



2015-2016 Winter Wheat Breeder Variety Portfolio

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Developed in cooperation with

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WSU PEER
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The purpose of this technical bulletin is to aid the grower in choosing the optimal variety for his or her farm based on location, climatic condition, disease pressure, and harvest date. Small grain seed dealers and other agriculture industry fieldmen will also use this bulletin to assist their customers (producers) in selecting the variety that best fits their needs.

The most effective way to use this technical bulletin is to look at the varieties that best fit your production area based on adaptation zone map, precipitation zone, disease ratings (four or less) for the problem diseases in your area, winter hardiness, and maturity.

The following data is a compilation of WSU variety trial information. The area of adaptation is determined by breeders and seed sales.

This portfolio will be updated annually with new variety information and other data when it becomes available.

Index of Varieties

Limagrain: Artdeco	WestBred: WB523	Washington State University/ARS: Cara
AgriPro: SY Ovation	WestBred: WB456	Washington State University/ARS: Chrystal
AgriPro: AP Badger	Washington State University: Madsen	WSU: Bruehl
AgriPro: AP Legion	Washington State University: Jasper	Washington State University/ARS: Crescent
AgriPro: SY 107	Washington State University: Eltan	Washington State University/ARS: Coda
University of Idaho: Brundage 96	Washington State University/ARS: Amber	Washington State University/ARS: Chukar
University of Idaho: Bruneau	Washington State University/ARS: Selbu	AgriPro: Whetstone
University of Idaho: Bitterroot	Washington State University: Puma	University of Idaho: Boundary
Oregon State University: Goetze	Washington State University: Masami	Limagrain: LCS Azimut
Oregon State University: Bobtail	Washington State University: Xerpha	Limagrain: LCS Colonia
Oregon State University: Kaseberg	Washington State University: Otto	Oregon State University: Norwest 553
Oregon State University: Ladd	AgriPro: AP 700CL	WestBred: Arrowhead
Oregon State University: Mary	AgriPro: UICF Brundage	WestBred: Keldin
Oregon State University: Tubbs06	Oregon State University: ORCF 102	WestBred: Rimrock
Oregon State University: Rosalyn	Oregon State University: ORCF 103	Washington State University: Farnum
Oregon State University: Skiles	WestBred: WB1070CL	Washington State University: Finley
Oregon State University: Stephens	WestBred: WB1066CL	Washington State University: Bauermeister
WestBred: Junction	Washington State University: Mela CL+	AgriPro: SY Clearstone
WestBred: WB528	Washington State University: Curiosity CL+	AgriPro: AP 503 CL2
	Washington State University: Huffman	

Definition of Terms

*Varieties labeled with ratings for **Fusarium Crown Rot, Soil Borne Mosaic Virus or Aluminum Tolerance** have been tested by research scientists at their respective universities. All other varieties should be assumed to be non-tolerant lines.

Stature: height at harvest (e.g., shorter stature is less likely to lodge)

Straw strength: the likelihood for a variety to lodge (linked with stature)

Winter hardiness: ability of the plant to survive throughout the winter under freezing temperatures

Maturity: the time in late summer in which the wheat variety is ready to harvest

Plant Variety Protection (PVP): limits control of the germplasm of a variety to the breeder

OR, ID, & WA Preferred Wheat Varieties Quality Ratings¹

Most Desirable (MD) – These varieties generally have high test weights, appropriate protein content (kernel properties), and excellent milling and end-use properties.

Desirable (D) – The kernel, milling, and end-use qualities of these varieties range from good to very good. The quality attributes of these varieties are desirable in international trade.

Acceptable (A) – The kernel, milling, and end-use qualities of these varieties range from acceptable to good. Individual varieties may possess minor flaws. The quality attributes of these varieties are acceptable in international trade.

Least Desirable (LD) – One or more critical flaws in quality are present in these varieties. The intrinsic quality of PNW wheat will be improved if these varieties are not planted.

¹ Washington Grain Commission: <http://wagrain.org/wp-content/uploads/2015/05/PreferredVarieties2015ForWeb.pdf>

DATA TABLE: Missing values (—) indicates that the variety has not been tested in a variety testing program.

Type: SWWW = Soft White Winter Wheat; HRWW = Hard Red Winter Wheat; SWWC = Soft White Winter Club Wheat

Winter hardiness: 1–3 = extremely winter hardy; 4–5 = winter hardy; 6 moderate;
7–8 moderately susceptible to susceptible

Disease scale key: 1–2 = resistant; 3–4 = moderately resistant; 5 = moderate;
6–7 = moderately susceptible; 8–9 = susceptible

Summary Data:

Values highlighted in green are not from the current variety trials and were obtained from prior data and breeder input. When data becomes available from WSU variety trials, this information will be updated.

All data will be updated on an annual basis and missing values replaced when data is available

Breeder Varietal Summary Data

Type	Variety	Winter Hardiness	Test Weight (lbs/bu)	Protein (%)	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating	Page
SWWW	Amber	5	59.4	10.7	2	8	7	3	MD	22
SWWW	AP 700 CL	5	59.1	11.4	2	6	3	—	A	26
SWWW	AP Badger	4	59.8	10.3	5	—	7	5	D	11
SWWW	AP Legacy	4	59.2	10.6	7	5	5	6	MD	11
SWWW	Bitterroot	5	60.1	11.2	4	5	8	—	MD	14
SWWW	Bobtail	6	57.1	10.4	1	6	7	—	MD	15
SWWW	Brundage 96	4	58.9	10.8	6	7	4	9	MD	13
SWWW	Bruneau	—	59.9	10.8	1	6	6	—	MD	13
SWWW	Curiosity CL+	3	59.9	10.8	4	5	7	3	D	29
SWWW	Eltan	2	59.5	11.0	5	4	7	2	D	22
SWWW	Goetze	8	--	--	8	6	6	9	A	14
SWWW	Huffman	5	58.8	10.9	3	--	--	—	MD	25
SWWW	Jasper	5	57.5	11.4	3	9	4	—	—	21
SWWW	WB-Junction	5	60.9	11.1	3	8	9	—	MD	19
SWWW	Kaseberg	5	59.1	10.4	3	6	8	—	MD	15
SWWW	Ladd	5	59.5	11.4	5	7	7	6	MD	16
SWWW	LCS-Artdeco	7	58.9	10.5	3	4	9	9	D	10
SWWW	Legion	5	58.4	11.0	2	8	7	—	D	12
SWWW	Madsen	6	59.5	11.3	1	6	4	5	A	21
SWWW	Mary	6	60.0	10.9	4	8	7	5	D	16
SWWW	Masami	4	58.4	10.5	3	5	3	5	D	24
SWWW	Mela CL+	3	59.8	10.9	5	5	7	2	D	29
SWWW	ORCF 102	6	60.0	11.2	3	5	4	8	A	27
SWWW	ORCF 103	4	59.1	11.1	6	6	6	4	D	27
SWWW	Otto	3	59.3	11.2	2	6	3	2	D	25
SWWW	Puma	4	59.9	11.0	3	7	4	8	MD	23

Breeder Varietal Summary Data

Type	Variety	Winter Hardiness	Test Weight (lbs/bu)	Protein (%)	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating	Page
SWWW	Rosalyn	6	58.0	10.1	1	6	3	8	D	17
SWWW	Selbu	6	60.9	11.3	1	7	5	8	D	23
SWWW	Skiles	6	60.0	11.7	1	4	6	9	D	18
SWWW	Stephens	7	59.0	11.1	4	9	6	9	D	18
SWWW	SY 107	7	59.5	10.8	4	8	7	—	MD	12
SWWW	SY Ovation	7	60.1	10.9	2	6	8	9	D	10
SWWW	Tubbs 06	5	58.7	10.9	7	—	4	8	A	17
SWWW	UICF Brundage	4	58.8	11.1	4	7	9	3	MD	26
SWWW	WB 1066 CL	2	61.1	12.3	2	4	5	—	MD	28
SWWW	WB 1070 CL	3	61.7	12.0	2	7	5	—	A	28
SWWW	WB 456	4	60.9	12.3	4	—	3	—	MD	20
SWWW	WB 523	4	60.2	11.4	3	—	5	—	A	20
SWWW	WB 528	5	60.9	11.1	3	5	5	9	D	19
SWWW	Xerpha	4	59.4	10.8	5	4	6	4	A	24
SWWC	Bruehl	4	57.6	10.9	3	3	6	2	D	31
SWWC	Cara	5	58.1	11.1	2	6	4	9	MD	30
SWWC	Chrystal	4	59.8	11.1	3	8	5	6	MD	30
SWWC	Chukar	5	58.5	10.4	1	7	4	9	MD	32
SWWC	Coda	5	61.0	11.2	3	3	3	7	D	32
SWWC	Crescent	4	59.3	10.6	3	7	7	9	MD	31
HRWW	AP 503 CL2	5	62.8	13.3	5	4	—	—	MD	39
HRWW	WB-Arrowhead	4	61.5	12.6	6	—	—	—	A	35
HRWW	Bauermeister	5	59.4	11.8	6	4	7	2	A	38
HRWW	Boundary	3	60.4	11.9	5	—	—	2	A	33
HRWW	Farnum	4	59.0	12.7	2	5	6	2	D	37

Breeder Varietal Summary Data

Type	Variety	Winter Hardiness	Test Weight (lbs/bu)	Protein (%)	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating	Page
HRWW	Finley	3	62.0	12.4	3	8	6	7	MD	37
HRWW	Keldin	3	61.4	12.8	4	—	—	—	A	36
HRWW	LCS Azimut	5	57.3	12.1	1	7	5	—	A	34
HRWW	LCS Colonia	7	56.9	12.6	3	—	—	—	A	34
HRWW	Norwest 553	8	61.1	12.8	1	—	5	9	A	35
HRWW	Rimrock	4	60.3	12.3	6	—	—	—	A	36
HRWW	Whetstone	4	61.2	12.8	3	—	8	9	MD	33
HRWW	SY Clearstone CL2	4	59.9	14.3	4	3	—	—	A	39

All hardiness, area of adaptation, and disease ratings are based on rankings directly from the variety testing programs with input from the breeders of the varieties.

LCS Artdeco



Soft White Winter Wheat

Released 2011, PVP 201300198

Pedigree: NSA02-1466/VR99B057
(both Limagrain European lines)

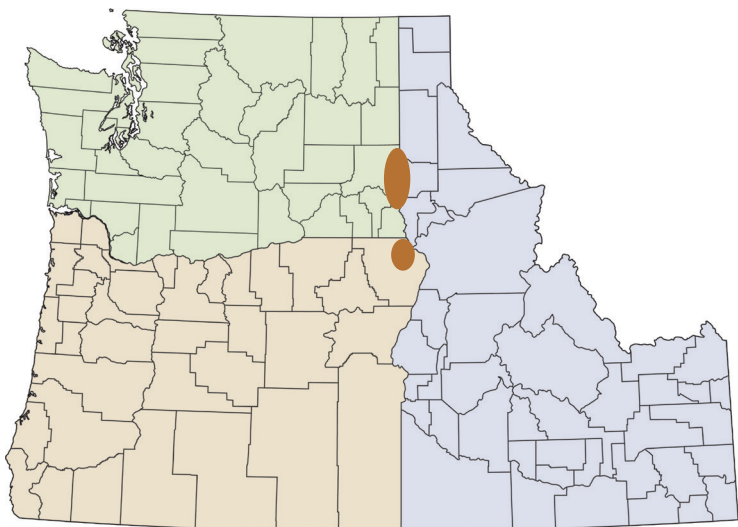
Short stature; early maturity; excellent straw strength

Protein = 10.5%; Test Weight = 58.9 lbs/bu

Precipitation Zone: 16–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
7.0	3	4	9	9	D



SY Ovation



Soft White Winter Wheat

Released 2012, PVP Title V;

Pedigree: ORH010837/OR2001611

Medium stature; early maturity; excellent straw strength

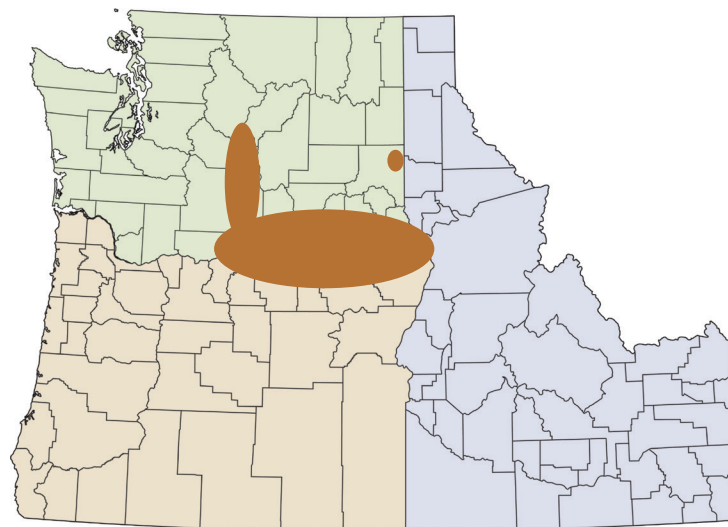
Protein = 10.9%; Test Weight = 60.9 lbs/bu

Precipitation Zone: 12–16"

***Soil Borne Mosaic Virus = 3; Fusarium Crown Rot = 3**

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
7.0	2	6	8	9	D



AP Badger



Soft White Winter Wheat

Released 2010, PVP 201000078;

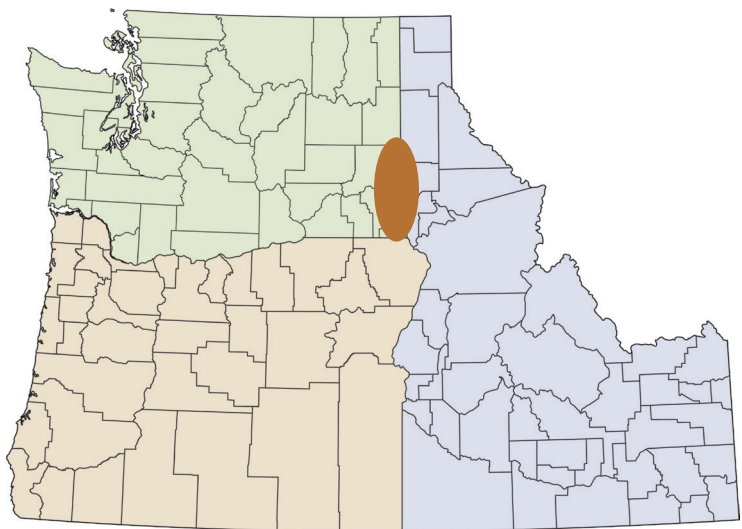
Pedigree: Stephens/Oratorio Short stature; medium-early maturity; excellent straw strength

Protein = 10.3%; Test Weight = 59.8 lbs/bu

Precipitation Zone: 16–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	5	—	7	5	D



AP Legacy



Soft White Winter Wheat

Released 2009, PVP 200900300;

Pedigree: SPN/Madsen/Rod Medium stature; medium-early maturity; excellent straw strength

Protein = 10.6%; Test Weight = 59.2 lbs/bu

Precipitation Zone: 12–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	7	5	5	6	MD



Legion



Soft White Winter Wheat

Released 2008, PVP 200900413; Pedigree: Tubbs sib/Stephens

Medium stature; medium maturity; good straw strength

Protein = 11.0%; Test Weight = 58.4 lbs/bu

Precipitation Zone: 12–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	2	8	7	—	D



SY 107



Soft White Winter Wheat

Released 2013, PVP 201200115;

Pedigree: ORH010837/Finch

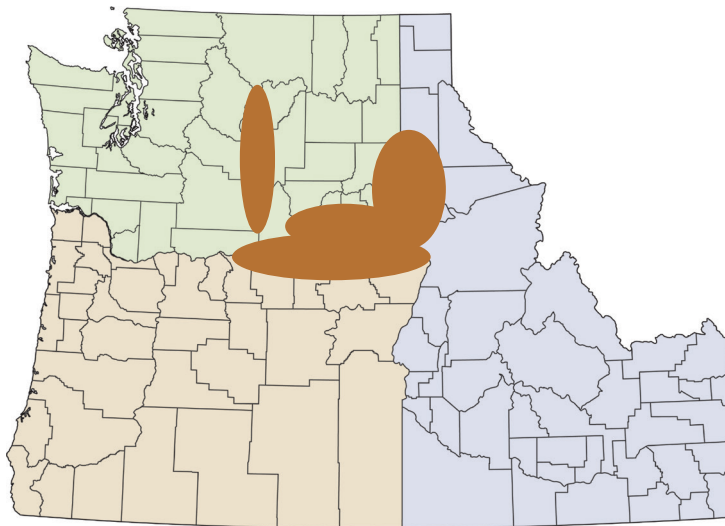
Medium stature; medium-early maturity; excellent straw strength

Protein = 10.8%; Test Weight = 59.5 lbs/bu

Precipitation Zone: 12–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
7.0	4	8	7	—	MD



Brundage 96 University of Idaho

Soft White Winter Wheat—Awnless

Released 2001, PVP 200200245;

Pedigree: Stephens/Geneva—reselection of Brundage for stripe rust resistance

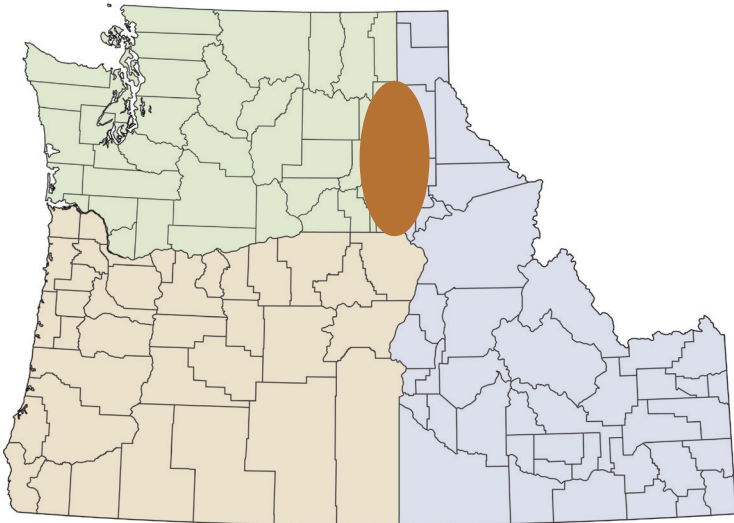
Medium stature; medium maturity; excellent straw strength

Protein = 10.8%; Test Weight = 58.9 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	6	7	4	9	MD



Bruneau University of Idaho

Soft White Winter Wheat

Released 2009, PVP 20120004;

Pedigree: Dusty/WA7433/4/ Lewjain/3/RDL/SU92//KAL/BB

Medium stature; early-medium maturity; good straw strength

Protein = 10.8%; Test Weight = 59.9 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
?	1	6	6	—	MD



Bitterroot *University of Idaho*

Soft White Winter Wheat

Released 2008, PVP 200800411;

Pedigree: DH-31/4/Lewjain/3/RDL/ SU92//KAL/BB

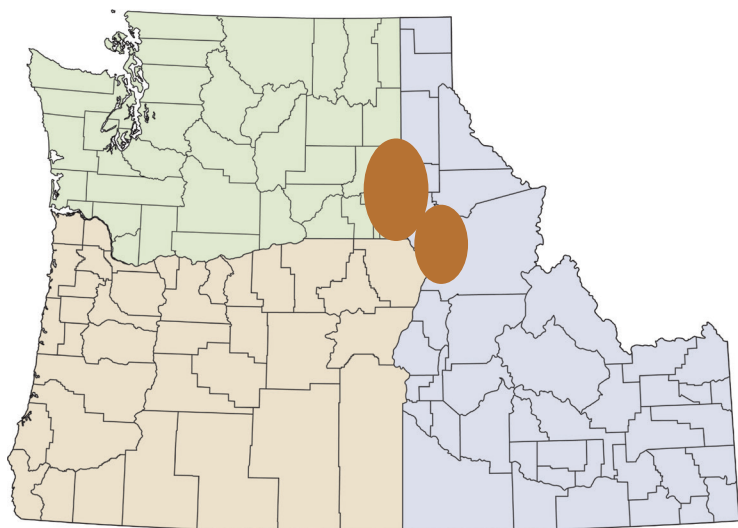
Medium stature; medium maturity; good straw strength

Protein = 10.2%; Test Weight = 60.1 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	4	5	8	—	MD



Goetze



Soft White Winter Wheat

Released 2007, PVP 200800393;

Pedigree: OR8303765/E81FR

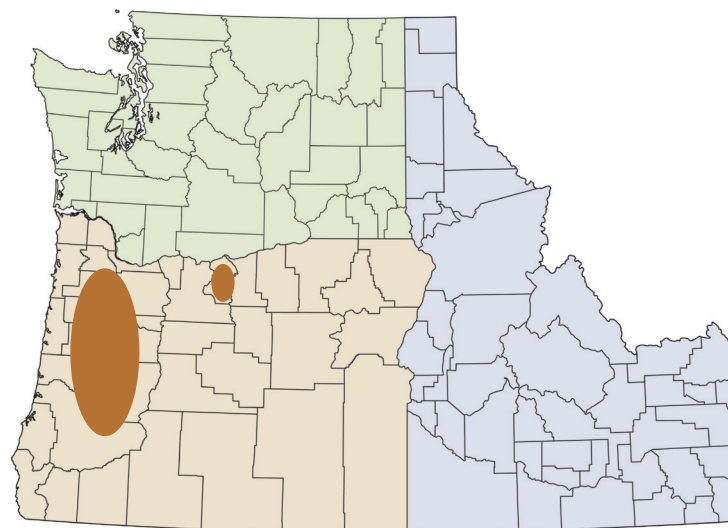
Short stature; early maturity; excellent straw strength

Protein = --; Test Weight = --

Precipitation Zone: 20" or greater - **primarily irrigated**

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
8.0	8	6	6	9	A



Bobtail



Soft White Winter Wheat

Released 2012, PVP 201400488;

Pedigree: Einstein/Tubbs

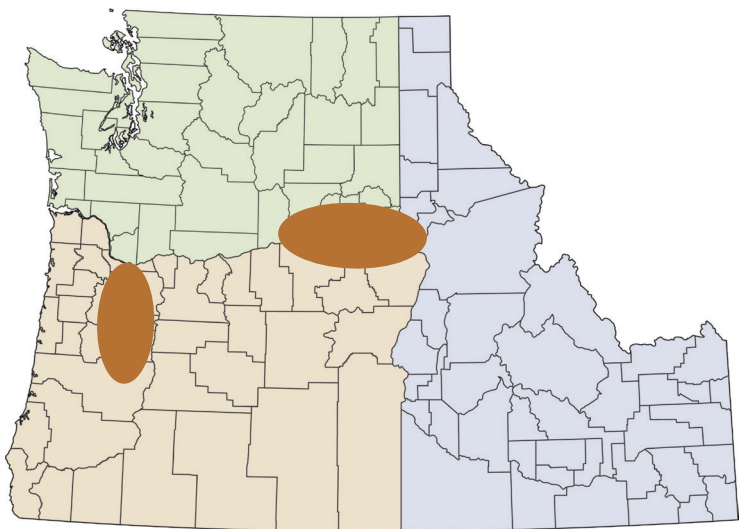
Medium stature; medium maturity; excellent straw strength

Protein = 10.4%; Test Weight = 57.1 lbs/bu

Precipitation Zone: 12" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
6.0	1	6	7	—	MD



Kaseberg



Soft White Winter Wheat

Released 2012, PVP 201300487;

Pedigree: OR981756/NSA 99-0792// ORSS-1757

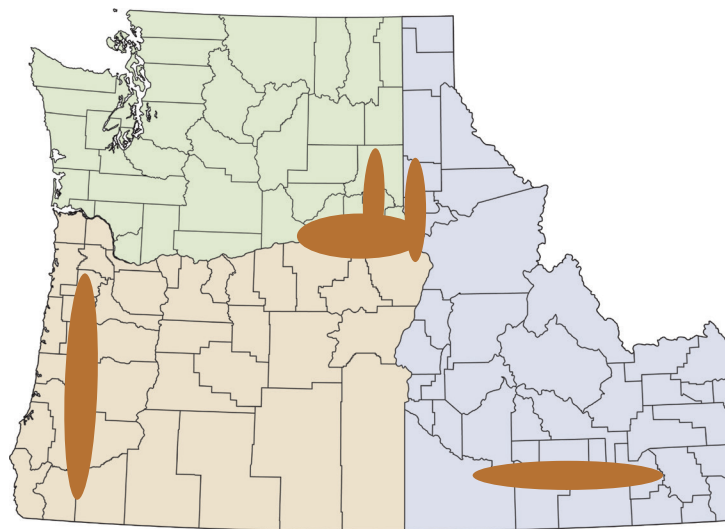
Medium stature; medium maturity; excellent straw strength

Protein = 10.4%; Test Weight = 59.1 lbs/bu

Precipitation Zone: 12-20" also under irrigation

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	3	6	8	—	MD



Ladd



Soft White Winter Wheat

Released 2012, PVP 201300486; Pedigree: OR951431/NSA 94-2137

Short stature; medium maturity; excellent straw strength

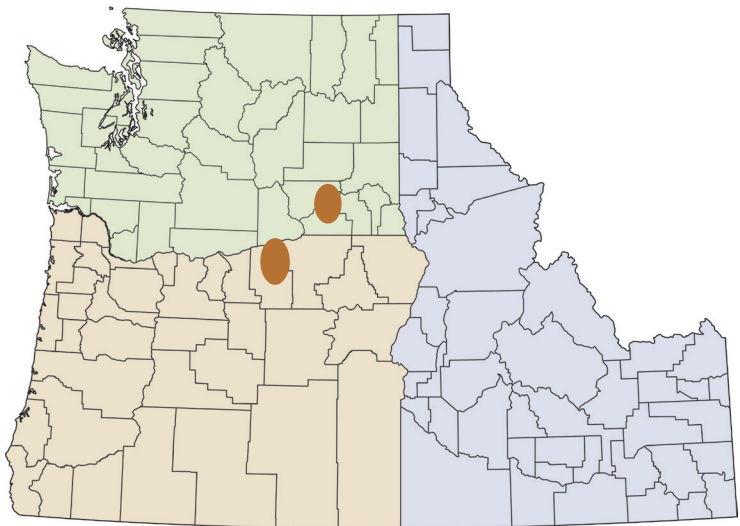
Protein = 11.4%; Test Weight = 59.5 lbs/bu

Precipitation Zone: 16" or greater

***Soil Borne Mosaic Virus = 3**

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	5	7	7	6	MD



Mary



Soft White Winter Wheat

Released 2011, PVP 201200472; Pedigree: Stephens/Madsen/3/ WA7163 Sister/SA 463 GBR//Stephens

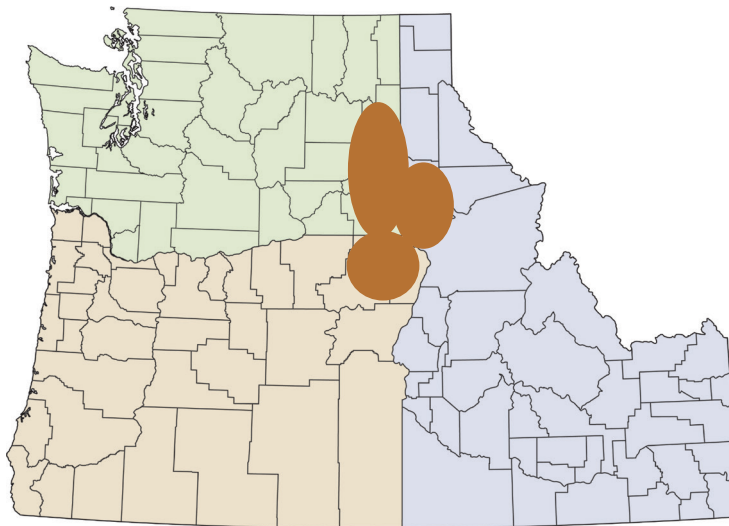
Short stature; early-medium maturity; excellent straw strength

Protein = 10.9%; Test Weight = 60.0 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
6.0	4	8	7	5	D



Tubbs 06



Soft White Winter Wheat

Released 2006, PVP 200700423;

Pedigree: Malcolm/Madsen

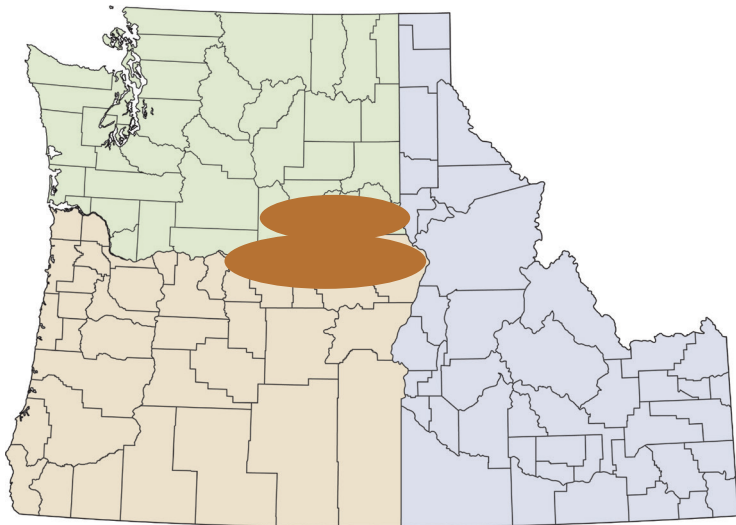
Medium stature;
medium maturity; good straw strength

Protein = 10.9%; Test Weight = 58.7 lbs/bu

Precipitation Zone: 14–18" Fits the drier zones of Oregon

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	7	—	4	8	A



Rosalyn



Soft White Winter Wheat

Released 2012, PVP 201400487;

Pedigree: NSL99-4160/Tubbs

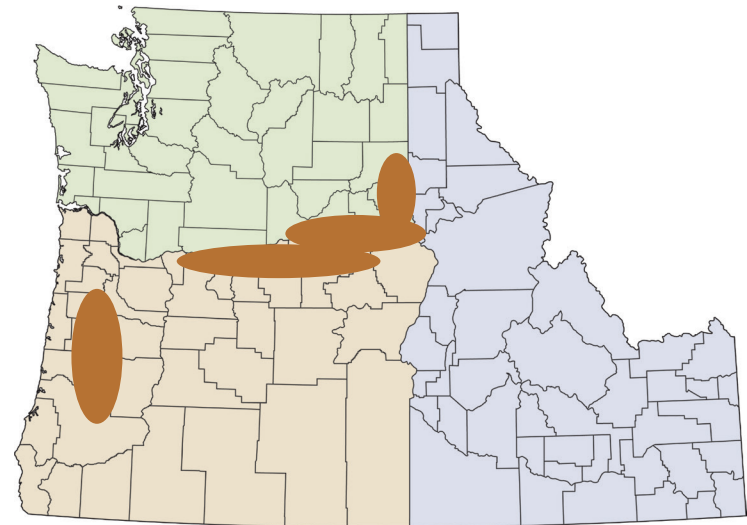
Medium stature; medium maturity; excellent straw strength

Protein = 10.1%; Test Weight = 58.0 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
6.0	1	6	3	8	D



Skiles



Soft White Winter Wheat

Released 2008, PVP 200900465;

Pedigree: Dusty/ZGP-4074/ Unknown

Medium stature; early-medium maturity; excellent straw strength

Protein = 11.7%; Test Weight = 60.0 lbs/bu

Precipitation Zone: 16–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
6.0	1	4	6	9	D



Stephens



Soft White Winter Wheat

Released 2007; PVP free;

Pedigree: 1965v cross of Nord Desprez and Pullman selection 101

Medium stature; early-medium maturity; excellent straw strength

Protein = 11.1%; Test Weight = 59.0 lbs/bu

Precipitation Zone: 16–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
7.0	4	9	6	9	D



Junction



Soft White Winter Wheat

Released 2013, PVP 201100478;

Pedigree: Brundage/Mohler

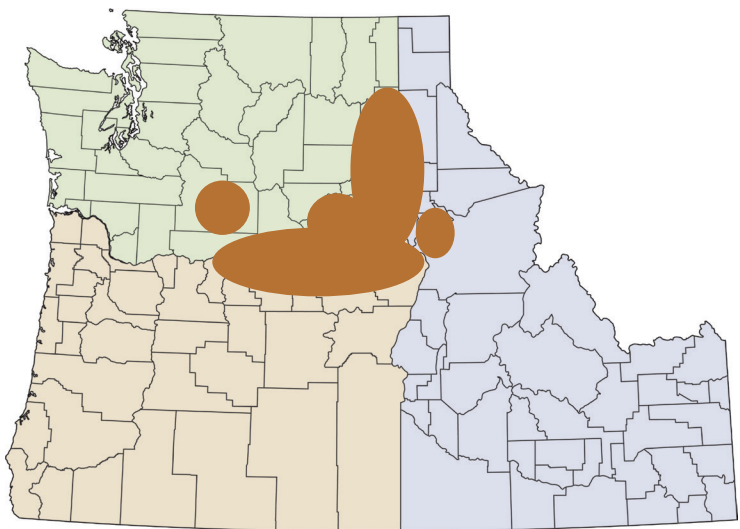
Medium stature; early maturity; good straw strength

Protein = 11.1%; Test Weight = 60.9 lbs/bu

Precipitation Zone: 16–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	3	8	9	—	MD



WB 528



Soft White Winter Wheat

Released 2004, PVP 200600273;

Pedigree: WB 470/Madsen

Medium stature; medium-early maturity; good straw strength

Protein = 11.1%; Test Weight = 60.9 lbs/bu

Precipitation Zone: 16–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	3	5	5	9	D



WB 523



Soft White Winter Wheat

Released 2008, PVP 200900446;

Pedigree: Malcolm/Madsen// Cashup

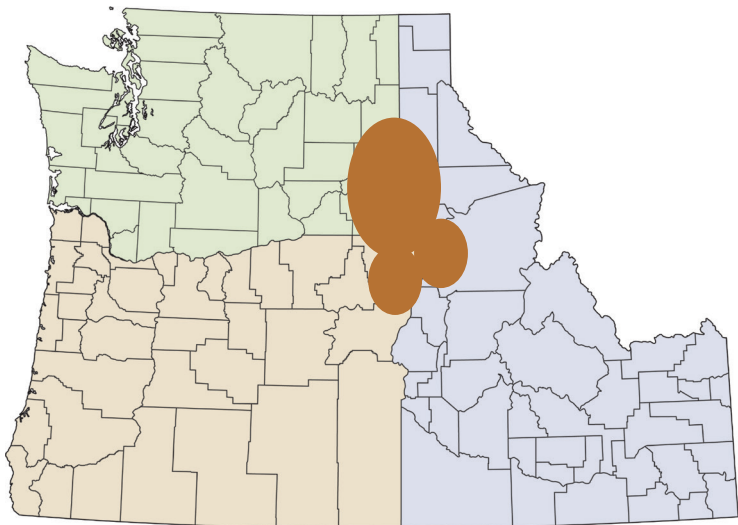
Short-medium stature; late maturity; good-excellent straw strength

Protein = 11.4%; Test Weight = 60.2 lbs/bu

Precipitation Zone: 18" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	3	—	6	—	MD



WB 456



Soft White Winter Wheat

Released 2008, PVP 200900445;

Pedigree: WB470/Madsen

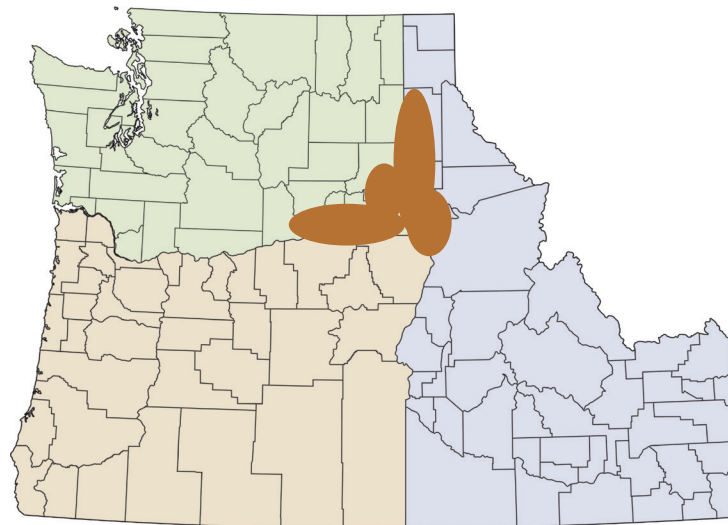
Short stature; early maturity; excellent straw strength

Protein = 12.3%; Test Weight = 60.9 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	4	—	3	—	A



Madsen



Soft White Winter Wheat

Released 1988, PVP free;

Pedigree: Hill81/Moisson951

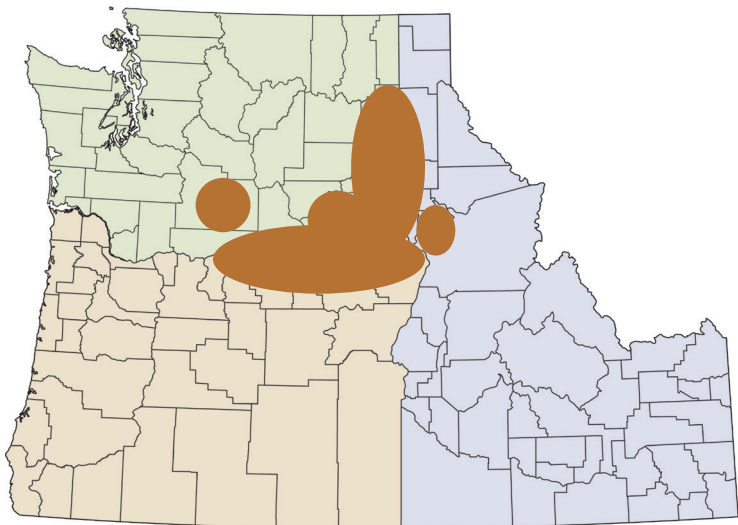
Medium stature; medium maturity; excellent straw strength

Protein = 11.3%; Test Weight = 59.5 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
6.0	1	6	4	5	A



Jasper



Soft White Winter Wheat

Released 2014, PVP;

Pedigree: Sentry/Lewjain//Madsen*3///Brundage 96

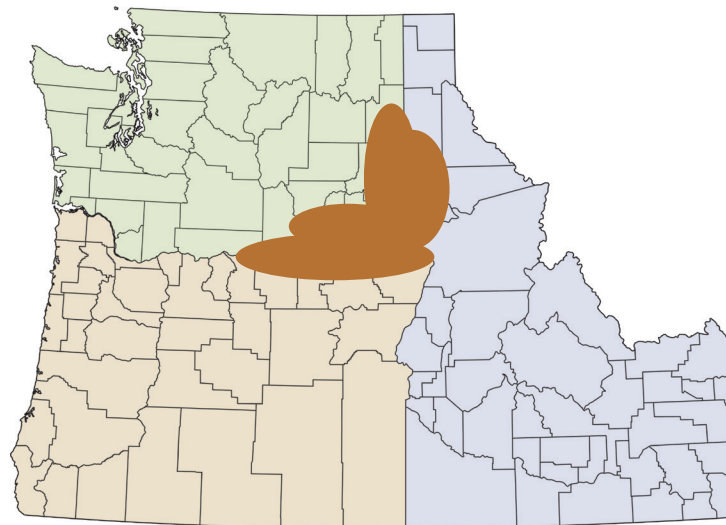
Medium stature; medium maturity; excellent straw strength

Protein = 11.4%; Test Weight = 57.5 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	3	9	4	—	D



Eltan



Soft White Winter Wheat

Released 1990, PVP free;

Pedigree: Luke/Brevor/Norin10/...

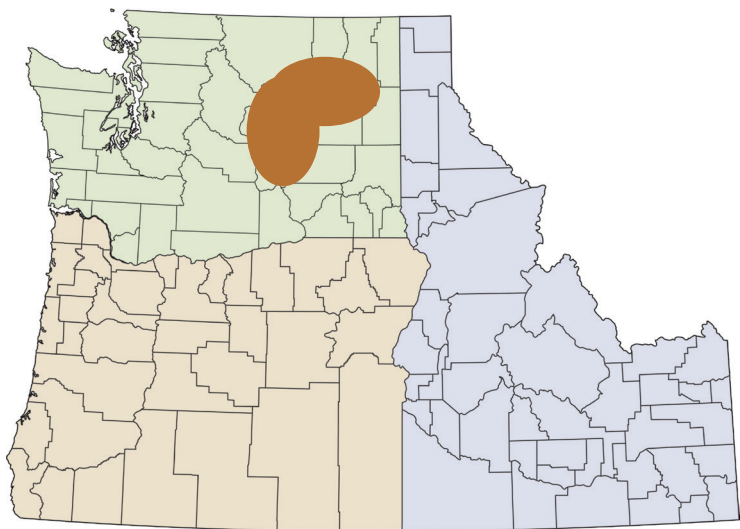
Medium stature; late maturity; good straw strength

Protein = 11.0%; Test Weight = 59.5 lbs/bu

Precipitation Zone: 15" or less

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
2.0	5	4	7	2	D



Amber



Soft White Winter Wheat

Released 2011, PVP free;

Pedigree: Eltan/4/WA7217/3/WA6581// Paha/Tres/5/WA7665//Madsen/Tyee

Medium stature; early-medium maturity; excellent straw strength

Protein = 10.7%; Test Weight = 59.4 lbs/bu

Precipitation Zone: 16–20" or greater

***Aluminum tolerance = 3**

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	2	8	7	3	MD



Selbu



Soft White Winter Wheat

Released 2012, PVP free;

Pedigree: Dusty//Madsen sib/Dusty/// Tres//Madsen sib/Tres

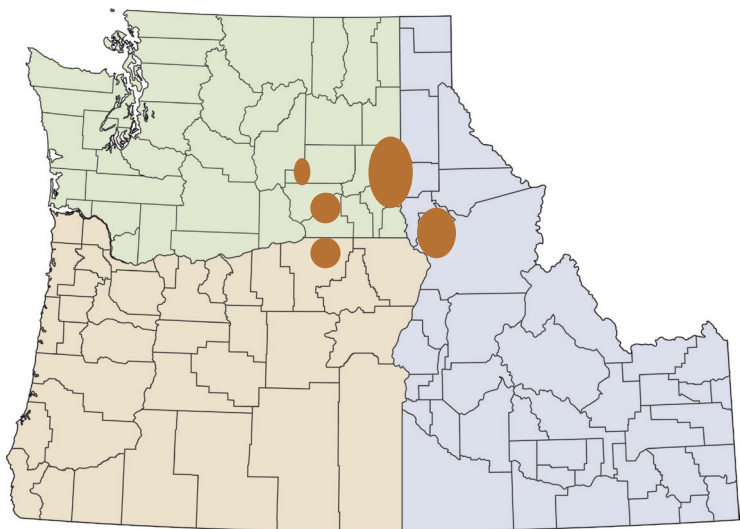
Medium stature; medium maturity; excellent straw strength

Protein = 11.3%; Test Weight = 60.9 lbs/bu

Precipitation Zone: 16–20" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	1	7	5	8	D



Puma



Soft White Winter Wheat

Released 2014, PVP;

Pedigree: Sentry/Lewjain//Madsen*3///Brundage 96

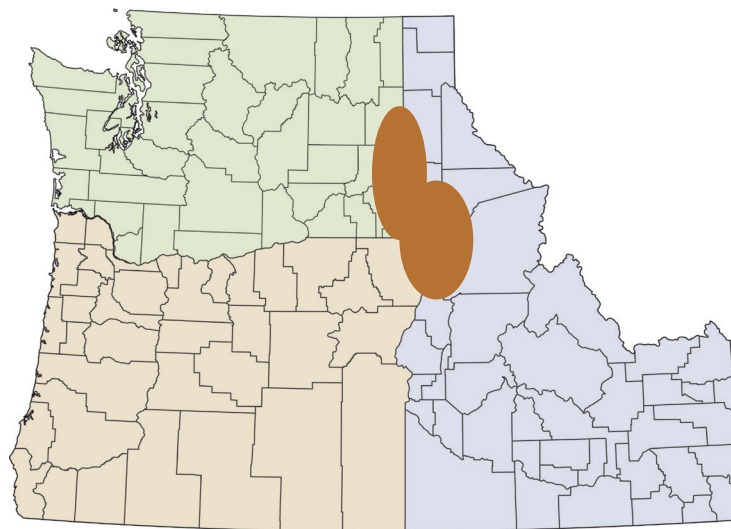
Medium stature; medium maturity; excellent straw strength

Protein = 11.4%; Test Weight = 57.5 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	3	7	4	—	MD



Masami



Soft White Winter Wheat

Released 2004, PVP 200600244;

Pedigree: MacVicar/PI561031

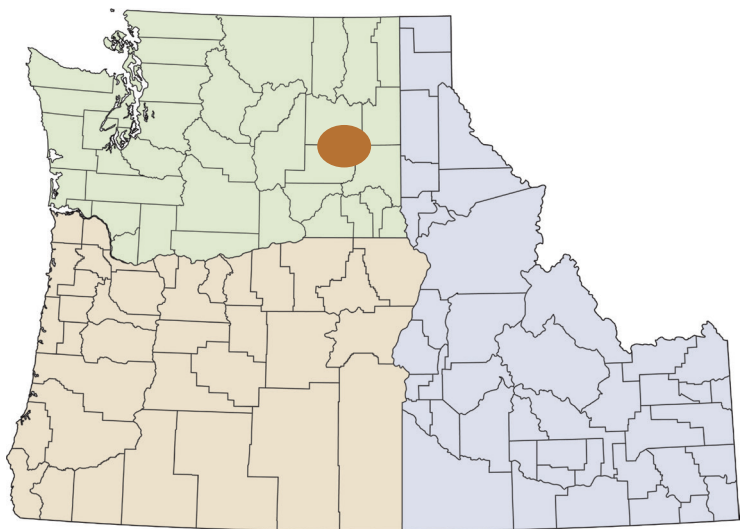
Medium stature; late maturity; excellent straw strength

Protein = 10.5%; Test Weight = 58.4 lbs/bu

Precipitation Zone: 12–16"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	3	5	3	5	D



Xerpha



Soft White Winter Wheat

Released 2009, PVP 200900289;

Pedigree: Eltan/Estica

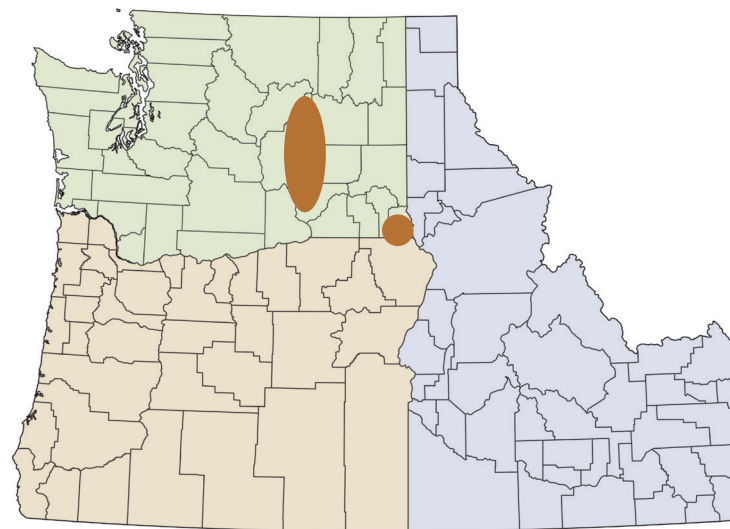
Medium stature; medium maturity; good straw strength

Protein = 10.8%; Test Weight = 59.4 lbs/bu

Precipitation Zone: 16" or less

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	5	4	6	4	A



Otto

Soft White Winter Wheat

Released 2011, PVP 201300360;

Pedigree: Eltan/Madsen//Eltan*3

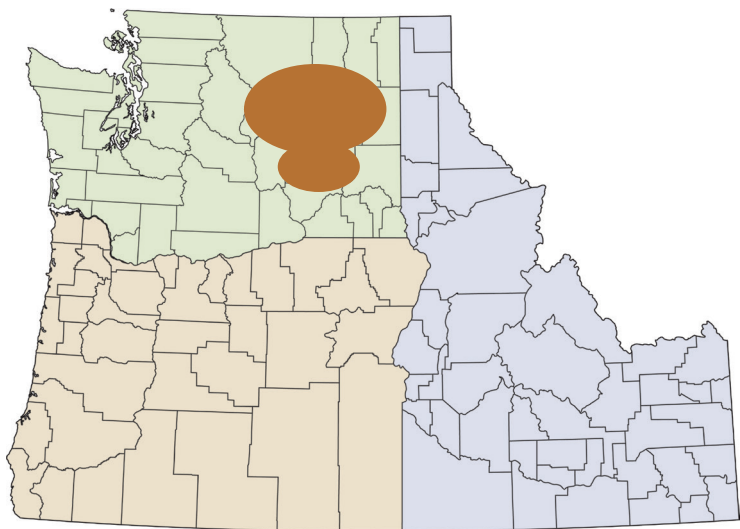
Medium stature; medium-late maturity; excellent straw strength

Protein = 11.2%; Test Weight = 59.3 lbs/bu

Precipitation Zone: 15" or less

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
3.0	2	6	3	2	D



Huffman

Soft White Winter Wheat

Released 2014, PVP 201500295;

Pedigree: J99C0009//'Bruneau' J99C0009 (WSU breeding line with high Cephalosporium stripe tolerance)

Medium stature; late maturity; good straw strength

Protein = 10.9%; Test Weight=58.8 lbs/bu

Precipitation Zone: 16" or greater

*Soil Borne Mosaic Virus = 3

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	3	—	—	—	MD



AP 700 CL



Soft White Winter Wheat - Clearfield type

Released 2007, PVP 200800323;

Pedigree: Tubbs sib/Stephens/FS-4

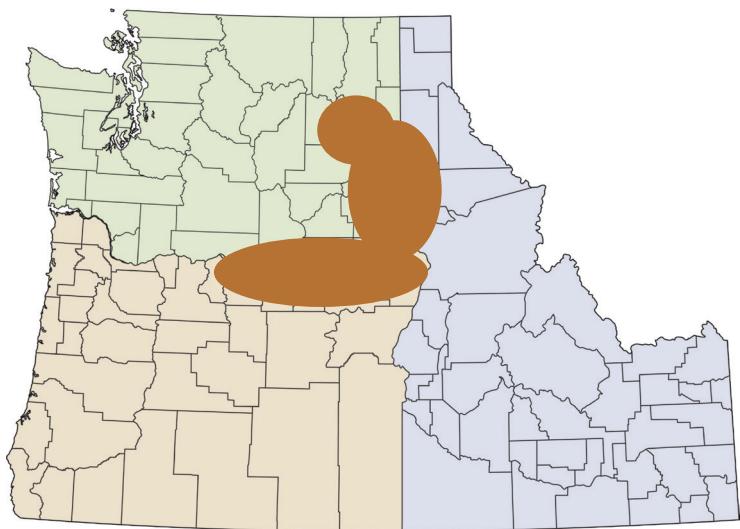
Medium stature; early maturity; excellent straw strength

Protein = 11.4%; Test Weight = 59.1 lbs/bu

Precipitation Zone: 12–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	2	6	3	—	A



UICF Brundage University of Idaho

Soft White Winter Wheat -Awnless -Clearfield type

Released 2009, PVP 201100031;

Pedigree: Madsen*4/FS4/2* Brundage/3*Brundage 96

Medium stature; early-medium maturity; excellent straw strength

Protein = 11.1%; Test Weight = 58.8 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	4	7	9	3	MD



ORCF 102



Soft White Winter Wheat - Clearfield type

Released 2004, PVP 200500337;

Pedigree: Madsen/FS-4// Weatherford

Medium-tall stature; medium maturity; excellent straw strength

Protein = 11.2%; Test Weight = 60.0 lbs/bu

Precipitation Zone: 12–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	3	5	4	8	A



ORCF 103



Soft White Winter Wheat - Clearfield type

Released 2014, PVP;

Pedigree: Sentry/Lewjain//Madsen*3///Brundage 96

Medium stature; medium maturity; excellent straw strength

Protein = 11.4%; Test Weight = 57.5 lbs/bu

Precipitation Zone: 16" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	6	6	6	4	D



WB 1070 CL

Soft White Winter Wheat - Clearfield type

Released 2001, PVP 201100470;

Pedigree: WB-528/FS4

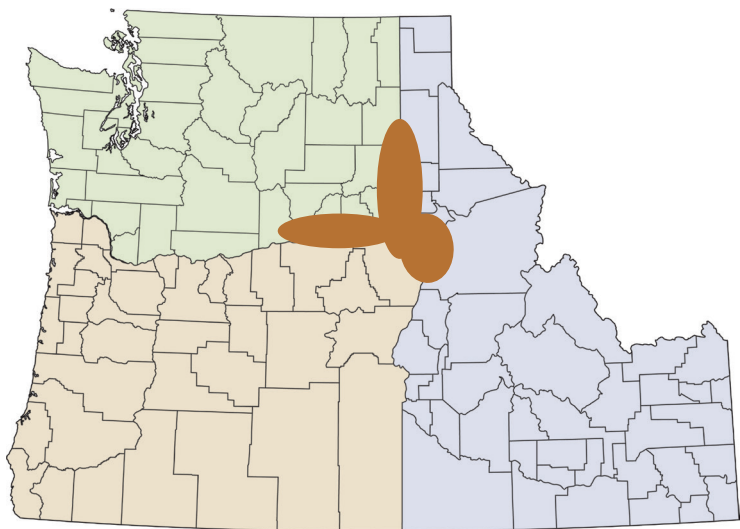
Short stature; early maturity; excellent straw strength

Protein = 12.0%; Test Weight = 61.7 lbs/bu

Precipitation Zone: 16–24"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
7.0	2	7	5	—	A



WB 1066 CL

Soft White Winter Wheat - Clearfield type

Released 2001, PVP 201100477;

Pedigree: WB-528/FS4

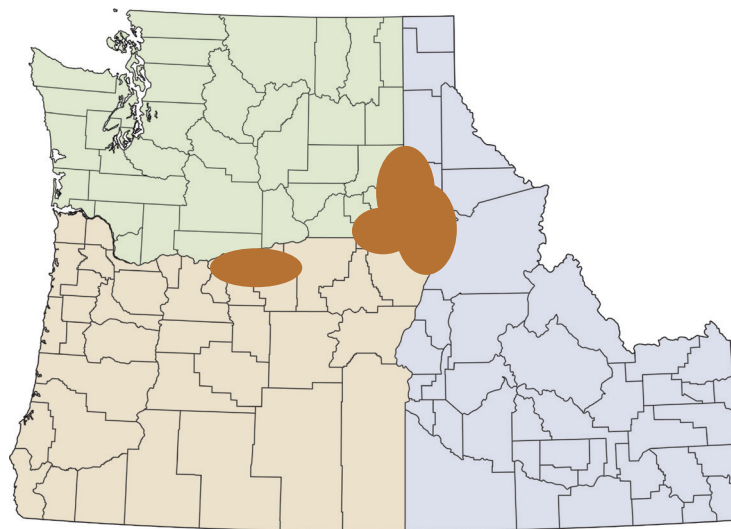
Medium stature; early maturity; very good straw strength

Protein = 12.3%; Test Weight = 61.1 lbs/bu

Precipitation Zone: 16–24"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
2.0	2	4	5	—	MD



Mela CL+



Soft White Winter Wheat - Clearfield type (2-gene)

Released 2013, PVP "Pending";

Pedigree: Eltan derived

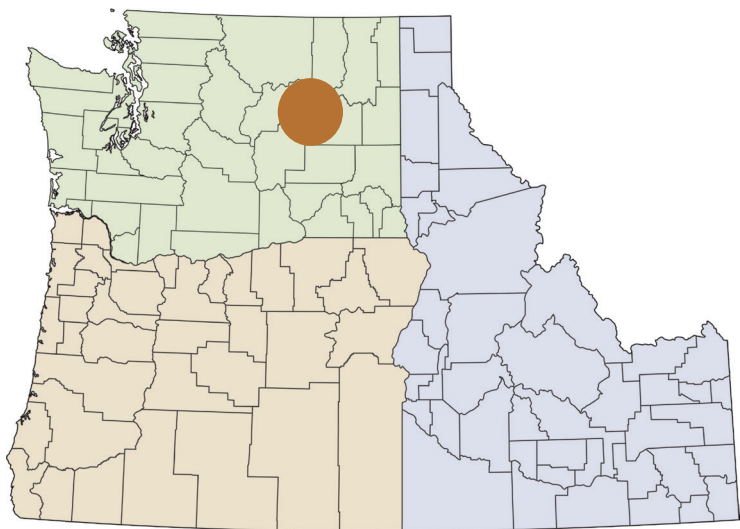
Medium stature; medium maturity; good straw strength

Protein = 10.9%; Test Weight = 59.8 lbs/bu

Precipitation Zone: 15" or less

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
3.0	5	5	7	2	D



Curiosity CL+



Soft White Winter Wheat - Clearfield type (2-gene)

Released 2013, PVP "Pending";

Pedigree: Eltan derived

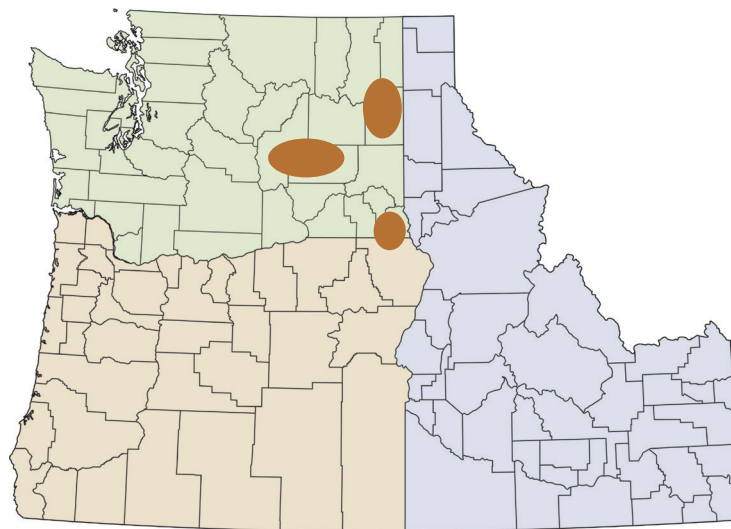
Medium stature; medium maturity; good straw strength

Protein = 10.8%; Test Weight = 59.9 lbs/bu

Precipitation Zone: 15" or less

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
3.0	4	5	7	3	D



Cara



Soft White Winter Club Wheat

Released 2007, PVP free;

Pedigree: Tres/Madsen + Omar + Moisson951*Barbee

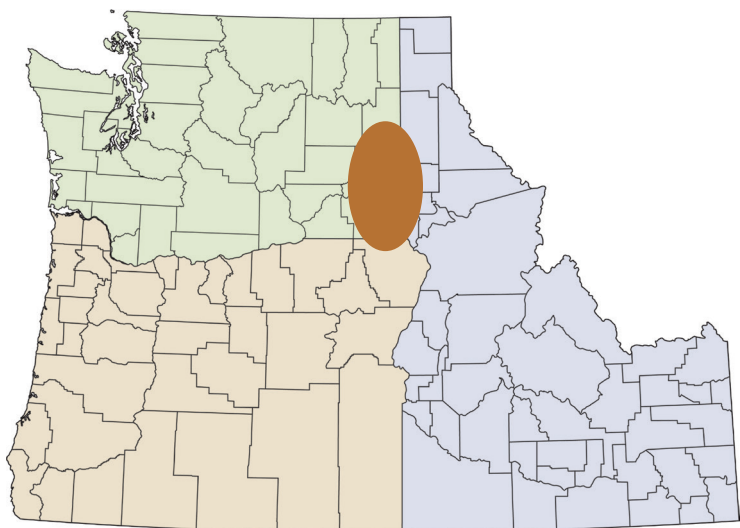
Medium stature; medium maturity; excellent straw strength

Protein = 11.1%; Test Weight = 58.1 lbs/bu

Precipitation Zone: 12–20" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	2	6	4	9	MD



Chrystal



Soft White Winter Club Wheat

Released 2011, PVP free;

Pedigree: Chukar sib//Brimstone/Moro

Medium stature; medium maturity; excellent straw strength

Protein = 11.1%; Test Weight = 59.8 lbs/bu

Precipitation Zone: 12–20" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
3.0	3	8	5	6	MD



Bruehl



Soft White Winter Club Wheat

Released 2000, PVP free;

Pedigree: Oasis/Luke/Itana/Tres/Eltan. Luke and Eltan are SWW common, Itana is a hard red winter, Oasis is a soft red winter and Tres is a SWW club.

Medium-tall stature; late maturity; poor straw strength

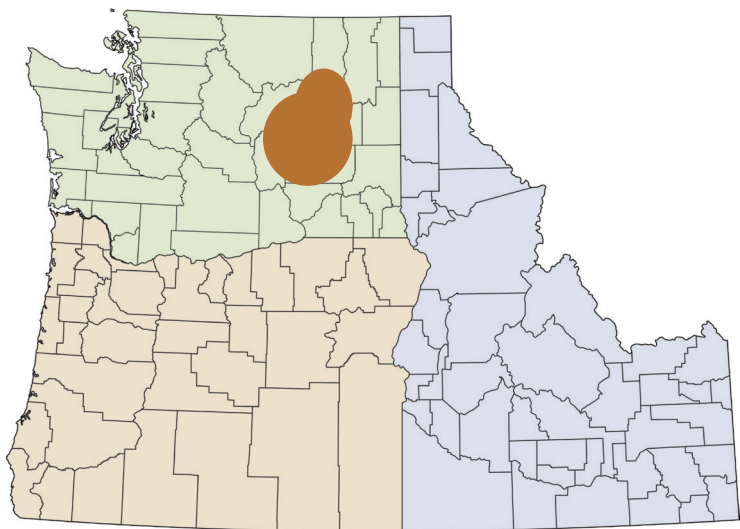
Protein = 10.9%; Test Weight = 57.6 lbs/bu

Precipitation Zone: 14" or less

Susceptible to low falling number

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	3	3	6	2	D



Crescent



Soft White Winter Wheat

Released 2012, PVP free;

Pedigree: Dusty/Madsen/Rulo/Tyee, Dusty- Nugaines, Madsen - Moisson951/Hill81, Rulo - Capelle Desprez/Tres, Tyee - Roazon/Tres

Medium-tall stature; medium maturity; very good straw strength

Protein = 10.6%; Test Weight = 59.3 lbs/bu

Precipitation Zone: 14" or less

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
3.0	3	7	4	9	MD



Coda



Soft White Winter Club Wheat

Released 1998, PVP free;

Pedigree: Madsen/Tres

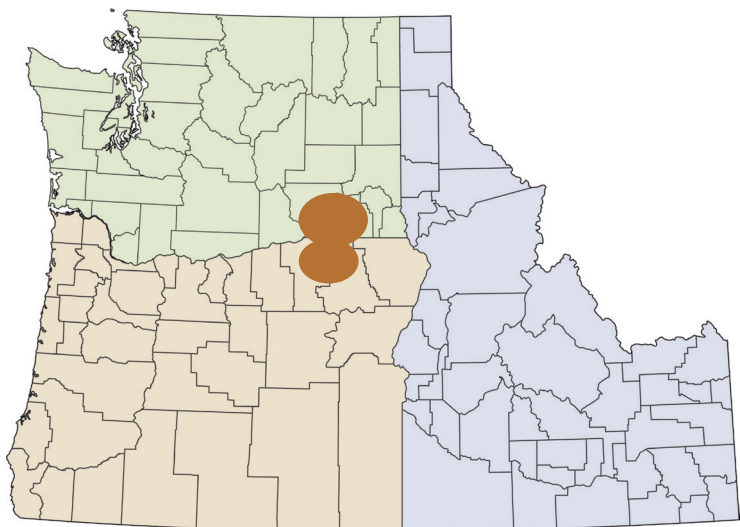
Medium stature; medium maturity; excellent straw strength

Protein = 11.2%; Test Weight = 61.0 lbs/bu

Precipitation Zone: 16–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	3	3	3	7	D



Chukar



Soft White Winter Club Wheat

Released 2001, PVP free; Pedigree: Rulo - Capelle Desprez/
Tres + Tyee - Roazon/Tres

Medium stature; medium-late maturity; excellent straw strength

Protein = 10.4%; Test Weight = 58.5 lbs/bu

Precipitation Zone: 16–20" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	4	6	3	9	MD



Whetstone



Hard Red Winter Wheat

Released 2008, PVP 200900301;

Pedigree: Pecos/W94-462

Medium stature; early maturity; excellent straw strength

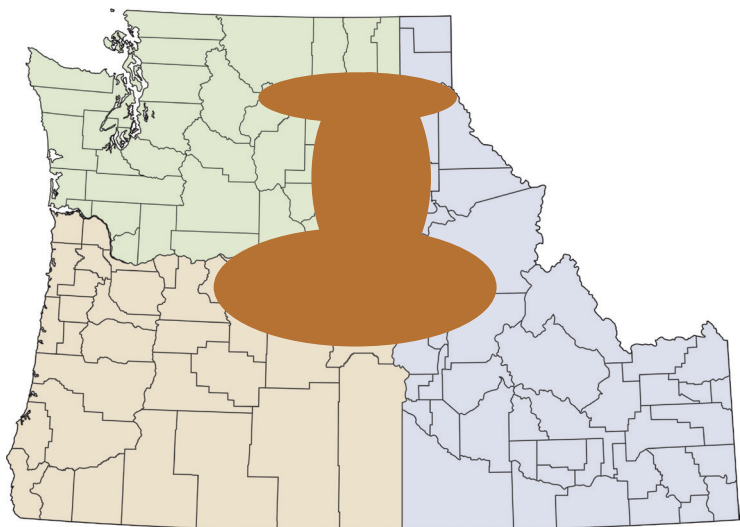
Protein = 12.8%; Test Weight = 61.2 lbs/bu

Precipitation Zone: 12–20"

*Soil Borne Mosaic Virus = 3

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	3	—	—	9	MD



Boundary

University of Idaho

Hard Red Winter Wheat

Released 1997, PVP Free; Pedigree: A76327W-2-3T-5P/A7457W-13-1-1T-2P. Breeding line A76327W-2-3T-5P = Norin 10/Brevor// 2*Centana, Centana*2/CI14106. Breeding line A7457W-13-1-1T2P = Il60-155/CI 14106//McCall/4/Kiowa/UT222a-437-2//Delmar/3/SM4/MT6619

Medium stature; medium maturity; excellent straw strength

Protein = 11.9%; Test Weight = 60.4;

Precipitation Zone: 14" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
3.0	5	—	—	2	A



LCS Azimut



Hard Red Winter Wheat

Released 2010, PVP (not protected)

Pedigree: Alicante/Oratorio

Short stature; early maturity; excellent straw strength

Protein = 12.1%; Test Weight = 57.3 lbs/bu

Precipitation Zone: 12–20" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
2.0	1	7	5	—	A



LCS Colonia



Hard Red Winter Wheat

Released 2013, PVP "Pending"

Pedigree: Manhattan x Harlem x NIC97-3068-B

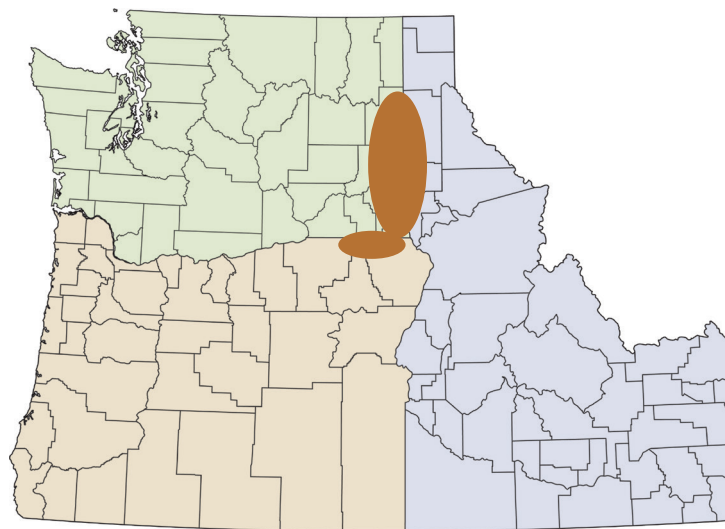
Medium stature; early-medium maturity; excellent straw strength

Protein = 12.6%; Test Weight = 56.9 lbs/bu

Precipitation Zone: 16–20"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
2.0	3	—	—	—	A



Norwest 553



Hard Red Winter Wheat

Released 2007, PVP 200800394;

Pedigree: 95B343/Isengrain

Short stature; medium maturity; excellent straw strength

Protein = 12.8%; Test Weight = 61.1 lbs/bu

Precipitation Zone: 12" or greater

Susceptible to winter kill

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
8.0	1	—	5	9	A



Arrowhead



Hard Red Winter Wheat

Released 2012, PVP 201100479;

Pedigree: Promontory/Karl 92

Medium-tall stature; medium maturity; good straw strength

Protein = 12.6%; Test Weight = 61.5 lbs/bu

Precipitation Zone: 12–24"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
3.0	6	—	—	—	A



Keldin



Hard Red Winter Wheat

Released 2013, PVP 201300462;

Pedigree: Barenburg 235 x Carlisle/ TRX-A16-3-2, developed by Pflanzenzucht Oberlumpurg of Germany, and licensed to WestBred

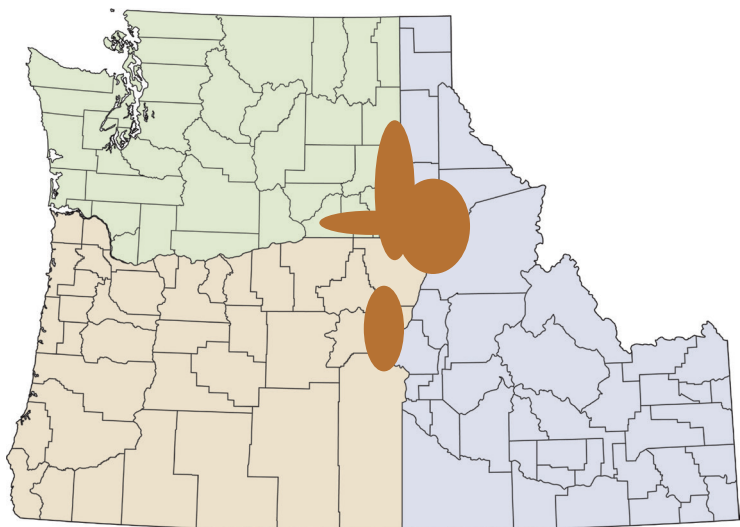
Medium stature; Late maturity; very good straw strength

Protein = 12.8%; Test Weight = 61.4 lbs/bu

Precipitation Zone: 16–24"

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
2.0	4	—	—	—	A



Rimrock



Hard Red Winter Wheat

Released 2012, PVP 201100463;

Pedigree: Fundulea 4 x 5 IWWSN-1185; IWWSN is a CIMMYT line, never registered as a variety

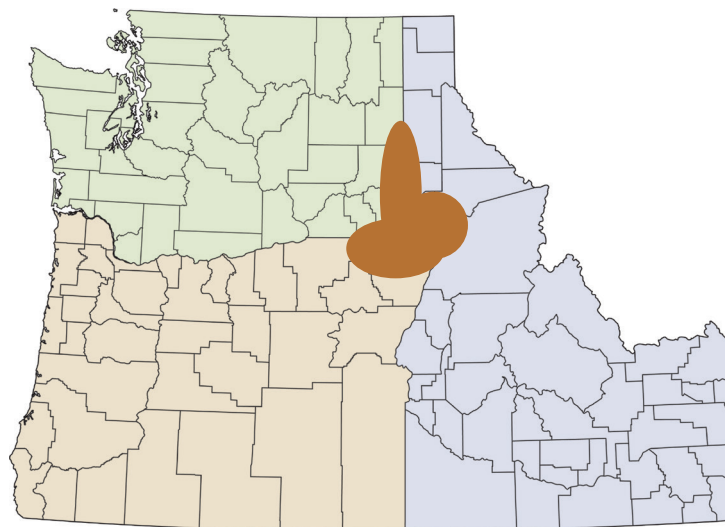
Medium stature; medium maturity; very good straw strength

Protein = 12.3%; Test Weight = 60.3 lbs/bu

Precipitation Zone: 20" or greater

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	6	—	—	—	A



Farnum



Hard Red Winter Wheat

Released 2008, PVP 200900327;

Pedigree: 'Buchanan' (PI532994)/4/'Kavkaz' (PI 361879)/3/'PI173467'/'Itana'(Cltr12933)///'Wanser'(Cltr 13844).

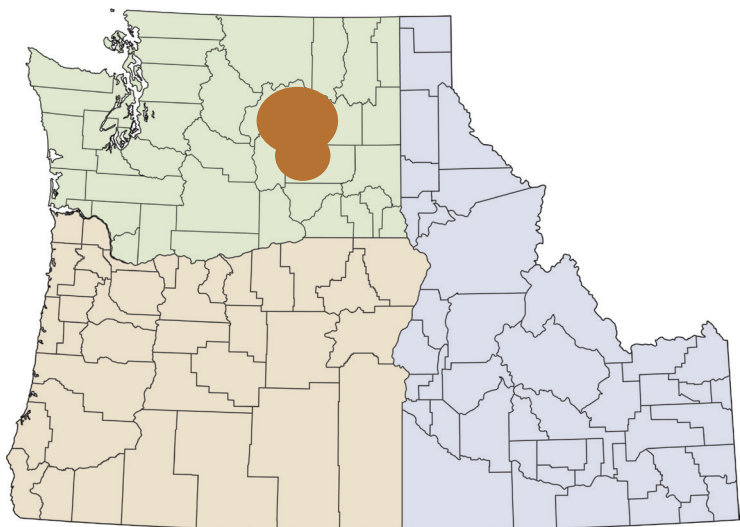
Tall stature; medium maturity; very good straw strength

Protein = 12.7%; Test Weight = 59.0 lbs/bu

Precipitation Zone: 16" or less

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
5.0	2	5	6	2	D



Finley



Hard Red Winter Wheat

Released 2005, PVP free;

Pedigree: 'Weston'/ 'Hatton sib'/TX69A450. TX69A450 is a Texas selection from a short wheat/Scout composite

Tall stature; medium maturity; excellent straw strength

Protein = 12.4%; Test Weight = 62.0 lbs/bu

Precipitation Zone: 14" or less

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	3	8	6	7	MD



Hard Red Winter Wheat

Released 2005, PVP 200600245;

Pedigree: TAM200/Eltan

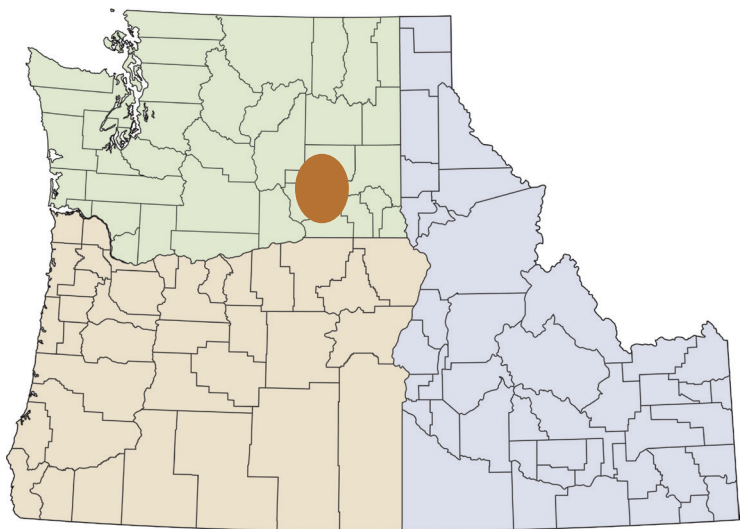
Medium stature; medium maturity; good straw strength

Protein = 11.8%; Test Weight = 59.4 lbs/bu

Precipitation Zone: 12" or less

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
4.0	6	4	7	2	A



SY Clearstone CL2

Hard Red Winter Wheat - Clearfield Type (2-gene)

Released 2013, PVP Title V;

Pedigree: Yellowstone*4/MTCL01158/ CDC Teal11A// Jagalene

Medium-Tall stature; Medium maturity; good straw strength

Winter hardiness = 4.0%; Test Weight = 59.9 lbs/bu

Precipitation Zone: 12–16" Proposed area of adaptation below

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
14.3	4	3	—	—	A



AP 503 CL2

Hard Red Winter Wheat - Clearfield Type (2-gene)

Released 2007, PVP 200800322;

Pedigree: i98-362/AP502CL, i98-362A1 is a line derived from Jagalene (W98-362)

Medium stature; early maturity; good straw strength Winter hardiness = 5.0%; Test Weight = 62.8 lbs/bu

Precipitation Zone: 12–20"

*Soil Borne Mosaic Virus = 3

Disease/Quality and Adaptation Data

Winter Hardiness	Stripe Rust	Cephalosporium Stripe	Strawbreaker Tolerance	Snow Mold Tolerance	Quality Rating
13.3	5	4	—	—	MD



WASHINGTON SEEDSMEN FOR CERTIFIED SEED OF FIELD PEA, LENTIL, and SMALL GRAIN²

*Plant approved for conditioning certified seed.

**Plant approved for conditioning certified seed which has acceptable automatic mechanical seed sampler.

ADAMS COUNTY

**CHS, Inc., Othello..... 509-488-9681
 **Ritzville Seed, LLC, Ritzville..... 509-659-0270
 **Union Elevator & Warehouse Company, Lind..... 509-677-3441

BENTON COUNTY

*M & E Seed Company, Prosser..... 509-786-3446
 Horse Heaven Grain, LLC, Prosser..... 509-786-4997

COLUMBIA COUNTY

**Abbey Farms, Inc., Waitsburg..... 509-337-8860
 **Columbia County Grain Growers, Inc., Dayton..... 509-382-2571

DOUGLAS COUNTY

**Central Washington Grain Growers, Inc., Waterville..... 509-745-8551
 **John L. McLean Seed Company, Coulee City..... 509-632-5238

FRANKLIN COUNTY

Bleyhl Farm Service, Pasco..... 509-547-5577
 **Connell Grain Growers, Inc., Connell..... 1-800-572-5932, 509-234-2641
 Frishnecht..... 509-234-2641
 **Eppich Grain, Inc., Basin City..... 509-269-4693
 *L & H Seeds, Connell..... 509-234-4433
 *Tri-State Seed, LLC, Connell..... 509-234-2500
 *Washington Producers, Inc., Basin City..... 509-269-9218
 Wilbur Ellis Company, Pasco..... 800-967-2148

GARFIELD COUNTY

Tomco Seed, Pomeroy..... 509-843-1468
 Western Farm Service, Pomeroy..... 509-843-3491

GRANT COUNTY

**Tomco Seeds, Warden..... 509-349-8893
 **Connell Grain Growers..... 509-765-3881
 Moses Lake..... 509-765-3898
 **Golden West Bean & Grain, Royal City..... 509-346-9454
 **CHS, Inc., Quincy..... 509-787-3511
 **KAPA Seed Service, Quincy..... 509-787-1561
 **McKay Seed Company, Inc., Moses Lake..... 509-766-9894

WASHINGTON SEEDSMEN FOR CERTIFIED SEED OF FIELD PEA, LENTIL, and SMALL GRAIN²

*Plant approved for conditioning certified seed.

**Plant approved for conditioning certified seed which has acceptable automatic mechanical seed sampler.

GRANT COUNTY (Cont.)

**Quincy Farm Chemicals, Inc., Quincy..... 509-787-4541
 Saddle Mountain Supply Company, Royal City..... 509-346-2291
 *Wagner Seed Company, Warden..... 509-349-8094
 **Wilson Creek Union Grain & Trading Co., Wilson Creek..... 509-345-2551

KITTITAS COUNTY

*Foothills Farm, Thorp..... 509-964-2515, 929-5334
 *Old Mill Country Store, Ellensburg..... 509-925-5397

KLICKITAT COUNTY

**Jensen Seed Farm, Inc., Bickleton..... 509-896-2312
 Mid Columbia Producers, Inc., Goldendale..... 541-442-5555
 Centerville..... 541-442-5555

LINCOLN COUNTY

**AgVentures, Harrington..... 509-253-4604
 AgVentures, Odessa..... 509-982-2691
 **Almira Farmers Warehouse, Almira..... 509-639-2431
 **Central Washington Grain Growers, Inc., Wilbur..... 509-647-5510
 **Davenport Union Warehouse Company, Davenport..... 509-725-7081
 **McKay Seed Company, Inc., Almira..... 509-639-2293
 **Ritzville Seed, LLC, Odessa..... 509-982-2661
 **Reardan Seed Company, Inc., Reardan..... 509-796-2575

SNOHOMISH COUNTY

**Marine View Farms, Stanwood..... 360-629-3952

SPOKANE COUNTY

**Co-Ag, Fairfield..... 509-283-2333
 **Custom Seed Conditioning, Inc., Elk (Portable)..... 509-292-2506
 **Hager Seed Processing, Inc., Oakesdale (Portable)..... 509-999-SEED, 509-285-4243
 Primeland, Rockford..... 509-291-5511
 *Spokane Seed Company, Spokane..... 509-535-3671
 **WSCIA Foundation Seed Service, WSU Seedhouse, Pullman 509-335-4365

WASHINGTON SEEDSMEN FOR CERTIFIED SEED OF FIELD PEA, LENTIL, and SMALL GRAIN²

*Plant approved for conditioning certified seed.

**Plant approved for conditioning certified seed which has acceptable automatic mechanical seed sampler.

WALLA WALLA COUNTY

**Blue Mountain Seed, Inc., Walla Walla.....	509-529-3366
**Northwest Grain Growers, Inc., Walla Walla.....	509-525-6510
**Tomco Seed, Clyde/Prescott.....	509-749-2237
Walla Walla (Hwy 125).....	509-749-2237
Walla Walla (Airport).....	509-529-6787
Adams, OR.....	541-566-3522

WHITMAN COUNTY

*BNP Lentil Company, Farmington.....	509-287-2711
**Co-Ag, Oakesdale.....	509-285-5516
Garfield.....	509-635-1227
Rosalia.....	509-523-3511
**Columbia Grain, Pullman.....	509-332-1000
**Hager Seed Processing, Inc., Oakesdale.....	509-999-SEED, 509-285-4243
**Johnson Seed, LLC, Garfield.....	509-290-3649, 509-635-0107
**McKay Seed Company, Inc., Rosalia.....	509-523-3471
Ritzville Seed, LLC, Lacrosse.....	509-549-3541
**RMK Farms, Inc., Oakesdale.....	509-285-5521
**Whitgro, Inc., St. John.....	509-648-3713
**StateLineProcessors, Inc., Tekoa.....	509-284-4101
Tomco Seed, Lacrosse.....	509-549-3545
**Uniontown Cooperative Assn., Uniontown.....	509-229-3828
**PNW Farmers Co-op, Steptoe.....	509-397-4664

YAKIMA COUNTY

Bleyhl Farm Service, Grandview.....	509-865-2248
Sunnyside.....	509-837-5755
Toppenish.....	509-865-2700
Zillah.....	509-829-6922
Connell Grain Growers, Inc., Toppenish.....	509-865-2451
Golden West Seed Co., Inc., Zillah.....	509-829-9500
**Tri-WestSpecialties, LLC, Harrah.....	509-848-2842
Yakima Co-op, Yakima.....	509-457-3333

REFERENCES:

1. Related information on small grain varieties
<http://variety.wsu.edu/> • <http://smallgrains.wsu.edu/variety/>
2. Washington State Crop Improvement Association <http://washingtoncrop.com/>

Sponsors





College of Agricultural, Human, and Natural Resource Sciences

Use pesticides with care. Apply them only to plants, animals, or sites as listed on the label. When mixing and applying pesticides, follow all label precautions to protect yourself and others around you. It is a violation of the law to disregard label directions. If pesticides are spilled on skin or clothing, remove clothing and wash skin thoroughly. Store pesticides in their original containers and keep them out of the reach of children, pets, and livestock.

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