicant a U.S. national or a U.S. based entity	? If no, give name of country. VES	NO
Is the applicant a U.S. national or a U.S. based entity	? If no, give name of country. YES	ΝΟ
	? If no, give name of country. YES NO If no, please answer <u>one</u> of the please answer one of the please and please and please answer one one of the please answer one of the please answer one of the please answer one of the please and please answer one of the please and p	
Is the applicant the original owner?	NO If no, please answer <u>one</u> of th	ne following:
Is the applicant the original owner?	Vidual(s), is (are) the original owner(s) a U.S. National(s	ne following:
Is the applicant the original owner?	Vidual(s), is (are) the original owner(s) a U.S. National(s	ne following:
Is the applicant the original owner?	Vidual(s), is (are) the original owner(s) a U.S. National(s	ne following:
Is the applicant the original owner?	Vidual(s), is (are) the original owner(s) a U.S. National(s	ne following:
Is the applicant the original owner?	Vidual(s), is (are) the original owner(s) a U.S. National(s	ne following:

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.
- 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.