

**2008-09 On-Farm
Soft White Winter Wheat Variety Demonstration Trial
Three Locations in North Central Idaho
Dryland—Non-irrigated**

Kendrick/Leland, Lewiston/Tammany, Genesee/Rimrock

*Larry J. Smith, University of Idaho Extension/Nez Perce County
Idaho Wheat Commission*

Cooperators: Robert & Chris Blair, Blair Farms, Kendrick/Leland, Idaho
Art & Doug McIntosh, TriMax Associates--McIntosh Farm, Lewiston/Tammany, Idaho
Bob Bumgarner, Bumgarner Farm, Genesee/Rimrock, Idaho
Bob Brown, UI/Nez Perce County Extension Tech Support

Seed Processor Cooperators:
Pacific Northwest Cooperative, Genesee, Idaho
Primeland Cooperatives, Lewiston, Idaho
UI Foundation Seed Program, Kimberly, Idaho
WSU Foundation Seed, Pullman, Washington

**Average Seed Yield, Average Test Weight, Average Percent Seed Protein
Across Three Locations in North Central Idaho
Dryland—Non-irrigated**

Variety	Average Yield bushels/acre	Average Test Weight pounds/bushel	Average Percent Protein Percent
WB 528 (WestBred, LLC)	85	61.80	9.73
Simon (UI)	82	60.57	10.47
Brundage 96 (UI)	79	58.97	10.63
Mohler (WestBred, LLC)	79	59.70	10.10
Salute (AgriPro)	79	57.17	11.17
Xerpha (WSU)	78	59.50	10.43
ORCF 102 CL (OSU Clearfield)	77	59.67	10.77
AP700CL (AgriPro Clearfield)	77	57.90	10.70
Coda (USDA-ARS, WSU club wheat)	73	61.17	10.33
Average	78.78	59.61	10.48



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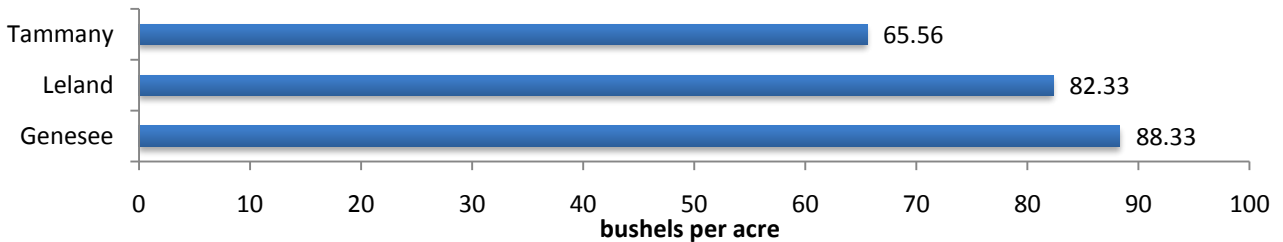
Seed Yield

Seed Yield across 3 locations for Soft White Winter Wheat

Variety	Tammany	Leland	Genesee	Average	
	-----bushels per acre-----				
Coda	57	76	85	72.67	A
AP700CL	57	82	91	76.67	A
ORCF 102 CL	62	87	83	77.33	A
Xerpha	45	88	102	78.33	A
Salute	64	82	90	78.67	A
Mohler	70	81	87	79.33	A
Brundage 96	64	84	90	79.33	A
Simon	88	80	77	81.67	A
WB 528	83	81	90	84.67	A
Average	65.56	82.33	88.33	78.74	

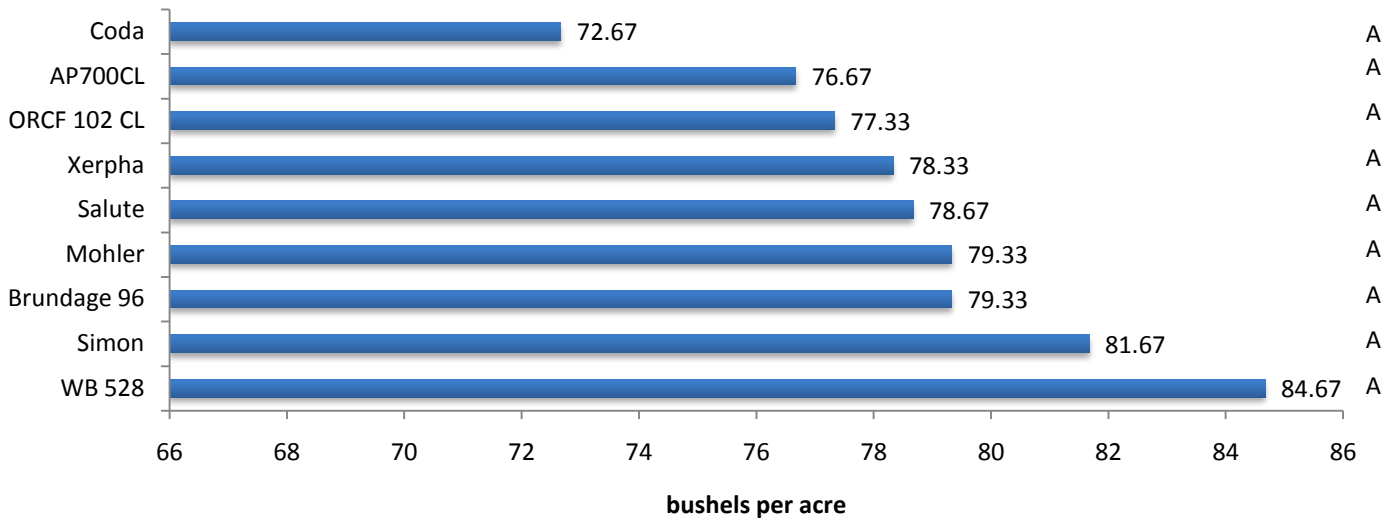
LSD (5%) = 17.47 bushels per acre C.V. = 12.81%

Average Total Seed Yield--Soft White Winter Wheat--3 Locations



Comments:

Average Seed Yield Across 3 Locations



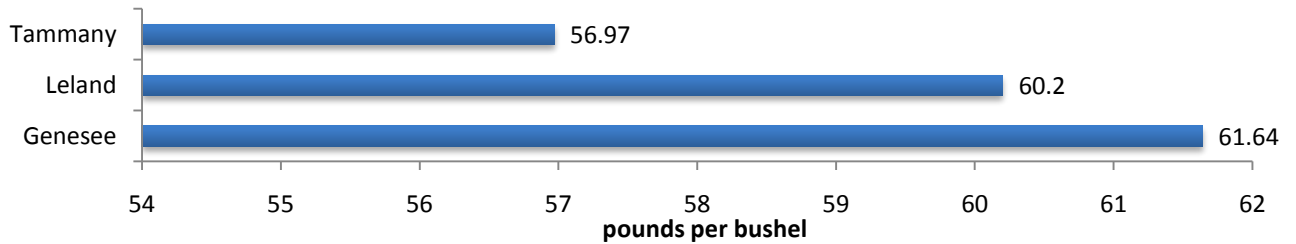
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Test Weight

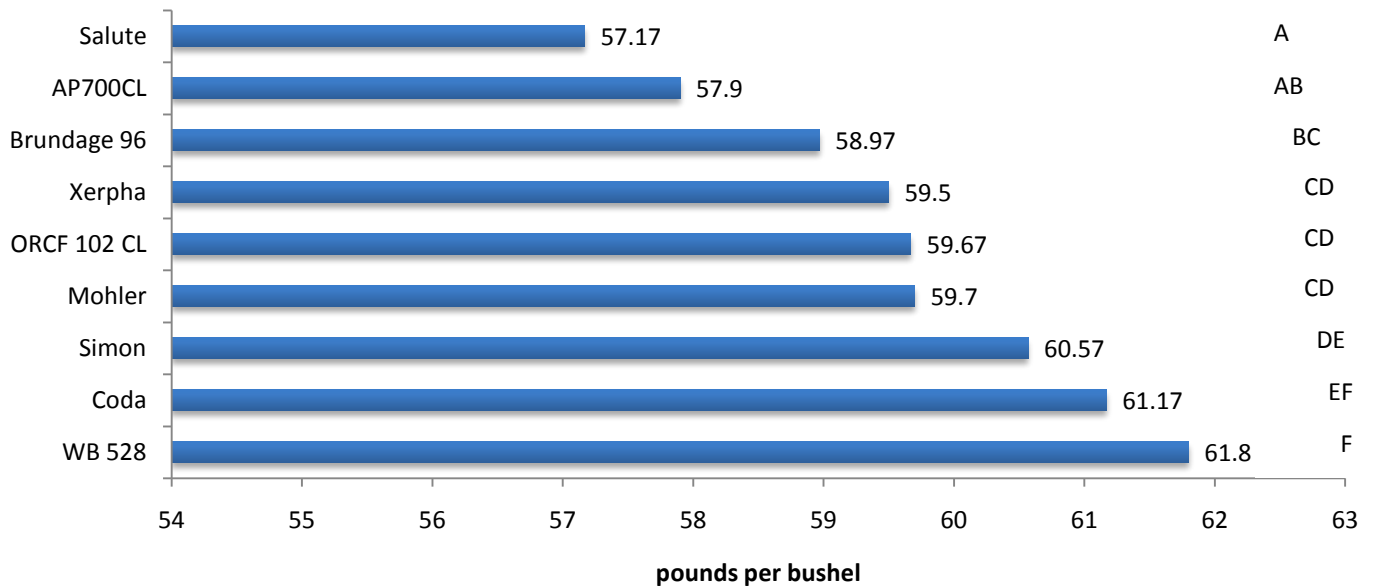
Test Weight across 3 locations for Soft White Winter Wheat

Variety	Tammany	Leland	Genesee	Average	
	-----pounds per bushel-----				
Salute	54.0	57.4	60.1	57.17	A
AP700CL	54.2	59.4	60.1	57.90	AB
Brundage 96	56.3	59.1	61.5	58.97	BC
Xerpha	56.8	60.2	61.5	59.50	CD
ORCF 102 CL	57.3	59.7	62.0	59.67	CD
Mohler	56.7	60.4	62.0	59.70	CD
Simon	58.4	61.1	62.2	60.57	DE
Coda	58.7	62.2	62.6	61.17	EF
WB 528	60.3	62.3	62.8	61.80	F
Average	56.97	60.2	61.64	59.61	
LSD (5%) = 1.20 pounds per bushel	C.V. = 1.16%				

Average Total Test Weight-Soft White Winter Wheat--3 Locations



Average Test Weight Across 3 Locations



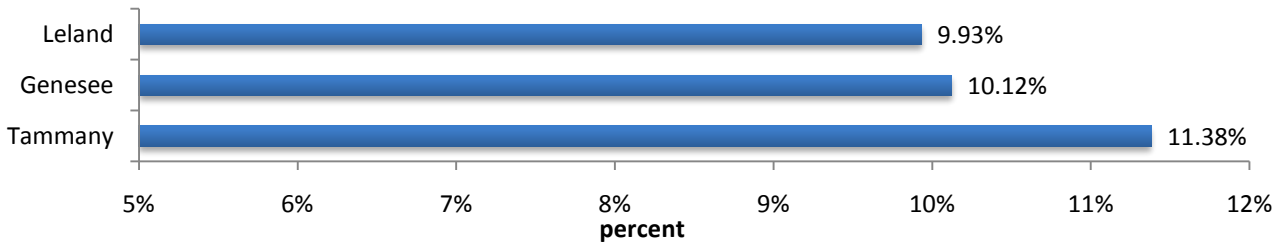
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Percent Seed Protein

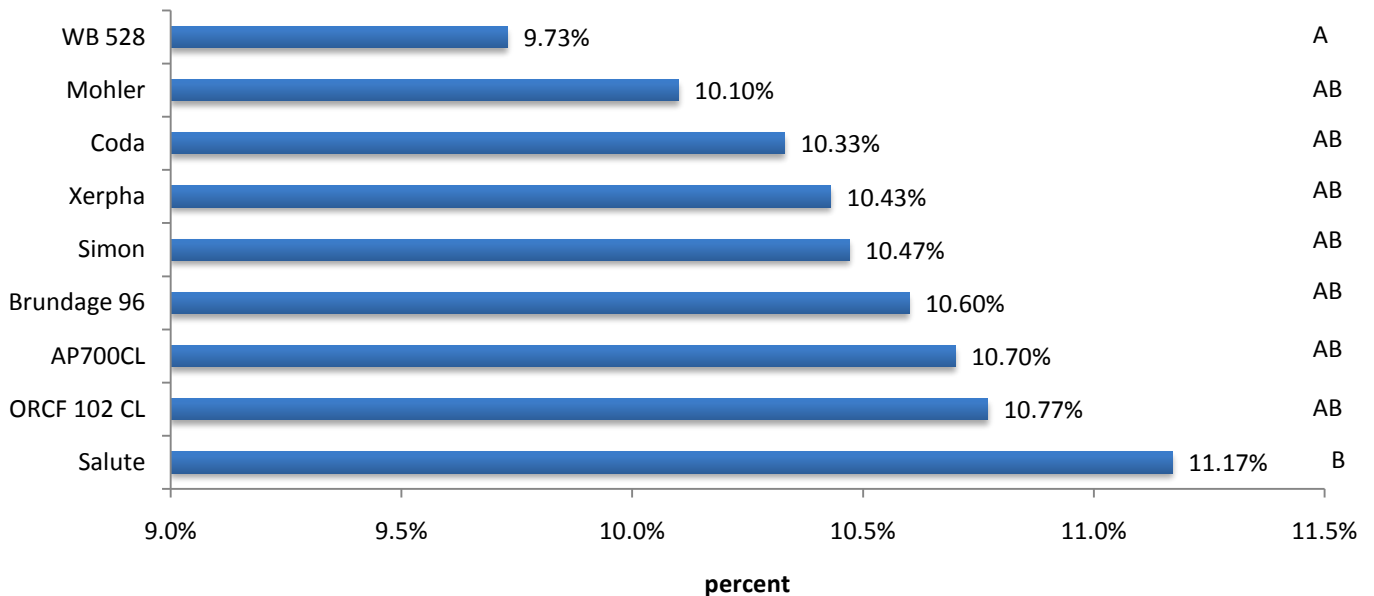
Percent Seed Protein across 3 locations for Soft White Winter Wheat

Variety	Tammany	Leland	Genesee	Average	
	-----percent-----				
WB 528	9.4	9.7	10.1	9.73	A
Mohler	10.2	9.9	10.2	10.10	AB
Coda	11.1	9.9	10.0	10.33	AB
Xerpha	12.4	9.10	9.8	10.43	AB
Simon	11.3	9.7	10.4	10.47	AB
Brundage 96	11.3	10.5	10.0	10.60	AB
AP700CL	12.1	9.7	10.3	10.70	AB
ORCF 102 CL	11.3	10.7	10.3	10.77	AB
Salute	13.3	10.2	10.0	11.17	B
Average	11.38	9.93	10.12	10.48	
LSD (5%) = 1.28	C.V. = 7.06%				

Average Percent Seed Protein-Soft White Winter Wheat--3 Locations



Average Percent Seed Protein Across 3 Locations



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Soft White Winter Wheat Varieties Tested & Descriptions

AgriPro AP700 CL CLEARFIELD Production System Soft White Winter Wheat

- High yield potential with good straw strength
- Early maturity with good test weight
- Good 2006 and 2007 snow mold tolerance at St. Andrews and Waterville, respectively
- Good stripe rust resistance
- Good yields in both high and intermediate rainfall
- Imi tolerant for grassy weed control

AgriPro Salute

An AgriPro release with snow mold tolerance. Salute has very good winter hardiness and a very high yield potential in intermediate to higher rainfall regions. With a strong disease package and early emergence, it adds economic value over other soft white winter wheat varieties. With a medium to early maturity, Salute can be used to complement other maturities on your farm. Broadly adapted, Salute has performed very well all across eastern Washington, north of Highway 2, and northern Idaho.

Very high yield potential; Medium maturity; Good stripe rust resistance; Good straw strength; Well adapted

Brundage 96 (ID-B-96)

A Brundage re-selection from the University of Idaho Moscow program of Bob Zemetra. It has improved stripe rust resistance as compared to Brundage. Like Brundage it is also an awnless, short semi-dwarf with superior end use quality. It has good winter hardiness and matures similar to Stephens. Test weight is poorer than Brundage and less even than Stephens. Brundage 96 together with Brundage is apparently less tolerable of moisture stress than Stephens. It is lower yielding than irrigated Stephens, particularly under late planting conditions.

Coda (WA7752 Club)

1998 WSU release. Awned. High yield potential for dryland. Strawbreaker foot rot and stripe rust resistant.

Lambert

A white-chaffed, awned, semidwarf variety released by University of Idaho AES, USDA-ARS in 1993. Lambert is an early maturing variety with above average height. It is primarily intended for use in northern Idaho. Lambert can be grown under irrigation but plant height may prevent use with wheel lines. In southern Idaho dryland trials, Lambert yields have been higher than Sprague and Eltan in a limited number of trials. Lambert is resistant to stripe rust and has some tolerance to Cephalosporium stripe. Lambert is susceptible to dwarf bunt and has moderate tolerance to snow mold. It should not be used where dwarf bunt is prevalent. Protein content of Lambert is equal to Stephens and higher than Kmor and Eltan. Milling and baking quality is considered excellent.

Mohler

Mohler is a soft white winter wheat for the Palouse region of eastern Washington and northern Idaho. Mohler is a high yielding variety adapted to a wide range of growing conditions. This variety also has good winter hardiness and is several days earlier than Madsen. Mohler has resistance to strawbreaker foot rot and is resistant to leaf and stripe rust. This variety thrashes very clean, and the straw breaks down more easily than Madsen.

ORCF 102 (OSU Clearfield)

An imidazolinone-tolerant cultivar. Awne, white chaff, medium-tall height, mid season maturity, winter hardiness similar to Stephens. Resistant to strip rust. Release Year: 2004 Provider: OR

Simon (ID034302A)

A 2003 UI release from Bob Zemetra. Simon is a replacement for Madsen that is earlier maturing. The first UI release with foot rot resistance, Simon has good Cephalosporium stripe and stripe rust resistance. It is taller than Stephens but has good straw strength and lodging resistance. Test weight is better than Stephens.

WestBred 528 (BZ6W98-528)

A WestBred release available fall 2005. WestBred 528 yields as well as and has lodging resistance comparable to Stephens. WestBred 528 has excellent test weight and good baking and milling quality.

Xerpha

A WSU Steve Jones 2008 release that is widely adapted to irrigated and dryland conditions throughout Washington and Oregon. Quality is acceptable for a soft white winter wheat. Xerpha, was named after a former WSU botanist, and wife of Edward Gaines, a former WSU agronomist.