



## **2015 Small Grain and Grain Legume Report**

**Northern Idaho Small Grain and Grain Legume Research and Extension Program**

*Kurtis Schroeder, David White, and Doug Finkelnburg*

Cover: Harvesting a spring pea variety trial south of Genesee, Idaho.

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*Northern Idaho Small Grain and Grain Legume  
Research and Extension Program*

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Idaho Wheat Commission  
USA Pea and Lentil Council  
Idaho Barley Commission

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Kurt Blume – Genesee  
Brett Poxleitner – Genesee  
Russ Zenner – Genesee  
Clint Zenner – Genesee  
John Frei – Ferdinand  
Bert Henriksen – Lewiston  
Neil Uptmore – Lewiston  
Chad Doggett – Nezperce  
Doug Bruce – Tensed

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## **Introduction**

This report summarizes the performance of winter wheat, spring wheat, winter barley, spring barley, winter pea, spring pea, lentil and chickpea varieties tested in extension variety trials conducted in northern Idaho during the 2014-2015 crop season. The variety trials were located in cooperators' fields at 9 test sites in Lewis, Nez Perce, Latah, Benewah and Boundary counties and on the University of Idaho Research and Extension Center farm in Moscow (Plant Science Farm).

Plant breeding and extension testing programs strive to increase yield potential through enhanced disease and insect resistance, winter hardiness, straw strength and other agronomic factors. In addition, varieties are developed for improved end-use quality and new markets. A more detailed description of variety development, cooperative extension testing and evaluation, and seed production programs is given in the University of Idaho publication CIS 976 titled, "Small Grain Variety Development and Adaptation in Idaho". Additional variety performance data for northern Idaho and the rest of the state can be viewed at the website [www.extension.uidaho.edu/cereals](http://www.extension.uidaho.edu/cereals). The northern Idaho Extension variety-testing program evaluates the relative performance of cereal and legume varieties grown in various northern Idaho environments under a range of commercial production conditions. Breeding lines that have shown promise through regional, public and private testing programs are evaluated along with leading commercially released varieties.

Increased field crop yield is the result of a combination of improved agronomic practices and advances in variety development. Trials reported in this publication help producers compare new varieties with widely grown varieties using field production practices common for their area. The provided information represents crop performance results from specific locations, production practices, and environmental conditions. Relative performance of varieties can change when tested under other environments and production practices. Evaluation of any variety included in these trials should not be construed as recommending any variety over varieties not included in the trials.

## **Cereal Test Procedures**

Seven winter cereal trials were planted in northern Idaho in the fall of 2014 and eight spring cereal trials were planted in the spring of 2015. For each crop, the seeding rate for all entries was a uniform number of seeds planted per square foot (spsf). These rates were determined by weighing 300 seeds of each cereal variety. Winter wheat and spring barley were planted at 23 spsf, spring wheat at 28 spsf, and winter barley at 21 spsf. Winter wheat, winter barley, spring wheat, and spring barley seeds were treated with Vibrance Extreme at 4 oz/100 lbs seed plus Dynashield at 0.26 oz/100 lbs seed. All plots were seeded 20 feet long. Plots in conventional tillage systems were seeded on 5-foot centers using a double-disc opener with 7 rows, 7-inches apart. Direct-seeded trials had five paired rows with 3-inch spacing and 10-inch from center to center of each opener. The direct-seed drill is equipped with Flexi-Coil Stealth openers that allow fertilizer to be banded below and between the paired rows. Typical cereal seeding depth varied from 0.75 to 1.5 inches depending on soil texture and moisture conditions. At each location, each variety entry was replicated four times in a randomized complete block design. After plants were well established, the beds were cut back to a plot size length of 15 feet with an application of glyphosate using a tractor-mounted, shielded sprayer between plots. For most trials conducted in collaboration with a grower cooperator, pesticides were applied by the grower while treating the remainder of the field surrounding the trial. Fertilizers and pesticides used in the trials are listed in Table 1 for the sites where the information was provided. Planting and harvesting operations by University of Idaho personnel were timed to approximately coincide with the cooperator's operations.



Prior to harvest, mature plant height was recorded, each plot was evaluated for lodging and plot length was measured to more accurately determine the harvestable area for each plot. Cereal plant height is the length of the plant from the soil surface to the tip of the head (awns excluded). For lodging, the affected area was scored from 0% to 100%, with 0% equal to no lodging and 100% being completely lodged. After harvest, each small grain entry at each location was evaluated for grain yield and test weight. Cereal test weight was reported in pounds per standard bushel. Cereal yields were reported in bushels per acre, using the standard 60 pounds per bushel conversion factor for wheat and 48 pounds per bushel for barley. Percentage grain plumps and thins were measured for barley. Plumpness is the percent of the sample that stayed on top of a 6/64-inch slotted screen after shaking. Thin percentage is the portion of the sample that went through a 5.5/64-inch slotted screen. Protein and kernel hardness were determined from a composite sample of four replications from each site for both winter and spring wheat. Wheat whole grain protein at 12% moisture was measured at the University of Idaho Wheat Quality Laboratory at Aberdeen using Near Infrared Spectrometry (NIRS) technology. Kernel hardness was also determined by NIRS. Values under 35 indicate soft wheat, and values above 35 indicate hard wheat.

### **Legume Test Procedures**

In the fall of 2014, two winter pea trials were established using a seeding rate of 10 spsf. In the spring of 2015, spring pea, lentil and chickpea trials were seeded near Craigmont, Genesee and Moscow. For each legume variety, 300 seeds were weighed and seeding rates calculated to give a uniform planting density of pea at 8 spsf, lentil at 8 spsf, and chickpea at 5 spsf. Spring pea and lentil seed were treated with an Apron (0.16 oz/cwt), Maxim (0.08 oz/cwt), Cruiser (0.5 oz/cwt), and molybdenum (0.1 oz/cwt) mix; and chickpea seed was treated Apron (0.2 oz/cwt), Maxim (0.08 oz/cwt), Mertect (2.04 oz/cwt), Cruiser (0.5 oz/cwt), and molybdenum (0.1 oz/cwt). All winter and spring legume plots were established in beds similar to the cereal trials; they were planted on 20-ft long beds that were cut back to 15-ft plots. Planting depths were between 1 and 2 inches for lentils and between 1.5 and 2.5 inches for pea and chickpea. Due to wider row spacing between plots, particularly for peas, chemical weed control was supplemented with hand weeding when necessary. Legumes were evaluated for vine length (pea) or plant height (lentil and chickpea), canopy height, seed yield, 100-seed weight and seed size (chickpea only). Lentil or chickpea plant height or pea vine lengths were measured from the soil surface to the end of the growing point on the main stem. Plant height and vine length measurements were recorded several weeks prior to harvest when plant tissue was green. Pea and lentil canopy height was measured from the soil surface to the average height of the canopy immediately prior to harvest. Seed yields were expressed in pounds per acre. Chickpea seed was sized by shaking 250 g of seed through screens. The screen sizes included 25/64", 22/64" and 20/64".

### **Statistical Interpretation**

Data in the tables is sorted by yield with the highest yielding entries listed first. The overall trial average is shown at the bottom of each table. The least significant difference (LSD) and the coefficient of variation (CV) are listed. The LSD is given at the 5 percent error level and aids in comparing varieties. If the measured values of any two varieties within a column differ by the LSD value or greater, they may be considered different with a confidence level of 95%. If the measured values are less than the LSD value, the differences may be due to random error rather than actual varietal differences. If no significant statistical differences were found among varieties, 'ns' (not significant) is shown for the LSD. The CV listed in the tables is given as a general measurement of the precision of each experiment. Lower CV percentage values indicate lower experimental variation and greater precision. A higher CV value indicates abnormal variation within the trial that could be due to external factors such as animal grazing, hail damage or other variable stress on the plants. CV values were not averaged across trials or years.



Variety choice should take into consideration as much performance data as possible with comparisons across years and locations. In addition to yield, other factors such as end use quality, disease and insect resistance, lodging tendency, maturity, plant height, winter hardiness, test weight, and any observations from grower experience can be used in deciding on which variety to plant. Due to seasonal variation, caution should be taken when looking at the results from a single growing season.

### **Growing Conditions and Factors Affecting Trial Results**

Fall cereal trials were planted from late September to mid-October. Winter wheat stands were well established at all locations. Fall temperatures were above normal. However, there were significant cold events in November and December with little to no snow cover. As a result, winter injury was observed at most locations for wheat, barley and pea. Despite the cold injury, all entries survived the winter with minimal to moderate reductions in plant density. Early winter precipitation was near normal, but the latter portion of winter was above normal and drier than normal. The spring and early summer were unusually dry, and unseasonably high temperatures were observed in late June and early July. Winter wheat yields were near normal with the exception of Lewiston which was above normal, benefiting from the warmer spring and timely rain, and Nezperce which was negatively impacted by dry, hot conditions. Spring crops were seeded in early to late April with the exception of the Craigmont legume trial which was seeded in early May. As a result of dry, hot conditions in 2015, there was significant injury to spring cereals and legumes. The yields for spring cereals and in some cases, the test weights are below normal. In addition, the heat resulted in the loss of blossoms, reducing the yield of spring and winter legumes at most locations.

Harvest for 2015 was early and was not influenced by weather events with the exception of a hailstorm that impacted the spring legumes in Genesee. No sprouting was observed in cereal crops. Due to widespread wildfires in northern Idaho during August of 2015, the lentil and chickpea trials at Craigmont were lost. The lentil trial at Moscow was also lost due to metribuzin injury following a series of significant rain events in late May.

Stripe-rust was rarely observed in winter or spring wheat due to a combination of unfavorable winter conditions and dry spring weather. With the exception of Bonners Ferry, environmental conditions were not conducive for disease development. Winter and spring plots were managed for stripe rust in Bonners Ferry, so very few symptoms were evident. Physiological leaf spot (PLS), an abiotic stress due to chloride deficiency, was observed in some wheat plots in 2015, but was not scored.

Average winter wheat yields in 2015 were 8 bu/A higher than the 3-year average for north Idaho. However, due to significant abiotic stresses mentioned above, the yield of spring crops was negatively impacted. The average spring wheat yield was 25 bu/A below the 3-year average and spring barley was 16 bu/A below the 3-year average. Likewise, the spring legume yield was well below the 3-year average for pea (1255 lb/A below), lentil (360 lb/A below) and chickpea (1009 lb/A below).

Specific trial locations and management practices used at each of the trial locations are listed in Table 1. A summary of released varieties tested during the 2014-2015 growing season is listed in Table 2. All data reported in Tables 3 to 42 have the yield for the individual location or north Idaho (multi-location) average yield list in order from highest to lowest yielding varieties.

**Table 1. Trial locations and management information for the 2014-2015 Northern Idaho Extension variety trials.**

County	Nursery Location	Rainfall Zone (inches)	Elevation (feet)	Production System	Planting Date	Harvest Date	Previous Crop	Fertilizer N-P-K-S (lb/A)*	-----Chemical-----	
									Product Name	Rate
<b><u>Winter Cereals - Soft White Winter Wheat</u></b>										
Lewis	Nezperce	22"	3200'	Conventional Tillage	10/7/14	8/10/15	Canola	80-30-0-20 (f)	Affinity Huskie Axial XL Priaxor	0.8 oz/A 12 oz/A 16.4 oz/A 4 oz/A
Nez Perce	Lewiston (Tammany)	14"	1660'	Conventional Tillage	10/7/14	7/10/15	Fallow	87-15-0-14 (f)	Piaxor Tilt	2 oz/A 2 oz/A
Nez Perce	Genesee	20"	2700'	Direct Seed	10/18/14	7/17/15	Chickpea	120-20-0-20 + 10 lb Cl/A (f)	Affinity Huskie Axial XL Priaxor	0.8 oz/A 12 oz/A 16.4 oz/A 4 oz/A
Latah	Moscow	20"	2850'	Conventional Tillage	10/18/14	7/27/15	Fallow	93-30-0-22 (f)	Huskie Affinity Axial XL Priaxor	12 oz/A 0.8 oz/A 16.4 oz/A 4 oz/A
Benewah	Tensed	27"	2600'	Conventional Tillage	10/8/14	8/7/15	Lentils	131-32-0-22 (f)	Osprey Bronate Peak Tilt	4.5 oz/A 12 oz/A 3 oz/A 4 oz/A
Boundary	Bonniers Ferry	25"	1750'	Direct Seed	9/27/14	7/30/15	Canola	15-15-20-6 (f) 40-0-0-6 (s)	PowerFlex Wild Card Boron Tilt	2.0 oz/A 1 pt/A 1 qt/A 4 oz/A

\* (f) = fall applied, (s) = spring applied.

**Table 1 (continued). Trial locations and management information for the 2014-2015 Northern Idaho Extension variety trials.**

County	Nursery Location	Rainfall Zone (inches)	Elevation (feet)	Production System	Planting Date	Harvest Date	Previous Crop	Fertilizer N-P-K-S (lb/A)	-----Chemical-----	
									Product Name	Rate
<b><u>Winter Cereals - Hard Winter Wheat</u></b>										
Lewis	Nezperce	22"	3200'	Conventional Tillage	10/7/14	8/10/15	Canola	80-30-0-20 (f) 30-0-0-6 (s)	Affinity Huskie Axial XL Priaxor	0.8 oz/A 12 oz/A 16.4 oz/A 4 oz/A
Nez Perce	Lewiston (Tammany)	14"	1660'	Conventional Tillage	10/7/14	7/10/15	Fallow	87-15-0-14 (f) 30-0-0-6 (s)	Priaxor Tilt	2 oz/A 2 oz/A
Nez Perce	Genesee	20"	2700'	Conventional Tillage	10/18/14	7/17/15	Chickpea	120-20-0-20 + 10 lb Cl/A (f) 40-0-0-0 (s)	Affinity Huskie Axial XL Priaxor	0.8 oz/A 12 oz/A 16.4 oz/A 4 oz/A
Latah	Moscow	20"	2850'	Conventional Tillage	10/18/14	7/27/15	Fallow	93-30-0-22 (f) 40-0-0-0 (s)	Huskie Affinity Axial XL Priaxor	12 oz/A 0.8 oz/A 16.4 oz/A 4 oz/A
Benewah	Tensed	27"	2600'	Conventional Tillage	10/8/14	8/7/15	Lentils	131-32-0-22 (f) 60-0-0-6 (s)	Osprey Bronate Peak Tilt	4.5 oz/A 12 oz/A 3 oz/A 4 oz/A
Boundary	Bonnars Ferry	25"	1750'	Direct Seed	9/27/14	7/30/15	Canola	15-15-20-6 (f) 80-0-0-6 (s)	PowerFlex Wild Card Boron Tilt	2.0 oz/A 1 pt/A 1 qt/A 4 oz/A

\* (f) = fall applied, (s) = spring applied.

**Table 1 (continued). Trial locations and management information for the 2014-2015 Northern Idaho Extension variety trials.**

County	Nursery Location	Rainfall Zone (inches)	Elevation (feet)	Production System	Planting Date	Harvest Date	Previous Crop	Fertilizer N-P-K-S (lb/A)*	-----Chemical-----	
									Product Name	Rate
<b><u>Spring Cereals - Soft Spring Wheat</u></b>										
Lewis	Craigmont	22"	3650'	Conventional Tillage	4/17/15	8/21/15	W. Wheat	80-26-0-20 (s)	Roundup	20 oz/A
Nez Perce	Genesee	20"	2650'	Direct Seed	4/3/15	8/31/15	W. Wheat	60-0-0-9 (f) 11-52-0-0 (s)	Roundup Orion Affinity Huskie Starane	20 oz/A 16.4 oz/A 0.8 oz/A 15 oz/A 8 oz/A
Latah	Moscow	24"	2630'	Conventional Tillage	4/24/15	8/18/15	S. Oats	na	Huskie Orion	14 oz/A 17 oz/A
Boundary	Bonnars Ferry	25"	1750'	Conventional Tillage	4/21/15	8/14/15	W. Wheat	na	Everest Wild Card Tilt Evito	1 oz/A 25 oz/A 2 oz/A 1 oz/A
<b><u>Spring Cereals - Hard Spring Wheat</u></b>										
Lewis	Craigmont	22"	3650'	Conventional Tillage	4/17/15	8/21/15	W. Wheat	100-26-0-20 (s)	Roundup	20 oz/A
Nez Perce	Genesee	20"	2650'	Direct Seed	4/3/15	8/31/15	W. Wheat	60-0-0-9 (f) 11-52-0-0 (s)	Roundup Orion Affinity Huskie Starane	20 oz/A 16.4 oz/A 0.8 oz/A 15 oz/A 8 oz/A
Latah	Moscow	24"	2630'	Conventional Tillage	4/24/15	8/18/15	S. Oats	na	Huskie Orion	14 oz/A 17 oz/A
Boundary	Bonnars Ferry	25"	1750'	Conventional Tillage	4/21/15	8/14/15	W. Wheat	na	Everest Wild Card Tilt Evito	1 oz/A 25 oz/A 2 oz/A 1 oz/A

\* (f) = fall applied, (s) = spring applied.

**Table 1 (continued). Trial locations and management information for the 2014-2015 Northern Idaho Extension variety trials.**

County	Nursery Location	Rainfall Zone (inches)	Elevation (feet)	Production System	Planting Date	Harvest Date	Previous Crop	Fertilizer N-P-K-S (lb/A)*	-----Chemical-----	
									Product Name	Rate
<b><u>Spring Cereals - Spring Barley</u></b>										
Lewis	Craigmont	22"	3650'	Conventional Tillage	4/17/15	8/21/15	W. Wheat	70-26-0-17 (s)	Roundup	20 oz/A
Nez Perce	Genesee	20"	2650'	Direct Seed	4/3/15	8/31/15	W. Wheat	60-0-0-9 (f) 11-52-0-0 (s)	Roundup Orion Affinity Huskie Starane	20 oz/A 16.4 oz/A 0.8 oz/A 15 oz/A 8 oz/A
Latah	Moscow	24"	2630'	Direct Seed	4/24/15	8/18/15	W. Wheat	80-26-0-17 (s)	Huskie Axial Orion	12 oz/A 16.4 oz/A 17 oz/A
Boundary	Bonnors Ferry	25"	1750'	Direct Seed	4/21/15	8/14/15	W. Wheat	na	Everest Wild Card Tilt Evito	1 oz/A 25 oz/A 2 oz/A 1 oz/A

\* (f) = fall applied, (s) = spring applied.

**Table 1 (continued). Trial locations and management information for the 2014-2015 Northern Idaho Extension variety trials.**

County	Nursery Location	Rainfall Zone (inches)	Elevation (feet)	Production System	Planting Date	Harvest Date	Previous Crop	Fertilizer N-P-K-S (lb/A)*	-----Chemical-----	
									Product Name	Rate**
<b><u>Legumes - Winter Peas</u></b>										
Latah	Moscow	24"	2630'	Direct Seed	4/24/15	8/18/15	S. Barley	None	Metribuzin Sharpen	5 oz/A PrePl 2 oz/A
Idaho	Ferdinand	22"	4236'	Conventional Tillage	10/3/14	7/29/15		None	Roundup Sharpen Sencor Tricor Warrior II	20 oz/A PrePl 1 oz/A PreEm 1/3 lb/A PreEm 6 oz/A PreEm 1.9 oz/A

\* (f) = fall applied, (s) = spring applied.

\*\* PreEm = Pre-emergence, PrePl = Pre-plant.

**Table 1 (continued). Trial locations and management information for the 2014-2015 Northern Idaho Extension variety trials.**

County	Nursery Location	Rainfall Zone (inches)	Elevation (feet)	Production System	Planting Date	Harvest Date	Previous Crop	Fertilizer N-P-K-S (lb/A)*	-----Chemical-----	
									Product Name	Rate**
<b><u>Legumes - Spring Peas</u></b>										
Latah	Moscow	24"	2630'	Direct Seed	4/24/15	8/18/15	S. Barley	None	Metribuzin Sharpen	5 oz/A PrePl 2 oz/A
Nez Perce	Genesee	20"	2800'	Conventional Tillage	4/3/15	7/14/15	S. Wheat	None	Roundup Sharpen Sencor Tricor Warrior II	20 oz/A PrePl 1 oz/A PreEm 1/3 lb/A PreEm 6 oz/A PreEm 1.9 oz/A
Lewis	Craigmont	22"	3300'	Conventional Tillage	5/6/15	8/24/15	S. Wheat	None	Pursuit Sencor	2 oz/A PrePl 2 oz/A PreEm
<b><u>Legumes - Spring Lentils</u></b>										
Latah	Moscow	24"	2615'	Conventional Tillage	4/24/15	--	Lentils	None	Metribuzin	5 oz/A PreEm
Nez Perce	Genesee	20"	2600'	Direct Seed	4/20/15	7/14/15	S. Wheat	None	Roundup Sharpen Sencor Tricor Warrior II	20 oz/A PrePl 1 oz/A PreEm 1/3 lb/A PreEm 6 oz/A PreEm 1.9 oz/A
Lewis	Craigmont	22"	3300'	Conventional Tillage	5/6/15	--	S. Wheat	None	Pursuit	2 oz/A PrePl

\* (f) = fall applied, (s) = spring applied.

\*\* PreEm = Pre-emergence, PrePl = Pre-plant.



**Table 1 (continued). Trial locations and management information for the 2014-2015 Northern Idaho Extension variety trials.**

County	Nursery Location	Rainfall Zone (inches)	Elevation (feet)	Production System	Planting Date	Harvest Date	Previous Crop	Fertilizer N-P-K-S (lb/A)*	-----Chemical-----	
									Product Name	Rate**
<b><u>Legumes - Spring Chickpeas</u></b>										
Latah	Moscow	24"	2615'	Conventional Tillage	4/24/15	8/18/15	Lentils	None	Metribuzin Sharpen	8 oz/A PreEm 2 oz/A PreEm
Lewis	Craigmont	22"	3300'	Conventional Tillage	5/6/15	--	S. Wheat	None	Pursuit Sencor	2 oz/A PrePl 2 oz/A PreEm
Nez Perce	Genesee	20"	2600'	Direct Seed	4/20/15	7/14/15	S. Wheat	None	Roundup Sharpen Sencor Tricor Warrior II	20 oz/A PrePl 1 oz/A PreEm 1/3 lb/A PreEm 6 oz/A PreEm 1.9 oz/A

\* (f) = fall applied, (s) = spring applied.

\*\* PreEm = Pre-emergence, PrePl = Pre-plant.

**Table 2. Varieties tested in northern Idaho extension variety trials in 2014-2015.**

<b>Variety</b>	<b>Experimental No.</b>	<b>Year Released</b>	<b>Developer(s) of Variety</b>
<b>Soft White Winter Wheat</b>			
Amber	ARS960277L	2011	Washington AES, USDA
Bobtail	OR08047P94	2013	Oregon AES, USDA
Brundage-96	ID-B-96	2001	Idaho AES, USDA
Bruneau	ID 93-64901A	2009	Idaho AES, USDA
Crescent	ARS-970163-4C	2012	Washington State University/USDA-ARS
Norwest Duet	LOR-092	2016	Limagrain Cereal Seeds, Oregon AES, USDA
Kaseberg	OR2071628	2012	Oregon State University
LCS Artdeco	NSA-2153A	2011	Limagrain Cereal Seeds
LCS Biancor		2013	Limagrain Cereal Seeds
LCS Drive	LWW12-7105	2015	Limagrain Cereal Seeds
Madsen	WA 7163	1988	Washington AES, USDA
Norwest Duet	LOR-092	2016	Oregon AES, Limagrain Cereal Seeds
Puma	WA 8134	2013	Washington AES
Selbu	ARS-970161-3L	-	Washington State University/UYSDA-ARS
Rosalyn	OR2071071	2013	Oregon AES, USDA
Stephens	OR 65-116	1977	Oregon AES, USDA
UI Castle CLP	09-DH10	2015	Idaho AES, USDA
UI Magic CLP	09-DH11	2015	Idaho AES, USDA
UI Palouse CLP	3_5_10	2015	Idaho AES, USDA
UI/WSU Huffman	IDN-03-29902A	2014	Idaho AES, Washington AES
WB-Junction	BZ-6W02-616	2012	WestBred/Monsanto
WB-456		-	WestBred/Monsanto
WB-523	BU6WOO-523	2008	WestBred/Monsanto
WB-528		-	WestBred/Monsanto
WB-1529	BZ6WM07-436	2014	WestBred/Monsanto
WB-1604	BZ6WM09-458	2014	WestBred/Monsanto
<b>Hard Red and White (W) Winter Wheat</b>			
Boundary	IDO467	1997	Idaho AES, USDA
Keldin	AC55017	2011	WestBred/Monsanto
LCS Azimut	NSA97-2365	2007	Limagrain Cereal Seeds
LCS Colonia		2013	Limagrain Cereal Seeds
LCS Jet	NSA10-7208	2015	Limagrain Cereal Seeds
Norwest-553	ORN00B553	2007	Oregon State AES, USDA-ARSARS, Nickerson, UK
Rimrock	ACS 52025	-	WestBred/Monsanto
UI Silver (W)	IDO658	2011	Idaho AES, USDA
UI SRG	IDO656	2011	Idaho AES, USDA
WB-Arrowhead	ML9W05-2501	2011	WestBred/Monsanto

**Table 2 (cont). Varieties tested in northern Idaho extension variety trials in 2014-2015.**

<b>Variety</b>	<b>Experimental No.</b>	<b>Year Released</b>	<b>Developer(s) of Variety</b>
<b>Soft White Spring Wheat</b>			
Alturas	IDO 526	2002	Idaho AES, USDA
Babe	WA 8039	2009	Washington AES, USDA
Diva	WA 8090	2009	Washington AES, USDA
JD (club)	WA 8047	2009	Washington AES, USDA
Ryan	WA 8214	2016	Washington AES, USDA
Seahawk	WA 8162	2014	Washington AES, USDA
Tekoa	WA 8189	2016	Washington AES, USDA
UI-Stone	IDO599	2012	Idaho AES
WB6121	BZ608-121	2014	WestBred/Monsanto
WB6341	BZ608-125	2014	WestBred/Monsanto
WB6430		2011	WestBred/Monsanto
<b>Hard Red Spring Wheat</b>			
Alum	WA 8166	2014	Washington AES, USDA
Glee	WA 8074	2012	Washington AES, USDA
HRS 3361	05S0261-10	2013	Syngenta Seeds
HRS 3419		2014	Croplan by WinField
HRS 3504		2015	Croplan by WinField
HRS 3530		2015	Croplan by WinField
Jefferson	IDO 462	1998	Idaho AES, USDA
LCS Iron	11SB0096	2016	Limagrain Cereal Seeds
UI Winchester	IDO 578	2009	Idaho AES, USDA
WB9411	BZ908-418	2015	WestBred/Monsanto
WB9518	BZ908-485	2013	WestBred/Monsanto
WB9668	BZ908-552	2015	WestBred/Monsanto
<b>Hard White Spring Wheat</b>			
Dayn	WA 8123	2013	Washington AES, USDA
LCS Atomo		2014	Limagrain Cereal Seeds
LCS Star	08SB06568-B	2014	Limagrain Cereal Seeds
UI Platinum	IDO 694C	2014	Idaho AES, USDA
WB-Hartline	BZ903-445WP	2012	WestBred/Monsanto
WB7417		-	WestBred/Monsanto

**Table 2 (cont). Varieties tested in northern Idaho extension variety trials in 2014-2015.**

<b>Variety</b>	<b>Use</b>	<b>Experimental No.</b>	<b>Year Released</b>	<b>Developer(s) of Variety</b>
<b>Two-Row Winter Barley</b>				
Calypso	Malt	98NZ233	2014	
Charles	Malt	94Ab1274	2006	USDA-ARS, Aberdeen
Endeavor	Malt	95Ab2299	2008	Idaho AES, USDA
<b>Six-Row Winter Barley</b>				
Alba	Feed/Malt	OR77	2010	Oregon AES, USDA
Eight-Twelve	Feed	79Ab812	1988	Idaho AES, USDA
Maja*	Feed/Malt	OR81	2009	Oregon AES, USDA
Strider	Feed	ORW6	1998	Oregon AES, USDA
Sunstar Pride	Feed	SDM204-B	1995	Sunderman Breeding
Verdant	Forage	OR712	2014	Oregon AES, USDA
<b>Two-Row Spring Barley</b>				
Camas	Feed	ND 9147	1998	Idaho AES, USDA
CDC-Copeland	Malt	TR150	1999	University of Saskatchewan, Canada
Champion	Feed	YU-501-385D	2008	WestBred/Monsanto
Kardia	Food	2Ab09-X06F084-51	2015	Idaho AES, USDA
LCS Genie	Malt		2012	Limagrain Cereal Seeds
LCS Odyssey	Malt		2013	Limagrain Cereal Seeds
LCS Overture	Malt		2013	Limagrain Cereal Seeds
LCS Vespa	Feed		2010	Limagrain Cereal Seeds
Lenetah	Feed	01Ab11107	2007	Idaho AES, USDA
Lyon	Feed	05WA-316.K	2013	Washington AES, USDA
Merem	Malt	02Ab17271	2014	USDA-ARS, Idaho AES
Muir	Feed	07WA-601.6	2013	Washington AES, USDA
Salute	Food		-	WestBred/Monsanto
Tetonia	Feed	98Ab11720	2007	Idaho AES, USDA
Transit	Food	03AH3054-51	2010	Idaho AES, USDA
<b>Six-Row Spring Barley</b>				
BG012	Food		-	WestBred/Monsanto

\*Can be planted in spring or winter

**Table 2 (cont). Varieties tested in northern Idaho extension variety trials in 2014-2015.**

<b>Variety</b>	<b>Experimental No.</b>	<b>Year Released</b>	<b>Developer(s) of Variety</b>
<b>Chickpea</b>			
BillyBeans		2010	PNW Farmers Cooperative
Bronic		-	
CDC Orion		2010	University of Saskatchewan, Canada
CDC Frontier		2003	University of Saskatchewan, Canada
CDC Leader		2011	University of Saskatchewan, Canada
Nash	CA 04900843C	2013	USDA-ARS, Washington AES
Sawyer	CA 0090B347C	2010	USDA-ARS, Washington AES
Sierra	CA 9783152C	2001	USDA-ARS, Washington AES
<b>Lentil (<i>class</i>)</b>			
Avondale ( <i>Richlea</i> )	LC 10602300R	2012	USDA-ARS, Washington AES
Crimson ( <i>Turkish Red</i> )	LC 800024	1990	USDA-ARS, Washington AES
Eston ( <i>Eston</i> )		1980	University of Saskatchewan, Canada
Merrit ( <i>Laird</i> )	LC 460266B	2001	USDA-ARS, Washington AES
Morena ( <i>Pardina</i> )	LC 02601144P	2011	USDA-ARS, Washington AES
Pardina ( <i>Pardina</i> )		-	Spain
Richlea ( <i>Richlea</i> )		1994	University of Saskatchewan, Canada
<b>Winter Pea</b>			
Fenn		-	
Glacier		1984	Idaho AES
Granger	D258-1-2	1996	USDA-ARS, Washington AES
Icicle		2011	ProGene
Koyote		2014	ProGene
Melrose		1979	Idaho AES
Specter	PS9830F009	2006	USDA-ARS, Washington AES
Windham	PS98305358	2006	USDA-ARS, Washington AES
<b>Spring Green Pea</b>			
Aragorn		2007	ProGene
Ariel	NZ 4L25	2001	Crop and Food Research, New Zealand
Banner	Pro 031-7053	2007	ProGene
Columbian		-	Campbell Soup Co.
Ginny	Pro 091-7137	2014	ProGene
Greenwood	Pro 7040	2012	ProGene
Hampton	PS05100736	2014	USDA-ARS, Washington AES
<b>Spring Yellow Pea</b>			
Carousel	SW 995848	2004	ProGene

**Table 3. Soft white winter wheat variety performance results at Bonners Ferry, 2015.**

Variety or Selection	2014-2015 Crop Year						
	3-Year Average (bu/A)*	2-Year Average (bu/A)*	Seed Yield (bu/A)**	Test Weight (lb/bu)	Plant Height (in)	Seed Protein (%)	Hardness Score (0-100)
IDN-01-10704A		119	<b>114</b>	58.0	36	8.5	31
IDN-02-29001A		113	<b>113</b>	58.5	34	8.9	30
UI/WSU Huffman	104	112	<b>112</b>	56.8	34	8.1	26
IDN-06-02903B			<b>112</b>	58.4	32	7.6	18
Bruneau	104	116	<b>111</b>	56.7	34	7.2	16
IDN-06-03303B			<b>108</b>	57.1	34	8.6	21
Puma	103	108	<b>106</b>	57.6	37	8.4	26
Stephens	101	104	<b>106</b>	58.0	32	8.6	26
WB-Junction	96	110	<b>106</b>	58.4	32	8.3	22
IDN-06-18102A			<b>105</b>	56.8	33	8.6	31
UI Magic CLP (09-DH11)			<b>105</b>	59.6	32	8.3	24
WB-528			<b>105</b>	58.7	35	8.7	29
OR2080641		110	<b>105</b>	57.8	34	7.4	24
LOR-913			<b>104</b>	57.1	31	8.9	28
WB-1604	93	100	<b>104</b>	57.9	32	9.1	26
Brundage 96	93	103	<b>103</b>	57.9	33	8.8	23
Bobtail	94	101	<b>103</b>	55.2	31	7.0	12
Rosalyn	97	102	102	57.1	33	7.6	17
Amber	101	108	102	58.0	32	8.0	31
IDO1005			102	58.8	35	8.9	30
Madsen	95	104	101	57.9	34	8.4	25
UI Castle CLP (09-DH10)			100	59.6	35	8.4	21
Norwest Duet (LOR-092)			100	58.2	36	7.9	34
DAS004			100	57.9	33	8.2	31
WB-456			100	60.3	32	8.7	34
IDO1108DH	98	101	99	57.5	37	8.5	31
Kaseberg	99	102	99	57.6	32	7.2	12
WB1376 CLP (1030CLP)		101	99	61.0	35	9.8	33
LCS Drive (LWW12-7105)		102	98	56.3	27	8.4	28
WB-523	94	100	98	58.3	33	8.5	25
LOR-334			98	56.9	28	8.5	30
DAS003			97	57.6	34	8.5	27
Selbu			97	58.9	32	8.4	29
WB-1529	90	94	95	58.7	30	8.6	28
Jasper (WA8169)			95	55.7	32	8.5	25
Crescent	95	100	94	56.1	32	7.6	24
LCS Biancor	na	na	94	56.5	28	8.1	23
LOR-833			92	57.1	28	9.0	26
OR2090473		na	90	56.3	28	7.8	16
OR2100940			90	56.2	29	7.5	16
OR2080637		100	89	57.0	30	8.1	19
LOR-978			88	57.3	30	9.1	31
UI Palouse CLP (3_5_10)			88	57.8	31	8.0	15
LCS Artdeco	92	94	71	57.0	26	9.6	26
<b>Average</b>	<b>97</b>	<b>104</b>	<b>100</b>	<b>57.7</b>	<b>32</b>	<b>8.3</b>	<b>25</b>
<b>LSD (0.05)</b>	<b>10</b>	<b>8</b>	<b>12</b>	<b>0.8</b>	<b>1</b>	<b>0.7</b>	<b>3</b>
<b>CV (%)</b>	<b>11</b>	<b>8</b>	<b>9</b>	<b>0.9</b>	<b>3</b>	<b>6.4</b>	<b>9</b>

\*Under the 2- and 3-year averages above, the 'na' indicates that this data could not be calculated due to selective wildlife damage to select varieties in 2014 despite these varieties being included in the trial for 2 or 3 years.

\*\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 4. Soft white winter wheat variety performance results at Genesee (rim area), 2015.**

Variety or Selection	2014-2015 Crop Year						
	3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (in)	Seed Protein (%)	Hardness Score (0-100)
LCS Artdeco	104	103	<b>111</b>	58.5	31	9.2	22
WB-Junction	96	99	<b>106</b>	59.7	35	8.7	13
Bruneau	97	94	<b>105</b>	58.8	37	9.1	19
LOR-334			<b>105</b>	58.4	30	8.7	17
IDN-06-02903B			<b>103</b>	60.0	34	8.8	16
Norwest Duet (LOR-092)			<b>102</b>	58.7	38	8.6	19
IDN-06-18102A			100	58.6	34	9.3	20
Brundage 96	94	91	99	57.8	34	10.2	24
LCS Drive (LWW12-7105)		100	99	58.2	28	8.5	19
Jasper (WA8169)			98	57.1	35	9.5	12
LOR-833			98	58.6	31	9.0	14
Puma	93	93	98	58.2	39	8.2	14
WB-523	90	90	98	58.7	35	9.0	12
IDO1005			97	59.0	34	9.8	18
LOR-913			97	59.2	33	8.8	17
Rosalyn	96	94	97	57.8	35	8.9	16
Stephens	90	92	97	57.8	35	10.1	27
WB-456			97	61.2	33	9.7	23
IDN-02-29001A		93	96	58.9	35	8.9	15
IDN-06-03303B			96	56.6	34	8.5	10
WB-1529	95	95	96	59.6	32	8.6	15
LOR-978			95	59.0	32	9.6	19
UI/WSU Huffman	93	88	95	57.2	35	8.7	13
IDN-01-10704A		95	94	57.3	38	8.3	17
IDO1108DH	94	90	94	56.1	37	8.8	14
OR2100940			94	55.9	33	8.8	12
LCS Biancor		97	93	57.1	30	8.2	16
WB-528			93	59.5	34	8.8	18
Amber	88	84	92	57.6	35	9.5	32
Kaseberg	93	89	92	56.6	34	9.1	13
OR2080641		88	92	58.1	34	8.6	18
WB-1604	86	87	92	59.0	32	9.0	16
WB1376 CLP (1030CLP)		91	91	62.0	36	10.0	20
OR2090473		93	91	56.3	32	8.7	10
UI Magic (09-DH11)			91	58.8	33	9.6	19
Bobtail	93	91	89	60.0	33	9.3	12
Selbu			88	58.4	34	9.5	27
UI Palouse (3_5_10)			86	57.1	32	9.4	11
Madsen	86	82	85	57.4	34	10.0	27
DAS003			84	58.4	35	10.6	25
Crescent	79	77	83	56.1	35	9.4	28
DAS004			82	56.7	34	10.3	27
UI Castle (09-DH10)			82	58.2	35	10.1	14
OR2080637		85	81	55.7	33	9.3	17
<b>Average</b>	<b>92</b>	<b>91</b>	<b>94</b>	<b>58.2</b>	<b>34</b>	<b>9.2</b>	<b>18</b>
<b>LSD (0.05)</b>	<b>7</b>	<b>7</b>	<b>10</b>	<b>1.7</b>	<b>1</b>	<b>0.9</b>	<b>3</b>
<b>CV (%)</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>2.1</b>	<b>3</b>	<b>6.9</b>	<b>11</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.



**Table 5. Soft white winter wheat variety performance results at Moscow, 2015.\***

Variety or Selection	2014-2015 Crop Year				
	Seed Yield (bu/A)**	Test Weight (lb/bu)	Plant Height (in)	Seed Protein (%)	Hardness Score (0-100)
IDN-06-03303B	<b>124</b>	59.6	35	9.6	31
Puma	<b>120</b>	59.6	43	9.1	32
Norwest Duet (LOR-092)	<b>118</b>	60.8	42	9.8	41
Jasper (WA8169)	<b>118</b>	59.2	37	9.6	30
LOR-334	<b>116</b>	61.0	30	10.1	41
OR2090473	115	57.9	34	10.0	32
IDN-02-29001A	114	61.7	37	10.1	38
Amber	114	60.1	38	9.6	43
Bruneau	114	60.9	38	10.2	35
IDO1108DH	113	58.3	37	10.0	37
Rosalyn	113	58.3	35	9.5	34
UI/WSU Huffman	113	60.3	36	10.1	39
Brundage 96	112	59.4	35	10.1	33
Bobtail	112	57.1	34	9.9	30
OR2080641	110	60.2	35	9.9	44
WB-523	110	61.2	35	9.8	32
Crescent	109	59.3	37	9.4	37
Selbu	109	61.3	36	9.9	42
LCS Artdeco	109	59.9	34	10.2	35
IDN-06-18102A	108	59.9	37	10.4	42
IDN-01-10704A	108	59.8	38	9.1	38
IDN-06-02903B	107	60.5	35	9.6	32
OR2100940	107	57.9	34	9.8	30
WB-Junction	106	61.9	35	10.2	32
WB-1529	106	62.1	34	10.5	35
WB-1604	105	61.0	33	11.0	37
LOR-978	105	60.6	34	10.6	41
Madsen	105	59.6	35	10.5	42
IDO1005	105	60.4	35	10.7	37
DAS004	105	59.0	34	10.6	45
Stephens	103	59.4	36	10.4	39
WB-528	103	61.7	36	10.3	37
Kaseberg	103	58.6	34	9.4	29
UI Palouse CLP (3_5_10)	101	58.6	35	10.5	31
UI Magic CLP (09-DH11)	101	61.5	34	10.6	36
UI Castle CLP (09-DH10)	100	60.4	36	10.5	33
LOR-913	100	61.1	34	10.3	38
LOR-833	99	60.8	31	11.0	35
WB1376 CLP (1030CLP)	99	63.1	35	12.1	41
WB-456	98	62.1	33	11.4	42
DAS003	97	59.4	35	11.2	41
LCS Biancor	95	58.8	30	9.7	34
OR2080637	95	58.2	35	10.6	32
LCS Drive (LWW12-7105)	94	58.7	29	10.1	37
<b>Average</b>	<b>107</b>	<b>60.0</b>	<b>35</b>	<b>10.2</b>	<b>36</b>
<b>LSD (0.05)</b>	<b>9</b>	<b>0.8</b>	<b>2</b>	<b>0.7</b>	<b>2</b>
<b>CV (%)</b>	<b>6</b>	<b>0.9</b>	<b>4</b>	<b>4.8</b>	<b>5</b>

\*2-year and 3-year averages not available because the Moscow location was not included in the 2013-2014 season.

\*\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 6. Soft white winter wheat variety performance results at Nezperce, 2015.**

Variety or Selection	2014-2015 Crop Year						
	3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (in)	Seed Protein (%)	Hardness Score (0-100)
LCS Artdeco	67	61	<b>70</b>	47.1	31	14.9	26
WB-Junction	67	64	<b>67</b>	49.1	35	15.5	25
WB-1529	61	55	<b>66</b>	52.9	32	14.9	31
LOR-913			<b>66</b>	49.0	33	15.6	28
LOR-978			<b>64</b>	49.6	32	16.6	38
Rosalyn	65	58	<b>64</b>	47.1	34	14.9	32
WB-1604	62	59	<b>63</b>	50.3	33	15.8	29
WB-528			<b>62</b>	51.6	35	15.7	33
OR2100940			61	46.8	33	15.5	28
WB-456			61	50.7	33	17.3	38
Norwest Duet (LOR-092)			61	47.0	38	16.5	34
LOR-833			61	45.0	32	15.6	31
Bruneau	66	55	60	49.0	37	15.3	31
IDO1108DH	65	54	60	46.5	35	16.0	37
LCS Biancor		56	60	48.3	31	14.0	30
OR2080641		55	60	42.9	36	16.7	40
IDN-02-29001A		53	60	47.4	34	17.2	34
LCS Drive (LWW12-7105)		64	60	49.4	31	14.3	33
LOR-334			60	47.6	30	14.8	30
Puma	63	56	59	45.2	40	16.6	35
IDN-06-18102A			59	44.3	34	16.4	36
IDN-06-02903B			58	47.6	35	15.4	27
Brundage 96	58	50	58	44.9	34	16.8	32
WB1376 CLP (1030CLP)		48	58	53.3	35	16.7	37
IDN-06-03303B			58	44.6	33	16.8	28
OR2090473		53	58	43.8	33	16.2	29
Bobtail	63	51	57	44.8	34	15.8	34
WB-523	60	53	57	49.1	34	16.1	34
IDN-01-10704A		58	57	44.8	37	16.4	32
Stephens	60	53	56	45.4	34	16.2	37
UI/WSU Huffman	60	51	56	44.1	36	17.2	37
Kaseberg	58	49	56	46.3	34	15.7	29
Selbu			55	46.0	36	17.4	44
IDO1005			53	48.7	33	16.6	36
Madsen	62	52	53	45.0	34	17.5	40
Amber	56	45	51	44.3	35	16.5	41
Jasper (WA8169)			50	40.5	36	17.6	33
UI Palouse CLP (3_5_10)			49	43.9	34	17.8	36
DAS003			47	44.9	35	17.9	43
DAS004			46	43.2	34	17.5	45
UI Magic CLP (09-DH11)			45	47.5	32	17.0	37
OR2080637		46	44	44.0	32	16.9	38
Crescent	55	38	41	43.1	35	17.8	45
UI Castle CLP (09-DH10)			40	47.3	34	17.5	38
<b>Average</b>	<b>61</b>	<b>53</b>	<b>57</b>	<b>46.7</b>	<b>34</b>	<b>16.3</b>	<b>34</b>
<b>LSD (0.05)</b>	<b>9</b>	<b>11</b>	<b>9</b>	<b>3.7</b>	<b>2</b>	<b>1.0</b>	<b>4</b>
<b>CV (%)</b>	<b>18</b>	<b>21</b>	<b>11</b>	<b>5.6</b>	<b>5</b>	<b>4.5</b>	<b>9</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 7. Soft white winter wheat variety performance results at Tammany (Lewiston), 2015.**

Variety or Selection	3-Year Average (bu/A)	2-Year Average (bu/A)	2014-2015 Crop Year				
			Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (in)	Seed Protein (%)	Hardness Score (0-100)
LCS Artdeco	98	91	<b>135</b>	60.0	37	9.7	27
Puma	98	92	<b>134</b>	59.4	47	9.7	31
Norwest Duet (LOR-092)			<b>128</b>	59.7	47	9.7	31
IDN-02-29001A		93	127	61.2	41	10.2	33
LOR-978			127	61.4	39	10.6	35
WB-Junction	88	86	126	61.6	40	9.3	25
Rosalyn	88	84	125	59.0	39	8.8	25
WB-1529	94	85	124	61.6	41	10.3	28
LCS Drive (LWW12-7105)		87	124	58.6	33	9.6	32
IDN-01-10704A		87	123	59.2	43	9.5	32
IDN-06-18102A			122	58.9	39	9.8	35
LOR-913			122	60.9	40	9.4	30
IDO1108DH	91	86	121	57.3	44	9.0	25
OR2080641		81	121	59.9	41	9.7	32
WB-1604	87	83	121	61.1	39	9.8	28
WB-528			121	60.8	42	10.0	28
Bruneau	91	84	120	59.9	44	9.6	26
LOR-334			120	60.9	34	9.5	31
OR2090473		86	120	58.6	38	9.4	21
Selbu			120	60.6	41	9.7	34
WB-456			119	62.2	39	10.2	35
WB-523	90	86	119	60.7	40	9.7	25
Bobtail	92	83	118	57.5	38	8.8	20
OR2100940			118	58.4	38	9.0	21
UI/WSU Huffman	92	84	118	59.4	42	10.4	32
Crescent	88	80	117	58.3	43	9.4	32
IDN-06-03303B			117	59.0	38	9.7	27
DAS004			116	57.9	40	10.3	36
Jasper (WA8169)			116	57.9	41	9.7	27
Stephens	75	70	116	60.2	39	10.0	30
Madsen	83	79	115	59.6	42	10.5	33
UI Magic (09-DH11)			114	61.3	37	10.7	31
Brundage 96	85	81	112	59.7	41	10.3	29
LOR-833			112	60.9	34	9.8	26
DAS003			110	59.0	40	10.5	32
IDN-06-02903B			110	61.4	38	9.8	28
LCS Biancor		81	110	59.7	34	10.1	31
Kaseberg	84	78	109	58.5	38	9.3	23
IDO1005			108	60.0	39	10.5	28
WB1376 CLP (1030CLP)		76	107	63.3	41	10.8	31
UI Palouse (3_5_10)			107	59.5	39	10.3	28
Amber	80	74	106	59.6	41	9.6	36
OR2080637		67	94	56.7	37	10.2	26
UI Castle (09-DH10)			87	60.1	38	10.6	30
<b>Average</b>	<b>88</b>	<b>83</b>	<b>117</b>	<b>59.8</b>	<b>40</b>	<b>9.9</b>	<b>29</b>
<b>LSD (0.05)</b>	<b>6</b>	<b>5</b>	<b>8</b>	<b>0.7</b>	<b>2</b>	<b>0.6</b>	<b>2</b>
<b>CV (%)</b>	<b>8</b>	<b>6</b>	<b>5</b>	<b>0.8</b>	<b>3</b>	<b>4.6</b>	<b>6</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 8. Soft white winter wheat variety performance results at Tensed, 2015.**

Variety or Selection	2014-2015 Crop Year						
	3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (in)	Seed Protein (%)	Hardness Score (0-100)
Puma	127	118	<b>128</b>	58.5	44	11.5	28
Bruneau	126	119	<b>126</b>	58.1	41	11.5	22
Rosalyn	125	112	<b>123</b>	57.1	38	11.9	25
Jasper (WA8169)			<b>122</b>	57.0	39	11.6	26
IDN-06-03303B			<b>121</b>	57.4	38	11.9	24
Amber	117	108	<b>121</b>	58.9	40	12.1	37
WB-Junction	125	113	118	60.3	40	11.0	16
IDO1108DH	123	112	116	57.3	44	11.6	29
Selbu			115	59.6	41	12.1	36
Brundage 96	114	104	114	57.2	38	12.3	26
Crescent	111	101	114	58.7	40	11.8	35
IDN-01-10704A		106	114	57.9	41	11.6	32
WB-1529	120	91	114	61.0	36	11.1	15
WB-528			114	60.4	38	11.5	17
LCS Artdeco	127	116	113	58.6	36	11.7	26
OR2080641		109	113	57.1	39	11.7	19
Norwest Duet (LOR-092)			113	57.6	43	11.8	28
WB-523	118	108	113	59.6	38	11.2	15
DAS003			112	58.1	38	13.0	34
IDN-06-18102A			111	58.3	37	12.2	35
LOR-833			111	57.5	34	11.6	11
UI/WSU Huffman	119	111	111	58.4	39	11.8	31
Madsen	114	101	110	58.2	39	12.9	34
IDN-02-29001A		110	109	59.3	39	13.0	30
OR2100940			109	56.8	36	11.2	11
DAS004			108	57.6	39	12.4	34
LOR-913			107	59.1	38	12.6	27
UI Palouse CLP (3_5_10)			107	57.0	37	12.6	23
Stephens	115	108	107	56.3	39	12.7	29
IDN-06-02903B			106	58.3	38	11.9	24
LOR-334			106	58.7	33	11.9	23
OR2090473		97	104	56.7	36	11.0	13
WB-456			103	60.5	37	12.4	21
LOR-978			103	58.8	37	13.3	27
IDO1005			101	58.7	39	12.9	27
Bobtail	117	103	101	54.5	36	12.3	25
OR2080637		102	100	57.1	36	12.9	29
WB-1604	105	96	95	58.4	36	11.9	16
LCS Drive (LWW12-7105)		105	94	56.1	31	12.8	27
WB1376 CLP (1030CLP)		95	94	61.7	38	13.0	20
Kaseberg	108	91	93	56.8	35	12.5	24
LCS Biancor		89	80	55.3	31	12.4	24
UI Magic CLP (09-DH11)			77	59.8	35	12.9	29
UI Castle CLP (09-DH10)			63	59.8	36	13.6	30
<b>Average</b>	<b>118</b>	<b>105</b>	<b>107</b>	<b>58.2</b>	<b>38</b>	<b>12.1</b>	<b>25</b>
<b>LSD (0.05)</b>	<b>6</b>	<b>7</b>	<b>10</b>	<b>0.9</b>	<b>2</b>	<b>0.5</b>	<b>3</b>
<b>CV (%)</b>	<b>6</b>	<b>6</b>	<b>7</b>	<b>1.1</b>	<b>3</b>	<b>2.8</b>	<b>7</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 9. Soft white winter wheat performance comparison across northern Idaho, 2015.**

Variety or Selection	2014-2015 Crop Year													
	3-Year Yield	2-Year Yield	North Idaho Average*	Bonnors Ferry	Genesee (rim)	Moscow	Neperce	Tammany	Tensed	Test Weight	Plant Height	Lodging	Seed Protein	Hardness Score
	bu/A									(lb/bu)	(inches)	-----%	(0-100)	
Puma	98	95	<b>107</b>	<b>106</b>	98	<b>120</b>	59	<b>134</b>	<b>128</b>	56.4	41	0	10.6	28
Bruneau	97	95	<b>106</b>	<b>111</b>	<b>105</b>	114	60	120	<b>126</b>	57.2	39	1	10.5	25
WB-Junction	95	94	<b>105</b>	<b>106</b>	<b>106</b>	106	<b>67</b>	126	118	58.5	36	0	10.5	22
Rosalyn	96	92	<b>104</b>	102	97	113	<b>64</b>	125	<b>123</b>	56.5	36	0	10.0	24
IDN-06-03303B			<b>104</b>	<b>108</b>	96	<b>124</b>	58	117	<b>121</b>	55.7	35	0	10.7	24
Norwest Duet (LOR-092)			<b>104</b>	100	<b>102</b>	<b>118</b>	61	<b>128</b>	113	57.0	40	0	10.7	31
IDN-02-29001A		93	103	<b>114</b>	96	108	57	127	114	57.2	37	0	11.4	30
IDN-06-02903B			102	<b>113</b>	<b>103</b>	114	60	110	109	57.6	35	0	10.5	24
LCS Artdeco	98	94	101	71	<b>111</b>	109	<b>70</b>	<b>135</b>	113	56.8	32	0	10.9	27
UI/WSU Huffman	95	91	101	<b>112</b>	95	113	56	118	111	56.0	37	0	11.0	30
IDN-06-18102A			101	<b>105</b>	100	108	59	122	111	56.1	36	0	11.1	33
IDO1108DH	96	91	101	99	94	113	60	121	116	55.5	39	0	10.6	29
LOR-334			101	98	<b>105</b>	<b>116</b>	60	120	106	57.2	31	0	10.6	29
WB-1529	93	89	100	95	96	106	<b>66</b>	124	114	59.3	34	0	10.7	25
OR2080641			100	<b>105</b>	92	110	60	121	113	56.0	36	0	10.7	29
IDN-01-10704A		94	100	<b>112</b>	94	107	58	123	106	56.2	39	0	10.6	30
Jasper (WA8169)			100	95	98	<b>118</b>	50	116	<b>122</b>	54.4	36	0	11.1	26
WB-528			100	<b>105</b>	93	103	<b>62</b>	121	114	58.8	37	0	10.8	27
Brundage 96	91	87	100	<b>103</b>	99	112	58	112	114	56.1	36	0	11.4	28
LOR-913			99	<b>104</b>	97	100	<b>66</b>	122	107	57.7	35	0	10.9	28
WB-523	91	88	99	98	98	110	57	119	113	57.9	36	0	10.7	24
Amber	90	85	97	102	92	114	51	106	<b>121</b>	56.4	37	0	10.9	36
Stephens	90	87	97	<b>106</b>	97	103	56	116	107	56.0	36	0	11.4	31
Selbu			97	97	88	109	55	120	115	57.5	36	0	11.1	35
LOR-978			97	88	95	105	<b>64</b>	127	103	57.8	34	0	11.6	32
WB-1604	89	87	97	<b>104</b>	92	105	<b>63</b>	121	95	57.9	34	0	11.1	25
Bobtail	93	88	96	<b>103</b>	89	112	57	118	101	54.2	34	0	10.5	22
OR2100940			96	90	94	107	61	118	109	55.3	34	0	10.3	19
OR2090473			96	90	91	115	58	120	104	54.9	33	0	10.5	20
WB-456			96	100	97	98	61	119	103	59.5	35	0	11.6	32
LOR-833			95	92	98	99	61	112	111	56.6	32	0	11.0	24
LCS Drive (LWW12-7105)		87	95	98	99	94	60	124	94	56.2	30	0	10.6	29
Madsen	89	86	95	101	85	105	53	115	110	56.3	36	0	11.6	34
IDO1005			94	102	97	105	53	108	101	57.6	36	0	11.5	29
Crescent	87	82	93	94	83	109	41	117	114	55.3	37	0	10.9	33
DAS004			93	100	82	105	46	116	108	55.3	36	0	11.6	36
Kaseberg	90	84	92	99	92	103	56	109	93	55.7	34	0	10.5	22
DAS003			91	97	84	97	47	110	112	56.2	36	0	11.9	34
WB1376 CLP (1030CLP)			91	99	91	99	58	107	94	60.7	37	0	12.1	30
UI Palouse (3_5_10)			90	88	86	101	49	107	107	55.0	34	0	11.4	24
UI Magic (09-DH11)			89	<b>105</b>	91	101	45	114	77	57.6	34	0	11.5	29
LCS Biancor			89	94	93	95	60	110	80	55.9	31	0	10.4	26
OR2080637			84	89	81	95	44	94	100	54.8	34	0	11.3	27
UI Castle (09-DH10)			79	100	82	100	40	87	63	57.6	36	0	11.8	27
Average	<b>93</b>	<b>89</b>	<b>97</b>	<b>100</b>	<b>94</b>	<b>107</b>	<b>57</b>	<b>117</b>	<b>107</b>	<b>56.7</b>	<b>35</b>	<b>0</b>	<b>11.0</b>	<b>28</b>
LSD (0.05)	<b>3</b>	<b>3</b>	<b>4</b>	<b>12</b>	<b>10</b>	<b>9</b>	<b>9</b>	<b>8</b>	<b>10</b>	<b>0.9</b>	<b>1</b>	ns	<b>0.3</b>	<b>1</b>
CV (%)	<b>9</b>	<b>9</b>	<b>8</b>	<b>9</b>	<b>8</b>	<b>6</b>	<b>11</b>	<b>5</b>	<b>7</b>	<b>2.7</b>	<b>4</b>	--	<b>5.4</b>	<b>8</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 10. Hard winter wheat variety performance results at Bonners Ferry, 2015.**

Variety or Selection	Class	2014-2015 Crop Year							
		3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (in)	Lodging (%)	Seed Protein (%)	Hardness Score (0-100)
LCS Jet (NSA10-7208)	HRW			<b>125</b>	59.2	31	0	9.4	63
LCS Colonia	HRW	114	114	113	57.3	32	0	9.3	52
Keldin	HRW	112	112	111	61.6	33	0	9.8	62
UI SRG	HRW	106	115	110	60.8	40	33	9.7	70
Boundary	HRW	101	109	108	60.1	33	0	9.6	61
Rimrock	HRW	99	106	108	61.1	35	3	9.6	64
WB-Arrowhead	HRW	100	105	107	61.2	35	0	10.0	61
IDO1101	HWW	100	104	103	60.7	28	3	9.5	67
DAS001	HRW			103	59.9	35	0	10.2	66
Norwest 553	HRW	106	107	102	61.3	30	0	10.3	65
OR2100081H	HWW		109	102	61.1	34	0	10.1	67
LCS Azimut	HRW	83	94	101	57.0	28	0	9.4	59
OR2110019H	HWW			101	59.6	32	0	9.9	70
MSWW-14-001	HWW			97	61.7	40	0	9.6	61
IDO1209DH	HWW			96	61.8	34	10	9.6	61
UI Silver	HWW	88	96	91	61.9	36	85	9.7	71
<b>Average</b>		<b>101</b>	<b>106</b>	<b>105</b>	<b>60.4</b>	<b>33</b>	<b>8</b>	<b>9.7</b>	<b>64</b>
<b>LSD (0.05)</b>		<b>11</b>	<b>8</b>	<b>11</b>	<b>0.6</b>	<b>2</b>	<b>7</b>	<b>0.3</b>	<b>2</b>
<b>CV (%)</b>		<b>12</b>	<b>8</b>	<b>7</b>	<b>0.7</b>	<b>5</b>	<b>64</b>	<b>2.4</b>	<b>3</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 11. Hard winter wheat variety performance results at Genesee (rim area), 2015.**

Variety or Selection	Class	2014-2015 Crop Year						
		3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (in)	Seed Protein (%)	Hardness Score (0-100)
Keldin	HRW	104	106	<b>106</b>	62.6	37	9.5	61
LCS Jet (NSA10-7208)	HRW			111	59.3	34	9.9	63
WB-Arrowhead	HRW	95	97	<b>103</b>	62.1	39	10.3	63
DAS001	HRW			<b>102</b>	61.5	38	9.4	59
IDO1101	HWW	96	99	<b>101</b>	62.5	32	9.7	68
Rimrock	HRW	102	103	<b>101</b>	60.4	36	9.5	58
UI Silver	HWW	98	96	99	61.2	40	9.3	66
Boundary	HRW	89	94	98	60.2	37	9.3	65
OR2100081H	HWW		100	98	61.3	34	9.9	59
OR2110019H	HWW			98	60.8	35	10.2	70
LCS Azimut	HRW	93	91	97	57.2	30	9.5	60
LCS Colonia	HRW	98	97	94	57.4	32	9.5	48
UI SRG	HRW	84	86	93	60.8	46	10.2	68
Norwest 553	HRW	89	89	90	60.3	31	10.4	66
IDO1209DH	HWW			86	61.9	35	10.2	63
MSWW-14-001	HWW			84	62.3	48	9.9	63
<b>Average</b>		<b>95</b>	<b>97</b>	<b>97</b>	<b>60.7</b>	<b>37</b>	<b>9.8</b>	<b>63</b>
<b>LSD (0.05)</b>		<b>7</b>	<b>8</b>	<b>6</b>	<b>0.8</b>	<b>2</b>	<b>0.7</b>	<b>4</b>
<b>CV (%)</b>		<b>9</b>	<b>8</b>	<b>5</b>	<b>0.9</b>	<b>3</b>	<b>4.9</b>	<b>4</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 12. Hard winter wheat variety performance results at Moscow, 2015.\***

Variety or Selection	Class	2014-2015 Crop Year				
		Seed Yield (bu/A)**	Test Weight (lb/bu)	Plant Height (in)	Seed Protein (%)	Hardness Score (0-100)
LCS Jet (NSA10-7208)	HRW	<b>128</b>	60.0	36	10.6	62
Rimrock	HRW	<b>119</b>	61.2	36	10.0	59
DAS001	HRW	117	61.0	41	10.9	61
LCS Colonia	HRW	116	56.7	36	11.2	44
WB-Arrowhead	HRW	115	61.3	41	11.0	61
Keldin	HRW	114	62.4	36	9.8	60
IDO1101	HWW	111	62.2	33	10.4	61
LCS Azimut	HRW	111	57.6	29	11.1	63
Boundary	HRW	110	59.2	38	10.2	65
UI SRG	HRW	108	59.5	47	11.0	69
UI Silver	HWW	107	61.3	40	10.3	66
OR2110019H	HWW	105	60.5	39	10.8	69
IDO1209DH	HWW	101	62.1	36	10.5	65
Norwest 553	HRW	95	60.9	34	11.6	64
OR2100081H	HWW	94	61.0	34	10.4	58
MSWW-14-001	HWW	90	61.6	48	11.1	63
<b>Average</b>		<b>109</b>	<b>60.5</b>	<b>38</b>	<b>10.7</b>	<b>62</b>
<b>LSD (0.05)</b>		<b>10</b>	<b>0.9</b>	<b>4</b>	<b>0.5</b>	<b>4</b>
<b>CV (%)</b>		<b>7</b>	<b>1.0</b>	<b>7</b>	<b>3.2</b>	<b>4</b>

\*2-year and 3-year averages not available because the Moscow location was not included in the 2013-2014 season.

\*\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 13. Hard winter wheat variety performance results at Nezperce, 2015.**

Variety or Selection	Class	2014-2015 Crop Year						
		3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (in)	Seed Protein (%)	Hardness Score (0-100)
DAS001	HRW			<b>70</b>	55.3	39	13.7	67
LCS Jet (NSA10-7208)	HRW		70	<b>70</b>	52.3	32	13.8	60
IDO1101	HWW	77	73	<b>69</b>	57.3	33	13.0	60
Rimrock	HRW	69	64	<b>67</b>	53.0	35	13.7	63
Keldin	HRW	71	64	<b>67</b>	54.7	36	13.6	55
WB-Arrowhead	HRW	64	56	<b>66</b>	54.4	38	13.1	52
Boundary	HRW	62	54	<b>65</b>	51.6	36	13.9	60
UI SRG	HRW	69	63	<b>65</b>	51.6	43	14.1	65
UI Silver	HWW	56	46	<b>63</b>	55.3	37	13.6	68
MSWW-14-001	HWW			58	56.3	45	13.7	54
OR2100081H	HWW		67	56	54.1	33	13.8	58
IDO1209DH	HWW			55	53.9	34	14.4	61
LCS Colonia	HRW	74	67	55	46.3	33	15.6	36
LCS Azimut	HRW	67	59	54	46.9	29	13.9	50
OR2110019H	HWW			53	51.3	33	14.1	64
Norwest 553	HRW	66	61	52	54.2	30	14.0	62
<b>Average</b>		<b>67</b>	<b>62</b>	<b>61</b>	<b>53.0</b>	<b>35</b>	<b>13.9</b>	<b>58</b>
<b>LSD (0.05)</b>		<b>8</b>	<b>11</b>	<b>8</b>	<b>2.2</b>	<b>2</b>	<b>0.6</b>	<b>5</b>
<b>CV (%)</b>		<b>14</b>	<b>19</b>	<b>9</b>	<b>3.0</b>	<b>3</b>	<b>3.1</b>	<b>6</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.



**Table 14. Hard winter wheat variety performance results at Tammany (Lewiston), 2015.**

Variety or Selection	Class	2014-2015 Crop Year							
		3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (in)	Lodging (%)	Seed Protein (%)	Hardness Score (0-100)
LCS Jet (NSA10-7208)	HRW		92	<b>125</b>	61.6	39	0	10.9	65
Keldin	HRW	91	88	<b>123</b>	63.2	42	0	10.6	62
LCS Colonia	HRW	103	93	116	57.6	37	0	10.9	53
LCS Azimut	HRW	90	81	112	57.8	34	0	10.8	65
OR2110019H	HWW			111	60.8	42	0	11.2	71
Rimrock	HRW	85	79	109	61.6	42	6	10.6	66
WB-Arrowhead	HRW	80	79	108	62.2	45	18	11.2	62
DAS001	HRW			105	61.8	46	70	11.6	65
IDO1101	HWW	88	84	105	62.9	38	0	11.0	67
IDO1209DH	HWW			98	62.2	39	0	10.9	69
Boundary	HRW	80	70	95	60.6	42	18	11.2	68
Norwest 553	HRW	78	70	93	61.1	35	0	11.0	67
OR2100081H	HWW		70	92	60.7	39	0	11.3	65
UI SRG	HRW	71	67	90	58.4	51	90	11.5	72
UI Silver	HWW	69	66	84	61.3	43	70	11.2	71
MSWW-14-001	HRW			79	61.3	51	93	12.0	65
<b>Average</b>		<b>83</b>	<b>78</b>	<b>103</b>	<b>60.9</b>	<b>42</b>	<b>23</b>	<b>11.1</b>	<b>66</b>
<b>LSD (0.05)</b>		<b>6</b>	<b>5</b>	<b>7</b>	<b>0.6</b>	<b>1</b>	<b>15</b>	<b>0.5</b>	<b>4</b>
<b>CV (%)</b>		<b>8</b>	<b>6</b>	<b>5</b>	<b>0.7</b>	<b>2</b>	<b>46</b>	<b>3.4</b>	<b>4</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 15. Hard winter wheat variety performance results at Tensed, 2015.**

Variety or Selection	Class	2014-2015 Crop Year							
		3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (in)	Lodging (%)	Seed Protein (%)	Hardness Score (0-100)
Keldin	HRW	127	117	<b>119</b>	61.5	42	0	12.2	59
Rimrock	HRW	111	114	<b>117</b>	59.8	40	3	12.3	67
LCS Jet (NSA10-7208)	HRW		123	<b>117</b>	59.5	38	0	12.7	67
WB-Arrowhead	HRW	121	109	<b>117</b>	60.7	43	0	12.2	65
Boundary	HRW	112	107	<b>116</b>	59.3	42	0	12.3	64
DAS001	HRW			<b>112</b>	60.5	44	3	12.7	67
UI Silver	HWW	111	98	<b>110</b>	61.0	43	40	12.4	74
IDO1101	HWW	116	111	<b>106</b>	61.6	38	0	12.2	72
UI SRG	HRW	113	100	<b>105</b>	58.2	48	28	13.1	73
MSWW-14-001	HWW			101	61.2	52	3	12.7	62
IDO1209DH	HWW			97	60.8	40	0	12.9	70
LCS Azimut	HRW	107	95	92	52.3	32	0	12.6	58
OR2110019H	HWW			91	59.3	39	0	12.8	73
LCS Colonia	HRW	111	89	88	54.7	35	0	12.8	50
OR2100081H	HWW		83	73	60.4	35	0	13.6	67
Norwest 553	HRW	96	78	69	61.8	34	0	13.2	71
<b>Average</b>		<b>112</b>	<b>102</b>	<b>102</b>	<b>59.5</b>	<b>40</b>	<b>5</b>	<b>12.7</b>	<b>66</b>
<b>LSD (0.05)</b>		<b>8</b>	<b>6</b>	<b>15</b>	<b>0.9</b>	<b>2</b>	<b>18</b>	<b>0.3</b>	<b>3</b>
<b>CV (%)</b>		<b>8</b>	<b>6</b>	<b>10</b>	<b>1.1</b>	<b>3</b>	<b>277</b>	<b>1.9</b>	<b>3</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 16. Hard winter wheat performance comparison across northern Idaho, 2015.**

Variety or Selection	Market Class	2014-2015 Crop Year													
		3-Year Yield	2-Year Yield	North Idaho Average*	Bonnors Ferry	Genesee (rim)	Moscow	Nezperce	Tammany	Tensed	Test Weight	Plant Height	Lodging**	Seed Protein	Hardness
		-----bu/A-----										(lb/bu)	(inches)	---(%)---	(0-100)
LCS Jet	HRW			<b>111</b>	<b>125</b>	<b>104</b>	<b>128</b>	<b>70</b>	<b>125</b>	<b>117</b>	58.6	35	0	11.2	63
Keldin	HRW	103	98	106	111	<b>106</b>	114	<b>67</b>	<b>123</b>	<b>119</b>	61.0	38	0	10.9	60
Rimrock	HRW	96	94	104	108	<b>101</b>	<b>119</b>	<b>67</b>	109	<b>117</b>	59.5	37	2	10.9	63
WB-Arrowhead	HRW	94	90	103	107	<b>103</b>	115	<b>66</b>	108	<b>117</b>	60.5	40	3	11.3	61
DAS001	HRW			101	103	<b>102</b>	117	<b>70</b>	105	<b>112</b>	60.0	40	12	11.4	64
IDO1101	HWW	97	95	99	103	<b>101</b>	111	<b>69</b>	105	<b>106</b>	61.2	34	0	11.0	66
Boundary	HRW	92	88	99	108	98	110	<b>65</b>	95	<b>116</b>	58.5	38	3	11.1	64
LCS Colonia	HRW	102	93	97	113	94	116	55	116	88	54.9	34	0	11.6	47
UI SRG	HRW	90	87	95	110	93	108	<b>65</b>	90	<b>105</b>	58.2	46	25	11.6	70
LCS Azimut	HRW	92	87	94	101	97	111	54	112	92	54.8	30	0	11.2	59
OR2110019H	HWW			93	101	98	105	53	111	91	58.7	37	0	11.5	69
UI Silver	HWW	87	83	92	91	99	107	<b>63</b>	84	<b>110</b>	60.3	40	33	11.1	69
IDO1209DH	HWW			89	96	86	101	55	98	97	60.4	36	2	11.4	65
OR2100081H	HWW			86	102	98	94	56	92	73	59.7	35	0	11.5	62
MSWW-14-001	HWW			85	97	84	90	58	79	101	60.7	47	16	11.5	61
Norwest 553	HRW	90	83	83	102	90	95	52	93	69	59.9	32	0	11.7	66
Average		<b>107</b>	<b>99</b>	<b>96</b>	<b>105</b>	<b>97</b>	<b>109</b>	<b>61</b>	<b>103</b>	<b>102</b>	<b>59.2</b>	<b>37</b>	<b>6</b>	<b>11.3</b>	<b>63</b>
LSD (0.05)		<b>3</b>	<b>3</b>	<b>5</b>	<b>11</b>	<b>6</b>	<b>10</b>	<b>8</b>	<b>7</b>	<b>15</b>	<b>0.7</b>	<b>1</b>	<b>4</b>	<b>0.2</b>	<b>1</b>
CV (%)		<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>5</b>	<b>7</b>	<b>9</b>	<b>5</b>	<b>10</b>	<b>2.0</b>	<b>4</b>	<b>121</b>	<b>3.9</b>	<b>4</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 17. Soft white spring wheat variety performance results at Bonners Ferry, 2015.**

Variety or Selection	2014-2015 Crop Year							
	3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (in)	Lodging (%)	Seed Protein (%)	Hardness Score (0-100)
Seahawk	90	76	<b>57</b>	60.9	25	0	11.5	35
JD	74	64	<b>57</b>	62.0	28	0	11.5	39
Diva	81	70	<b>57</b>	61.0	27	0	10.4	35
WB6341	85	70	<b>55</b>	59.9	23	0	9.7	22
IDO851	72	61	<b>55</b>	60.0	25	0	10.2	20
Alturas	68	58	<b>54</b>	59.7	24	0	10.2	22
Babe	69	60	<b>54</b>	60.4	25	0	11.1	22
Tekoa (WA8189)	89	76	<b>53</b>	61.6	25	0	10.8	26
UI Stone	67	58	47	60.5	25	0	10.3	19
M12001			47	59.8	23	0	11.4	22
WB6121	81	70	47	61.0	24	0	12.5	31
WB6430			44	60.4	22	0	10.6	27
Ryan (WA8214)			43	60.1	23	0	11.6	28
WA8238			40	61.1	27	0	13.0	43
<b>Average</b>	<b>78</b>	<b>66</b>	<b>51</b>	<b>60.6</b>	<b>25</b>	<b>0</b>	<b>11.0</b>	<b>28</b>
<b>LSD (0.05)</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>0.5</b>	<b>2</b>	<b>-</b>	<b>0.3</b>	<b>3</b>
<b>CV (%)</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>0.5</b>	<b>4</b>	<b>-</b>	<b>2.1</b>	<b>7</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 18. Soft white spring wheat variety performance results at Craigmont, 2015.**

Variety or Selection	2014-2015 Crop Year							
	3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (inches)	Lodging (%)	Seed Protein (%)	Hardness Score (0-100)
WB6430			<b>39</b>	54.8	25	0	16.6	36
WB6341	53	49	<b>36</b>	52.1	29	0	17.0	35
Babe	56	51	<b>36</b>	52.5	29	0	17.4	32
UI Stone	52	46	<b>35</b>	50.3	29	0	18.2	34
WB6121	51	48	<b>35</b>	49.2	27	0	17.2	34
Tekoa (WA8189)	51	47	<b>34</b>	55.4	25	0	17.5	37
JD	47	43	<b>34</b>	53.9	29	0	18.0	43
Ryan (WA8214)			<b>34</b>	50.9	29	5	16.8	31
IDO851	45	38	<b>34</b>	52.9	29	0	16.2	33
Diva	47	41	32	50.4	29	3	17.5	35
Seahawk	48	42	31	55.4	23	0	17.9	43
M12001			29	53.7	25	0	17.3	33
Alturas	42	36	29	51.1	27	0	16.7	33
WA8238			28	52.3	32	0	18.7	42
<b>Average</b>	<b>49</b>	<b>44</b>	<b>33</b>	<b>52.5</b>	<b>28</b>	<b>&lt;1</b>	<b>17.4</b>	<b>36</b>
<b>LSD (0.05)</b>	<b>4</b>	<b>5</b>	<b>7</b>	<b>1.7</b>	<b>3</b>	<b>3</b>	<b>0.9</b>	<b>4</b>
<b>CV (%)</b>	<b>9</b>	<b>11</b>	<b>14</b>	<b>2.3</b>	<b>7</b>	<b>389</b>	<b>3.5</b>	<b>8</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 19. Soft white spring wheat variety performance results at Genesee (rim area), 2015.**

Variety or Selection	3-Year Average (bu/A)	2-Year Average (bu/A)	2014-2015 Crop Year					Seed Protein (%)	Hardness Score (0-100)
			Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (inches)	Lodging (%)	Seed Protein (%)		
Babe	67	58	<b>54</b>	54.7	33	0	15.4	31	
Seahawk	60	50	<b>50</b>	53.3	32	0	15.5	37	
Tekoa (WA8189)	61	51	<b>49</b>	55.1	32	0	15.2	34	
WB6121	61	50	47	51.3	31	0	15.8	36	
JD	57	50	46	55.6	41	0	15.4	37	
Ryan (WA8214)			46	51.9	33	0	14.9	32	
WB6341	61	50	44	50.3	34	0	15.7	37	
WB6430			44	53.0	28	0	15.0	34	
UI Stone	60	50	44	51.8	34	0	14.4	34	
Diva	57	44	40	53.0	36	0	15.3	36	
WA8238			39	53.8	42	0	15.1	34	
M12001			39	53.1	32	0	13.9	33	
IDO851	56	42	36	52.7	33	0	14.3	35	
Alturas	55	44	36	52.7	34	0	14.4	38	
<b>Average</b>	<b>59</b>	<b>49</b>	<b>44</b>	<b>53.0</b>	<b>34</b>	<b>0</b>	<b>15.0</b>	<b>35</b>	
<b>LSD (0.05)</b>	<b>4</b>	<b>5</b>	<b>7</b>	<b>1.7</b>	<b>2</b>	<b>-</b>	<b>1.0</b>	<b>9</b>	
<b>CV (%)</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>2.2</b>	<b>5</b>	<b>-</b>	<b>4.7</b>	<b>16</b>	

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 20. Soft white spring wheat variety performance results at Moscow, 2015.**

Variety or Selection	3-Year Average (bu/A)	2-Year Average (bu/A)	2014-2015 Crop Year					Seed Protein (%)	Hardness Score (0-100)
			Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (inches)	Lodging (%)	Seed Protein (%)		
Ryan (WA8214)			<b>59</b>	55.6	33	0	13.7	33	
WB6341	75	69	<b>58</b>	56.5	31	0	13.6	33	
Babe	69	65	<b>58</b>	56.3	33	0	14.3	31	
Seahawk	76	69	<b>58</b>	57.8	31	0	14.3	41	
WB6430			<b>57</b>	57.9	28	0	13.5	35	
IDO851	69	64	<b>56</b>	57.0	33	0	13.5	32	
Diva	74	67	<b>56</b>	57.7	34	0	13.9	39	
Alturas	66	61	<b>52</b>	56.3	32	0	14.1	35	
WB6121	68	64	<b>52</b>	54.5	30	0	15.2	37	
JD	67	61	51	59.2	35	0	14.6	48	
M12001			51	56.9	32	0	14.6	33	
WA8238			49	57.4	37	0	15.2	41	
Tekoa (WA8189)	69	62	49	57.8	30	0	14.8	38	
UI Stone	70	62	48	56.4	30	0	14.7	33	
<b>Average</b>	<b>70</b>	<b>64</b>	<b>54</b>	<b>56.9</b>	<b>32</b>	<b>0</b>	<b>14.3</b>	<b>36</b>	
<b>LSD (0.05)</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>1.5</b>	<b>2</b>	<b>-</b>	<b>0.6</b>	<b>4</b>	
<b>CV (%)</b>	<b>7</b>	<b>6</b>	<b>11</b>	<b>1.8</b>	<b>3</b>	<b>-</b>	<b>3.1</b>	<b>7</b>	

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 21. Soft white spring wheat variety performance comparison across northern Idaho, 2015.**

Variety or Selection	2014-2015 Crop Year											
	3-Year Average	2-Year Average	N. Idaho Average*	Bonnors Ferry	Craigmont	Genesee	Moscow	Test Weight	Plant Height	Lodging	Seed Protein	Hardness Score
	-----bu/A-----							(lb/bu)	(inches)	(%)	(%)	(0-100)
Babe	65	59	<b>51</b>	54	36	54	58	56.0	30	0	14.5	29
Seahawk	69	59	<b>49</b>	57	31	50	58	57.1	28	0	14.8	39
WB6341	68	59	<b>48</b>	55	36	44	58	54.7	29	0	14.0	32
JD	61	54	<b>47</b>	57	34	46	51	57.6	33	0	14.9	42
Tekoa (WA8189)	67	59	<b>46</b>	53	34	49	49	57.4	28	0	14.5	34
Diva	65	56	<b>46</b>	57	32	40	56	55.5	31	0.6	14.3	36
WB6430			<b>46</b>	44	39	44	57	56.5	26	0	13.9	33
WB6121	65	58	<b>46</b>	47	35	47	52	54.2	28	0	15.1	34
Ryan (WA8214)			<b>45</b>	43	34	46	59	54.6	29	1.3	14.3	31
IDO851	61	52	<b>45</b>	55	34	36	56	55.6	30	0	13.5	30
UI Stone	62	54	43	47	35	44	48	54.7	29	0	14.4	30
Alturas	58	49	43	54	29	36	52	54.9	29	0	13.8	32
M12001			41	47	29	39	51	55.9	28	0	14.3	30
WA8238			39	40	28	39	49	56.2	34	0	15.5	40
<b>Average</b>	<b>64</b>	<b>56</b>	<b>45</b>	<b>51</b>	<b>33</b>	<b>44</b>	<b>54</b>	<b>55.8</b>	<b>29</b>	<b>0.1</b>	<b>14.4</b>	<b>34</b>
<b>LSD (0.05)</b>	<b>2</b>	<b>2</b>	<b>6</b>	<b>5</b>	<b>7</b>	<b>7</b>	<b>8</b>	<b>0.8</b>	<b>1</b>	<b>0.7</b>	<b>0.5</b>	<b>3</b>
<b>CV (%)</b>	<b>7</b>	<b>8</b>	<b>19</b>	<b>7</b>	<b>14</b>	<b>11</b>	<b>11</b>	<b>2.2</b>	<b>6</b>	<b>766</b>	<b>4.7</b>	<b>11</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 22. Hard spring wheat variety performance results at Bonners Ferry, 2015.**

Variety or Selection	Market Class	2014-2015 Crop Year							
		3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (inches)	Lodging (%)	Seed Protein (%)	Hardness Score (0-100)
HRS 3419	HRS		77	<b>57</b>	58.7	25	0	12.3	90
HRS 3504	HRS			<b>53</b>	61.0	24	0	13.3	106
IDO1202S	HWS		69	50	62.1	27	0	12.6	86
Dayn	HWS		72	47	61.4	24	0	12.8	90
WA8217	HRS		68	45	60.9	26	0	13.4	91
Glee	HRS	78	66	45	61.5	26	0	13.5	86
WB-Hartline	HWS	79	67	45	60.5	24	0	13.2	69
LCS Star	HWS	83	70	45	60.6	21	0	12.0	79
IDO862E	HRS			44	62.4	24	0	13.3	92
WB9411	HRS			43	60.8	22	0	13.7	84
LCS Iron (11SB0096)	HRS	71	65	43	59.5	25	0	12.7	89
Alum	HRS	69	59	43	62.0	25	0	13.3	87
WA8220	HRS			42	62.9	27	0	13.8	84
HRS 3361	HRS		64	41	59.3	23	0	14.2	90
Jefferson	HRS	72	64	41	61.8	25	0	13.6	92
WB7417	HWS			41	62.3	26	0	14.2	107
IDO1203S	HWS			41	61.6	22	0	13.5	94
HRS 3530	HRS			40	60.4	27	0	13.6	96
LCS Atomo	HWS		65	38	59.9	19	0	13.3	99
UI Winchester	HRS	64	57	38	60.7	22	0	13.7	75
10SB0087-B	HRS			37	61.6	23	0	13.9	89
WB9518	HRS	74	60	34	60.0	23	0	15.6	98
UI Platinum	HWS		56	30	61.3	21	0	13.2	74
WB9668	HRS			29	60.8	21	0	15.9	89
<b>Average</b>		<b>74</b>	<b>65</b>	<b>42</b>	<b>61.0</b>	<b>24</b>	<b>0</b>	<b>13.5</b>	<b>89</b>
<b>LSD (0.05)</b>		<b>4</b>	<b>4</b>	<b>6</b>	<b>0.6</b>	<b>2</b>	<b>-</b>	<b>0.5</b>	<b>5</b>
<b>CV (%)</b>		<b>7</b>	<b>7</b>	<b>11</b>	<b>0.7</b>	<b>6</b>	<b>-</b>	<b>2.9</b>	<b>4</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 23. Hard spring wheat variety performance results at Craigmont, 2015.**

Variety or Selection	Market Class	2014-2015 Crop Year							
		3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (inches)	Lodging (%)	Seed Protein (%)	Hardness Score (0-100)
UI Platinum	HWS		53	<b>42</b>	52.6	28	0	14.8	71
WB7417	HWS			<b>42</b>	53.0	30	0	16.0	93
IDO1202S	HWS		47	<b>41</b>	54.0	29	0	16.1	78
LCS Atomo	HWS		53	<b>41</b>	50.2	24	0	16.5	94
LCS Iron (11SB0096)	HRS	52	48	<b>39</b>	52.5	28	0	16.2	97
LCS Star	HWS	50	47	<b>39</b>	51.8	28	0	17.3	93
Dayn	HWS		45	<b>39</b>	53.5	30	0	16.7	94
WA8217	HRS		47	<b>38</b>	53.5	31	0	16.3	85
WB9518	HRS	52	50	<b>38</b>	53.0	27	0	16.2	87
WB9668	HRS			<b>38</b>	52.8	26	0	17.2	95
WB9411	HRS			<b>37</b>	53.4	28	0	16.1	81
10SB0087-B	HRS			<b>37</b>	54.2	25	0	16.8	87
Jefferson	HRS	50	46	<b>37</b>	53.2	28	0	16.7	86
IDO1203S	HWS			36	51.0	27	0	16.1	91
HRS 3530	HRS			36	53.1	32	2.5	16.2	91
UI Winchester	HRS	49	45	36	50.7	27	0	16.9	80
Glee	HRS	51	46	35	51.9	28	0	16.6	83
WB-Hartline	HWS	51	45	35	51.6	28	0	17.0	73
WA8220	HRS			34	55.6	28	0	16.1	74
IDO862E	HRS			33	51.1	28	0	16.3	91
Alum	HRS	44	37	33	54.6	27	0	17.3	92
HRS 3361	HRS		39	30	51.7	26	0	17.5	102
HRS 3504	HRS			27	51.6	24	0	17.3	106
HRS 3419	HRS		37	27	54.4	25	0	18.1	103
<b>Average</b>		<b>50</b>	<b>46</b>	<b>36</b>	<b>52.7</b>	<b>27</b>	<b>0.1</b>	<b>16.6</b>	<b>89</b>
<b>LSD (0.05)</b>		<b>4</b>	<b>4</b>	<b>6</b>	<b>1.2</b>	<b>2</b>	<b>1.4</b>	<b>0.9</b>	<b>5</b>
<b>CV (%)</b>		<b>11</b>	<b>9</b>	<b>12</b>	<b>1.6</b>	<b>5</b>	<b>980</b>	<b>4.0</b>	<b>4</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 24. Hard spring wheat variety performance results at Genesee, 2015.**

Variety or Selection	Market Class	2014-2015 Crop Year							
		3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (inches)	Lodging (%)	Seed Protein (%)	Hardness Score (0-100)
LCS Atomo	HWS		60	<b>67</b>	51.7	25	0	14.9	94
WA8217	HRS		62	<b>65</b>	55.6	34	0	14.8	86
WB7417	HWS			<b>61</b>	55.4	37	0	14.8	93
WB9518	HRS	61	55	58	52.7	32	0	15.5	84
10SB0087-B	HRS			57	53.6	33	0	15.1	82
IDO862E	HRS			56	54.3	32	0	14.7	87
IDO1203S	HWS			55	53.9	33	0	15.1	88
LCS Star	HWS	57	49	55	49.6	32	0	16.2	92
Glee	HRS	65	55	54	52.4	34	0	15.4	85
WB9668	HRS			54	53.9	29	0	16.1	93
UI Platinum	HWS		51	53	51.9	31	0	14.4	77
Alum	HRS	52	44	52	54.1	34	0	15.3	86
IDO1202S	HWS		47	51	55.3	35	0	14.8	90
Dayn	HWS		47	51	52.8	36	0	15.4	89
WA8220	HRS			50	53.9	36	0	15.1	80
WB9411	HRS			50	54.1	32	0	15.7	84
LCS Iron (11SB0096)	HRS	54	48	49	46.9	31	0	15.6	92
Jefferson	HRS	60	51	48	53.2	33	0	15.8	88
WB-Hartline	HWS	54	42	48	47.8	35	0	16.1	71
HRS 3504	HRS			46	51.3	31	0	15.8	96
UI Winchester	HRS	56	45	46	50.0	32	0	16.1	76
HRS 3361	HRS		45	43	49.6	33	0	15.9	96
HRS 3419	HRS		44	43	49.6	33	0	16.8	95
HRS 3530	HRS			42	52.0	39	0	16.2	97
<b>Average</b>		<b>57</b>	<b>50</b>	<b>52</b>	<b>52.3</b>	<b>33</b>	<b>0</b>	<b>15.5</b>	<b>88</b>
<b>LSD (0.05)</b>		<b>5</b>	<b>6</b>	<b>9</b>	<b>2.5</b>	<b>3</b>	<b>-</b>	<b>0.9</b>	<b>6</b>
<b>CV (%)</b>		<b>11</b>	<b>13</b>	<b>12</b>	<b>3.3</b>	<b>6</b>	<b>-</b>	<b>4.2</b>	<b>5</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.



**Table 25. Hard spring wheat variety performance results at Moscow, 2015.**

Variety or Selection	Market Class	2014-2015 Crop Year							
		3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (inches)	Lodging (%)	Seed Protein (%)	Hardness Score (0-100)
Dayn	HWS		64	<b>61</b>	58.1	33	0	14.5	94
WB9411	HRS			<b>60</b>	57.6	31	0	15.1	87
IDO1203S	HWS			<b>59</b>	57.8	30	0	14.3	93
LCS Atomo	HWS		63	<b>59</b>	55.2	25	0	14.3	100
WB-Hartline	HWS	70	67	<b>59</b>	53.8	32	0	15.2	74
WB7417	HWS			<b>59</b>	56.9	34	0	15.0	97
WB9668	HRS			<b>58</b>	57.2	29	0	15.8	94
UI Platinum	HWS		60	<b>57</b>	56.4	31	0	13.6	75
WB9518	HRS	58	59	<b>57</b>	58.2	31	0	15.1	89
Alum	HRS	66	61	<b>57</b>	58.0	33	0	15.4	89
UI Winchester	HRS	60	58	56	55.8	30	0	15.0	78
10SB0087-B	HRS			56	57.1	29	0	15.2	87
WA8217	HRS		63	54	58.2	33	0	14.5	89
IDO1202S	HWS		60	54	58.9	33	0	15.3	91
LCS Iron (11SB0096)	HRS	59	61	53	56.7	30	0	14.6	102
HRS 3361	HRS		57	53	53.9	30	0	15.6	98
Glee	HRS	66	62	53	56.0	32	0	15.0	84
LCS Star	HWS	68	61	53	55.1	30	0	14.5	89
Jefferson	HRS	62	59	51	56.1	32	0	15.4	90
HRS 3504	HRS			51	55.3	29	0	15.4	110
IDO862E	HRS			51	56.6	32	0	14.6	86
WA8220	HRS			50	58.1	33	0	15.0	82
HRS 3419	HRS		51	49	56.8	30	0	15.5	99
HRS 3530	HRS			48	56.1	35	0	15.5	94
<b>Average</b>		<b>64</b>	<b>60</b>	<b>55</b>	<b>56.7</b>	<b>31</b>	<b>0</b>	<b>15.0</b>	<b>90</b>
<b>LSD (0.05)</b>		<b>4</b>	<b>3</b>	<b>5</b>	<b>1.3</b>	<b>2</b>	<b>-</b>	<b>0.6</b>	<b>4</b>
<b>CV (%)</b>		<b>8</b>	<b>6</b>	<b>7</b>	<b>1.6</b>	<b>4</b>	<b>-</b>	<b>2.8</b>	<b>3</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 26. Hard spring wheat variety performance comparison across northern Idaho, 2015.**

Variety or Selection	Market Class	2014-2015 Crop Year											
		3-Year Average	2-Year Average	N. Idaho Average*	Bonnors Ferry	Craigmont	Genesee	Moscow	Test Weight	Plant Height	Lodging	Seed Protein	Hardness Score
				bu/A					(lb/bu)	(inches)	%		(0-100)
LCS Atomo	HWS	60	<b>51</b>	38	41	67	59	54.2	23	0	14.8	97	
WA8217	HRS	60	<b>51</b>	45	38	65	54	57.1	31	0	14.8	88	
WB7417	HWS		<b>51</b>	41	42	61	59	57.0	32	0	15.0	97	
Dayn	HWS	57	<b>49</b>	47	39	51	61	56.4	31	0	14.8	92	
IDO1202S	HWS	56	<b>49</b>	50	41	51	54	57.6	31	0	14.7	86	
IDO1203S	HWS		<b>48</b>	41	36	55	59	56.1	28	0	14.7	91	
LCS Star	HWS	64	57	<b>48</b>	45	39	55	54.3	28	0	15.0	88	
WB9411	HRS			<b>47</b>	43	37	50	56.5	28	0	15.1	84	
Glee	HRS	65	57	<b>47</b>	45	35	54	55.4	30	0	15.1	84	
WB9518	HRS	61	55	<b>47</b>	34	38	58	56.0	28	0	15.6	89	
WB-Hartline	HWS	64	56	<b>47</b>	45	35	48	53.4	29	0	15.4	72	
10SB0087-B	HRS			46	37	37	57	56.6	27	0	15.3	86	
LCS Iron (11SB0096)	HRS	60	55	46	43	39	49	54.4	28	0	14.8	95	
Alum	HRS	59	50	46	43	33	52	57.2	30	0	15.3	88	
IDO862E	HRS			46	44	33	56	56.1	29	0	14.7	89	
UI Platinum	HWS		55	46	30	42	53	55.6	28	0	14.0	74	
WB9668	HRS			45	29	38	54	56.2	26	0	16.2	93	
Jefferson	HRS	61	55	44	41	37	48	56.1	29	0	15.4	89	
HRS 3419	HRS		52	44	57	27	43	54.9	28	0	15.7	97	
HRS 3504	HRS			44	53	27	46	54.8	27	0	15.4	104	
WA8220	HRS			44	42	34	50	57.6	31	0	15.0	80	
UI Winchester	HRS	57	51	44	38	36	46	54.3	28	0	15.4	77	
HRS 3361	HRS		51	42	41	30	43	53.6	28	0	15.8	96	
HRS 3530	HRS			42	40	36	42	55.4	33	0.6	15.3	95	
<b>Average</b>		<b>61</b>	<b>55</b>	<b>46</b>	<b>42</b>	<b>36</b>	<b>52</b>	<b>55.7</b>	<b>29</b>	<b>-</b>	<b>15.1</b>	<b>89</b>	
<b>LSD (0.05)</b>		<b>2</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>9</b>	<b>5</b>	<b>0.9</b>	<b>1</b>	<b>-</b>	<b>0.5</b>	<b>3</b>
<b>CV (%)</b>		<b>8</b>	<b>8</b>	<b>17</b>	<b>11</b>	<b>12</b>	<b>12</b>	<b>7</b>	<b>2.3</b>	<b>6</b>	<b>-</b>	<b>4.6</b>	<b>4</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2014.

**Table 27. Spring barley variety performance results at Bonners Ferry, 2015.**

Variety or Selection	2014-2015 Crop Year									
	3-Year	2-Year	Seed	Test	Plant	Plumps (%)		Thins	Lodging	Seed
	Average	Average	Yield	Weight	Height	>6/64	>5.5/64	(%)	(%)	Protein
	(bu/A)	(bu/A)	(bu/A)*	(lb/bu)	(inches)					(%)
<b>Feed</b>										
BZ509-216		114	<b>84</b>	49.3	23	96	3	1	0	10.9
Lenetah	113	105	<b>80</b>	50.0	23	97	2	1	0	11.0
09WA-232.16			<b>78</b>	49.8	23	97	2	1	0	11.4
09WA-203.36			<b>75</b>	49.0	24	94	5	2	0	11.0
Camas	111	102	<b>75</b>	50.1	22	95	4	1	0	10.5
Lyon		98	<b>75</b>	48.8	24	96	3	1	0	11.5
10WA-106.18			<b>74</b>	49.7	24	95	4	1	0	10.9
BZ509-448		102	<b>74</b>	49.7	21	98	1	1	0	11.7
LCS Vespa	113	102	<b>73</b>	49.3	21	99	1	<1	0	11.9
09WA-203.24		102	71	49.7	23	98	2	1	0	11.3
BZ509-601		101	71	48.9	24	96	3	1	0	11.4
Champion	107	98	71	50.8	24	96	3	1	0	11.5
Muir		94	71	49.3	25	98	2	1	0	11.9
Tetonia	112	100	70	49.4	24	96	3	1	0	11.3
RWA-1758		94	70	48.8	21	97	2	1	0	11.7
<b>Malt</b>										
Merem		110	<b>85</b>	50.5	27	95	4	1	0	12.2
LCS Overture			<b>78</b>	49.3	21	99	<1	1	0	11.3
LCS Odyssey			<b>73</b>	49.1	21	98	1	<1	0	11.0
CDC-Copeland	110	100	<b>73</b>	50.1	26	99	1	<1	0	11.0
2Ab08-X05M010-82	106	97	<b>73</b>	48.8	23	95	4	1	0	11.7
2Ab04-X01084-27		93	70	47.9	21	96	3	1	0	11.9
2Ab07-X031098-31		95	66	49.1	26	95	4	1	0	11.7
LCS Genie	106	96	63	49.3	19	98	1	1	0	11.8
<b>Food</b>										
Kardia**			<b>72</b>	49.0	25	94	5	1	0	13.4
Salute		86	61	48.9	25	99	1	<1	0	13.5
2Ab09-X06F058HL-31		70	49	53.3	22	94	4	2	0	15.5
BG 012			49	51.9	18	56	34	9	0	15.1
Transit		59	35	54.3	28	66	30	4	0	17.4
<b>Average</b>	<b>110</b>	<b>96</b>	<b>75</b>	<b>49.5</b>	<b>23</b>	<b>97</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>12.1</b>
<b>LSD (0.05)</b>	<b>8</b>	<b>8</b>	<b>13</b>	<b>1.2</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>-</b>
<b>CV (%)</b>	<b>9</b>	<b>8</b>	<b>13</b>	<b>1.7</b>	<b>10</b>	<b>3</b>	<b>48</b>	<b>66</b>	<b>-</b>	<b>-</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

\*\*Kardia was 2Ab09-X06F084-51.

**Table 28. Spring barley variety performance results at Craigmont, 2015.**

Variety or Selection	2014-2015 Crop Year									
	3-Year Average (bu/A)	2-Year Average (bu/A)	Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (inches)	Plumps (%)		Thins (%)	Lodging (%)	Seed Protein (%)
						>6/64	>5.5/64			
<b>Feed</b>										
BZ509-601		70	<b>52</b>	44.0	30	5	22	73	0.0	13.2
Champion	74	70	<b>50</b>	44.2	32	6	18	77	5.0	13.6
Lenetah	75	71	<b>50</b>	44.8	31	11	29	60	2.5	13.3
10WA-106.18			<b>49</b>	42.7	33	5	16	79	5.0	11.8
BZ509-216		70	<b>49</b>	42.9	32	9	29	62	2.5	14.3
09WA-232.16			<b>48</b>	41.7	31	8	23	68	2.5	13.2
09WA-203.24		69	<b>47</b>	42.9	29	12	22	67	0.0	14.4
BZ509-448		65	46	43.6	26	15	27	58	0.0	14.4
Camas	70	64	46	44.5	32	6	17	77	7.5	14.0
09WA-203.36			45	42.0	30	5	11	84	7.5	14.0
RWA-1758		60	45	42.9	29	7	26	67	0.0	14.4
Lyon		61	44	40.1	32	5	18	77	7.5	14.6
Muir		61	42	41.8	31	10	26	64	5.0	14.2
Tetonia	65	60	42	41.8	30	5	16	79	2.5	14.9
LCS Vespa	67	62	39	41.4	26	10	30	60	0.0	14.7
<b>Malt</b>										
LCS Odyssey			41	41.0	27	14	34	52	0.0	14.5
2Ab07-X031098-31		58	40	41.9	30	9	19	72	0.0	16.7
2Ab04-X01084-27		56	38	37.4	29	8	15	77	0.0	15.8
2Ab08-X05M010-82	62	57	37	42.4	29	11	25	65	0.0	15.9
LCS Overture			36	40.9	26	13	31	56	0.0	14.7
LCS Genie	64	54	33	43.2	25	19	37	44	0.0	15.2
CDC-Copeland	57	51	32	41.3	31	11	31	58	5.0	15.2
Merem		43	19	46.5	29	20	33	47	2.5	15.0
<b>Food</b>										
Salute		61	40	39.2	30	16	42	43	0.0	16.3
2Ab09-X06F058HL-31		48	29	47.9	28	10	27	63	0.0	17.4
Kardia**			25	42.6	30	30	41	29	0.0	17.1
Transit		37	14	44.7	33	3	18	79	2.5	19.1
<b>Average</b>	<b>67</b>	<b>59</b>	<b>42</b>	<b>42</b>	<b>29</b>	<b>10</b>	<b>24</b>	<b>66</b>	<b>2.4</b>	<b>11.1</b>
<b>LSD (0.05)</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>2.3</b>	<b>2</b>	<b>6</b>	<b>6</b>	<b>10</b>	<b>6.0</b>	<b>-</b>
<b>CV (%)</b>	<b>9</b>	<b>8</b>	<b>11</b>	<b>3.8</b>	<b>4</b>	<b>39</b>	<b>18</b>	<b>11</b>	<b>199.9</b>	<b>-</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

\*\*Kardia was 2Ab09-X06F084-51.

**Table 29. Spring barley variety performance results at Genesee, 2015.**

Variety or Selection	2014-2015 Crop Year									
	3-Year	2-Year	Seed	Test	Plant	Plumps (%)		Thins	Lodging	Seed
	Average	Average	Yield	Weight	Height	(>6/64)	(>5.5/64)	(%)	(%)	Protein
	(bu/A)	(bu/A)	(bu/A)*	(lb/bu)	(inches)					(%)
<b>Feed</b>										
09WA-203.36			<b>136</b>	52.1	37	78	17	5	5.0	12.2
09WA-232.16			<b>135</b>	51.6	35	76	18	6	5.0	11.5
09WA-203.24		105	<b>134</b>	51.0	36	75	18	7	7.5	12.2
10WA-106.18			<b>133</b>	51.6	36	69	22	8	23.8	10.1
Champion	104	106	<b>129</b>	52.7	36	81	16	3	1.3	11.8
Lyon		106	<b>129</b>	50.8	33	78	16	6	16.3	12.5
BZ509-448		101	<b>128</b>	49.5	31	59	26	15	8.8	11.4
BZ509-216		102	<b>127</b>	48.6	37	63	25	12	5.0	12.1
Lenetah	99	100	124	51.7	35	82	15	3	1.3	10.7
LCS Vespa	102	97	123	48.7	31	63	26	11	0.0	11.7
BZ509-601		103	122	51.8	34	66	26	8	0.0	11.8
Camas	95	96	120	52.8	36	76	17	7	2.5	11.7
Tetonia	96	94	117	48.9	36	53	32	15	1.3	12.6
RWA-1758		99	115	50.7	32	69	21	10	7.5	12.4
Muir		95	112	49.1	35	70	22	8	20.0	14.3
<b>Malt</b>										
LCS Odyssey			124	45.9	34	84	13	4	6.3	10.6
Merem		88	118	50.0	40	72	18	10	6.3	11.7
LCS Overture			113	45.1	33	78	15	8	2.5	11.1
2Ab08-X05M010-82	94	93	113	48.3	35	55	29	17	1.3	12.5
2Ab07-X031098-31		87	110	47.7	38	61	25	14	37.5	15.3
CDC-Copeland	90	89	110	48.3	39	71	20	9	35.0	13.7
2Ab04-X01084-27		87	110	46.0	35	71	21	8	5.0	13.3
LCS Genie	94	90	109	47.1	32	67	21	12	55.0	13.1
<b>Food</b>										
Salute		89	110	49.9	35	82	13	5	6.3	13.7
Kardia**			108	47.1	38	58	28	14	2.5	14.2
2Ab09-X06F058HL-31		69	86	53.9	35	58	28	14	45.0	14.6
Transit		67	83	56.4	37	36	47	17	0.0	16.0
<b>Average</b>	<b>97</b>	<b>93</b>	<b>121</b>	<b>49.5</b>	<b>35</b>	<b>70</b>	<b>21</b>	<b>9</b>	<b>11.0</b>	<b>12.5</b>
<b>LSD (0.05)</b>	<b>6</b>	<b>8</b>	<b>12</b>	<b>2.1</b>	<b>2</b>	<b>13</b>	<b>8</b>	<b>6</b>	<b>19.7</b>	<b>-</b>
<b>CV (%)</b>	<b>7</b>	<b>9</b>	<b>7</b>	<b>3.0</b>	<b>4</b>	<b>13</b>	<b>25</b>	<b>42</b>	<b>123.0</b>	<b>-</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

\*\*Kardia was 2Ab09-X06F084-51.

**Table 30. Spring barley variety performance results at Moscow, 2015.**

Variety or Selection	3-Year Average (bu/A)	2-Year Average (bu/A)	2014-2015 Crop Year							
			Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (inches)	Plumps (%)		Thins (%)	Lodging (%)	Seed Protein (%)
						(>6/64)	(>5.5/64)			
<b>Feed</b>										
10WA-106.18			<b>87</b>	53.2	33	74	23	3	0	8.3
Champion	83	87	<b>85</b>	53.4	32	82	16	2	0	8.8
Tetonia	79	85	<b>85</b>	52.4	31	77	19	4	0	8.7
BZ509-601		88	<b>85</b>	53.5	31	76	21	2	0	8.4
BZ509-216		85	<b>84</b>	51.3	34	74	21	5	0	8.9
BZ509-448		86	<b>84</b>	51.6	27	86	12	3	0	8.7
LCS Vespa	80	85	<b>82</b>	52.1	28	94	5	1	0	8.7
RWA-1758		86	<b>82</b>	52.6	28	93	5	2	0	8.6
09WA-203.36			<b>82</b>	51.9	30	80	16	3	0	9.0
Muir		85	<b>82</b>	51.8	31	85	13	2	0	8.5
Lenetah	78	81	<b>81</b>	52.8	33	91	8	1	0	8.5
09WA-203.24		85	80	52.8	30	89	9	2	0	9.1
09WA-232.16			80	52.7	31	80	17	3	0	9.6
Lyon		82	77	52.1	31	88	11	2	0	8.6
Camas	76	81	76	54.5	32	82	16	2	0	8.6
<b>Malt</b>										
LCS Overture			<b>84</b>	53.0	29	95	3	2	0	8.5
LCS Odyssey			<b>83</b>	51.4	29	95	4	1	0	8.4
2Ab04-X01084-27		82	<b>81</b>	49.9	31	90	8	2	0	9.1
2Ab08-X05M010-82	75	79	79	52.1	30	81	17	3	0	8.6
2Ab07-X031098-31		81	77	51.4	32	85	13	2	0	9.4
CDC-Copeland	70	81	76	51.4	32	91	7	2	0	8.9
Merem		75	73	51.8	32	86	12	2	0	8.4
LCS Genie	73	78	69	52.5	29	94	4	1	0	9.2
<b>Food</b>										
Kardia**			69	51.2	32	91	8	1	0	11.4
Salute		76	69	50.8	32	94	5	1	0	10.6
2Ab09-X06F058HL-31		58	46	61.8	31	36	52	12	0	13.1
Transit		53	44	57.7	34	24	60	16	0	13.9
<b>Average</b>	<b>76</b>	<b>80</b>	<b>80</b>	<b>52</b>	<b>31</b>	<b>86</b>	<b>12</b>	<b>2</b>	<b>0</b>	<b>9.3</b>
<b>LSD (0.05)</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>0.9</b>	<b>2</b>	<b>5</b>	<b>4</b>	<b>1</b>	-	-
<b>CV (%)</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>1.2</b>	<b>4</b>	<b>5</b>	<b>20</b>	<b>34</b>	-	-

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

\*\*Kardia was 2Ab09-X06F084-51.

**Table 31. Spring barley performance comparison across northern Idaho, 2015.**

Variety or Selection	2014-2015 Crop Year												
	3-Year Average	2-Year Average	N. Idaho Average*	Bonnors Ferry	Craigmont	Genesee	Moscow	Test Weight	Plant Height	Plumps (>6/64)	Plumps (>5.5/64)	Thins	Lodging
	-----bu/A-----						(lb/bu)	(inches)	-----%-----				
<b>Feed</b>													
BZ509-216		93	<b>86</b>	84	49	127	84	48.0	31	60	20	20	2
10WA-106.18			<b>86</b>	74	49	133	87	49.3	31	61	17	23	7
09WA-232.16			<b>85</b>	78	48	135	80	48.9	30	65	15	20	2
09WA-203.36			<b>85</b>	75	45	136	82	48.7	30	64	12	24	3
Champion	92	90	<b>84</b>	71	50	129	85	50.3	31	66	13	21	2
Lenetah	90	89	<b>84</b>	80	50	124	81	50.2	30	70	13	16	1
09WA-203.24		90	<b>83</b>	71	47	134	80	49.1	29	68	13	19	2
BZ509-448		88	<b>83</b>	74	46	128	84	48.6	26	64	16	19	2
BZ509-601		90	<b>82</b>	71	52	122	85	49.5	30	61	18	21	0
Lyon		87	<b>81</b>	75	44	129	77	47.9	30	67	12	21	6
LCS Vespa	91	87	79	73	39	123	82	47.9	27	66	16	18	0
Camas	88	86	79	75	46	120	76	50.5	30	65	14	22	3
Tetonia	88	85	78	70	42	117	85	48.1	30	58	17	25	1
RWA-1758		85	78	70	45	115	82	48.7	27	67	14	20	2
Muir		84	76	71	42	112	82	48.0	30	66	16	19	6
<b>Malt</b>													
LCS Odyssey			<b>80</b>	73	41	124	83	46.8	27	73	13	14	2
LCS Overture			78	78	36	113	84	47.0	27	71	12	16	1
2Ab08-X05M010-82	84	81	75	73	37	113	79	47.9	29	60	18	21	<1
2Ab04-X01084-27		79	75	70	38	110	81	45.3	29	66	12	22	1
Merem		79	74	85	19	118	73	49.7	32	68	17	15	2
2Ab07-X031098-31		80	73	66	40	110	77	47.5	31	63	15	22	9
CDC-Copeland	83	80	73	73	32	110	76	47.8	32	68	15	17	10
LCS Genie	85	80	68	63	33	109	69	48.0	26	70	16	14	14
<b>Food</b>													
Salute		78	70	61	40	110	69	47.2	30	72	15	12	2
Kardia**			68	72	25	108	69	47.5	31	68	20	11	1
2Ab09-X06F058HL-31		61	52	49	29	86	46	54.2	29	49	28	23	11
Transit		54	44	35	14	83	44	53.3	33	32	39	29	1
BG 012***			49	49	-	-	-	51.9	18	56	34	9	0
<b>Average</b>	<b>88</b>	<b>82</b>	<b>76</b>	<b>70</b>	<b>42</b>	<b>118</b>	<b>77</b>	<b>48.9</b>	<b>29</b>	<b>64</b>	<b>17</b>	<b>19</b>	<b>3</b>
<b>LSD (0.05)</b>	<b>3</b>	<b>3</b>	<b>7</b>	<b>13</b>	<b>6</b>	<b>12</b>	<b>7</b>	<b>1.2</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>CV (%)</b>	<b>8</b>	<b>8</b>	<b>13</b>	<b>13</b>	<b>11</b>	<b>7</b>	<b>6</b>	<b>3.3</b>	<b>7</b>	<b>11</b>	<b>31</b>	<b>33</b>	<b>234</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

\*\*Kardia was 2Ab09-X06F084-51.

\*\*\*BG 012 only seeded at Bonnors Ferry.

**Table 32. Winter barley variety performance results at Bonners Ferry, 2015.**

Variety or Selection	Class	3-Year Average (bu/A)	2-Year Average (bu/A)	2014-2015 Crop Year						
				Seed Yield (bu/A)*	Test Weight (lb/bu)	Plant Height (inches)	Plumps (%)		Thins (%)	Seed Protein (%)
							(>6/64)	(>5.5/64)		
<b>6-row</b>										
Sunstar Pride	Feed	115	132	<b>144</b>	49.5	27	78.8	16.0	5.3	7.6
Eight-Twelve	Feed	115	120	<b>132</b>	50.0	27	88.0	9.3	2.5	8.5
Strider	Feed	103	108	115	47.5	28	96.5	3.3	0.8	8.7
Maja	Feed/malt			108	49.7	27	94.3	4.8	1.3	9.0
Alba	Feed	90	88	101	49.2	28	92.0	5.8	2.0	9.1
Verdant	Hooded, forage			97	42.4	32	88.0	9.3	3.0	9.5
09-OR86	Hulless			52	60.1	26	77.5	18.3	4.3	11.1
<b>2-row</b>										
05ARS561-208	Malt			<b>134</b>	48.7	29	94.5	4.5	1.3	7.4
02Ab671	Malt	90	90	128	51.0	33	99.0	0.8	0.2	8.6
93Ab669	Malt		89	122	50.0	31	98.3	1.3	0.3	8.8
02Ab431	Malt	75	78	111	50.5	30	98.3	1.0	0.5	8.7
Charles	Malt	79	70	100	49.2	24	97.0	2.3	0.8	9.0
Endeavor	Malt	73	73	96	50.6	31	97.0	2.0	0.5	9.5
Calypso	Feed			96	50.6	29	98.5	0.8	0.5	9.7
04ARS635-4	Malt			92	49.3	30	96.0	3.3	0.8	8.5
05ARS748-270	Hulless			44	53.2	27	86.8	11.0	2.3	13.4
<b>Average</b>		<b>92</b>	<b>94</b>	<b>105</b>	<b>50.1</b>	<b>29</b>	<b>92.5</b>	<b>5.9</b>	<b>1.6</b>	<b>9.2</b>
<b>LSD (0.05)</b>		<b>11</b>	<b>12</b>	<b>16</b>	<b>2.5</b>	<b>3</b>	<b>6.3</b>	<b>5.0</b>	<b>1.7</b>	<b>-</b>
<b>CV (%)</b>		<b>14</b>	<b>12</b>	<b>11</b>	<b>3.5</b>	<b>8</b>	<b>4.8</b>	<b>60.0</b>	<b>73.9</b>	<b>-</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.



**Table 33. Dry pea variety performance results at Craigmont, 2015.**

Variety or Selection	Market Class	3-Year Average (lb/A)	2-Year Average (lb/A)	2014-2015 Crop Year				
				Seed Yield (lb/A)*	100 Seed Weight (gram)	Plant Height (inches)	Canopy Height (inches)	Erect Index (0-1)
PS07100925	Yellow	1815	1578	<b>1680</b>	23.9	20	16	0.83
PS05100840	Green	1939	1842	<b>1539</b>	25.2	18	17	0.92
PS08100950	Yellow			<b>1439</b>	28.6	17	15	0.87
PS07100470	Green			<b>1424</b>	21.4	21	16	0.79
Hampton	Green	1888	1629	<b>1397</b>	25.4	18	15	0.83
Carousel	Yellow	1939	1541	<b>1340</b>	27.3	21	18	0.84
PS08100582	Green	1900	1514	<b>1273</b>	27.5	20	17	0.84
PS08101004	Yellow	2126	1632	1128	23.0	19	17	0.88
PS03101445	Green	1735	1273	1073	24.7	19	15	0.78
PS08101022	Yellow			1069	24.6	16	13	0.84
Ginny	Green	1922	1511	1063	21.4	18	14	0.80
Pro 131-7123	Green			1043	24.6	17	15	0.92
Aragorn	Green	1737	1289	1042	21.7	18	14	0.80
Pro 822	Yellow	1874	1289	1006	27.3	19	16	0.82
PS10100158	Green			946	20.0	19	15	0.79
PS08100133	Green	1910	1373	926	25.1	17	15	0.87
Ariel	Green	1500	1117	905	19.8	16	15	0.98
Greenwood	Green	1851	1417	902	21.8	15	15	0.97
PS10100370	Green			891	26.0	18	16	0.85
Banner	Green	1809	1306	646	20.3	19	14	0.78
Columbian	Green	1353	880	548	24.5	28	10	0.37
<b>Average</b>		<b>1820</b>	<b>1413</b>	<b>1108</b>	<b>24.0</b>	<b>19</b>	<b>15</b>	<b>0.83</b>
<b>LSD (0.05)</b>		<b>234</b>	<b>300</b>	<b>437</b>	<b>4.9</b>	<b>4</b>	<b>3</b>	<b>0.15</b>
<b>CV (%)</b>		<b>16</b>	<b>21</b>	<b>28</b>	<b>14.5</b>	<b>16</b>	<b>13</b>	<b>13.0</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 34. Dry pea variety performance results southeast of Genesee, 2015.**

Variety or Selection	Market Class	3-Year Average (lb/A)*	2-Year Average (lb/A)	2014-2015 Crop Year				
				Seed Yield (lb/A)**	100 Seed Weight (gram)	Plant Height (inches)	Canopy Height (inches)	Erect Index (0-1)
Pro 822	Yellow	-	2331	<b>2302</b>	21.0	28	22	0.80
PS05100840	Green	-	2178	<b>2104</b>	18.5	29	23	0.81
PS07100925	Yellow	-	2016	<b>2047</b>	20.2	31	25	0.83
Ginny	Green	-	2111	2033	17.4	29	23	0.77
PS08101022	Yellow	-		2021	20.5	31	20	0.67
PS08101004	Yellow	-	2253	1952	19.7	28	24	0.87
Greenwood	Green	-	2103	1884	16.3	31	20	0.70
Ariel	Green	-	1836	1861	15.7	29	20	0.70
Pro 131-7123	Green	-		1829	14.5	27	24	0.89
Aragorn	Green	-	1920	1811	17.8	30	23	0.77
PS07100470	Green	-		1790	15.9	28	23	0.82
PS10100370	Green	-		1735	18.4	29	23	0.79
PS08100582	Green	-	1902	1697	16.8	28	25	0.89
Carousel	Yellow	-	1799	1675	18.5	27	23	0.86
PS08100133	Green	-	1875	1669	16.3	30	25	0.83
Columbian	Green	-	1590	1652	16.7	27	22	0.84
PS10100158	Green	-		1648	14.1	32	24	0.76
PS03101445	Green	-	1650	1616	16.8	29	23	0.81
PS08100950	Yellow	-		1567	21.0	27	19	0.71
Hampton	Green	-	1941	1550	16.1	30	25	0.84
Banner	Green	-	1839	1548	17.3	28	21	0.76
<b>Average</b>				<b>1809</b>	<b>17.6</b>	<b>29</b>	<b>23</b>	<b>0.80</b>
<b>LSD (0.05)</b>			<b>168</b>	<b>261</b>	<b>1.5</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>
<b>CV (%)</b>			<b>7</b>	<b>10</b>	<b>5.8</b>	<b>10</b>	<b>14</b>	<b>14.8</b>

\*No 3-year average for Genesee. Trial included at this location in 2013, but could not be harvested.

\*\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 35. Dry pea variety performance results at Moscow, 2015.**

Variety or Selection	Market Class	3-Year Average (lb/A)	2-Year Average (lb/A)	2014-2015 Crop Year				
				Seed Yield (lb/A)*	100 Seed Weight (gram)	Plant Height (inches)	Canopy Height (inches)	Erect Index (0.1-1.0)
PS05100840	Green	2105	1815	<b>1064</b>	15.9	22	18	0.78
PS08101004	Yellow	2592	1806	<b>897</b>	15.4	24	16	0.69
PS08101022	Yellow			<b>821</b>	13.3	18	14	0.82
PS10100370	Green			<b>810</b>	15.0	23	18	0.77
PS07100470	Green			659	12.5	20	16	0.78
PS08100950	Yellow			584	16.4	18	13	0.76
Ginny	Green	2316	1393	547	12.6	16	14	0.87
Pro 131-7123	Green			536	11.7	19	14	0.73
PS03101445	Green	1926	929	535	14.3	20	14	0.71
PS07100925	Yellow	2199	1247	512	14.4	16	13	0.79
Carousel	Yellow	1643	1241	508	14.2	20	17	0.84
Greenwood	Green	2013	1274	504	11.4	17	14	0.86
Pro 822	Yellow	2204	1149	481	12.3	20	13	0.68
PS08100133	Green	1850	1136	479	13.9	21	15	0.74
Columbian	Green	1912	1052	453	13.6	26	11	0.43
PS10100158	Green			437	11.9	20	14	0.72
Aragorn	Green	1835	1150	422	11.3	19	14	0.73
PS08100582	Green	1937	1090	367	12.8	16	12	0.80
Ariel	Green	1976	925	366	10.2	16	13	0.79
Hampton	Green	2199	1313	291	12.8	15	12	0.82
Banner	Green	1960	906	269	11.5	17	11	0.68
<b>Average</b>		<b>2045</b>	<b>1228</b>	<b>550</b>	<b>13.2</b>	<b>19</b>	<b>14</b>	<b>0.75</b>
<b>LSD (0.05)</b>		<b>375</b>	<b>256</b>	<b>255</b>	<b>1.8</b>	<b>4</b>	<b>3</b>	<b>0.14</b>
<b>CV (%)</b>		<b>23</b>	<b>21</b>	<b>33</b>	<b>9.9</b>	<b>15</b>	<b>14</b>	<b>12.5</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 36. Dry pea performance comparison across northern Idaho, 2015.**

Variety or Selection	Market Class	2014-2015 Crop Year									
		3-Year Average*	2-Year Average**	N. Idaho Average***	Craigmont	Genesee	Moscow	100 Seed Weight	Vine Length	Canopy Height	Erect Index
				(lb/A)			(grams)	(inches)	(inches)	(0.1-1.0)	
PS05100840	Green	2007	1610	1569	1539	2104	1064	19.9	23	19	0.84
PS07100925	Yellow	2007	1610	1413	1680	2047	512	19.5	22	18	0.82
PS08101004	Yellow	2359	1897	1325	1128	1952	897	19.4	23	19	0.81
PS08101022	Yellow			1304	1069	2021	821	19.4	21	16	0.78
PS07100470	Green			1291	1424	1790	659	16.6	23	18	0.79
Pro 822	Yellow	2039	1590	1263	1006	2302	481	20.2	22	17	0.77
Ginny	Green	2119	1671	1214	1063	2033	547	17.1	21	17	0.81
PS08100950	Yellow			1196	1439	1567	584	22.0	21	16	0.78
Carousel	Yellow	1791	1527	1174	1340	1675	508	20.0	23	19	0.84
PS10100370	Green			1145	891	1735	810	19.8	23	19	0.80
Pro 131-7123	Green			1136	1043	1829	536	17.0	21	18	0.85
PS08100582	Green	1919	1502	1112	1273	1697	367	19.0	21	18	0.84
Greenwood	Green	1932	1598	1097	902	1884	504	16.5	21	16	0.84
Aragorn	Green	1786	1453	1091	1042	1811	422	16.9	22	17	0.77
Hampton	Green	2043	1627	1080	1397	1550	291	18.1	21	17	0.83
PS03101445	Green	1831	1284	1074	1073	1616	535	18.6	23	17	0.77
Ariel	Green	1738	1292	1044	905	1861	366	15.2	20	16	0.82
PS08100133	Green	1880	1461	1024	926	1669	479	18.4	23	18	0.81
PS10100158	Green			1010	946	1648	437	15.3	23	18	0.76
Columbian	Green	1633	1174	884	548	1652	453	18.2	27	14	0.54
Banner	Green	1885	1350	821	646	1548	269	16.4	21	15	0.74
<b>Average</b>		<b>1932</b>	<b>1532</b>	<b>1156</b>	<b>1108</b>	<b>1809</b>	<b>550</b>	<b>18.3</b>	<b>22</b>	<b>17</b>	<b>0.79</b>
<b>LSD (0.05)</b>		<b>220</b>	<b>138</b>	<b>ns</b>	<b>437</b>	<b>261</b>	<b>255</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>0.10</b>
<b>CV (%)</b>		<b>20</b>	<b>16</b>	<b>53</b>	<b>28</b>	<b>10</b>	<b>33</b>	<b>28.5</b>	<b>27</b>	<b>28</b>	<b>15.8</b>

\*Craigmont and Moscow represented in average.

\*\*Craigmont, Genesee, and Moscow represented in average.

\*\*\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 37. Spring lentil variety performance results southeast of Genesee (rim area), 2015.**

Variety or Selection	Market Class	3-Year Average (lb/A)	2-Year Average (lb/A)	2014-2015 Crop Year				
				Seed Yield (lb/A)*	100 Seed Weight (grams)	Plant Height (inches)	Canopy Height (inches)	Erect Index (0.1-1.0)
Pardina	Pardina	1099	1222	<b>1316</b>	3.2	13	11	0.87
Avondale	Richlea	1299	1265	<b>1257</b>	4.0	15	11	0.74
LC01602273E	Eston	1114	1283	<b>1257</b>	2.9	13	11	0.82
Morena	Pardina	1122	1186	<b>1156</b>	3.6	15	13	0.85
Richlea	Richlea	1172	1186	<b>1067</b>	4.1	14	12	0.89
LC09600410L	Laird			1040	6.1	14	13	0.93
LC01602062T	Turkish red	957	1027	1030	3.4	14	10	0.64
Merrit	Laird	964	1080	1018	4.6	15	12	0.81
LC10600494P	Pardina			1013	3.4	15	12	0.85
LC08600113P	Pardina	960	969	990	3.8	14	12	0.93
LC11600362R	Richlea			964	3.8	15	13	0.84
LC11600361R	Richlea			958	4.1	15	12	0.81
LC11600380L	Laird			925	5.4	14	13	0.97
LC06601734L	Laird	971	1064	917	5.5	16	13	0.84
LC08600116P	Pardina		981	852	4.0	14	11	0.76
Eston	Eston	863	869	830	2.7	13	11	0.80
LC10600231P	Pardina			816	3.6	13	10	0.81
Crimson	Turkish red		806	647	2.1	14	11	0.86
<b>Average</b>		<b>1052</b>	<b>1078</b>	<b>760</b>	<b>4.3</b>	<b>13</b>	<b>9</b>	<b>0.6</b>
<b>LSD (0.05)</b>		<b>118</b>	<b>144</b>	<b>194</b>	<b>0.3</b>	<b>2</b>	<b>2</b>	<b>ns</b>
<b>CV (%)</b>		<b>14</b>	<b>13</b>	<b>18</b>	<b>4.6</b>	<b>9</b>	<b>13</b>	<b>15.9</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 38. Chickpea variety performance results southeast of Genesee, 2015.**

Variety or Selection	3-Year Average (lb/A)	2-Year Average (lb/A)	2014-2015 Crop year						
			Seed Yield (lb/A)*	100 Seed Weight (grams)	Plant Height (inches)	Chickpea Size (%)			
						(>25/64")	(>22/64")	(>20/64")	(<20/64")
CDC Orion			<b>1523</b>	42.7	14	5	67	25	4
CA0890B0531C			<b>1389</b>	47.7	14	23	61	12	3
CA0790B0547C			<b>1377</b>	50.0	15	9	75	14	2
CA0790B0642C		1494	<b>1232</b>	54.5	14	38	56	5	1
CDC Leader			<b>1166</b>	39.3	13	3	58	34	5
CDC Frontier	1942	1427	<b>1153</b>	38.2	15	1	41	51	8
Bronic		1366	1079	37.5	17	0	37	50	13
BillyBeans	1948	1454	1054	30.0	15	1	14	46	38
Sawyer	1778	1353	1017	45.7	14	9	65	24	2
CA0790B0733C		1448	969	48.2	14	15	75	8	2
CA0790B0054C	1528	1194	810	51.5	15	18	71	9	2
Nash	1779	1351	809	58.6	14	46	50	4	1
CA0890B0551C			795	54.2	13	44	51	4	2
CA0790B0043C	1524	1161	790	50.4	18	27	64	7	1
CA0890B0429C			768	55.4	15	48	48	3	0
Sierra	1527	1122	487	47.1	15	12	74	13	2
<b>Average</b>	<b>1718</b>	<b>1337</b>	<b>1026</b>	<b>46.9</b>	<b>15</b>	<b>19</b>	<b>57</b>	<b>19</b>	<b>5</b>
<b>LSD (0.05)</b>	<b>186</b>	<b>245</b>	<b>392</b>	<b>2.0</b>	<b>1</b>	<b>7</b>	<b>9</b>	<b>4</b>	<b>5</b>
<b>CV (%)</b>	<b>13</b>	<b>18</b>	<b>27</b>	<b>2.9</b>	<b>7</b>	<b>24</b>	<b>11</b>	<b>14</b>	<b>61</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 39. Chickpea variety performance results at Moscow, 2015.**

Variety or Selection	2014-2015 Crop Year								
	3-Year Average (lb/A)	2-Year Average (lb/A)	Seed Yield (lb/A)*	100 Seed Weight (grams)	Plant Height (inches)	Chickpea Size (%)			
						(>25/64")	(>22/64")	(>20/64")	(<20/64")
Bronic		1664	<b>1403</b>	42.3	23	1	32	53	15
CA0790B0642C		1499	<b>1390</b>	54.5	21	31	60	7	2
CDC Orion	2003	1445	<b>1357</b>	42.5	18	3	60	31	5
CA0890B0531C			<b>1354</b>	54.7	20	23	63	11	3
CA0790B0547C			<b>1338</b>	54.0	20	7	71	18	4
CDC Frontier	2099	1582	<b>1332</b>	38.4	20	2	48	40	10
CA0790B0043C	1926	1540	<b>1250</b>	50.1	24	20	63	11	7
BillyBeans	2021	1491	1195	30.5	20	0	4	42	54
CA0890B0429C			1171	54.3	21	36	57	6	1
CDC Leader			1162	39.3	17	1	47	44	8
Sawyer	1889	1386	1154	45.6	19	8	66	23	4
Nash	1859	1423	1128	59.2	21	40	53	6	1
CA0890B0551C			1113	53.7	18	27	62	8	2
CA0790B0733C		1402	1055	46.9	21	9	69	19	3
CA0790B0054C	1593	1220	1036	55.3	21	18	67	12	3
Sierra	1688	1225	948	50.2	21	8	62	18	11
<b>Average</b>	<b>1885</b>	<b>1443</b>	<b>1212</b>	<b>48.2</b>	<b>20</b>	<b>15</b>	<b>55</b>	<b>22</b>	<b>8</b>
<b>LSD (0.05)</b>	<b>177</b>	<b>198</b>	<b>194</b>	<b>6.2</b>	<b>2</b>	<b>6</b>	<b>10</b>	<b>6</b>	<b>7</b>
<b>CV (%)</b>	<b>12</b>	<b>14</b>	<b>11</b>	<b>9.0</b>	<b>9</b>	<b>29</b>	<b>13</b>	<b>20</b>	<b>53</b>

\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 40. Chickpea performance comparison across northern Idaho, 2015**

Variety or Selection	2014-2015 Crop Year										
	3-Year Average*	2-Year Average*	N. Idaho Average**	Genesee	Moscow	100 Seed Weight	Plant Height	Chickpea Size (%)			
	------(lb/A)-----					(gram)	(inches)	(>25/64")	(>22/64")	(>20/64")	(<20/64")
CDC Orion			<b>1440</b>	1523	1357	42.6	16	4	64	28	5
CA0890B0531C			<b>1372</b>	1389	1354	51.2	17	23	62	12	3
CA0790B0547C			<b>1357</b>	1377	1338	52.0	17	8	73	16	3
CA0790B0642C		1496	<b>1311</b>	1232	1390	54.5	17	35	58	6	1
CDC Frontier	2024	1509	<b>1242</b>	1153	1332	38.3	18	1	44	45	9
Bronic		1515	<b>1241</b>	1079	1403	39.9	20	0	34	51	14
CDC Leader			1164	1166	1162	39.3	15	2	53	39	7
BillyBeans	1985	1473	1125	1054	1195	30.2	17	1	9	44	46
Sawyer	1836	1369	1085	1017	1154	45.7	16	8	65	23	3
CA0790B0043C	1725	1351	1020	790	1250	50.2	21	23	64	9	4
CA0790B0733C		1425	1012	969	1055	47.6	17	12	72	14	2
CA0890B0429C			969	768	1171	54.8	18	42	53	4	1
Nash	1819	1387	968	809	1128	58.9	18	43	51	5	1
CA0890B0551C			954	795	1113	54.0	16	35	56	6	2
CA0790B0054C	1561	1207	923	810	1036	53.4	18	18	69	11	2
Sierra	1608	1174	718	487	948	48.7	18	10	68	15	7
<b>Average</b>	<b>1794</b>	<b>1391</b>	<b>1119</b>	<b>1026</b>	<b>1212</b>	<b>48</b>	<b>17</b>	<b>17</b>	<b>56</b>	<b>21</b>	<b>7</b>
<b>LSD (0.05)</b>	<b>135</b>	<b>161</b>	<b>242</b>	<b>392</b>	<b>194</b>	<b>3.3</b>	<b>ns</b>	<b>5</b>	<b>7</b>	<b>5</b>	<b>5</b>
<b>CV (%)</b>	<b>12</b>	<b>16</b>	<b>22</b>	<b>27</b>	<b>11</b>	<b>7.0</b>	<b>19</b>	<b>31</b>	<b>13</b>	<b>22</b>	<b>65</b>

\*Some varieties were not included at both locations in all years and so are excluded from the multi-location 2- and 3-year summaries.

\*\*Variety yields in bold were statistically equal to the top yielding variety in 2015.



**Table 41. Winter pea variety performance results at Ferdinand, 2015.**

Variety or Selection	Market Class	Testa (Seed Coat) Color	2014-2015 Crop Year				
			Seed Yield (lb/A)**	100 Seed Weight (gram)	Plant Height (inches)	Canopy Height (inches)	Erect Index (0.1-1.0)
Pro 124-7146	Yellow	Ghost	<b>2024</b>	15.1	32	21	0.65
Pro 112-7127	Green	Clear	<b>1816</b>	15.5	38	18	0.50
Icicle*	Green	Green	1711	10.6	39	16	0.40
PS09300095W	Austrian	-	1700	11.9	46	15	0.35
PS11300087W	Green	Green	1670	14.2	33	21	0.62
PS03101269W	Green	Green	1617	13.9	44	14	0.33
Pro 122-7116	Green	Ghost	1587	13.9	29	17	0.64
Pro 124-7130	Yellow	Ghost	1532	14.4	33	20	0.62
Granger	Austrian	-	1510	11.2	48	13	0.27
Koyote	Yellow	Ghost	1492	11.7	31	19	0.61
Specter	Yellow	Ghost	1468	11.6	46	17	0.37
PS11300289W	Yellow	Clear	1444	15.8	24	8	0.33
Melrose	Austrian	-	1439	11.4	40	14	0.34
Windham	Yellow	Ghost	1404	12.4	30	15	0.52
Pro 122-7150	Green	Clear	1291	12.6	33	19	0.57
PS10300120W	Austrian	-	1177	11.8	38	10	0.28
PS10300121W	Austrian	-	1177	11.7	35	12	0.35
Glacier/Fenn	Austrian	-	1133	10.1	41	10	0.24
Glacier	Austrian	-	1095	11.8	28	9	0.34
Fenn	Austrian	-	665	12.5	34	15	0.45
<b>Average</b>			<b>1335</b>	<b>12.5</b>	<b>35</b>	<b>14</b>	<b>0.42</b>
<b>LSD (0.05)</b>			<b>301</b>	<b>1.1</b>	<b>9</b>	<b>3</b>	<b>0.14</b>
<b>CV (%)</b>			<b>15</b>	<b>6.4</b>	<b>18</b>	<b>14</b>	<b>23.00</b>

\*Icicle is a forage pea.

\*\*Variety yields in bold were statistically equal to the top yielding variety in 2015.

**Table 42. Winter pea variety performance results at Moscow, 2015.**

2014-2015 Crop Year							
Variety or Selection	Market Class	Testa	Seed	100 Seed	Plant	Canopy	Erect
		(Seed Coat) Color	Yield (lb/A)**	Weight (gram)	Height (inches)	Height (inches)	Index (0.1-1.0)
PS11300289W	Yellow	Clear	<b>3238</b>	18.7	29	12	0.39
Specter	Yellow	Ghost	2251	13.1	47	38	0.81
Pro 124-7130	Yellow	Ghost	1879	16.3	24	20	0.83
PS11300240W	Green	-	1808	13.6	28	23	0.84
PS03101269W	Green	Green	1701	14.6	42	24	0.56
Icicle	Green*	Green	1659	10.5	33	21	0.66
Koyote	Yellow	Ghost	1477	15.1	26	21	0.83
PS05300180W	Green	-	1452	13.0	25	21	0.83
Pro 124-7146	Yellow	Ghost	1363	13.8	30	25	0.83
PS11300287W	Green	-	1310	14.7	24	14	0.59
Windham	Yellow	Ghost	1270	13.9	25	21	0.85
PS06300024W	Green	-	1185	16.5	26	20	0.77
Pro 122-7116	Green	Ghost	1095	15.4	26	17	0.65
PS11300087W	Green	Green	900	14.5	23	21	0.93
Pro 122-7150	Green	Clear	691	14.0	26	18	0.69
PS06300028W	Green	-	422	16.3	25	17	0.68
Pro 112-7127	Green	Clear	297	15.2	19	13	0.70
<b>Average</b>			<b>1412</b>	<b>14.5</b>	<b>28</b>	<b>20</b>	<b>0.73</b>
<b>LSD (0.05)</b>			<b>508</b>	<b>1.4</b>	<b>8</b>	<b>8</b>	<b>0.22</b>
<b>CV (%)</b>			<b>26</b>	<b>6.6</b>	<b>19</b>	<b>27</b>	<b>20.70</b>

\*Icicle is a forage pea.

\*\*Variety yields in bold were statistically equal to the top yielding variety in 2015.